

September 2020 | Addendum No. 1 to the Midtown Specific Plan

201 West PCH Project

For City of Long Beach

Prepared for:

City of Long Beach Development Services Planning Bureau

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1. Introduction

This Addendum to the City of Long Beach’s 2016 certified Midtown Specific Plan Environmental Impact Report (Certified EIR), State Clearinghouse No. 2015031034 has been prepared in accordance with Section 21166 of the California Environmental Quality Act (CEQA) and sections 15162 and 15164 of the CEQA Guidelines. The City of Long Beach is the lead agency responsible for the EIR, and this Addendum for the proposed 201 West PCH Project.

Jan van Dijs Inc. (Applicant) proposes to develop a mixed-use apartment project at 201-245 West Pacific Coast Highway and 1827 Pacific Avenue in the City of Long Beach in Los Angeles County. The Project Site is located on Pacific Coast Highway between Cedar and Pacific Avenues. The Project Site is located just west of the Midtown Specific Plan’s western boundary, and approximately a quarter mile of the Metro Blue Line, Pacific Coast Highway Station.

The Proposed Development Project would demolish the existing buildings onsite and construct a new five-story mixed-use apartment development over several lots. A (north/south) un-named alley bisects the project, which results in the development project being constructed as two separate buildings, the “Cedar Building” and the “Pacific Building” which are connected together by several raised pedestrian bridges. The Proposed Development Project would include 138 dwelling units, comprised of studio, one-bedroom, two-bedroom, and three-bedroom units, and approximately 25,000 square feet of ground-floor commercial distributed throughout the two buildings. The commercial space would include 23,000 square feet of grocery store in the Pacific building and an approximately 2,000 square foot café in the Cedar building. The Proposed Development Project would extend the Midtown Specific Plan area to the Project Site. The Proposed Development Project would be within the buildout of the Midtown Specific Plan. In order to implement the Proposed Development Project, a number of discretionary approvals from the City of Long Beach are required, including (1) Zoning Code Amendment, (2) Zone Map Change; (3) Site Plan Review; (4) Lot Merger; and (5) Certificate of Compliance.

1.1 PURPOSE OF AN EIR ADDENDUM

1.1.1 CEQA Requirements

Where a previous program EIR has been prepared, subsequent activities within the program must be examined in light of that EIR to determine whether an additional environmental document must be prepared. (CEQA Guidelines Section 15168(c)). Where the subsequent activities involve site specific operations, the agency should use a written checklist to document the evaluation of the site and the activity to determine whether the environmental effects of the operation were covered in the program EIR. (CEQA Guidelines Section 15168(c)(4)).

1. Introduction

Pursuant to PRC Section 21166 and State CEQA Guidelines Section 15162, when an EIR has been certified or a negative declaration adopted for a project, no subsequent EIR or negative declaration shall be prepared for the project unless the lead agency determines that one or more of the following conditions are met:

1. Substantial project changes are proposed that will require major revisions of the previous EIR or negative declaration due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects;
2. Substantial changes would occur with respect to the circumstances under which the project is undertaken that require major revisions to the previous EIR or negative declaration due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects; or
3. New information of substantial importance that was not known and could not have been known with the exercise of reasonable diligence at the time the previous EIR was certified or the negative declaration was adopted shows any of the following:
 - a. The project will have one or more significant effects not discussed in the previous EIR or negative declaration.
 - b. Significant effects previously examined will be substantially more severe than identified in the previous EIR.
 - c. Mitigation measures or alternatives previously found not to be feasible would in fact be feasible and would substantially reduce one or more significant effects of the project, but the project proponent declines to adopt the mitigation measures or alternatives.
 - d. Mitigation measures or alternatives that are considerably different from those analyzed in the previous EIR would substantially reduce one or more significant effects on the environment, but the project proponent declines to adopt the mitigation measures or alternatives.

An Addendum can be prepared to a previously certified EIR if some changes or additions are necessary but none of the conditions described in Section 15162 (above) calling for preparation of a subsequent EIR have occurred (CEQA Guidelines Section 15164).

Changes to the Midtown Specific Plan (Approved Project) and regulatory conditions, described below under the Project Description would fulfill none of the conditions outlined in CEQA Guidelines Sections 15162(a)(1)-(3) as these changes would not result in new significant environmental effects or a substantial increase in the severity of previously identified significant effects requiring major revisions to the Certified EIR. Accordingly, this checklist provides the substantial evidence required by CEQA Guidelines Section 15164(e) to support the finding that a subsequent EIR is not required and an addendum to the Certified EIR is the appropriate environmental document to address changes to the project.

As stated in CEQA Guidelines Section 15164 (Addendum to an EIR or Negative Declaration):

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- a) The lead agency or responsible agency shall prepare an addendum to a previously certified EIR if some changes or additions are necessary but none of the conditions described in Section 15162 calling for preparation of a subsequent EIR have occurred.
- b) An addendum to an adopted negative declaration may be prepared if only minor technical changes or additions are necessary or none of the conditions described in Section 15162 calling for the preparation of a subsequent EIR or negative declaration have occurred.
- c) An addendum need not be circulated for public review but can be included in or attached to the final EIR or adopted negative declaration.
- d) The decision-making body shall consider the addendum with the final EIR or adopted negative declaration prior to making a decision on the project.
- e) A brief explanation of the decision not to prepare a subsequent EIR pursuant to Section 15162 should be included in an addendum to an EIR, the lead agency's findings on the project, or elsewhere in the record. The explanation must be supported by substantial evidence.

After careful consideration of the potential environmental impacts of the Proposed Project, the City of

Long Beach has determined that 1) none of the conditions requiring preparation of a subsequent or supplement to an EIR have occurred, and 2) the circumstances described in Section 15164 of the CEQA Guidelines exist. Therefore, an Addendum to the Midtown Specific Plan EIR has been deemed appropriate.

1.1.2 Scope of Analysis in This Addendum

Changes to the Midtown Specific Plan EIR ("Certified EIR") and regulatory conditions, described below under the Project Description would fulfill none of the conditions outlined in CEQA Guidelines Sections 15162(a)(1)-(3) as these changes would not result in new significant environmental effects or a substantial increase in the severity of previously identified significant effects requiring major revisions to the Certified EIR. Accordingly, this checklist provides the substantial evidence required by CEQA Guidelines Section 15164(e) to support the finding that a subsequent EIR is not required and an addendum to the Certified EIR is the appropriate environmental document to address changes to the project.

In order to implement the Proposed Project, a number of discretionary approvals from the City of Long Beach are required, including (1) Zoning Code Amendment (2) Zone Map Change; (3) Site Plan Review; (4) Lot Merger; and (5) Certificate of Compliance. As lead agency under CEQA, the City of Long Beach is required to evaluate the environmental impacts associated with these discretionary approvals. The scope of the review for project related impacts for this Addendum is limited to differences between impacts analyzed by the Certified EIR for implementation of the Midtown Specific Plan Project (Approved Project) and the Proposed Project. The Approved Project will serve as the "baseline" for the environmental impact analysis. The baseline includes all applicable mitigation measures from the adopted Mitigation Monitoring and Reporting Program (MMRP), approved in conjunction with the Certified EIR. As required by CEQA, this Addendum also

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addresses changes in circumstances or new information that would potentially involve new environmental impacts.

1.2 CONTENT AND ORGANIZATION OF THIS ADDENDUM

This Addendum relies on the City of Long Beach's CEQA checklist, which addresses environmental issues section by section. The completed checklist is included in Section 5.0, Environmental Analysis. Each environmental topic has the following subheadings:

- Summary of Previous Environmental Analysis
- Impacts Associated with the Proposed Project (including environmental checklist)
- Adopted Mitigation Measures Applicable to the Proposed Project

1.3 PREVIOUS ENVIRONMENTAL DOCUMENTATION

For a detailed description of adopted land use planning documents that apply to the Certified EIR and associated environmental documentation, see Section 3.1, Project Background, of this Addendum.

2. Environmental Setting

2.1 PROJECT LOCATION

2.1.1 Project Site

The Project Site is located toward the eastern side of the City, approximately 2 miles north of the Pacific Ocean and approximately 0.5 miles north from Downtown Long Beach¹. The Project Site is approximately 2.2 miles south of the San Diego Freeway (I-405) and 0.8 miles east of the Long Beach Freeway (I-710) (See Figure 1, *Regional Map*). The Project Site is comprised of several lots addressed as 201-245 West Pacific Coast Highway and 1827 Pacific Avenue in the City of Long Beach within Los Angeles County. (See Figure 2, *Local Vicinity*).

The Project Site consists of four parcels: two parcels on the eastern side of the Project Site (northwest corner of Pacific Avenue and Pacific Coast Highway) are vacant and two parcels on the western side of the Project Site (northeast corner of Cedar Avenue and Pacific Coast Highway) are developed with an approximately 9,100 square foot grocery store and its associated surface parking. Table 1 below summarizes the existing conditions at the Project Site.

2.1.2 Midtown Specific Plan

The Midtown Specific Plan area is located along Long Beach Boulevard and is roughly bound by Wardlow Road to the north, Atlantic Avenue to the east, Anaheim Street to the south, and Pacific Avenue to the west. The Midtown Specific Plan regulates its plan area through four development districts: Transit Node, Corridor, Medical and Open Space. The Project Site is located just west of the Midtown Specific Plan area's western boundary on Pacific Coast Highway (See Figure 3, *Existing Zoning and General Plan Map*). The Project Site is located near Transit Node 6 of the Midtown Specific Plan. Transit Node 6 is approximately 20 acres. The projected development potential for District 6 assumes up to 362 dwelling units, 297,125 square feet of commercial/employment, and 102 hotel rooms (Long Beach 2016b).

The vision of the Midtown Specific Plan is to make Midtown a vibrant and thriving community with a unique blend of parks, strong businesses, and transit-oriented housing, and make Midtown an early leader in multi-modal transportation. The Transit Node District supports compact, transit-oriented mixed-use and residential development centered on Metro Blue Line stations (Long beach 2016b).

¹ Calculated from the northern border of the Downtown Plan area to the Project Site.

2. Environmental Setting

2.2 ENVIRONMENTAL SETTING

2.2.1 Existing Land Use and Zoning

The Project Site is comprised of four parcels. A summary of the General Plan Land Use designation (PlaceTypes) and corresponding zones are provided in Table 1 below. Table 1 also provides a description of the current uses onsite.

Table 1 Summary of Existing Conditions at the Project Site

Parcel APN ¹	Address ¹	Existing Designations		Description
		General Plan LUE (2019) PlaceType ²	Zoning ³	
7209-022-027	231 W. Pacific Coast Highway	Transit-Oriented Development Low Density (TOD-L) (7 story limitation/height designation)	Two-Family Residential, Standard Lot (R-2-N)	Developed with an approximately 9,100 square foot supermarket building and surface parking lot
7209-022-023	245 W. Pacific Coast Highway		Regional Highway Commercial (CHW)	
7209-022-900	1827 Pacific Avenue		Community Commercial Automobile-Oriented (CCA)	Undeveloped, vacant land enclosed by fencing and a wall
7209-022-028	201 W. Pacific Coast Highway		Regional Highway Commercial (CHW)	Vacant parcel developed with a one-story building (vacant) fronting Pacific Avenue. The rest of the parcel is paved. The parcel is enclosed with a fence and wall.

Sources:
Los Angeles County Office of the Assessor 2020.
City of Long Beach 2019.
City of Long Beach 2016a.

2.2.2 Surrounding Land Use and Zoning

The Project Site is located within an urbanized area within the City of Long Beach, Los Angeles County, California. The Project Site is located on Pacific Coast Highway between Cedar and Pacific Avenues. Pacific Avenue and Pacific Coast Highway are prominent thoroughfares in Long Beach. Commercial and other non-residential uses generally “front” along these streets and residential neighborhoods are located behind commercial uses. . Below is a description of the properties surrounding the Project Site. Refer to Figures 2, *Local Vicinity*, and 3, *Existing Zoning and General Plan Map*.

- **North:** Single-family and multi-family residential development is located to the north of the Project Site along Cedar Avenue. Commercial uses are located to the north of the Project Site along Pacific Avenue. The residential uses are one and two story in height, and the commercial uses to the north are generally one-story in height.

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The residential properties along Cedar Avenue are zoned Two-family Residential, standard lot (R-2-N). The residential properties on the west side of Cedar Avenue have a PlaceType designation of Founding and Contemporary Neighborhood (Single-family and low-density) (FCN). The properties on the east side of Cedar Avenue have a Place Type designation of Transit-Oriented Development Low Density (mixed use) (TOD-L). Parcels near the Project Site have a 7-story height limit, and the parcels located on Cedar Avenue, north of 19th Street have a 4-story height limit. The FCN PlaceType designation limits height at 2 stories.

- **East:** Pacific Avenue immediately borders the Project Site to the east. Commercial uses are located east of the Project Site along Pacific Avenue. One single-family home fronts along Pacific Avenue just east of the Project Site. Commercial uses continue eastward along the Pacific Coast Highway. Single-family and multi-family residential properties are located just east of these commercial uses along Pacific Avenue. Buildings in the vicinity of the Project Site range between one and two stories in height.

In the vicinity of the Project Site, parcels along Pacific Avenue are zoned CCA with a PlaceType designation of TOD-L (with a seven-story height limit). Parcels further east from Pacific Avenue are zoned Moderate-density Multiple Residential (R-4-R) with a PlaceType designation of TOD-L (with a 7 story and 5 story height limit). Parcels generally along the Pacific Coast Highway are zoned Specific Plan (SP-1-TN) and have a PlaceType designation of Transit-Oriented Development Moderate Density (TOD-M) with a 10-story height limit. These parcels are within the Midtown Specific Plan Area, which guide development within this area.

- **South:** The Pacific Coast Highway immediately borders the Project Site to the south. Educational Partnership High School is located at 1794 Cedar Avenue, across the street from the Project Site. Commercial uses are located along the Pacific Coast Highway and Pacific Avenue. Single-family and multi-family development are located just south of the commercial uses along Pacific Coast Highway. Further south along Pacific Avenue, single-family and multi-family residential uses front Pacific Avenue. In the vicinity of the Project Site, buildings range between one to two stories.

Parcels along the Pacific Coast Highway are zoned Regional Highway Commercial (CHW) with a PlaceType designation of Neighborhood Serving Center or Corridor Moderate Density (NSC-M) and TOD-L. Parcels along Pacific Avenue are zoned CCA near the Project Site and have a PlaceType designation of TOD-L. The parcels just south of the commercial uses along the Pacific Coast Highway are zoned Institutional (I) and Medium-density Multiple Residential (R-4-N) and have the PlaceType designations of NSC-M and Multiple Family Residential Moderate Density (MFR-M), respectively. Buildings to the south have a height limit of four to five stories.

- **West:** Cedar Avenue immediately borders the Project Site to the west. A one-story commercial building fronts Pacific Coast Highway and a one-story multifamily building is across the street from the Project Site on Cedar Avenue. Commercial uses are located along the Pacific Coast Highway. Single-family and multi-family development are located to the west of the Project Site along local streets. Buildings to the west of the Project Site are generally one to two stories. Properties to the west are zoned CHW, with a PlaceType designation of NSC-M, and R-2-N, with a PlaceType designation of FCN. The height limit for the NSC-M PlaceType designation is 5-stories and the height limit for the FCN PlaceType designation is 2 stories.

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2.2.3 Local and Regional Access

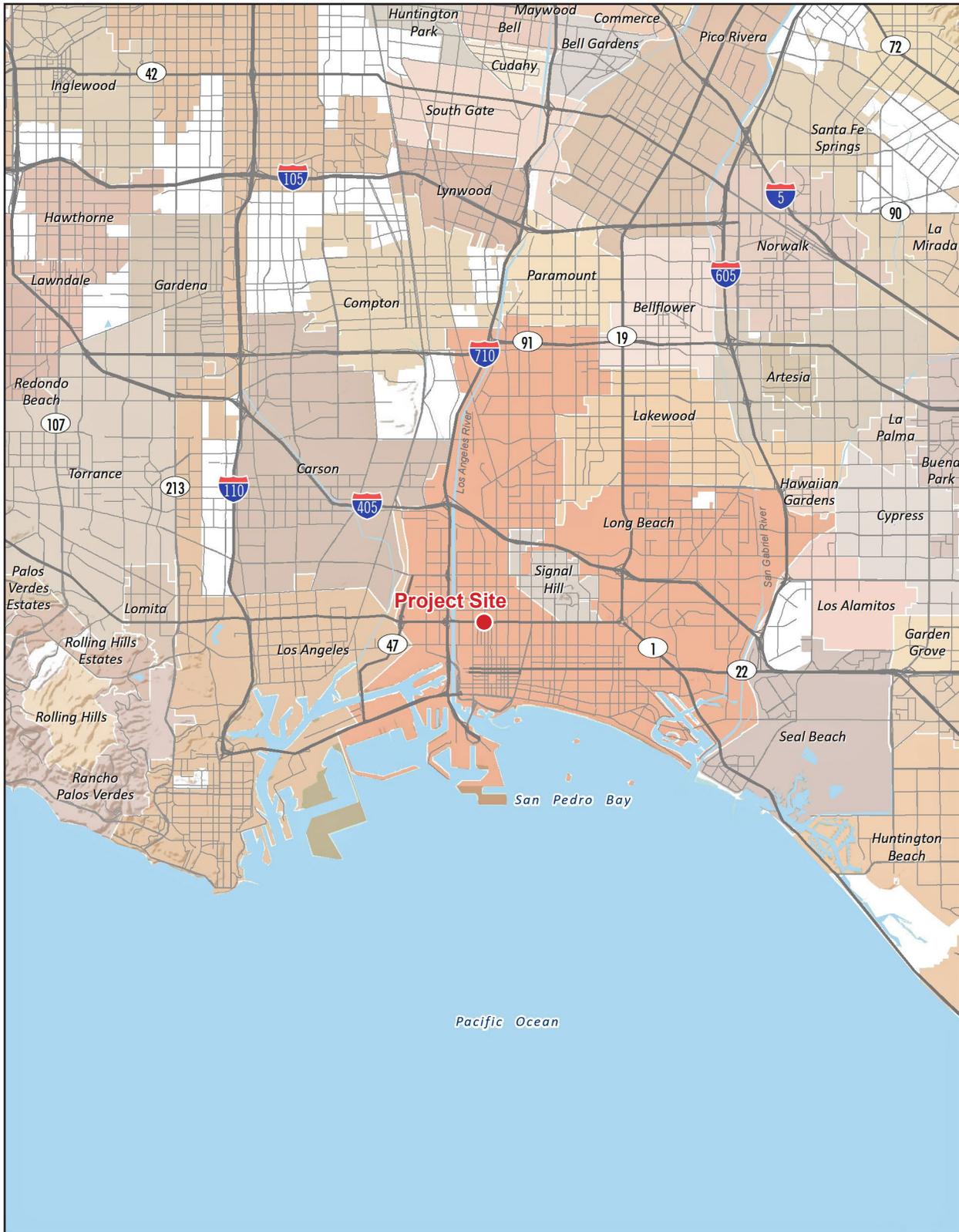
The I-405 Freeway, approximately 1.8 miles north of the Project Site, the I-710 Freeway, approximately 0.8 miles west of the Project Site, Pacific Coast Highway (State Route 1 [SR-1]), immediately south of the Project Site, provide regional access to the Project Site.

Locally, the Project Site is served by the City's street grid system. The Project Site is located on Pacific Coast Highway between Cedar and Pacific Avenues. The Long Beach General Plan, Circulation Element, designates Pacific Coast Highway as a Regional Corridor. Pacific Avenue is designated as a Minor Avenue north of the Pacific Coast Highway (adjacent to the Project Site) and as a Major Avenue south of the Pacific Coast Highway. Cedar Avenue borders the Project Site to the west and is designated as a local street. These streets provide primary and local access to the Project Site.

2.2.4 Public Transit

The Project Site is approximately a quarter mile west of the Metro A Line (formerly known as the Blue Line), Pacific Coast Highway Station, located near the intersection of Long Beach Boulevard and the Pacific Coast Highway. The Metro A Line provides service between Downtown Long Beach and Downtown Los Angeles, and connects to Metro C Line, E Line, D Line, and B Line (former known as the Green Line, Expo Line, Purple Line, and Red Line, respectively) at transfer stations. In addition, a number of bus lines operate along the Pacific Coast Highway, Pacific Avenue, and Magnolia Avenue with bus stops within 0.25 miles of the project site. Long Beach Transit and Torrance Transit operates the bus routes in vicinity of the Project Site. The Long Beach Transit lines in the vicinity of the Project Site include: 1, 171, 172, 173, 174, and 182. The Torrance Transit operates bus route 3 in the vicinity of the Project Site. Southern California Association of Government (SCAG) identifies the Project Site as being within a High Quality Transit Area (SCAG 2016).

Figure 1 - Regional Location



Note: Unincorporated county areas are shown in white.

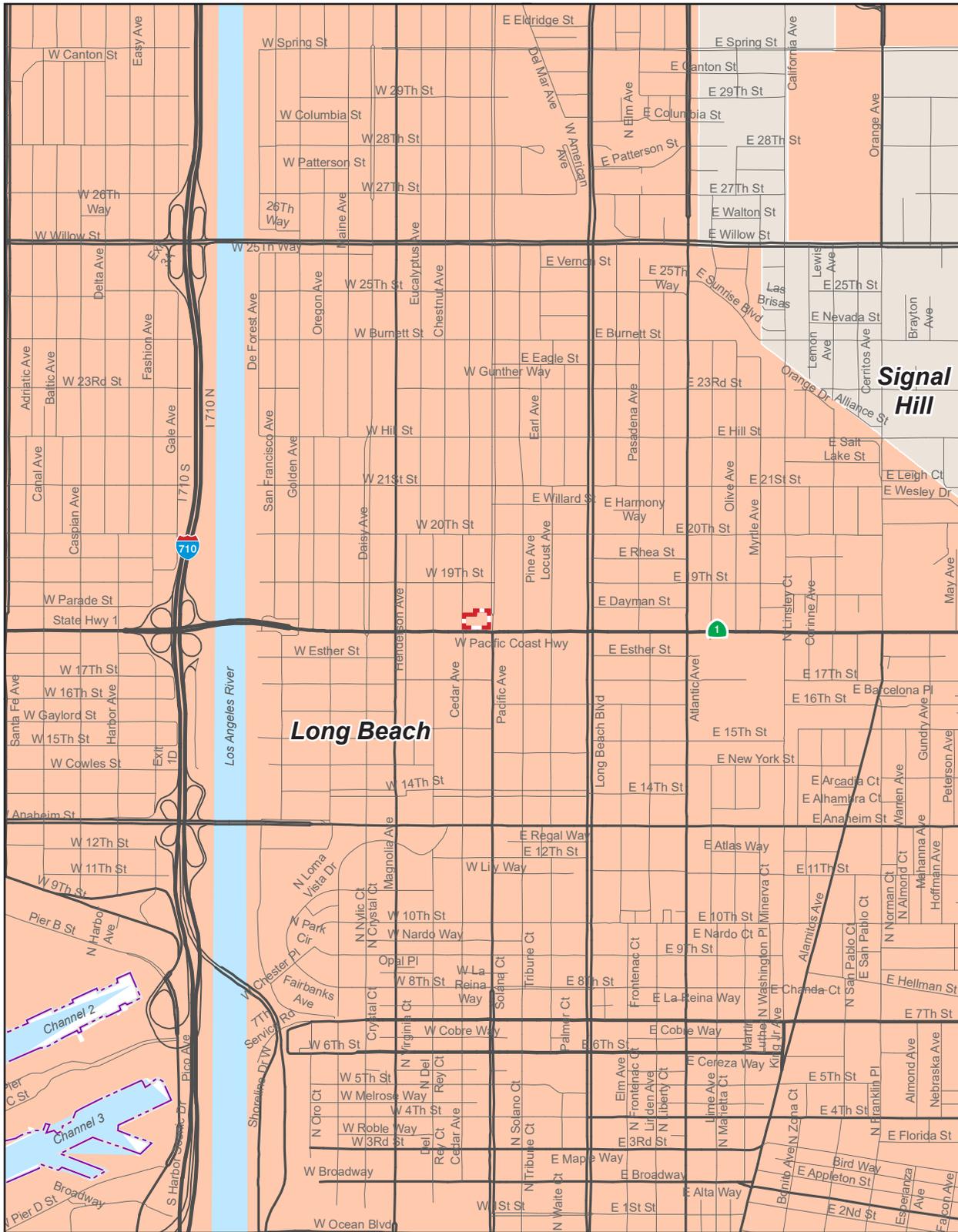
Source: ESRI, 2020



2. Environmental Setting

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Figure 2 - Local Vicinity



--- Project Boundary

Note: Unincorporated county areas are shown in white.

Source: ESRI, 2020

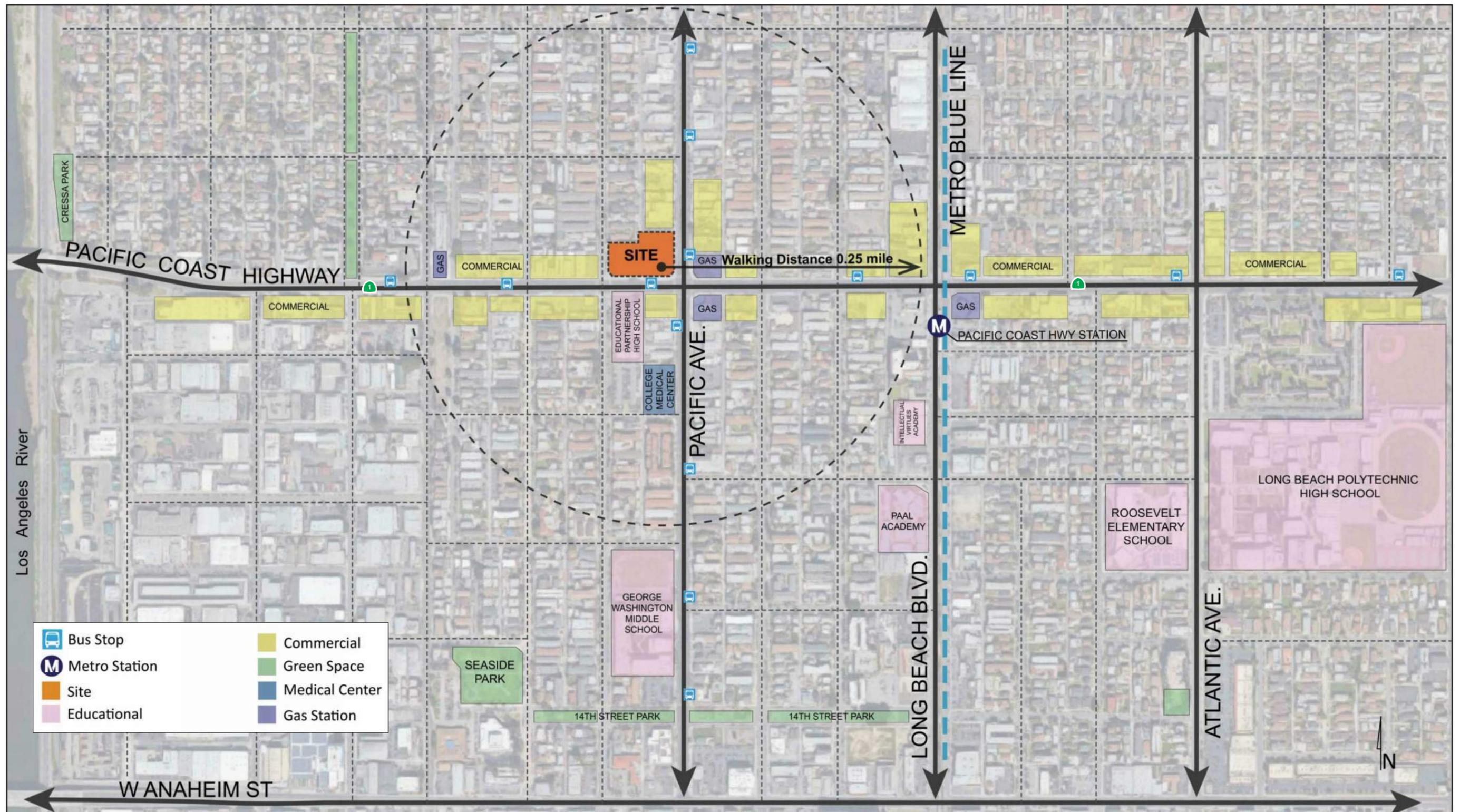
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Scale (Feet)



2. Environmental Setting

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Figure 3 - Neighborhood Context



Source: Studio T-Sq 2, 2020



2. Environmental Setting

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3. Project Description

3.1 PROJECT BACKGROUND

3.1.1 Approved Project (Midtown Specific Plan)

The Approved Project analyzed in the 2016 Certified EIR consists of City adoption of the Midtown Specific Plan (Specific Plan Area), extraction of the two residential blocks around Officer Black Park from PD-29 (Area Outside the Specific Plan), and retention of the underlying conventional zoning designations already in place for the two extracted residential blocks. The Approved Project also includes the closure of a few roadway segments that intersect with Long Beach Boulevard.

3.1.1.1 SPECIFIC PLAN AREA

The Approved Project provides a framework for the development and improvement of a 369-acre corridor along Long Beach Boulevard. The Midtown Specific Plan Area currently contains just under 1,900 residential units and a little over 2.6 million square feet of commercial and employment uses, as well as medical facilities with over 950 licensed hospital beds and three hotels with approximately 200 hotel rooms. The Approved Project increased the number of permitted residential units within the Midtown Specific Plan Area to just over 3,600 units—approximately 1,700 more than existing conditions but about 2,200 less than would be allowed under the current PD-29 zoning.

The Midtown Specific Plan allows commercial and employment building square footage of 2.9 million square feet (a net increase of almost 369,000 square feet over existing conditions) by concentrating and intensifying development at key transit and employment nodes. The buildout projections for the Specific Plan assume a small increase in the number of licensed hospital beds (27 beds) and the addition of a business hotel with up to 81 hotel rooms.

3.1.1.2 AREA OUTSIDE THE SPECIFIC PLAN

As stated above, the Approved Project includes an area outside of, but adjacent to the Specific Plan Area boundary; the area comprises approximately four acres around Officer Black Park. Existing land uses within this area consists of 76 dwelling units and 11,346 square feet associated with the existing church; this area also contains Officer Black Park.

Under the Approved Project, the two residential blocks around Officer Black Park were extracted from PD 29 and retained their underlying conventional zoning designations: Single-Family Residential, standard lot (R-1-N); Three-Family Residential (R-3-S); and Park (P). The proposed extraction did not require an amendment to the City's zoning map, as the underlying conventional zoning designations were already in place. With the exception of the zoning designation revisions, no physical change (e.g., additional development intensity,

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redevelopment) was proposed; the EIR assumed no physical changes would occur within this area and all existing uses would remain.

3.1.1.3 ROADWAY SEGMENT CLOSURES

The Approved Project included the closure of the following roadway segments to vehicular traffic in order to create parklets (small street parks): 25th Street west of Long Beach Boulevard; 25th Street east of Long Beach Boulevard; 23rd Street west of Long Beach Boulevard; 23rd Street east of Long Beach Boulevard; 21st Street west of Long Beach Boulevard; 21st Street east of Long Beach Boulevard; Rhea Street east of Long Beach Boulevard; Esther Street east of Long Beach Boulevard; 15th Street west of Long Beach Boulevard; 15th Street east of Long Beach Boulevard; and 14th Street east of Long Beach Boulevard.

3.1.1.4 APPROVED PROJECT APPROVALS

Implementation of the Approved Project required the project approvals listed in Table 2.

Table 2 Project Approvals for Approved Project

Lead Agency	Action
Long Beach City Council	Adoption of the Midtown Specific Plan Adoption of a Zone Change Certification of the EIR Adoption of Findings of Fact and Statement of Overriding Considerations (if required) Adoption of the Mitigation Monitoring Program
Responsible Agencies	Action
Los Angeles Regional Water Quality Control Board	Issuance of a National Pollution Discharge Elimination System Permit (NPDES) for future construction activities

3.1.2 2016 Certified EIR

On June 24, 2016, the Long Beach City Council certified the 2016 Certified EIR and adopted the Approved Project. The 2016 Certified EIR analyzed environmental impacts of the Approved Project. Most impacts identified in the EIR were determined to be less than significant after implementation of mitigation measures. However, the following impacts were determined to be significant and unavoidable even after implementation of feasible mitigation:

- **Air Quality Standards (Construction).** The Approved Project was found to generate short-term emissions that exceed the South Coast Air Quality Management District’s (SCAQMD) regional construction significance thresholds and would significantly contribute to the nonattainment designations of the South Coast Air Basin.

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- **Air Quality (Operational).** The Approved Project was found to generate long-term emissions that exceed SCAQMD's regional operational significance thresholds and would significantly contribute to the nonattainment designations of the South Coast Air Basin.
- **Air Quality (Construction).** It was determined that construction activities related to buildout of the Approved Project could expose sensitive receptors to substantial pollutant concentrations of NOX, CO, PM10, and PM2.5.
- **Air Quality Plan (Construction and Operational).** It was determined that the Approved Project is a regionally significant project that would contribute to an increase in frequency or severity of air quality violations in the South Coast Air Basin and would conflict with the assumptions of the applicable Air Quality Management Plan.
- **Greenhouse Gas (GHG) Emissions (Operational).** It was determined that buildout of the Approved Project would result in a substantial increase in GHG emissions compared to existing conditions and would not meet SCAQMD's Year 2035 Target efficiency metric of 2.4 metric tons of CO₂e per year per service population or the long-term GHG reduction goal under Executive Order S-3-05.
- **Noise (Construction).** It was determined that noise from construction activities associated with future development projects that would be accommodated by the Approved Project could result in substantial impacts to sensitive receptors.

3.2 PROJECT DESCRIPTION

Jan van Dijs Inc. (Applicant) proposes to develop a mixed-use apartment project at 201-245 West Pacific Coast Highway and 1827 Pacific Avenue in the City of Long Beach in Los Angeles County. The Proposed Project would demolish existing buildings onsite and construct a five-story mixed-use apartment development. The Proposed Development Project would include 138 dwelling units and 25,000 square feet of ground-floor commercial. The dwelling units would be comprised of studio, one-bedroom, two-bedroom, and three-bedroom units. The commercial space would include 23,000 square feet of grocery store and approximately 2,000 square foot café. Total gross building area would be approximately 181,436 square feet. The Proposed Project would provide a total of 25,398 square feet of open space, which includes commercial open space, common open space, amenities, and semi-private and private open space (see Table 3 below).

The development project would construct two separate buildings (the Cedar Building and the Pacific Building) connected by pedestrian bridges that span across the north/south (unnamed) alley. Both buildings would contain a total of five stories. The ground floor commercial would encompass both buildings with residential floors span levels two through five. The building would be approximately 64 feet above grade with architectural features extending to 71 feet above grade. The Pacific Building project would include two levels of subterranean parking and the Cedar building will provide surface parking.

3. Project Description

Table 3 Proposed Open Space

Open Space Type	Provided (Square Feet)
Commercial Open Space	2,537
Common Open Space	12,166
Amenities	2,696
Semi-Private Open Space	1,579
Private Open Space	6,420
TOTAL	25,398

The Proposed Project would provide a total of 238 parking spaces without tandem parking (or 258 parking spaces with tandem parking) and 82 bicycle parking spaces. Vehicle parking would be accommodated in two levels of subterranean parking, mezzanine level, and street level. Vehicle access to the garage would be provided from one driveway along the west side of Pacific Avenue and one driveway on the east side of Cedar Avenue. The loading area for truck deliveries would be accessed from the existing north/south alley that bisects the project development site.

3.2.1 Midtown Specific Plan Area Extension to Project Site

Pacific Avenue provides the western boundary of Transit Node 6 of the Midtown Specific Plan area. The Project Site is located just west of the Midtown Specific Plan area, along Pacific Coast Highway between Cedar and Pacific Avenues. The Proposed Project would extend the Midtown Specific Plan area, Transit Node 6, westerly, to the northeast corner of Cedar Avenue and Pacific Coast Highway. The Proposed Project would be within the buildout of Transit Node 6. Table 4 summarizes the buildout of Transit Node 6 as well as the buildout of the entirety of the Midtown Specific Plan. The Midtown Specific Plan area currently contains approximately 1,900 residential units and a little over 2.6 million square feet of commercial and employment uses, as well as medical facilities with over 950 licensed hospital beds and three hotels with approximately 200 hotel rooms. The Midtown Specific Plan 2016 Certified EIR studied the increase of the number of permitted residential units to just over 3,600 units—1,736 units more than existing conditions. In addition to an increase of 369,000 square feet of commercial and employment generating uses, 27 hospital beds, and 81 hotel rooms over existing conditions of the Plan area at the time. The Transit Node districts supports compact, transit-oriented mixed-use and residential development centered near Metro Blue line stations (Long Beach 2016b).

Table 4 Land Use Summary

	Dwelling Units	Commercial/Employment Square Footage	Hotel Rooms/Hospital Beds
Transit Node 6	362 du	297,125 sf	102 rooms
Overall Midtown Specific Plan	3,619 du	2,997,265 sf	277 rooms / 983 beds

Source: Long Beach 2016b

3. Project Description

As previously stated, the Proposed Development Project is located immediately adjacent to the Midtown Specific Plan area, at the northern corner of the Pacific Avenue/Pacific Coast Highway intersection. The Midtown Specific Plan area will be expanded westerly, terminating at the northeast corner of Cedar Avenue and Pacific Coast Highway to include the Project Site. As such, the Proposed Development Project relies on the 2016 Certified EIR for the Midtown Specific Plan (SCH No. 2015031034) which analyzed an increase in the Midtown Specific Plan area of 1,736 dwelling units, 368,932 square feet of commercial and employee uses, 27 hospital beds, and 81 hotel rooms. The Proposed Project would ultimately acquire the 1.59 acres west of the Approved Project Site to be incorporated as part of the Midtown Specific Plan area.

3.2.2 Discretionary Actions

This Addendum to the Certified EIR is intended to serve as the primary environmental document for all future actions associated with the Proposed Project, including all discretionary approvals requested or required to implement the Proposed Project. In addition, this Addendum is the primary reference document for the formulation and implementation of the MMRP. All the approved, applicable measures from the Certified EIR have been incorporated into this document. This document is intended to provide sufficient information to allow the City of Long Beach and any other permitting agencies to evaluate the potential impacts from construction and implementation of the Proposed Project. The following discretionary actions have been requested by the Project Applicant:

- Zoning Code Amendment
- Zone Map Change
- Site Plan Review
- Lot Merger
- Certificate of Compliance

3. Project Description

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Figure 4 - Conceptual Site Plan



3. Project Description

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4. Environmental Checklist

4.1 BACKGROUND

1. **Project Title:** 201 West PCH Project

2. **Lead Agency Name and Address:**

City of Long Beach Development Services Planning Bureau
411 West Ocean Blvd, 3rd Floor
Long Beach, California 90802

3. **Contact Person and Phone Number:**

Contact: Gina Casillas, Planner
562-570-6879

4. **Project Location:** The Project Site is located at 201-245 West Pacific Coast Highway and 1827 Pacific Avenue in the City of Long Beach within Los Angeles County. The Project Site is located on Pacific Coast Highway between Cedar and Pacific Avenues.

5. **Project Sponsor's Name and Address:**

Jan van Dijs Inc.
425 E. 4th Street Unit E
Long Beach, CA 90802

6. **General Plan Designation:** Transit-Oriented Development Low Density - TOD-L

7. **Zoning:** Regional Highway Commercial (CHW), Community Commercial Automobile-Oriented (CCA) and Two-family Residential, standard lot (R-2-N)

8. **Description of Project** (Describe the whole action involved, including but not limited to, later phases of the project, and any secondary, support, or off-site features necessary for its implementation. Attach additional sheets if necessary):

4. Environmental Checklist

The Proposed Development Project would demolish the existing buildings onsite. The development project will construct two, five story buildings, as one, mixed-use development project, which consists of 138-market-rate residential units and approximately 25,000 square feet of commercial area. The development project is bisected by an existing 18-foot wide (north/south) un-named alley. The two buildings will be connected by raised pedestrian bridges that expand across the alleyway. The larger of the two buildings – The Pacific Building, is located on the northwest corner of Pacific Avenue and Pacific Coast Highway. This building will sit over five lots which totals 36,330 square feet of land. A lot merger will merge the five lots into one lot. The Cedar Building is located on the northeast corner of Cedar Avenue and Pacific Coast Highway. This building will sit over four lots which totals 27,528 square feet of land. A lot merger will merge the four lots into one lot.

Commercial square footage will be located on the ground floor of both buildings and residential square footage will be located on levels two through five. The buildings would be approximately 64 feet above grade with architectural features extending to 71 feet above grade. The Pacific Building would include two levels of subterranean parking and the Cedar building will provide surface parking. The Pacific Building will provide approximately 23,000 square feet of commercial area (grocery store) and the Cedar Building will provide approximately 2,000 square feet of commercial area (café). In order to implement the Proposed Project, a number of discretionary approvals from the City of Long Beach are required, including (1) Zoning Code Amendment; (2) Zone Map Change; (3) Site Plan Review; (4) Lot Merger; and (5) Certificate of Compliance.

9. Surrounding Land Uses and Setting (Briefly describe the project's surroundings):

The Project Site is immediately bordered by Cedar Avenue to the west, Pacific Avenue to the east and Pacific Coast Highway to the south. The Project Site is surrounded commercial uses to the east and south along Pacific Avenue and Pacific Coast Highway, single family and multi-family uses to the north and multifamily and commercial uses to the west.

10. Other Public Agencies Whose Approval Is Required (e.g., permits, financing approval, or participation agreement): None.

11. Have California Native American tribes traditionally and culturally affiliated with the project area requested consultation pursuant to Public Resources Code section 21080.3.1? If so, is there a plan for consultation that includes, for example, the determination of significance of impacts to tribal cultural resources, procedures regarding confidentiality, etc.?

(Note: Conducting consultation early in the CEQA process allows tribal governments, lead agencies, and project proponents to discuss the level of environmental review, identify and address potential adverse impacts to tribal cultural resources, and reduce the potential for delay and conflict in the environmental review process. (See Public Resources Code section 21080.3.2.) Information may also be available from the California Native American Heritage Commission's Sacred Lands File per Public Resources Code section 5097.96 and the California Historical Resources Information System administered by the California Office of Historic Preservation. Please also note that Public Resources Code section 21082.3(c) contains provisions specific to confidentiality.)

The Proposed Project would comply with SB18.

4. Environmental Checklist

4.2 ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED

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

- | | | |
|--|--|---|
| <input type="checkbox"/> Aesthetics | <input type="checkbox"/> Agricultural and Forest Resources | <input type="checkbox"/> Air Quality |
| <input type="checkbox"/> Biological Resources | <input type="checkbox"/> Cultural Resources | <input type="checkbox"/> Energy |
| <input type="checkbox"/> Geology / Soils | <input type="checkbox"/> Greenhouse Gas Emissions | <input type="checkbox"/> Hazards & Hazardous Materials |
| <input type="checkbox"/> Hydrology / Water Quality | <input type="checkbox"/> Land Use / Planning | <input type="checkbox"/> Mineral Resources |
| <input type="checkbox"/> Noise | <input type="checkbox"/> Population / Housing | <input type="checkbox"/> Public Services |
| <input type="checkbox"/> Recreation | <input type="checkbox"/> Transportation / Traffic | <input type="checkbox"/> Tribal Cultural Resources |
| <input type="checkbox"/> Utilities / Service Systems | <input type="checkbox"/> Wildfire | <input type="checkbox"/> Mandatory Findings of Significance |

4.3 DETERMINATION (TO BE COMPLETED BY THE LEAD AGENCY)

On the basis of this initial evaluation:

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

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

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

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

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

Signature

Date

Printed Name

For

4. Environmental Checklist

4.4 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 would not expose sensitive receptors to pollutants, based on a project-specific screening analysis).
2. All answers must take account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.
3. Once the lead agency has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. “Potentially Significant Impact” is appropriate if there is substantial evidence that an effect may be significant. If there are one or more “Potentially Significant Impact” entries when the determination is made, an 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.
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 Analyses Used. Identify and state where they are available for review.
 - b) Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.
 - c) Mitigation Measures. For effects that are “Less than Significant with Mitigation Measures Incorporated,” describe the mitigation measures which were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.
6. Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances). Reference to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.

4. Environmental Checklist

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 significance 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 significance

4. Environmental Checklist

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5. Environmental Analysis

This section provides evidence to substantiate the conclusions in the environmental checklist. The section will briefly summarize the conclusions of the Certified EIR and then discuss whether or not the proposed project is consistent with the findings in the Certified EIR. Mitigation measures referenced are from the Certified EIR.

5.1 AESTHETICS

5.1.1 Summary of Impacts Identified in the Certified EIR

The Initial Study prepared for the Approved Project determined that there would be no substantial adverse effect on a scenic vista nor substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway. The Initial Study determined that the Approved Project would not have the potential to obstruct or otherwise impact existing public views or scenic vistas. Additionally, it determined that no rock outcroppings or any other scenic resources exist on or adjacent to the Project Site and no state scenic highways occur adjacent to or near the Project Site. These topics were determined to have no impact.

The Certified EIR concluded that the Approved Project which included landscaping and architectural treatments would bring consistency and stylistic improvements to the existing visual character of the Project Site. It was determined that the Proposed Development Project, in accordance with the Approved Project, would visually alter the area, it would not deteriorate the existing visual character or conflict with any existing architectural characteristics specific to the area.

Additionally, with regard to lighting and glare, the Certified EIR concluded that with adherence of the provisions of the Midtown Specific Plan, City's Municipal Code and California's Building Energy Efficiency Standards for Residential and Nonresidential Buildings, and because the Project Site and surrounding area are largely developed and contain existing sources of lighting, the lighting and glare associated with proposed development project that would be accommodated by the Approved Project would not substantially increase nighttime light and glare throughout the Project Site or its surroundings.

The Certified EIR concluded that upon implementation of regulatory requirements, development of the Approved Project with regard to impacts to aesthetics would result in less than significant impacts.

5.1.2 Impacts Associated with the Proposed Project

Except as provided in Public Resources Code Section 21099, would the project:

5. Environmental Analysis

Environmental Issues	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	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?					X
c) In nonurbanized 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?				X	

a) Have a substantial adverse effect on a scenic vista?

No Impact. As with the Approved Project, the Proposed Development Project, located immediately west of the Approved Project site, would not have the potential to obstruct or otherwise impact existing public views of scenic vistas, as none exist along the corridor. No impact would occur.

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

No Impact. As with the Approved Project, the Proposed Development Project, located immediately west of the Approved Project site, does not contain any rock outcroppings or any other scenic resources on or adjacent to the Project Site. Additionally, as with the Approved Project, the Proposed Development Project is not within a state scenic highway, nor is it visible from any officially designated scenic highway. No impact would occur.

c) In nonurbanized 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

5. Environmental Analysis

accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR.

The Proposed Development Project would entail the Midtown Specific Plan Area, as studied in the 2016 Certified EIR, would be expanded to incorporate the Project Site that would merge 5 lots on Pacific Coast Highway and Cedar Avenue and 4 lots on Pacific Coast Highway and Pacific Avenue. This would entail the development of 115,044 square feet comprising of residential use with 138 dwelling units, 25,000 square feet of commercial space, and 25,398 square feet of open space. This is well within what was analyzed for the Approved Project which included the increase in development for the Midtown Specific Plan area including an additional 1,737 dwelling units, 368,932 square feet of commercial and employee uses, 27 hospital beds, and 81 hotel rooms. As it is within the scope of what was previously analyzed, the Proposed Project would not result in new aesthetic impacts or impact regulations affecting scenic quality. No changes or new information would require preparation of a subsequent EIR.

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

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR.

The Approved Project includes residential, commercial/employee, hospital, and hotel uses on-site with associated parking. The Proposed Project would also include residences, commercial, and open spaces uses on-site with associated parking, which, as with the Approved Project would generate light at nighttime hours. Interior lighting emanating from residential units would be typical of residential units and would not create a substantial light source. As with the Approved Project, the Proposed Project would be required to comply with the City of Long Beach Municipal Code (Sections 21.41.259, 21.44.855, and 21.44.600) which would ensure that exterior lighting and fixtures would ensure that lighting impacts are less than significant.

The Proposed Project's would result in no changes to the non-reflective exterior building materials under the Approved Project; similarly, the Proposed Project would result in a less than significant impact to glare.

5.1.3 Adopted Mitigation Measures Applicable to the Proposed Project

No mitigation measures related to aesthetics were outlined in the Certified EIR.

5.1.4 Level of Significance After Mitigation

No mitigation measures are required for the Proposed Project.

5. Environmental Analysis

5.2 AGRICULTURE AND FORESTRY RESOURCES

5.2.1 Summary of Impacts Identified in the EIR

The Initial Study prepared for the Approved Project scoped out Agriculture and Forestry Resources. The Initial Study found that the California Department of Conservation characterizes the Midtown Specific Plan area as “Urban and Built-Up”. There is no Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland) mapped in or near the Project Site. No Williamson Act contracts were in effect on or adjacent to the Project Site. No forest land or timberland occur within Long Beach, and the Approved Project would not cause impacts to forest land or timberland. No impact would occur with respect to agriculture and forestry resources, and no additional analysis was required in Certified EIR.

5.2.2 Impacts Associated with the Proposed Project

In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Dept. 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 proposed project:

	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	No Impact
a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?					X
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?					X

5. Environmental Analysis

	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	No Impact
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?					X
d) Result in the loss of forest land or conversion of forest land to non-forest use?					X
e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?					X

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

No Impact. The Project Site is located in an urbanized area. The Project Site is not a candidate for listing as prime farmland, unique farmland, or farmland of statewide importance. The Project Site is not in an area mapped by the Farmland Mapping and Monitoring Program (FMMP) (DOC 2020). The Project Site is not zoned for agricultural uses and no farmland or agricultural activity exist on site. Similar to the Approved Project, the Proposed Project would not convert important farmland to a nonagricultural use. No impact would occur and no mitigation is necessary.

b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?

No Impact. The Project Site is not zoned for agricultural use and no active Williamson Act contract exist on site. As with the Approved Project, implementation of the Proposed Project would not conflict with agricultural zones or a Williamson Act contract. No impact would occur and no mitigation is necessary.

5. Environmental Analysis

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

No Impact. The Project Site is in an urbanized location and does not contain forest land or timberland. The Project Site and the surrounding area are not zoned for forest land or timberland. The Proposed Project would not conflict with zoning for forest land or timberland. No impact would occur and no mitigation is necessary.

- d) **Result in the loss of forest land or conversion of forest land to non-forest use?**

No Impact. The Project Site does not contain forest land. The implementation of the Proposed Project would not result in the loss of forest land or the conversion of forest land to non-forest uses. No impact would occur and no mitigation is necessary.

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

No Impact. The Project Site and surrounding area are urban and do not contain farmland or forest land. The implementation of the Proposed Project would not result in the loss of forest land or the conversion of forest land to non-forest uses. No impact would occur and no mitigation is necessary.

5.2.3 Adopted Mitigation Measures Applicable to the Proposed Project

No mitigation measures related to agricultural resources were outlined in the Certified EIR.

5.2.4 Level of Significance After Mitigation

No mitigation measures are required for the Proposed Project.

5. Environmental Analysis

5.3 AIR QUALITY

5.3.1 Summary of Impacts Identified in the EIR

The Initial Study for the Approved Project concluded that future development that would be accommodated under the Approved Project would not emit objectionable odors that would affect a substantial number of people. Additionally, existing facilities would be required to be in compliance with SCAQMD Rule 402 to prevent nuisances on sensitive land uses. Temporary emissions resulting from construction equipment would be controlled by permitting regulations.

The Certified EIR determined that construction activities associated with implementation of the Approved Project would generate short-term emissions that exceed the South Coast Air Quality Management District's regional construction thresholds. It was also concluded that long-term criteria air pollutant emissions associated with the Approved Project would exceed the South Coast Air Quality Management District's regional operational significance thresholds. Additionally, construction activities related to buildout of the Approved Project would expose sensitive receptors to substantial pollutant concentrations. The Certified EIR also determined that onsite operation-related emissions associated with the Approved Project would not expose sensitive receptors to substantial pollutant concentrations. It was also concluded that the Approved Project could site sensitive land uses in proximity to major air pollution sources. The Certified EIR also determined that the Approved Project is a regionally significant project would contribute to an increase in frequency or severity of air quality violations in the South Coast Air Basin and would conflict with the assumptions of the applicable Air Quality Management Plan. Implementation of Mitigation Measures AQ-1 through AQ-7 were found to reduce certain impacts to a less than significant level, though impacts with regard to construction-related emissions; operation-related criteria air pollutants from stationary and mobile sources; regional construction emissions; and operational phase criteria air pollutant emissions would remain significant and unavoidable even with mitigation.

5.3.2 Impacts Associated with the Proposed Project

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:

Environmental Issues	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	No Impact
a) Conflict with or obstruct implementation of the applicable air quality plan?				X	

5. Environmental Analysis

Environmental Issues	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	No Impact
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 leading to odors) adversely affecting a substantial number of people?				X	

a) Conflict with or obstruct implementation of the applicable air quality plan?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR.

Air quality in the City of Long Beach is regulated by SCAQMD, which is the agency principally responsible for comprehensive air pollution control in the South Coast Air Basin (SoCAB). The SCAQMD develops rules and regulations; establishes permitting requirements for stationary sources; inspects emissions sources; and enforces such measures through educational programs or fines, when necessary for over an approximately 10,743 square-mile area. The SCAQMD is directly responsible for reducing emissions from stationary (area and point), mobile, and indirect sources. The Proposed Project supports AQMP objectives to reduce trips, promote infill development, and balance jobs and housing and would not conflict with implementation of the AQMP.

In March of 2017, the SCAQMD Governing Board released the Final 2016 AQMP, which continues to evaluate current integrated strategies and control measures to meet the NAAQS, as well as, explore new and innovative methods to reach its goals. Some of these approaches include utilizing incentive programs, recognizing existing co-benefit programs from other sectors, and developing a strategy with fair-share reductions at the federal, state, and local levels.

The two principal criteria for conformance with the AQMP are:

1. Whether the project would result in an increase in the frequency or severity of existing air quality violations or contribute to new violations or delay the timely attainment of air quality standards or the interim emissions reductions specified in the AQMP.
2. Whether the project would exceed the assumptions in the AQMP based on the years of Project build-out phase.

5. Environmental Analysis

As shown in Table 5 and Table 6, the Proposed Project, would not exceed SCAQMD thresholds for construction or operational phase emissions. Additionally, the Proposed Project would not exceed SCAG's population, housing, or employment projections. The Proposed Project would be required to comply with applicable mitigation measures identified in the Certified EIR. There would be no new significant impact or a substantial increase in the severity of previously identified effects.

Table 5 Maximum Daily Regional Construction Emissions

Construction Phase	Pollutants (pounds per day) ^{1,2}					
	VOC	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}
Year 2020						
Demolition	1	11	16	<1	1	<1
Site Preparation	<1	6	10	<1	2	1
Grading	<1	5	9	<1	2	1
Building Construction	1	15	22	<1	2	1
Year 2021						
Building Construction	1	14	21	<1	2	1
Asphalt Paving	<1	6	10	<1	<1	<1
Architectural Coating	25	1	3	<1	<1	<1
Maximum Daily Emissions	25	15	22	<1	2	1
SCAQMD Regional Construction Threshold	75	100	550	150	150	55
Significant?	No	No	No	No	No	No

Source: California Emissions Estimator Model, Version 2016.3.2.

Notes: Emissions totals may not equal 100 percent due to rounding.

¹ Construction assumptions were based on CalEEMod defaults, which are based on construction surveys conducted by South Coast Air Quality Management District (South Coast AQMD) of construction equipment.

² Includes implementation Mitigation Measures AQ-1 through AQ-3 as prescribed under the Certified Midtown Specific Plan EIR. Mitigation AQ-1 requires construction equipment of 50 horsepower or more meet the Tier 4 emissions standards. For purposes of this analysis, the model utilized Tier 4 Interim equipment. Per Mitigation Measure AQ-2, the modeling includes watering disturbed areas a minimum of three times per day, reducing speed limit to 15 miles per hour on unpaved surfaces, replacing ground cover quickly, and street sweeping with Rule 1186-compliant sweepers. In accordance Mitigation Measure AQ-3, modeling assumed interior and exterior paints with a VOC content of 10 grams per liter.

5. Environmental Analysis

Table 6 Net Maximum Daily Regional Operational Phase Emissions

Source	Criteria Air Pollutants (lbs/day)					
	ROG (VOC)	NOx	CO	SO ₂	PM ₁₀	PM _{2.5}
Existing						
Area	<1	<1	<1	0	0	0
Energy	<1	<1	<1	<1	<1	<1
Mobile ¹	3	4	21	<1	5	2
Total	4	4	21	<1	5	1
Proposed						
Area	4	<1	11	<1	<1	<1
Energy	<1	1	<1	<1	<1	<1
Mobile ¹	11	14	78	<1	19	5
Total	15	14	90	<1	19	5
Net Change	12	10	69	<1	14	4
SCAQMD Threshold	55	55	550	150	150	55
Exceeds Threshold	No	No	No	No	No	No

Source: California Emissions Estimator Model, Version 2016.3.2.; Based on trip generation information provided by Fehr and Peers.

Notes: Highest winter or summer. Emissions totals may not equal 100 percent due to rounding.

¹ Based on calendar year 2023 aggregated emission rates derived EMFAC2017 Version 1.0.2 and CalEEMod methodology.

- 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?**

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR.

The Certified EIR disclosed that construction-related NOx and VOC emissions would be significant and unavoidable. The 138 dwelling units, 25,000 square feet of commercial, and 25,398 square feet of open space are all within the quantity analyzed under the Approved Project. Thus, the Proposed Development Project's construction-related air quality emissions would be within the scope of analysis of the Approved Project identified in the Certified EIR. The Proposed Development Project would further incorporate all applicable mitigation measures identified in the Certified EIR. Additionally, as displayed in Table 7, the maximum daily onsite construction emissions for the Proposed Development Project would not exceed localized significance thresholds and would therefore result in a less than significant impact. Therefore, the Proposed Development Project would not create a new significant impact or a substantial increase in the severity of previously identified effects.

5. Environmental Analysis

Table 7 Maximum Daily Onsite Construction Emissions Compared to the Localized Significance Thresholds

Source	Pollutants (pounds per day) ^{1, 2}			
	NO _x	CO	PM ₁₀	PM _{2.5}
Building Construction – Year 2020	10	13	<1	<1
Building Construction – Year 2021	10	13	<1	<1
Asphalt Paving – Year 2021	6	10	<1	<1
Architectural Coating	1	2	<1	<1
1.00-Acre or Less Screening-Level LST	57	585	4	3
Exceeds LST?	No	No	No	No
Grading – Year 2020	4	8	2	1
1.19-Acre Screening-Level LST	62	633	5	3
Exceeds LST?	No	No	No	No
Site Preparation – Year 2020	5	10	2	1
1.44-Acre Screening-Level LST	68	697	5	4
Exceeds LST?	No	No	No	No
Demolition – Year 2020	9	15	<1	<1
1.59-Acre Screening-Level LST	72	737	6	4
Exceeds LST?	No	No	No	No

Source: California Emissions Estimator Model, Version 2016.3.2.; South Coast AQMD 2008, 2011. In accordance with South Coast AQMD methodology, only on-site stationary sources and mobile equipment occurring on the proposed project site are included in the analysis. LSTs are based on receptors within 82 feet (25 meters) of the proposed project site.

Notes: Emissions totals may not equal 100 percent due to rounding.

¹ Construction assumptions were based on CalEEMod defaults, which are based on construction surveys conducted by South Coast AQMD of construction equipment.

² Includes implementation Mitigation Measures AQ-1 through AQ-3 as prescribed under the Certified Midtown Specific Plan EIR. Mitigation AQ-1 requires construction equipment of 50 horsepower or more meet the Tier 4 emissions standards. For purposes of this analysis, the model utilized Tier 4 Interim equipment. Per Mitigation Measure AQ-2, the modeling includes watering disturbed areas a minimum of three times per day, reducing speed limit to 15 miles per hour on unpaved surfaces, replacing ground cover quickly, and street sweeping with Rule 1186-compliant sweepers. In accordance Mitigation Measure AQ-3, modeling assumed interior and exterior paints with a VOC content of 10 grams per liter.

c) Expose sensitive receptors to substantial pollutant concentrations?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR.

The Proposed Development Project which includes 138 dwelling units, 25,000 square feet of commercial, and 25,398 square feet of open space are all within the quantity analyzed under the Approved Project. As such, the Proposed Development Project would not increase the development assumptions analyzed for the Approved Project and no increase in square footage, population, or vehicle trips. Construction activities would remain consistent with what was previously analyzed and therefore impacts would be consistent with what was identified under the Approved Project. As the Approved Project determined that onsite operation-related emissions would not expose sensitive receptors to substantial pollutant concentrations, the Proposed Development Project would be consistent with this finding. For construction activities related to the Proposed Development Project, like the Approved Project, Mitigation Measures AQ-1 through AQ-3 would be incorporated to lessen impacts to the greatest extent feasible. There would be no new significant impact or a substantial increase in the severity of previously identified effects.

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d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

No Impact. The Initial Study to the Certified EIR found that the Approved Project's uses would result in a less than significant impact to objectionable odors. According to SCAQMD, land uses associated with odor complaints typically include agricultural uses, wastewater treatment plants, food processing plants, chemical plants, composting, refineries, landfills, dairies, and fiberglass molding facilities. The Proposed Development Project and its operations does not include any uses identified by the SCAQMD as being associated with odors and therefore would not produce objectionable odors. As such, the Proposed Development Project would have no impact related to objectionable odors. The Proposed Development Project would comply with SCAQMD Rule 402 to prevent occurrences of public nuisances (34). No changes or new information would require preparation of a subsequent EIR.

5.3.3 Adopted Mitigation Measures Applicable to the Proposed Project

AQ-1 Applicants for new development projects within the Midtown Specific Plan area shall require the construction contractor to use equipment that meets the United States Environmental Protection Agency (EPA)-Certified emissions standards. All off-road diesel-powered construction equipment greater than 50 horsepower shall meet the Tier 4 emission standards. Any emissions control device used by the contractor shall achieve emissions reductions that are no less than what could be achieved by a Level 4 diesel emissions control strategy for a similarly sized engine, as defined by the California Air Resources Board's (CARB) regulations.

Prior to construction, the project engineer shall ensure that all demolition and grading plans clearly show the requirement for EPA Tier 4 or higher emissions standards for construction equipment over 50 horsepower. During construction, the construction contractor shall maintain a list of all operating equipment in use on the construction site for verification by the City of Long Beach Building Official or their designee. The construction equipment list shall state the makes, models, and numbers of construction equipment onsite. Equipment shall be properly serviced and maintained in accordance with the manufacturer's recommendations. Construction contractors shall also ensure that all nonessential idling of construction equipment is restricted to five minutes or less in compliance with California Air Resources Board's Rule 2449.

AQ-2 Applicants for new development projects within the Midtown Specific Plan area shall require the construction contractor to prepare a dust control plan and implement the following measures during ground-disturbing activities in addition to the existing requirements for fugitive dust control under South Coast Air Quality Management District (SCAQMD) Rule 403 to further reduce PM₁₀ and PM_{2.5} emissions. The City of Long Beach Building Official or their designee shall verify compliance that these measures have been implemented during normal construction site inspections.

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- Following all grading activities, the construction contractor shall reestablish ground cover on the construction site through seeding and watering.
- During all construction activities, the construction contractor shall sweep streets with SCAQMD Rule 1186–compliant, PM₁₀-efficient vacuum units on a daily basis if silt is carried over to adjacent public thoroughfares or occurs as a result of hauling.
- During all construction activities, the construction contractor shall maintain a minimum 24-inch freeboard on trucks hauling dirt, sand, soil, or other loose materials and tarp materials with a fabric cover or other cover that achieves the same amount of protection.
- During all construction activities, the construction contractor shall water exposed ground surfaces and disturbed areas a minimum of every three hours on the construction site and a minimum of three times per day.
- During all construction activities, the construction contractor shall limit onsite vehicle speeds on unpaved roads to no more than 15 miles per hour.

AQ-3 Applicants for new development projects within the Midtown Specific Plan area shall require the construction contractor to use coatings and solvents with a volatile organic compound (VOC) content lower than required under South Coast Air Quality Management District Rule 1113 (i.e., super compliant paints). The construction contractor shall also use precoated/natural-colored building materials, where feasible. Use of ~~low-VOC~~ paints with a VOC content of 10 grams per liter or less and spray method shall be included as a note on architectural building plans and verified by the City of Long Beach Building Official or their designee during construction.

Stationary Source

AQ-4 Prior to issuance of a building permit for new development projects within the Midtown Specific Plan area, the property owner/developer shall show on the building plans that all major appliances (dishwashers, refrigerators, clothes washers, and dryers) to be provided/installed are Energy Star appliances. Installation of Energy Star appliances shall be verified by the City of Long Building and Safety Bureau prior to issuance of a certificate of occupancy.

Transportation and Motor Vehicles

AQ-5 Prior to issuance of building permits for residential development projects within the Midtown Specific Plan area, the property owner/developer shall indicate on the building plans that the following features have been incorporated into the design of the building(s). Proper installation of these features shall be verified by the City of Long Beach Building and Safety Bureau prior to issuance of a certificate of occupancy.

- For multifamily dwellings, electric vehicle charging shall be provided as specified in Section A4.106.8.2 (Residential Voluntary Measures) of the CALGreen Code.

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- Bicycle parking shall be provided as specified in Section A4.106.9 (Residential Voluntary Measures) of the CALGreen Code.

AQ-6

Prior to issuance of building permits for non-residential development projects within the Midtown Specific Plan area, the property owner/developer shall indicate on the building plans that the following features have been incorporated into the design of the building(s). Proper installation of these features shall be verified by the City of Long Beach Building and Safety Bureau prior to issuance of a certificate of occupancy.

- For buildings with more than ten tenant-occupants, changing/shower facilities shall be provided as specified in Section A5.106.4.3 (Nonresidential Voluntary Measures) of the CALGreen Code.
- Preferential parking for low-emitting, fuel-efficient, and carpool/van vehicles shall be provided as specified in Section A5.106.5.1 (Nonresidential Voluntary Measures) of the CALGreen Code.
- Facilities shall be installed to support future electric vehicle charging at each non-residential building with 30 or more parking spaces. Installation shall be consistent with Section A5.106.5.3 (Nonresidential Voluntary Measures) of the CALGreen Code.

AQ-7

Prior to issuance of building permits for development projects within the Midtown Specific Plan area that include sensitive uses (e.g., residential, day care centers), within the distances identified by the California Air Resources Board's (CARB) *Air Quality and Land Use Handbook*, the property owner/developer shall submit a health risk assessment (HRA) to the City of Long Beach Planning Bureau. The HRA shall be prepared in accordance with policies and procedures of the state Office of Environmental Health Hazard Assessment (OEHHA) and the South Coast Air Quality Management District (SCAQMD).

If the HRA shows that the incremental cancer risk exceeds one in one hundred thousand (1.0E-05) or the appropriate noncancer hazard index exceeds 1.0, the following is required prior to issuance of building permits:

- The HRA shall identify the level of high-efficiency Minimum Efficiency Reporting Value (MERV) filter required to reduce indoor air concentrations of pollutants to achieve the cancer and/or noncancer threshold.
- Installation of high efficiency MERV filters in the intake of residential ventilation systems consistent with the recommendations of the HRA, shall be shown on plans. Heating, air conditioning, and ventilation (HVAC) systems shall be installed with a fan unit designed to force air through the MERV filter.
- To ensure long-term maintenance and replacement of the MERV filters in the individual units, the property owner/developer shall record a covenant on the property that requires ongoing implementation of the actions below. The form of the covenant shall be approved by the Long Beach City Attorney's Office prior to recordation.

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- The property owner/developer shall provide notification to all future tenants or owners of the potential health risk for affected units and the increased risk of exposure to diesel particulates when windows are open.
- For rental units, the property owner/developer shall maintain and replace MERV filters in accordance with the manufacture's recommendations.
- For ownership units, the Homeowner's Association shall incorporate requirements for long-term maintenance in the Covenant Conditions and Restrictions and inform homeowners of their responsibility to maintain the MERV filter in accordance with the manufacturer's recommendations.

5.3.4 Level of Significance After Mitigation

As with the Approved Project, all impacts would be reduced to the greatest extent feasible with incorporation of mitigation, however, as identified in the Certified EIR, impacts with regard to construction-related emissions; operation-related criteria air pollutants from stationary and mobile sources; regional construction emissions; and operational phase criteria air pollutant emissions would remain significant and unavoidable even with mitigation.

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5.4 BIOLOGICAL RESOURCES

5.4.1 Summary of Impacts Identified in the EIR

The Initial Study prepared for the Approved Project scoped out Biological Resources. The Initial Study found that the Project Site would not support the eleven rare plant species and ten sensitive, federally- and state-listed wildlife species identified in the Long Beach region as the Project Site has been previously graded, disturbed, and highly urbanized. Additionally, no riparian habitat or other sensitive natural communities occur in the Project Site. It was determined that the Approved Project would not involve direct removal, filling, hydrological interruption, or other direct or indirect impact to wetlands under jurisdiction of regulatory agencies. The Approved Project would not substantially interfere with a wildlife corridor or affect wildlife movement or migration. The Initial Study also concluded that the Approved project would comply with the provisions of the City's Municipal Code under Chapter 14.28 (Trees and Shrubs) and would not conflict with local policies or ordinances protecting trees and would not conflict with the provisions of an adopted habitat conservation plan. No additional analysis was required in Certified EIR.

5.4.2 Impacts Associated with the Proposed Project

Would the project:

Environmental Issues	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	No Impact
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?				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 Department of Fish and Wildlife or U.S. Fish and Wildlife Service?					X

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Environmental Issues	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	No Impact
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?					X
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?				X	
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?					X
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?					X

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

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR.

As with the Approved Project, the Project Site, located immediately west of the Approved Project site, would not support the eleven rare plant species and ten sensitive, federally- and state-listed wildlife species that have been identified in the Long Beach region. As the Project Site has been previously graded, disturbed, and highly urbanized and remains isolated from areas supporting suitable habitat for sensitive species, impacts to the habitat of candidate, sensitive, or special status species would be less than significant, as with the

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Approved Project. No new impacts or substantially greater impacts than what was previously analyzed would occur that would require the preparation of a subsequent EIR.

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

No Impact. As with the Approved Project, the Project Site, located immediately west of the Approved Project site, does not contain a riparian habitat or other sensitive natural community on site. Additionally, as with the Approved Project, the Proposed Project is not included in local or regional plans, policies, and regulations that identify riparian habitat or other sensitive natural communities. No impact would occur.

- 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?**

No Impact. As with the Approved Project, the Project Site, located immediately west of the Approved Project site, would not comprise of the alteration of the channelized Los Angeles River by development, nor would it involve the direct removal, filling, hydrological interruption, or other direct impact to wetlands under jurisdiction of regulatory agencies. As with the Approved Project, no impact for the Proposed Project would occur.

- 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?**

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. As with the Approved Project, the Project Site, located immediately west of the Approved Project site, would occur in an area that is almost entirely developed and surrounded by urban uses. Therefore, as with the Approved Project, the Project Site is not available for overland wildlife movement or migration and would therefore not substantially alter or interfere with a wildlife corridor. No new impacts or substantially greater

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impacts than what was previously analyzed would occur that would require the preparation of a subsequent EIR.

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

No Impact. As with the Approved Project, the Proposed Project would comply with provisions of the City's Municipal Code and would not conflict with local policies or ordinances protecting trees and no impact would occur.

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?

No Impact. As with the Approved Project, there is no Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan in the City. Therefore, as with the Approved Project, the Proposed Project would not conflict with the provisions of an adopted habitat conservation plan and no impact would occur.

5.4.3 Adopted Mitigation Measures Applicable to the Proposed Project

No mitigation measures related to biological resources were outlined in the Certified EIR.

5.4.4 Level of Significance After Mitigation

No mitigation measures are required for the Proposed Project.

5. Environmental Analysis

5.5 CULTURAL RESOURCES

5.5.1 Summary of Impacts Identified in the Certified EIR

The Initial Study prepared for the Approved Project scoped out Cultural Resources. The Initial Study determined that the Approved Project site included one historically important resource, the Packard Motors building located on Anaheim Street at the southernmost border of the Project Site. This building remains protected by the Packard Motors Building Ordinance (Ordinance NO. C-7593), which established regulations for the on-going preservation of the building and therefore resulted in a less than significant impact with regard to historic resources. The Initial Study also found that as the Approved Project site had already been previously disturbed and developed, with no archaeological or paleontological resources discovered during construction and ground-disturbing activities, it would be unlikely that any such resources would be uncovered with the development of the Approved Project. With regard to human remains, the Initial Study concluded that although soil-disturbing activities associated with development in accordance with the Approved Project was unlikely to result in the discovery of human remains, that through compliance with the California Health and Safety Code Section 7050.5, CEQA Section 15064.5, and Public Resources Code Section 5097.98, this would ensure that significant impacts to human remains would not occur. No additional analysis was required in Certified EIR.

5.5.2 Impacts Associated with the Proposed Project

Would the project:

Environmental Issues	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	No Impact
a) Cause a substantial adverse change in the significance of a historical resource pursuant to § 15064.5?				X	
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to § 15064.5?					X
c) Disturb any human remains, including those interred outside of dedicated cemeteries?					X

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Comments:

- a) **Cause a substantial adverse change in the significance of a historical resource pursuant to § 15064.5?**

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR.

As with the Approved Project, the Project Site, located immediately west of the Approved Project site, contains no historic properties within the Project Site. Therefore, the implementation of the Proposed Development Project would not cause a substantial adverse change in the significance of any one historic resource. No new impacts or substantially greater impacts than what was previously analyzed would occur that would require the preparation of a subsequent EIR.

- b) **Cause a substantial adverse change in the significance of an archaeological resource pursuant to § 15064.5?**

No Impact. As with the Approved Project, the Project Site, located immediately west of the Approved Project site, has been previously disturbed and developed and has been subject to similar construction and ground-disturbing activities that would be associated with the Proposed Development Project. Therefore, as with the Approved Project, it is not anticipated that implementation of the Proposed Development Project would result in the uncovering of archaeological resources. Additionally, as with the Approved Project, the Project Site is not recognized as an area having the potential for subsurface archaeological resources. No impact would occur.

- c) **Disturb any human remains, including those interred outside of dedicated cemeteries?**

No Impact. As with the Approved Project, the Project Site, located immediately west of the Approved Project site, has been previously disturbed and developed and has been subject to similar construction and ground-disturbing activities that would be associated with the Proposed Development Project. Therefore, it is not anticipated that any human remains would be discovered, however, as with the Approved Project, the Proposed Development Project would be required to comply with existing law including California Health and Safety Code Section 7050.0, CEQA Section 15064.5, and Public Resources Section 5097.98 to ensure that significant impacts to human remains would not occur. No impact would occur.

5.5.3 Adopted Mitigation Measures Applicable to the Proposed Project

No mitigation measures related to cultural resources were outlined in the Certified EIR.

5.5.4 Level of Significance After Mitigation

No mitigation measures are required for the Proposed Project.

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5.6 ENERGY

5.6.1 Summary of Impacts Identified in the Certified EIR

Energy was not analyzed as a topic in the prior Certified EIR but was addressed in the Utilities and Service Systems section of the Certified EIR. The Certified EIR found that though the Approved Project would result in an increase demand for electricity and natural gas, it was found that the existing and/or proposed electricity and natural gas facilities would be able to accommodate utility demands that would be generated by the Approved Project. The net increase in demand was well within SCE's systemwide net increase in electricity supplies of approximately 13,400 GWH annually over the 2012-2040 period. Though buildout of the Approved Project would generate a net increase in natural gas demands, the forecast net increase in natural gas demands due to buildout of the Approved Project would be well within City forecasts of natural gas supplies, and would therefore not require the City to obtain new or expanded natural gas supplies. Additionally, the Approved Project was required to comply with the California Green Building Standards Code (Part 11, Title 24), California Code of Regulations, Title 20: Appliance Efficiency Regulations, and California Code of Regulations, Title 24: Building Energy Efficiency Standards.

5.6.2 Impacts Associated with the Proposed Project

Would the project:

Environmental Issues	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	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	

- a) **Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?**

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR.

The Certified EIR determined that the Approved Project would be adequately served by the existing electricity and natural gas infrastructure. The Approved Project would not require electricity or natural gas facilities

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beyond those planned or readily available or a substantial expansion of existing facilities. The development project consisting of 138 dwelling units, 25,000 square feet of commercial, and 25,398 square feet of open space are within the quantity analyzed under the Approved Project. As such, the Proposed Development Project would not increase the development assumptions analyzed for the Approved Project. Development of the Approved Project and Proposed Project would be required to comply with California energy efficiency standards. The inclusion of mixed-use development would further promote active transportation, such as walking, and reduces dependency on vehicles. Therefore, the Proposed Development Project would not be expected to result in wasteful, inefficient, or unnecessary consumption of energy resources. As a result, the Proposed Project would not create a new significant impact or a substantial increase in the severity of previously identified effects related, no change or new information would require preparation of a subsequent EIR.

b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. Energy consumption of new buildings in California is regulated by the State Building Energy Efficiency Standards, embodied in Title 24 of the California Code of Regulations (CCR) which establishes “energy budgets” and efficiency standards that regulate heating, cooling, ventilation, water heating, and lighting. The Proposed Development Project’s electric and natural gas consumption would be in accordance with State and City regulations and practices. As such, the Proposed Development Project, as with the Approved Project would be considered consistent with the goals and policies of the City’s Conservation Element (1973). Impacts would be less than significant and no change or new information would require preparation of a subsequent EIR.

5.6.3 Adopted Mitigation Measures Applicable to the Proposed Project

No mitigation measures related to energy were outlined in the Certified EIR.

5.6.4 Level of Significance After Mitigation

No mitigation measures are required for the Proposed Project.

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5.7 GEOLOGY AND SOILS

5.7.1 Summary of Impacts Identified in the Certified EIR

The Initial Study determined that due to the generally flat nature of the Approved Project site, containing no significant slopes, and the site not being located in an area susceptible to landslides, as indicated by the State of California Hazard Zones Map, no impacts to landslides would occur. The Initial Study also concluded that future development within the Approved Project site would be required to comply with the NPDES permit by preparing and implementing a SWPPP specifying BMPs for minimizing pollution of stormwater with soil and sediment during project construction. Adherence to the BMPs in the SWPPP would reduce, prevent, or minimize soil erosion from project-related grading and construction levels to a less than significant level. Additionally, the Initial Study found that the Approved Project would involve the use of septic tanks or alternative wastewater disposal systems as the Approved Project would use City sewer lines and wastewater disposal systems. Therefore, it was determined that no impact would occur.

The Certified EIR determined that before any development could occur on sites within the Newport Inglewood Fault Zone, all such development would be required to obtain all necessary approvals, clearances, and permits from the City. It was determined that with adherence to the state regulations, impacts resulting from an Alquist-Priolo Earthquake Fault Zone were not anticipated to occur. Additionally, it was determined that the design and construction of the future development projects that would be accommodated by Approved Project would be required to adhere to the provisions of the CBC and CRC, which are imposed on project developments by the City's Development Services Department during the development review and building plan check process. Compliance with the requirements of the CBC and CRC for structural safety during a seismic event would reduce hazards from strong seismic ground shaking. The Certified EIR also concluded that future development projects that would be accommodated by the Approved Project would be required to have a site-specific geotechnical investigation report prepared by the project applicant's/developer's geotechnical consultant, in accordance with Appendix J Section J104 (Engineered Grading Requirements) of the CBC; such investigation would determine seismic design parameters for the site and the proposed building type per CBC requirements; would assess liquefaction potential onsite and provide any needed recommendations to minimize hazards from liquefaction; and would assess hazardous soil conditions onsite and would provide recommendations as needed to minimize potential soil hazards. Therefore, impacts to seismic ground shaking, liquefaction, and ground subsidence were not anticipated to be significant.

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5.7.2 Impacts Associated with the Proposed Project

Would the project:

Environmental Issues	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	No Impact
a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:					
i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map, issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.				X	
ii) Strong seismic ground shaking?				X	
iii) Seismic-related ground failure, including liquefaction?				X	
iv) Landslides?					X
b) Result in substantial soil erosion or the loss of topsoil?				X	
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?				X	
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?				X	
e) Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?					X
f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?				X	

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- a) **Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:**
- i) **Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map, issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.**

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR.

As with the Approved Project, the Proposed Development Project, located immediately west of the Approved Project site, would be required to obtain all necessary approvals, clearances, and permits from the City before development could occur and would be required to comply with state regulations including Section 2621.5 of the California Public Resources Code and Section 3600 of the California Code of Regulations. No new impacts or substantially greater impacts than what was previously analyzed would occur that would require the preparation of a subsequent EIR.

ii) **Strong seismic ground shaking?**

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR.

As with the Approved Project, design and construction of the Proposed Development Project, located immediately west of the Approved Project would be required to adhere to the provisions of the CBC and CRC, which are imposed on project developments by the City's Development Services Department during the development review and building plan check process. Compliance with the requirements of the CBC and CRC for structural safety during a seismic event would reduce hazards from strong seismic ground shaking. As with the Approved Project, the Proposed Development Project would be required to have a site-specific geotechnical investigation report prepared by the project applicant's/developer's geotechnical consultant, in accordance with Appendix J Section J104 (Engineered Grading Requirements) of the CBC; such investigation would determine seismic design parameters for the site and the proposed building type per CBC requirements. No new impacts or substantially greater impacts than what was previously analyzed would occur that would require the preparation of a subsequent EIR.

iii) **Seismic-related ground failure, including liquefaction?**

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR.

As with the Approved Project, design and construction of the Proposed Development Project, located immediately west of the Approved Project would be required to adhere to the provisions of the CBC and CRC, which are imposed on project developments by the City's Development Services Department during the development review and building plan check process. Compliance with the requirements of the CBC and CRC for structural safety during a seismic event would reduce hazards from strong seismic ground shaking. As with the Approved Project, the Proposed Development Project would be required to have a site-specific geotechnical investigation report prepared by the project applicant's/developer's geotechnical consultant, in accordance with Appendix J Section J104 (Engineered Grading Requirements) of the CBC; such investigation would assess liquefaction potential onsite and

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provide any needed recommendations to minimize hazards from liquefaction. No new impacts or substantially greater impacts than what was previously analyzed would occur that would require the preparation of a subsequent EIR.

iv) Landslides?

No Impact. As with the Approved Project, the Project Site, located immediately west of the Approved Project site is generally flat and not located in an area that has been identified as susceptible to landslides. No impact would occur.

b) Result in substantial soil erosion or the loss of topsoil?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR.

As with the Approved Project, the Proposed Development Project would be required to comply with the NPDES permit by preparing and implementing a SWPPP specifying BMPs for minimizing pollution of stormwater with soil and sediment during project construction. Adherence to the BMPs in the SWPPP would reduce, prevent, or minimize soil erosion from project-related grading and construction levels to a less than significant level. No new impacts or substantially greater impacts than what was previously analyzed would occur that would require the preparation of a subsequent EIR.

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?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR.

As the Approved Project studied the area in and around the Midtown Specific Plan Area and as the Project Site includes the area immediately adjacent to the Approved Project, as development is within the scope of what was originally evaluated, no new significant impacts to geology and soils would occur as a result of the Proposed Development Project. Additionally, as mentioned previously, implementation of the Proposed Development Project would be required to have a site-specific geotechnical investigation report prepared by the project applicant's/developer's geotechnical consultant, in accordance with Appendix J Section J104 (Engineered Grading Requirements) of the CBC. This would ultimately investigate the seismic ground shaking, liquefaction, and hazardous soils state of the Project Site with appropriate recommendations. Therefore, no new impacts or substantially greater impacts than what was previously analyzed would occur that would require the preparation of a subsequent EIR.

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?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR.

As the Approved Project studied the area in and around the Midtown Specific Plan Area and as the Project Site includes the area immediately adjacent to the Approved Project, as development is within the scope of what was originally evaluated, no new significant impacts to geology and soils would occur as a result of the Proposed Development Project. Additionally, as mentioned previously, implementation of the Proposed Development

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Project would be required to have a site-specific geotechnical investigation report prepared by the project applicant's/developer's geotechnical consultant, in accordance with Appendix J Section J104 (Engineered Grading Requirements) of the CBC. This would ultimately investigate hazardous soil conditions onsite and would provide recommendations as needed to minimize potential soil hazards. Therefore, no new impacts or substantially greater impacts than what was previously analyzed would occur that would require the preparation of a subsequent EIR.

e) Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?

No Impact. As with the Approved Project, the Proposed Development Project does not require the use of septic tanks or alternative wastewater disposal systems. The Proposed Development Project would use City sewer lines and wastewater disposal systems. No impact would occur.

f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

No Impact. As with the Approved Project, the Project Site, located immediately west of the Approved Project site, has been previously disturbed and developed and has been subject to similar construction and ground-disturbing activities that would be associated with the Proposed Development Project. Therefore, as with the Approved Project, it is not anticipated that implementation of the Proposed Development Project would result in the uncovering of paleontological resources. Additionally, as with the Approved Project, the Project Site is not recognized as an area having the potential for subsurface paleontological resources. No impact would occur.

5.7.3 Adopted Mitigation Measures Applicable to the Proposed Project

No mitigation measures related to geology and soils were outlined in the Certified EIR.

5.7.4 Level of Significance After Mitigation

No mitigation measures are required for the Proposed Project.

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5.8 GREENHOUSE GAS EMISSIONS

5.8.1 Summary of Impacts Identified in the Certified EIR

The Certified EIR determined that development of the proposed land uses within the Approved Project site would result in a substantial increase of GHG emissions that would exceed the South Coast Air Quality Management District’s proposed efficiency target of 4.8 MTCO_{2e}. The Certified EIR also concluded that the Approved Project would not conflict with plans adopted for the purpose of reducing GHG emissions. The Approved Project was found to include policies and actions to increase bike and pedestrian pathways and to create better connected alternative transportation and active transit systems. Mitigation Measures AQ-4 through AQ-6 would encourage and accommodate use of alternative-fueled vehicles and nonmotorized transportation and ensure that GHG emissions from the buildout of the Approved Project would be minimized. However, additional statewide measures would be necessary to reduce GHG emissions under the Approved Project to meet the long-term GHG reduction goals under Executive Order S-3-05, which identified a goal to reduce GHG emissions to 80 percent below 1990 levels by 2050, and Executive Order B-30-15, which identified a goal to reduce GHG emissions to 40 percent below 1990 levels by 2030. The new Executive Order B-30-15 requires CARB to prepare another update to the Scoping Plan to address the 2030 target for the state. At this time, there is no plan past 2020 that achieves the long-term GHG reduction goal established under Executive Order S-3-05 or the new Executive Order B-30-15. As identified by the California Council on Science and Technology, the state cannot meet the 2050 goal without major advancements in technology (CCST 2012). The Certified EIR concluded that with the incorporation of mitigation and state regulations, impacts would be less than significant.

5.8.2 Impacts Associated with the Proposed Project

Would the project:

Environmental Issues	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	No Impact
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?				X	
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?				X	

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Comments:

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

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. The development project consisting of 138 dwelling units, 25,000 square feet of commercial, and 25,398 square feet of open space is within the quantity analyzed under the Approved Project. As such, the Proposed Project would not increase the development assumptions analyzed for the Approved Project and no increase in square footage, population, or vehicle trips would result in an increase in GHG emissions compared to the Approved Project. As with the Approved Project, the Proposed Project would increase development beyond what currently exists on the Project Site and would be required to comply with all state regulations and mitigations as identified in the State Certified EIR. Mitigation Measures AQ-4 through AQ-6 would be required under the Proposed Project as well. As shown in Table 8, the Proposed Project, would not exceed SCAQMD thresholds for net operational phase emissions and would result in a less than significant impact. Therefore, no new impacts or substantially greater impacts than what was previously analyzed would occur that would require the preparation of a subsequent EIR.

Table 8 Net Operational Phase GHG Emissions

Source	GHG Emissions
	MTCO ₂ e Per Year ¹
Existing Uses	
Area	<1
Energy ¹	89
Mobile ²	595
Solid Waste	24
Water	4
Total All Sectors	712
Proposed Use	
Area	2
Energy ³	531
Mobile ⁴	2,519
Solid Waste	109
Water	52
Construction-Amortized ⁵	16
Total All Sectors	3,229
Net Change	2,517
Proposed SCAQMD Bright-Line Threshold	3,000 MTCO ₂ e
Exceeds Threshold?	No

Source: California Emissions Estimator Model, Version 2016.3.2.

Notes: Totals may not equal 100 percent due to rounding.

¹ Based on CalEEMod historical energy rates as buildings are assumed to be built to meet the 2005 Building Energy Efficiency Standards.

² Based on calendar year 2020 aggregated emission rates derived EMFAC2017 Version 1.0.2 and CalEEMod methodology.

³ Buildings constructed after January 1, 2020 are required to meet the 2019 Building Energy Efficiency Standards. Multifamily residential buildings of four stories or more are 30 percent more energy efficient under the 2019 Building Energy Efficiency Standards compared to the 2016 Building Energy Efficiency Standards.. Modeling also includes applicable water efficiency improvements required under CALGreen.

⁴ Based on calendar year 2023 aggregated emission rates derived EMFAC2017 Version 1.0.2 and CalEEMod methodology.

⁵ Construction emissions are amortized over a 30-year project lifetime per recommended South Coast AQMD methodology (South Coast AQMD 2009).

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

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR.

The development project which consists of 138 dwelling units, 25,000 square feet of commercial, and 25,398 square feet of open space are within the quantity analyzed under the Approved Project. As such, the Proposed Development Project would not increase the development assumptions analyzed for the Approved Project and no increase in square footage, population, or vehicle trips would result in an increase in GHG emissions compared to the Approved Project. Additionally, as with the Approved Project, the Proposed Development Project would increase development beyond what currently exists on the Project Site and would be required to comply with all state regulations and mitigations as identified in the State Certified EIR. For state regulations this includes AB 32, Executive Order S-3-05, AB 1493, Title 24 California Code of Regulations, Title 20 California Code of Regulations, Title 17 California Code of Regulations, AB 1881, SB 1368, and SB 1078. Therefore, no new impacts or substantially greater impacts than what was previously analyzed would occur that would require the preparation of a subsequent EIR.

5.8.3 Adopted Mitigation Measures Applicable to the Proposed Project

Stationary Source

AQ-4 Prior to issuance of a building permit for new development projects within the Midtown Specific Plan area, the property owner/developer shall show on the building plans that all major appliances (dishwashers, refrigerators, clothes washers, and dryers) to be provided/installed are Energy Star appliances. Installation of Energy Star appliances shall be verified by the City of Long Building and Safety Bureau prior to issuance of a certificate of occupancy.

Transportation and Motor Vehicles

AQ-5 Prior to issuance of building permits for residential development projects within the Midtown Specific Plan area, the property owner/developer shall indicate on the building plans that the following features have been incorporated into the design of the building(s). Proper installation of these features shall be verified by the City of Long Beach Building and Safety Bureau prior to issuance of a certificate of occupancy.

- For multifamily dwellings, electric vehicle charging shall be provided as specified in Section A4.106.8.2 (Residential Voluntary Measures) of the CALGreen Code.
- Bicycle parking shall be provided as specified in Section A4.106.9 (Residential Voluntary Measures) of the CALGreen Code.

AQ-6 Prior to issuance of building permits for non-residential development projects within the Midtown Specific Plan area, the property owner/developer shall indicate on the building plans that the following features have been incorporated into the design of the building(s). Proper

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installation of these features shall be verified by the City of Long Beach Building and Safety Bureau prior to issuance of a certificate of occupancy.

- For buildings with more than ten tenant-occupants, changing/shower facilities shall be provided as specified in Section A5.106.4.3 (Nonresidential Voluntary Measures) of the CALGreen Code.
- Preferential parking for low-emitting, fuel-efficient, and carpool/van vehicles shall be provided as specified in Section A5.106.5.1 (Nonresidential Voluntary Measures) of the CALGreen Code.
- Facilities shall be installed to support future electric vehicle charging at each non-residential building with 30 or more parking spaces. Installation shall be consistent with Section A5.106.5.3 (Nonresidential Voluntary Measures) of the CALGreen Code.

5.8.4 Level of Significance After Mitigation

As with the Approved Project, all impacts would be reduced to the greatest extent feasible with incorporation of mitigation, however, as identified in the Certified EIR, because no additional statewide measures are available to further reduce GHG emissions to meet long-term GHG reduction goals under Executive Order S-3-05, this impact would remain significant and unavoidable even with mitigation.

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5.9 HAZARDS AND HAZARDOUS MATERIALS

5.9.1 Summary of Impacts Identified in the Certified EIR

The Initial Study scoped out a number of topics with regard to hazards and hazardous materials. For the Approved Project, the Initial Study found that for project operation and construction, the use, storage, transport, and disposal of construction-related hazardous materials and waste would be required to conform to existing laws and regulations to ensure that all potentially hazardous materials are used and handled in an appropriate manner and would minimize the potential for safety impacts to occur. Additionally, the strict adherence to all emergency response plan requirements set forth by the City of Long Beach and Lbfd would be required through the duration of project construction. Impacts were found to be less than significant. The Initial Study also concluded that the Approved Project would not result in hazards related to aircraft operating to and from Long Beach Municipal Airport as the Approved Project site is not within the Long Beach Municipal Airport's land use plan and is outside of the areas where land uses are regulated. Additionally, there are no private air strips adjacent to or within the vicinity of the Approved Project site. It was determined that development of the Approved Project would not cause any hazards related to aircraft operating to or from private airstrips or heliports. The Initial Study determined that although development of the Approved Project would result in temporary lane closures or rerouting of vehicular traffic, which would include emergency response vehicles, implementation of the Approved Project would not conflict with the City of Long Beach or Los Angeles County's emergency response or evacuation plans. The Initial Study clarified that future development under the Approved Project would be required to go through the City's development review and permitting process and would be required to incorporate all applicable design and safety standards and regulations as set forth by Lbfd and in the Chapter 18.48 (Fire Code) of the City's Municipal Code. Lastly, the Initial Study concluded that as the Approved Project site is located in a highly urbanized area that is a built out portion of the City, and is outside of fire hazard severity zones designated by the California Department of Forestry and Fire Protection, future development would not pose wildfire-related hazards for people or structures.

The Certified EIR found that construction and operational phases of future development projects that would be accommodated by the Approved Project would not create substantial hazards through accidental release of hazardous materials, nor emit hazardous emissions or handle hazardous materials within one-quarter mile of a school site. The Certified EIR determined that because there were numerous sites within and in proximity of the Approved Project area that have been listed in a hazardous materials database, development of the Approved Project had potential for impacts with regard to hazardous substance contamination. However, it was determined that with compliance of all applicable laws and regulations and implementation of Mitigation Measure HAZ-1 and HAZ-2, impacts related to hazardous materials site listing would not be significant. Compliance with laws, regulations, and mitigation measures would be ensured through the City's development review and building plan check process. The Certified EIR also found that a large portion of the Project Site was located under imaginary surfaces pursuant to Federal Aviation Administration (FAA) Part 77 Regulations regulating obstructions into navigable airspace surrounding Long Beach Airport. Ground elevations under the imaginary surfaces that cover the Approved Project area range from about 20 feet on Long Beach Boulevard just south of Willow Street to 114 feet at Atlantic Avenue and 31st Street. The highest elevations within the

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Approved Project area, which occur near Atlantic Avenue and Spring Street, lie within the proposed Medical District portion of the Midtown Specific Plan. Ultimately the Certified EIR concluded that implementation of the Approved Project was below the set elevation of 210.4 feet amsl and would not create a hazard to air navigation.

5.9.2 Impacts Associated with the Proposed Project

Would the project:

Environmental Issues	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	No Impact
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?				X	
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 § 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?					X

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Environmental Issues	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	No Impact
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?					X

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

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR.

As with the Approved Project, operation of the Proposed Development Project would involve the use of small quantities of hazardous materials for cleaning and maintenance purposes. Additionally, the Proposed Development Project would be required to adhere to existing regulations of several federal agencies for the use, storage, transport, and disposal of hazardous materials by future residents and commercial tenants. This includes the California Department of Toxic Substances Control, US Environmental Protection Agency, California Division of Occupational Safety and Health, California Department of Transportation, County of Los Angeles Department of Environmental Health, California Department of Transportation, County of Los Angeles Department of Environmental Health, and Long Beach Fire Department. The Proposed Development Project would entail the same uses as evaluated under the Approved Project and therefore, no new impacts or substantially greater impacts than what was previously analyzed would occur that would require the preparation of a subsequent EIR.

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?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR.

As with the Approved Project, implementation of the Proposed Development Project, would not permit the development of industrial uses or other land uses involving the storage, use, transport, and disposal of large amounts of hazardous waste. No manufacturing, industrial, or other uses using large amount of hazardous materials are permitted under the Proposed Development Project. As with the Approved Project, operation of the Proposed Development Project would involve the use of small quantities of hazardous materials for cleaning and maintenance purposes. Additionally, the Proposed Development Project would be required to adhere to existing regulations, and mitigation identified in the Certified EIR (HAZ-1 and HAZ-2), compliance with such laws, regulations, and mitigation measures would be ensured through the City's development review

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and building plan check process. No new impacts or substantially greater impacts than what was previously analyzed would occur that would require the preparation of a subsequent EIR.

- c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?**

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR.

See response (b) above. Additionally, the four schools identified as within one-quarter mile of the Approved Project Site, including Long Beach Polytechnic High School, Roosevelt Elementary, Burnett Elementary, and Holy Innocents Parish, are all outside of a quarter mile of the Proposed Project Site. Therefore, no new impacts or substantially greater impacts than what was previously analyzed would occur that would require the preparation of a subsequent EIR.

- d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code § 65962.5 and, as a result, would it create a significant hazard to the public or the environment?**

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR.

As with the Approved Project, implementation of the Proposed Development Project, located immediately west of the Approved Project site, would be required to comply with existing laws and regulations, including compliance with CERCLA, RCRA, California Code of Regulations, Title 22, and related requirements. As the Proposed Development Project is located adjacent to the Approved Project and the Certified EIR studied listings within the Approved Project area and within a one-mile radius of the Approved Project area, the Proposed Project Site was captured in the original analysis and no new impacts or substantially greater impacts than what was previously analyzed would occur that would require the preparation of a subsequent EIR.

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

No Impact. As with the Approved Project, the Proposed Project Site, located immediately west of the Approved Project site, remains outside of an airport land use plan and no private air strips adjacent to or within the vicinity of the Proposed Project Site exist. As the Proposed Development Project is located immediately adjacent to the Approved Project, which evaluated land within and in the vicinity of the Approved Project site, no new impacts or substantially greater impacts than what was previously analyzed would occur that would require the preparation of a subsequent EIR.

- f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?**

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR.

The Proposed Development Project would entail the same physical improvements to Long Beach Boulevard as was studied under the Approved Project which would result in temporary lane closures or rerouting of

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vehicular traffic. As with the Approved Project, the Proposed Development Project would not decrease the number of travel lanes along Long Beach Boulevard, nor alter its functionality. The Approved Project evaluated land within and around the Approved Project site. The Proposed Project Site, which is located immediately adjacent to the Approved Project site, would ensure that continued access to the Proposed Project Site and surrounding areas by emergency vehicles would continue. As the Proposed Development Project includes uses already evaluated under the Approved Project, it would also not interfere with any of the daily operations of the City's Emergency Operation Center, Long Beach Fire Department, or the Long Beach Police Department and would be required to be performed per the City's and LBFD's standards and regulations. Therefore, as with the Approved Project, the Proposed Development Project would not impair implementation of or physically interfere with the City of Long Beach or Los Angeles County's emergency response or evacuation plans. No new impacts, or substantially greater impacts than what was previously analyzed would occur that would require the preparation of a subsequent EIR.

g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?

No Impact. As with the Approved Project, the Proposed Project Site, located immediately west of the Approved Project site, remains in a highly-urbanized, built-out portion of the City and exists outside of fire hazard severity zones designated by the California Department of Forestry and Fire Protection (CAL FIRE). As the Proposed Development Project is located immediately adjacent to the Approved Project and proposes development within the scope of what was evaluated under the Approved Project, no new impacts or substantially greater impacts than what was previously analyzed would occur that would require the preparation of a subsequent EIR.

5.9.3 Adopted Mitigation Measures Applicable to the Proposed Project

HAZ-1 Prior to the issuance of demolition permits for any buildings or structures that would be demolished in conjunction with individual development projects that would be accommodated by the Midtown Specific Plan, the project applicant/developer shall conduct the following inspections and assessments for all buildings and structures onsite and shall provide the City of Long Beach Development Services Department with a copy of the report of each investigation or assessment.

- The project applicant shall retain a California Certified Asbestos Consultant (CAC) to perform abatement project planning, monitoring (including air monitoring), oversight, and reporting of all asbestos-containing materials (ACM) encountered. The abatement, containment, and disposal of all ACM shall be conducted in accordance with the South Coast Air Quality Management District's Rule 1403 and California Code of Regulation Title 8, Section 1529 (Asbestos).
- The project applicant shall retain a licensed or certified lead inspector/assessor to conduct the abatement, containment, and disposal of all lead waste encountered. The contracted lead inspector/assessor shall be certified by the California Department of Public Health

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(CDPH). All lead abatement shall be performed by a CDPH-certified lead supervisor or a CDPH-certified worker under the direct supervision of a lead supervisor certified by CDPH. The abatement, containment, and disposal of all lead waste encountered shall be conducted in accordance with the US Occupational Safety and Health Administration Rule 29, CFR Part 1926, and California Code of Regulation, Title 8, Section 1532.1 (Lead).

- Evidence of the contracted professionals attained by the project applicant shall be provided to the City of Long Beach Development Services Department. Additionally, contractors performing ACM and lead waste removal shall provide evidence of abatement activities to the City of Long Beach Building and Safety Bureau.

HAZ-2 Prior to the issuance of grading permits for individual development projects that would be accommodated by the Midtown Specific Plan, the project applicant/developer shall submit a Phase I Environmental Site Assessment (ESA) to the City of Long Beach Development Services to identify environmental conditions of the development site and determine whether contamination is present. The Phase I ESA shall be prepared by a Registered Professional Engineer and in accordance with the American Society for Testing and Materials (ASTM) Standard E 1527.05, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. If recognized environmental conditions related to soils are identified in the Phase I ESA, the project applicant shall perform soil sampling as a part of a Phase II ESA. If contamination is found at significant levels, the project applicant shall remediate all contaminated soils in accordance with state and local agency requirements (California Department of Toxic Substances Control, Regional Water Quality Control Board, Long Beach Fire Department, etc.). All contaminated soils and/or material encountered shall be disposed of at a regulated site and in accordance with applicable laws and regulations prior to the completion of grading. Prior to the issuance of building permits, a report documenting the completion, results, and any follow-up remediation on the recommendations, if any, shall be provided to the City of Long Beach Development Services Department evidencing that all site remediation activities have been completed.

5.9.4 Level of Significance After Mitigation

Compliance with regulatory requirements and implementation of mitigation measures identified above would reduce potential impacts associated with hazards and hazardous materials to a less than significant level. Therefore, no significant unavoidable adverse impacts relating hazards have been identified.

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5.10 HYDROLOGY AND WATER QUALITY

5.10.1 Summary of Impacts Identified in the Certified EIR

The Initial Study for the Approved Project determined that portions of the Approved Project site between Anaheim Street and Wardlow Road were mapped in Zone X in the Flood Insurance Rate Maps prepared by the Federal Emergency Management Agency (FEMA). This is not classified as a 100-year flood hazard area and therefore would not result in a significant impact. The Initial Study also concluded that the Approved Project would not result in impacts with regard to seiche zones or tsunamis as there are no water storage facilities or bodies of water on or near the Approved Project site that could pose a flood hazard to the site due to a seiche or failure of an aboveground reservoir. Additionally, the possibility of the Approved Project site being affected by a tsunami was found to be negligible as the Approved Project site is approximately two miles inland from the Pacific Ocean.

The Certified EIR determined that due to the largely developed state of the Approved Project site, that implementation of the Approved Project would have a minimal effect on suable groundwater reserves. Additionally, it was confirmed that the City of Long Beach forecasts that it would have adequate water supplies to meet water demands through the 2015-2035 period without exceeding its water rights to Central Subbasin groundwater. The Certified EIR also found that development pursuant to the Approved Project would not substantially alter the existing drainage pattern of the Approved Project site or the surrounding area in a manner that would result in substantial erosion or siltation on- or offsite. It was concluded that development pursuant to the Approved Project would increase the amount of impervious surfaces on the Approved Project Site and would therefore increase surface water flows into drainage systems within the watershed, however, existing City and LACFCD storm drain systems serving the Approved Project site were not anticipated to change as a result of the Approved Project. Additionally, through incorporation of mitigation (HYD-1 through HYD-4) in addition to the incorporation of site design, LID features and BMPs as required by the City's SUSMP/LID design requirements, it was determined that the individual development project accommodated by the Approved Project would effectively retain or treat the 85th percentile 24-hour storm water runoff.

The Certified EIR also determined that during the construction phase of development pursuant to the Approved Project, the potential for short-term unquantifiable increases in pollutant concentrations from construction activities of the development projects would exist. Upon the completion of individual development projects that would be accommodated by the Approved Project, the quality of storm runoff (sediment, nutrients, metals, pesticides, pathogens, and hydrocarbons) may be altered. However, with the incorporation of site design, LID features and BMPs as required under the City's SUSMP/LID design requirements, the individual development projects that would be accommodated by the Midtown Specific Plan would effectively retain or treat the 85th percentile 24-hour storm water runoff for pollutants such as bacteria, metals, nutrients, oil and grease, organics, pesticides, sediment, trash, and oxygen demanding substances prior to discharge offsite. Therefore, long-term surface water quality of runoff from the Midtown Specific Plan area would be expected to improve over existing conditions as more LID BMPs are implemented throughout the Midtown Specific Plan area, resulting in an overall benefit to the Approved Project site and less than significant impacts.

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5.10.2 Impacts Associated with the Proposed Project

Would the project:

Environmental Issues	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	No Impact
a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality?				X	
b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?				X	
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:					
i) result in substantial erosion or siltation on- or off-site;				X	
ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site;				X	
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?				X	

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- a) **Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality?**

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR.

The Certified EIR determined that construction and operation of the Approved Project may cause deterioration of water quality of downstream receiving waters if construction- and operation-related sediment or pollutants wash into the storm drain system and facilities. The Approved Project was required to prepare a SWPPP and NPDES permit. Construction and operation of the Proposed Development Project would comply with the SWPPP and NPDES permit for the Approved Project in addition to the LID features and BMPs as required under the City's SUSMP/LID design requirements. As such, the Proposed Development Project would not create a new significant impact or a substantial increase in the severity of previously identified effects and would not require the preparation of a subsequent EIR.

- b) **Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?**

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR.

As with the Approved Project, the Proposed Development Project, located immediately west of the Approved Project site, is located in a largely developed area of the City and is surrounded by urban uses. Groundwater remains irrelevant to the Proposed Project Site, as with the Approved Project as infiltration would not be used and because the Proposed Project Site is not in or near any groundwater recharge basin. Additionally, as the uses proposed under the Proposed Development Project are within the scope of what was analyzed under the Approved Project, the original forecast by the City of Long Beach with regard to having adequate water supplies to meet water demands through the 2015-2035 period without exceeding its water right to Central Subbasin groundwater remains applicable. As such, the Proposed Development Project would not create a new significant impact or a substantial increase in the severity of previously identified effects and would not require the preparation of a subsequent EIR.

- 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:**

- i) **result in a substantial erosion or siltation on- or off-site;**

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR.

Construction and operation of the Proposed Development Project would comply with the SWPPP and NPDES permit in addition to the LID features and BMPs related to erosion control as required under the City's SUSMP/LID design requirements. This would reduce, prevent, or minimize soil erosion and siltation from project-related grading and construction activities. Therefore, the Proposed Development

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Project would not conflict with or obstruct the implementation of a water quality control plan and would not impact groundwater. A less than significant impact would occur.

ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site;

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. Construction and operation of the Proposed Development Project would be subject to the same drainage improvements specified for the Approved Project which are outlined in Mitigation Measures HYD-1 through HYD-4. The Proposed Development Project would also be required to comply with the City's SUSMP/LID design requirements. As the Proposed Development Project includes land uses that were within the scope of what was analyzed for the Approved Project and would comply with the same provisions outlined in the Approved Project, no new significant impact or a substantial increase in the severity of previously identified effects would occur with regard to surface runoff that would require the preparation of a subsequent EIR.

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

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. Construction and operation of the Proposed Development Project would be subject to the same drainage improvements specified for the Approved Project which are outlined in Mitigation Measures HYD-1 through HYD-4. The Proposed Development Project would also be required to comply with the City's SUSMP/LID design requirements. As the Proposed Development Project includes land uses that were within the scope of what was analyzed for the Approved Project and would comply with the same provisions outlined in the Approved Project, no new significant impact or a substantial increase in the severity of previously identified effects would occur with regard to contribution of runoff water in excess of existing or planned stormwater drainage capacity that would require the preparation of a subsequent EIR.

iv) impede or redirect flood flows?

No Impact. As with the Approved Project, the Proposed Development Project, located immediately west of the Approved Project site is located in an area with moderate flood hazard, but not within a 100-year flood hazard area. The Project Site does not contain any bodies of water that could pose a flood hazard and exists two miles inland from the Pacific Ocean. No impact would occur.

d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?

No Impact. As with the Approved Project, the Proposed Development Project does not contain water storage facilities or bodies of water on or near the Project Site that could pose a flood hazard to the site due to a seiche. Additionally, the Project Site, located immediately adjacent to the Approved Project exists approximately two

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miles inland from the Pacific Ocean and is outside of the Tsunami Hazard Zone as identified by the California Emergency Management Agency. No impact would occur.

e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR.

Construction and operation of the Proposed Development Project would comply with the SWPPP and NPDES permit in addition to the LID features and BMPs as required under the City's SUSMP/LID design requirements. Further, the Proposed Development Project would comply with Mitigation Measures HYD-1 through HYD-4. Therefore, the Proposed Development Project would not conflict with or obstruct the implementation of a water quality control plan and would not impact groundwater. A less than significant impact would occur.

5.10.3 Adopted Mitigation Measures Applicable to the Proposed Project

HYD-1 Prior to the issuance of grading or building permits for any development or redevelopment projects pursuant to the Midtown Specific Plan, the City of Long Beach shall ensure that the following drainage improvements are fully funded for and implemented:

- Any development or redevelopment project that would impact existing storm drain facilities within the Midtown Specific Plan area (public and private) that is less than 24-inches in size shall fully fund upsizing of such facilities to a minimum 24-inch pipe size or greater dependent upon the location and size of the development or redevelopment project. The increase in pipe size will serve to reduce localized flooding.
- Any development or redevelopment project that would impact the two segments of City of Long Beach's storm drains in Willow Street for which improvements were recommended by the 2005 Master Plan of Drainage Update shall fully fund upsizing of those storm drain segments to 36 inches or other final size as prescribed by City of Long Beach Public Works Department.

HYD-2 Prior to the issuance of grading or building permits for any development or redevelopment projects pursuant to the Midtown Specific Plan, project applicants/developers of such projects shall prepare a site-specific hydrology and hydraulic study of the onsite and immediate offsite storm drain systems to determine capacity and integrity of the existing systems. The hydrology and hydraulic study shall be submitted to City of Long Beach Public Works Department for review and approval.

HYD-3 The project applicant/developer of each development or redevelopment project that would be accommodated by the Midtown Specific Plan shall request the "allowable discharge rate" – which limits peak flow discharges as compared to existing conditions based on regional flood control constraints – from the Los Angeles County Department of Public Works, and shall comply with such discharge rate. Compliance with the "allowable discharge rate" shall be

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demonstrated in the hydrology and hydraulic study to be completed pursuant to Mitigation Measure HYD-2.

HYD-4 The project applicant/developer, architect, and construction contractor for each development or redevelopment project that would be accommodated by the Midtown Specific Plan shall incorporate low-impact development (LID) best management practices (BMPs) within the respective project, providing for water quality treatment and runoff reduction and/or detention in accordance with local stormwater permit requirements.

5.10.4 Level of Significance After Mitigation

Compliance with regulatory requirements and implementation of mitigation measures identified above would reduce potential impacts associated with hydrology and water quality to a less than significant level. Therefore, no significant unavoidable adverse impacts relating hydrology and water quality have been identified.

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5.11 LAND USE AND PLANNING

5.11.1 Summary of Impacts Identified in the Certified EIR

The Initial Study for the Approved Project concluded that there would be no impacts with regard to physically dividing an established community. It was determined that the intent of the Approved Project was to revitalize the area and create a unique sense of place, ultimately by creating a unifying streetscape, integrating a multi-modal circulation network, and encouraging strategic development opportunities along the corridor. Additionally, the Approved Project would not introduce roadways or other infrastructure improvements that would bisect or transect the surrounding communities and the proposed residential and commercial uses would be compatible with surrounding land uses. The Initial Study also concluded that the Approved Project would not conflict with the provisions of any adopted habitat conservation plan or natural community conservation plan.

The Certified EIR concluded that the Approved Project would be consistent with the vision, goals and policies of the City's adopted General Plan, including those of the Land Use, Mobility and Housing Elements but would require an amendment to the City's General Plan Land Use and Mobility elements with adoption of the Midtown Specific Plan. It was also determined that implementation of the Approved Project would require an amendment to the City's Zoning Regulations (Title 21 of The City's Municipal Code) and zoning map. More specifically, the City's Zoning Regulations and zoning map would be amended to change the existing Planning Development District 29 (PD-29) boundary to coincide with the boundaries of the Midtown Specific Plan area. Additionally, it was found that the Approved Project would establish the necessary plans, development standard, design guidelines, regulations, infrastructure requirements, financing methods, and implementation programs for subsequent project-related development activities. Implementation of the Approved Project was found to be consistent with the Central Long Beach Design Guidelines, the Long Beach Bicycle Master Plan, and the Willow Station Bike Transit Hub Access Plan. Additionally, the Approved Project was found to be consistent with SCAG's 2012-2035 RTP/SCS goals.

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Impacts Associated with the Proposed Project

Would the project:

Environmental Issues	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	No Impact
a) Physically divide an established community?					X
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?				X	

a) Physically divide an established community?

No Impact. As the Proposed Development Project is within the scope of what was analyzed for the Approved Project, it would not physically divide an established community. The Proposed Development Project would be consistent with the uses, scale and design as was analyzed in the Approved Project and would likewise contribute to a sense of place. No impact would occur.

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?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. The Proposed Project Site would require a zone map change. More specifically, the City's Zoning Regulations and zoning map would be amended to change the Project Site boundary to coincide with the boundaries of the Midtown Specific Plan area. The development uses and scale for the Proposed Development Project, would however, be consistent with what was analyzed for the Approved Project. Therefore, the Proposed Development Project would not create a new significant impact or a substantial increase in the severity of previously identified effects and impacts would remain less than significant.

5.11.2 Adopted Mitigation Measures Applicable to the Proposed Project

LU-1 If the current General Plan Land Used Element update being undertaken by the City of Long Beach, which includes revisions to the land use designations of the current Land Use Map (including the area covered by the Midtown Specific Plan), is not adopted within 12 months after adoption of the Midtown Specific Plan, the City shall initiate a General Plan Amendment to achieve consistency between the General Plan Land Use Element and the Midtown Specific

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Plan. Specifically, the General Plan Amendment shall require an update to the current Land Use Map in order to change the current General Plan land use designations of the Midtown Specific Plan area to allow for uses and densities set forth in the Midtown Specific Plan.

A future General Plan Amendment may also require revisions to tables and exhibits in the Mobility Element pertaining to roadway classifications and closures associated with the Midtown Specific Plan. The specific roadway closures under the Midtown Specific Plan include 25th Street, 23rd Street, 21st Street, and 15th Street east and west of Long Beach Boulevard; Rhea Street east of Long Beach Boulevard; Esther Street east of Long Beach Boulevard; and 14th Street east of Long Beach Boulevard. Roadway amendments will be processed as the time of individual roadway character change projects.

5.11.3 Level of Significance After Mitigation

With implementation of the mitigation measure outlined above, no significant unavoidable adverse impacts relating to land use and planning would result.

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5.12 MINERAL RESOURCES

5.12.1 Summary of Impacts Identified in the Certified EIR

Mineral Resources was scoped out in the Initial Study prepared for the Certified. The Initial Study determined that no active mining operations exist in the City of Long Beach and that the Approved Project area and surrounding area does not contain significant mineral deposits. Further, the Mobility Element of the City of Long Beach General Plan indicated that oil fields are present in and around Long Beach. However, development in accordance with the Approved Project would occur on developed sites and would not expand into mineral resource recovery sites or oil fields. The Initial Study found that no impact would occur to mineral resources.

5.12.2 Impacts Associated with the Proposed Project

Would the project:

Environmental Issues	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	No Impact
a) Result in the loss of availability of a known mineral resource that would be a value to the region and the residents of the state?					X
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

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

No Impact. Similar to the Approved Project, the Project Site is located within an urbanized area within the City of Long Beach. No mining activities exist on site. Similar to the Approved Project, the Project Site is mapped in the San Gabriel Production-Consumption Region by the California Geological Survey, indicating that no significant mineral deposits exist on the Project Site (CGS 2010). Therefore, implementation of the Proposed Project would not cause the loss of availability of mineral resources valuable to the region or state. No impact would occur.

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?

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No Impact. The Mobility Element of the City of Long Beach General Plan indicates that oil fields are present in and around Long Beach. Similar to the Approved Project, the Proposed Development Project is located on a developed site. The Project Site does not contain mineral resource recovery sites nor oil drilling. The Proposed Project would not result in the loss of availability of locally important mineral resource recovery sites. No impact would occur.

5.12.3 Adopted Mitigation Measures Applicable to the Proposed Project

No mitigation measures related to mineral resources were outlined in the Certified EIR.

5.12.1 Level of Significance After Mitigation

No mitigation measures are required for the Proposed Project.

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5.13 NOISE

5.13.1 Summary of Impacts Identified in the Certified EIR

The Initial Study for the Approved Project determined that because there are no private airstrips adjacent to or within the vicinity of the project site, that no impact with regard to exposure of people residing or working in the project site would occur or result in excessive noise levels. Additionally, the Initially Study concluded that the Approved Project site is not located in the Long Beach Airport land use plan's area and therefore would result in less than significant impacts.

The Certified EIR determined that construction activities associated with development projects that would be accommodated by the Approved Project would result in temporary noise increases in the vicinity of the Approved Project site. It also concluded that buildout of the Approved Project would not cause a substantial noise increase related to traffic on local roadways in the City of Long Beach. Noise-sensitive uses would also be exposed to elevated noise levels from transportation sources as a result of buildout of the Approved Project. The Certified EIR found that noise-sensitive uses would not be exposed to elevated noise levels from stationary sources as a result of buildout of the Approved Project. With implementation of Mitigation Measures N-1 through N-5, and compliance with regulatory requirements, most impacts were found to be less than significant. Construction noise was found to remain significant and unavoidable even with implementation of mitigation.

5.13.2 Impacts Associated with the Proposed Project

Would the project result in:

Environmental Issues	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	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?				X	
b) Generation of excessive groundborne vibration or groundborne noise levels?				X	

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Environmental Issues	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	No Impact
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?				X	

- 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?**

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR.

The Proposed Project would not substantially increase construction noise, since the Proposed Development Project would occur within the scope of development as analyzed under Approved Project. The Proposed Project would comply with identified mitigation measures outlined in the Certified EIR. With regards to construction noise, the Proposed Development Project would not create a new significant impact or a substantial increase in the severity of previously identified effects that would require the preparation of a subsequent EIR.

Uses are consistent with what was analyzed in the Approved Project and would still include commercial and residential uses and would therefore not contribute to new types of noise that were not previously identified. The Proposed Development Project would not create a new significant impact or a substantial increase in the severity of previously identified effects that would require the preparation of a subsequent EIR.

The Certified EIR determined that the Approved Project would result in significant and unavoidable impacts with regard to construction but would implement mitigation measures to lessen impacts to the greatest extent feasible. The Proposed Development Project would be required to incorporate Mitigation Measures N-1 and N-5 as identified in the Certified EIR and outlined below. No new impacts or substantially greater impacts than what was previously analyzed would occur that would require the preparation of a subsequent EIR.

- b) **Generation of excessive groundborne vibration or groundborne noise levels?**

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR.

The Certified EIR determined that construction activities associated with development projects that would be accommodated by the Approved may expose sensitive uses to strong levels of groundborne vibration. The

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construction of the Proposed Development Project is within the scope of what was analyzed under the Approved Project. As such, the construction of the Proposed Development Project would not increase vibration due to construction. The Proposed Development Project would be required to incorporate Mitigation Measures N-2 through N-4 to reduce impacts to ensure that impacts would be less than significant. The Proposed Development Project would not create a new significant impact or a substantial increase in the severity of previously identified effects that would require the preparation of a subsequent EIR.

- 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?**

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR.

As with the Approved Project, the Proposed Development Project, located immediately west of the Approved Project site, remains outside of an airport land use plan and no private air strips adjacent to or within the vicinity of the Project Site exist. The Proposed Project is located immediately adjacent to the Approved Project, which evaluated land within and in the vicinity of the Approved Project site, no new impacts or substantially greater impacts than what was previously analyzed would occur that would require the preparation of a subsequent EIR.

5.13.3 Adopted Mitigation Measures Applicable to the Proposed Project

The following mitigation measures have been carried through from the 2016 Midtown Specific Plan EIR (Certified EIR). These mitigation measures have been incorporated into the MMRP for this Addendum. Any modifications to the mitigation measures from the Certified EIR are shown as ~~strike through~~ for deleted text and **bold** for new, inserted text.

- N-1 Prior to issuance of demolition, grading and/or building permits for development projects accommodated by the Midtown Specific Plan, a note shall be provided on development plans ~~indicating~~ **which indicates** that during grading, demolition, and construction, the property owner/developer shall be responsible for requiring contractors to implement the following measures to limit construction-related noise:
- Construction activity is limited to the daytime hours between 7 AM to 7 PM on Monday through Friday and 9 AM to 6PM on Saturday, as prescribed in the City's Municipal Code. Construction is prohibited on Sundays.
 - All internal combustion engines on construction equipment and trucks are fitted with properly maintained mufflers.
 - Stationary equipment such as generators and air compressors shall be located as far as feasible from nearby noise-sensitive uses.
 - Stockpiling is located as far as feasible from nearby noise-sensitive receptors.

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- Construction traffic shall be limited to the haul routes established by the City of Long Beach.

- N-2 Prior to issuance of a building permit for any development project requiring pile driving or blasting during construction, the project applicant/developer shall prepare a noise and vibration analysis to assess and mitigate potential noise and vibration impacts related to these activities. The maximum levels shall not exceed 0.2 inches/second, which is the level that can cause architectural damage for typical residential construction. If maximum levels would exceed these thresholds, alternative uses such static rollers, non-explosive blasting, and drilling piles as opposed to pile driving shall be used.
- N-3 Prior to the issuance of building permits for development projects accommodated by the Midtown Specific Plan, if proposed vibration-sensitive land uses are located within 200 feet of any railroad line, the property owner/developer shall retain an acoustical engineer to conduct an acoustic analysis that includes a vibration analysis for potential impacts from vibration generated by operation of the rail line. Mixed-use buildings shall be designed to eliminate vibration amplifications due to resonances of floors, walls, and ceilings. The detailed acoustical analysis shall be submitted to the City of Long Beach Development Services Department prior to issuance of building permits and shall demonstrate that the vibration levels would be below 65, 72, or 75 VdB, which are the Federal Transit Administration's rail-focused groundborne vibration criteria for Category 1, 2, and 3 land uses, respectively. Category 1 uses are buildings where vibration would interfere with interior operations; Category 2 uses are residences and buildings where people normally sleep; and Category 3 uses are institutional land uses with primarily daytime use.
- N-4 Prior to issuance of a building permit for projects involving the development of new industrial uses within 200 feet of any existing residential use or Development District 3 of the Midtown Specific Plan, the property owner/developer shall retain an acoustical engineer to conduct an acoustic analysis that includes a vibration analysis for potential impacts from vibration generated by industrial activities. The detailed acoustical analysis shall be submitted to the City of Long Beach Development Services Department for review and shall demonstrate that the vibration levels to any nearby residential use would be below 78 VdB during the daytime (7 AM to 10 PM) and 72 VdB during the nighttime (10 PM to 7 AM), which are the Federal Transit Administration's daytime and nighttime criteria to regulate general vibration impacts at affected residential uses.
- N-5 Prior to issuance of a building permit for residential development projects accommodated by the Midtown Specific Plan, the project applicant/developer shall submit a final acoustical report prepared to the satisfaction of the City of Long Beach Development Services Department. The report shall demonstrate that the residential development will be sound-attenuated against present and projected noise levels, including roadway, railway, aircraft, helicopter, and stationary sources (e.g., industrial, commercial, etc.) to meet City interior standards. Specifically, the report shall demonstrate that the proposed residential design will

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result in compliance with the 45 dBA CNEL interior noise levels, as required by the California Building Code and California Noise Insulation Standards (Title 24 and 25 of the California Code of Regulations). The project applicant/developer shall submit the final acoustical report to the City of Long Beach Development Services Department for review and approval. Upon approval by the City, the project's acoustical design features shall be incorporated into construction of the proposed development project.

5.13.4 Level of Significance After Mitigation

As with the Approved Project, all impacts would be reduced to a less than significant level with incorporation of mitigation, however, as identified in the Certified EIR, as construction equipment and usage would be similar to what was identified in the Approved Project, construction noise for both the Approved and Proposed Development Project would remain significant and unavoidable.

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5.14 POPULATION AND HOUSING

5.14.1 Summary of Impacts Identified in the Certified EIR

The Initial Study for the Approved Project found that the Approved Project would not lead to the displacement of a substantial number of existing housing or people as implementation would gradually convert existing vacant land, and auto-related businesses to other land uses including a transit-oriented mixed-use, medical use, and multifamily and single-family residential uses.

The Certified EIR determined that buildout of the Approved Project would result in population, housing, and employment growth in the City of Long Beach. The estimated population growth due to buildout of the Approved Project was found to be within SCAG's forecast population increase for the City of Long Beach of 71,900 by 2035 and represented only 5.8 percent of the forecast population growth by 2035. The Approved Project would accommodate the development of up to 1,736 new residential units within the Approved Project area and would be consistent with the City's and SCAG's goals to provide additional housing opportunities in the City of Long Beach. Employment growth was also found to be well within SCAG's forecast employment increase for the City. No significant impacts related to jobs-housing balance was anticipated from the Approved Project. With the implementation of the California Housing Element Law: Government Code Section 65300, impacts were found to be less than significant.

5.14.2 Impacts Associated with the Proposed Project

Would the project:

Environmental Issues	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	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	

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- 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)?**

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR.

As with the Approved Project, the Proposed Development Project would not displace a substantial number of existing housing or people. The Proposed Development Project would result in the demolition of an existing neighborhood market building and a vacant building to be replaced with a mixed-use residential development. Consistent with the Approved Project, this would ultimately provide more opportunities for housing in the area. Therefore, the Proposed Development Project would not create a new significant impact or a substantial increase in the severity of previously identified effects and impacts would remain less than significant.

- b) **Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?**

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR.

The Midtown Specific Plan area currently contains approximately 1,900 residential units and a little over 2.6 million square feet of commercial and employment uses, as well as medical facilities with over 950 licensed hospital beds and three hotels with approximately 200 hotel rooms. The Midtown Specific Plan 2016 Certified EIR studied the increase of the number of permitted residential units to just over 3,600 units—1,736 units more than existing conditions. As the number of units under the Proposed Development Project (138 dwelling units) is well within the number of units analyzed for the Approved Project (1,736 dwelling units) and does not entail additive units, the Proposed Project would be consistent with the findings found in the Certified EIR. Consistent with the Approved Project, the Proposed Development Project would contribute to population, housing, and employment growth and as it falls within the scope of what was previously analyzed would be consistent with City and SCAG projections and goals. The Proposed Development Project would also help in achieving an expansion of housing opportunities for the City of Long Beach and would comply with California Housing Element Law: Government Code Section 65300 as identified in the Approved Project. Therefore, the Proposed Development Project would not create a new significant impact or a substantial increase in the severity of previously identified effects and impacts would remain less than significant.

5.14.3 Adopted Mitigation Measures Applicable to the Proposed Project

No mitigation measures related to population and housing were outlined in the Certified EIR.

5.14.4 Level of Significance After Mitigation

No mitigation measures are required for the Proposed Project.

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5.15 PUBLIC SERVICES

5.15.1 Summary of Impacts Identified in the Certified EIR

The Certified EIR determined that the Approved Project would introduce new dwelling units, residents, nonresidential uses, and workers into the Long Beach Fire Department and Long Beach Police Department's service boundaries, thereby increasing the demand for fire protection, police protection, and emergency services. However, all development projects that would be accommodated under the Approved Project would be required to comply with the most current adopted fire codes, building codes, and nationally recognized fire and life safety standards of Long Beach, Los Angeles County, and the State of California. For example, development projects would be required to comply with the most current edition (2013) of the CFC, which is incorporated by reference in Chapter 18.48 (Fire Code) of the City's Municipal Code. Compliance with these codes and standards is ensured through the City's and Lbfd's development review and building plan check process. Additionally, as development occurs in accordance with the Approved Project, the City's General Funds would increase proportionally and would allocate additional funds to Lbfd to hire and train additional police officers or administrative personnel. In addition, applicants of individual development projects would be required to pay police facilities impact fees in accordance with Chapter 18.22 (Police Facilities Impact Fees) of the City's Municipal Code, which would contribute to Lbfd's funds to acquire, construct, and furnish new law enforcement facilities and purchase new equipment. The funds collected pursuant to this chapter are utilized for payment of the actual or estimated costs of police facilities, apparatus, and equipment related to new residential and nonresidential construction. Payment of the Police Facilities Impact Fee ensures that individual project applicant's pay their fair share of costs related to police protection services and facilities. Therefore, the Certified EIR concluded that implementation of the Approved Project would not result in substantial adverse impacts related to fire protection, police protection, or emergency services.

The Certified EIR concluded that the Approved Project would result in the generation of 640 additional students, which would impact the school enrollment capacities of LBUSD schools that serve the Project Site, however, it was concluded that LBUSD would have the capacity to serve these additional students. Additionally, the need for additional services would be addressed through compliance with the school impact fee assessment and impact were found to be less than significant.

The Certified EIR studied impacts to parks in its Recreation section. It was determined that implementation of the Approved Project would lead to the generation of an additional 4,195 residents within Long Beach, which would in turn lead to an increase in the use of existing City parks and recreational facilities. However, all new residential development that would be accommodated under the Approved Project would be required to pay the parks and recreation facilities impact fees, which would be placed into the City's park fee account, and used solely and exclusively for the purpose of funding future park land acquisition and recreation improvements. This would gradually increase the City's park funds and allow the City to acquire new parks or improve on existing parks and recreational facilities. Overall, with implementation of the approved Open Space District in the Approved Project site and the required park and recreation facilities impact fees required of all new residential development under the Approved Project, impacts were found to be less than significant.

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Finally, the Certified EIR concluded that the Proposed Project would result in the generation of up to 4,195 additional residents in the Approved Project site, which would lead to an increase in demand for local library services. However, it was determined that with access to all 12 libraries within the LBPL's system in addition to the Main Library proposed as part of the new civic center for the City of Long Beach, that this would be adequate for the Approved Project. Additionally, LBPL would continue to receive funding for library facilities and resources. Impacts were determined to be less than significant.

5.15.2 Impacts Associated with the Proposed Project

Would the project:

Environmental Issues	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	No Impact
a) Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services:					
Fire protection?				X	
Police protection?				X	
Schools?				X	
Parks?				X	
Other public facilities?				X	

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

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Fire protection?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR.

The Midtown Specific Plan area currently contains approximately 1,900 residential units and a little over 2.6 million square feet of commercial and employment uses, as well as medical facilities with over 950 licensed hospital beds and three hotels with approximately 200 hotel rooms. The Midtown Specific Plan 2016 Certified EIR studied the increase of the number of permitted residential units to just over 3,600 units—1,736 units more than existing conditions. As the number of units under the Proposed Development Project (138 dwelling units) is well within the number of units analyzed for the Approved Project (1,736 dwelling units), and does not entail additive units, the Proposed Project would be consistent with the findings found in the Certified EIR. The Proposed Development Project would not increase the demand for fire protection and emergency services more than what was identified under the Approved Project. However, the Proposed Development Project would be required to comply with the most current adopted fire codes, building codes, and nationally recognized fire and life safety standards of Long Beach, Los Angeles County, and the State of California. Therefore, the Proposed Development Project would not create a new significant impact or a substantial increase in the severity of previously identified effects and impacts would remain less than significant.

Police protection?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR.

As the number of units under the Proposed Development Project (138 dwelling units) is well within the number of units analyzed for the Approved Project (1,736 dwelling units), the Proposed Development Project would be consistent with the findings found in the Certified EIR. The Proposed Development Project would not increase the demand for police protection services more than what was identified under the Approved Project. However, the Proposed Development Project would be required to pay police facilities impact fees in accordance with Chapter 18.22 (Police Facilities Impact Fees) of the City's Municipal Code, which would contribute to LBPD's funds to acquire, construct, and furnish new law enforcement facilities and purchase new equipment. Therefore, the Proposed Development Project would not create a new significant impact or a substantial increase in the severity of previously identified effects and impacts would remain less than significant.

Schools?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR.

As the number of units under the Proposed Development Project (138 dwelling units) is well within the number of units analyzed for the Approved Project (1,736 dwelling units), the Proposed Development Project would be consistent with the findings found in the Certified EIR and generation of students would fall within what was previously analyzed. However, as with the Approved Project, the Proposed Development Project would be required to pay SB 50 school impact fees. Payment of school impact fees will ensure that the impact of the Proposed Project on school services are at a less than significant level; the Proposed Project would not result in the need for new or physically altered schools or result in the construction of a new school. Therefore, the Proposed Project would not create a new significant impact or a substantial increase in the severity of previously identified effects and impacts would remain less than significant.

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Parks?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR.

As the number of units under the Proposed Development Project (138 dwelling units) is well within the number of units analyzed for the Approved Project (1,736 dwelling units), the Proposed Project would be consistent with the findings found in the Certified EIR. However, as with the Approved Project, the Proposed Project would be required to pay parks and recreation facilities impact fees. Payment of these fees which would be placed into the City's park fee account would help gradually increase the City's park funds and allow the City to acquire new parks or improve existing parks and recreational facilities. Additionally, as with the Approved Project, the Proposed Project designates open space uses within the Project Site. Therefore, the Proposed Project would not create a new significant impact or a substantial increase in the severity of previously identified effects and impacts would remain less than significant.

Other public facilities?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR.

As indicated in the Certified EIR, the Project Site is served by the Long Beach Public Library System. As with the Approved Project, future residents of the Proposed Development Project would have access to the 12 libraries in the LBPL system in addition to the Main Library which has been proposed as part of the new civic center for the City of Long Beach. As the generation of residents is within what was analyzed for the Approved Project, the Proposed Project is not anticipated to affect library services more than what was already analyzed in the Certified EIR. Additionally, the addition of the Proposed Project, as with the Approved Project would contribute to the library by paying property taxes. Therefore, the Proposed Project would not create a new significant impact or a substantial increase in the severity of previously identified effects and impacts would remain less than significant.

5.15.3 Adopted Mitigation Measures Applicable to the Proposed Project

No mitigation measures related to public services were outlined in the Certified EIR.

5.15.4 Level of Significance After Mitigation

No mitigation measures are required for the Proposed Project.

5. Environmental Analysis

5.16 RECREATION

5.16.1 Summary of Impacts Identified in the Certified EIR

The Certified EIR determined that implementation of the Approved Project would lead to the generation of an additional 4,195 residents within Long Beach, which would in turn lead to an increase in the use of existing City parks and recreational facilities. However, all new residential development that would be accommodated under the Approved Project would be required to pay the parks and recreation facilities impact fees, which would be placed into the City’s park fee account, and used solely and exclusively for the purpose of funding future park land acquisition and recreation improvements. This would gradually increase the City’s park funds and allow the City to acquire new parks or improve on existing parks and recreational facilities. Overall, with implementation of the approved Open Space District in the Approved Project site and the required park and recreation facilities impact fees required of all new residential development under the Approved Project, impacts were found to be less than significant.

Additionally, the Certified EIR determined that project implementation would not result in environmental impacts as a result of new and/or expanded parks and recreational facilities that would be needed to serve future project residents. It was found that development that would be accommodated under the Approved Project would not require the construction of new or expansion of existing City parks and recreational facilities due to use of these parks and facilities by future project residents. As noted above, all new residential development that would be accommodated under the Approved Project would be required to pay the parks and recreation facilities impact fees outlined in Chapter 18.18 (Park and Recreation Facilities Fee) of the City’s Municipal Code, which would be placed into the City’s park fee account, and used solely and exclusively for the purpose of funding future park land acquisition and recreation improvements. Payment of the parks and recreation facilities impact fees would help offset any impacts to existing parks and recreational facilities.

5.16.2 Impacts Associated with the Proposed Project

Environmental Issues	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	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	

5. Environmental Analysis

Environmental Issues	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	No Impact
b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?				X	

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

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR.

As the number of units under the Proposed Development Project (138 dwelling units) is well within the number of units analyzed for the Approved Project (1,736 dwelling units), the Proposed Project would be consistent with the findings found in the Certified EIR. However, as with the Approved Project, the Proposed Project would be required to pay parks and recreation facilities impact fees. Payment of these fees which would be placed into the City's park fee account would help gradually increase the City's park funds and allow the City to acquire new parks or improve existing parks and recreational facilities. Additionally, as with the Approved Project, the Proposed Project designates open space uses within the Project Site. The development of the Proposed Project would not result in the substantial physical deterioration of area parks or recreational facilities. Therefore, the Proposed Project would not create a new significant impact or a substantial increase in the severity of previously identified effects and impacts would remain less than significant.

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

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR.

As the number of units under the Proposed Development Project (138 dwelling units) is well within the number of units analyzed for the Approved Project (1,736 dwelling units), the Proposed Project would be consistent with the findings found in the Certified EIR. However, as with the Approved Project, the Proposed Project would be required to pay parks and recreation facilities impact fees. Payment of these fees which would be placed into the City's park fee account would help gradually increase the City's park funds and allow the City to acquire new parks or improve existing parks and recreational facilities. Additionally, as with the Approved Project, the Proposed Project designates open space uses within the Project Site. The Proposed Project would not require the construction or expansion of recreational facilities. Therefore, the Proposed Project would not create a new significant impact or a substantial increase in the severity of previously identified effects and impacts would remain less than significant.

5. Environmental Analysis

5.16.3 Adopted Mitigation Measures Applicable to the Proposed Project

No mitigation measures related to recreation were outlined in the Certified EIR.

5.16.4 Level of Significance After Mitigation

No mitigation measures are required for the Proposed Project.

5. Environmental Analysis

5.17 TRANSPORTATION

5.17.1 Summary of Impacts Identified in the Certified EIR

The Initial Study for the Approved Project concluded that upon project completion, improvements to Long Beach Boulevard would improve vehicular, pedestrian, and bicycle mobility in the project areas. The Approved Project would also comply with the roadway design standards adopted by the City of Long Beach and Long Beach Fire Department that preclude the construction of any unsafe design features. The Approved Project would also be required to adhere to the City's Standard Engineering Plans and LBFD's design standards. Additionally, future development under the Approved Project would be required to incorporate all applicable design and safety requirements as set forth in the most current fire codes, building codes, and nationally recognized fire and life safety standards of the City and LBFD to ensure that there would be no impact to emergency access. This would also be ensured through the building plan check and development review process and coordination with LBFD and LBPD.

The Certified EIR determined that project-related trip generation would impact levels of service for the existing area roadway system. It concluded that the Approved Project would result in a significant impact at the intersection of Atlantic Avenue and Spring Street under Existing (2014) With Project conditions and at the intersections of Long Beach Boulevard and Spring Street, Pacific Avenue and Willow Street, Atlantic Avenue and Willow Street, Atlantic Avenue and Spring Street, and Atlantic Avenue and 27th Street under the Cumulative Year (2035) With Project conditions. Mitigation would be required to lessen impacts. Additionally, individual development projects that would be accommodated under the Approved Project would be reviewed by the City and would be required to comply with the requirements in effect at the time building permits are issued, including the payment of the transportation improvement fee, per Chapter 18.17 (Transportation Improvement Fee) of the City's Municipal Code. Per Chapter 18.17, a transportation improvement fee is imposed on new development in the City for the purpose of assuring that the transportation level of service goals of the City as set forth in the traffic mitigation program are met with respect to the additional demands placed on the transportation system by traffic generated from such development.

The Certified EIR found that project-related traffic would not result in significant impacts to congestion management plan facilities in the study area. Additionally, it was determined that the Approved Project would comply with adopted policies, plans, and programs for alternative transportation and would ultimately improve transit, bicycle and pedestrian facilities and infrastructure throughout the Approved Project site. The Approved Project was guided by the City's Mobility Element and was consistent with several policies to promote complete streets and alternative transportation modes.

5.17.2 Impacts Associated with the Proposed Project

Would the project:

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Environmental Issues	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	No Impact
a) Conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?				X	
b) Conflict or be inconsistent with CEQA Guidelines § 15064.3, subdivision (b)?				X	
c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?				X	
d) Result in inadequate emergency access?				X	

Traffic Assessment

On June 17, 2020, Fehr & Peers completed a traffic assessment for the Proposed Project. The purpose of the assessment was to present trip generation of the existing and proposed site and to provide an assessment of Vehicle Miles Traveled (VMT), and a site access analysis. This information is included in the discussion below.

SB 743

SB 743, signed by the Governor in 2013, has directed the Office of Planning and Research (OPR) to look at different metrics for identifying transportation impacts under CEQA. The Final OPR Technical Advisory was released in December 2018 and identified vehicle miles of travel (VMT) as the preferred metric moving forward. The Natural Resources Agency completed the rule making process to modify the CEQA guidelines in December of 2018. The CEQA Guidelines identify that, by July of 2020 all lead agencies must use VMT as the new transportation metric for identifying impacts for land use projects.

The City of Long Beach has not yet adopted local guidelines for VMT assessment. However, Draft Traffic Impact Analysis Guidelines were released in June 2020. The assessment assumes that the City will adopt screening criteria consistent with the information in those draft guidelines. However, the assessment should be confirmed once the City's finalized guidelines have been released.

- a) **Conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?**

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR.

Trip generation rates from Trip Generation, 10th Edition (Institute of Transportation Engineers [ITE], 2017)

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were used to estimate the number of trips associated with the Project. The Environmental Protection Agency (EPA), in corporation with Institute of Transportation Engineers (ITE), has developed a methodology to calculate trip generation more accurately for mixed use sites. The methodology developed trip internalization estimates. These internalization estimates are based on a series of factors related to built environment variables including demographics, project specifics, and the projects ability to internally capture trips. This methodology was utilized to better assess the mixed used nature of the development of the Project. The Proposed Project is expected to generate a net increase of 2,554 daily trips. The Approved Project estimated that the final trip generation estimate was a total of 13,754 daily trips. The 2,554 daily trips are well within what was analyzed under the Certified EIR. Additionally, as with the Approved Project, development of the Proposed Project would be reviewed by the City and would be required to comply with the requirements in effect at the time building permits are issued, including the payment of the transportation improvement fee, per Chapter 18.17 (Transportation Improvement Fee) of the City's Municipal Code. Therefore, the Proposed Project would not create a new significant impact or a substantial increase in the severity of previously identified effects and impacts would remain less than significant.

b) Conflict or be inconsistent with CEQA Guidelines § 15064.3, subdivision (b)?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR.

Since the Proposed Project is a mixed-use project, the draft City guidelines indicate the land uses should be evaluated separately, or predominant land use should be used to evaluate the potential VMT impacts of the Project. For the purposes of this evaluation the land uses were evaluated separately. The draft City guidelines includes a list of screening criteria that screen projects from project-level assessment under the presumption that those projects will result in a less-than-significant impact. The following is from the draft City guidelines regarding residential project screening:

“The OPR Technical Advisory on Evaluating Transportation Impacts in CEQA states that residential and office projects that have similar density, mix of uses, and transit accessibility as surrounding similar uses will likely have similar VMT generation as those uses. Therefore, maps showing VMT-efficient areas can be used to screen residential and office projects from further analysis. Figure 2 presents a map of VMT per capita for all existing Long Beach residential areas. These data were obtained from the 2016 Southern California Association of Governments (SCAG) Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) travel demand model... In these green areas, projects with similar characteristics to the surrounding development would be presumed to have a less than significant transportation impact.”

The Project is located in a “green” area for VMT per capita, which indicate that the apartments would be eligible for screening in a VMT efficient area as projects in those areas are assumed to generate VMT per capita more than 15% below the regional average.

The following is from the City guidelines regarding retail project screening:

“Retail development that is 50,000 square feet (sf) or less is likely to be local-serving and tends to shorten trips within Long Beach. Therefore, any retail project 50,000 sf or less will be presumed

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to have a less than significant transportation impact related to CEQA Guidelines Section 15064.3, subdivision (b).”

The grocery store and cafe would qualify as local-serving retail under 50,000 square feet.

Projects located within a Transit Priority Area (TPA) may also be screened from a full VMT assessment. A TPA is defined as a half mile area around an existing major transit stop or an existing stop along a high-quality transit corridor per the definitions below. The project site is located within a half mile of a high-quality transit corridor and within a half mile of a major transit stop. There is an existing bus stop on the Project frontage. Torrance Transit Route 3 (12-minute headways) stops at this bus stop and along Pacific Coast Highway, making this a high-quality transit corridor. Furthermore, approximately 1/3 mile from the project site is the Pacific Coast Highway stop for the Metro A Line light rail service. Given that the retail land use is local-serving retail under 50,000 square feet, the location of the project is within identified VMT-efficient areas for VMT per population, and the project is located in a TPA, this project should be screened from a full VMT assessment under the presumption that it will result in a less than significant impact. As noted above, this conclusion should be confirmed once the City of Long Beach has finalized their screening criteria and guidance.

c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR.

As with the Approved Project, the Proposed Project would comply with the roadway design standards adopted by the City of Long Beach and Long Beach Fire Department that preclude the construction of any unsafe design features. The Proposed Project would also be required to adhere to the City’s Standard Engineering Plans and LBFD’s design standards. Additionally, the Proposed Project does not include any geometric design feature that would increase hazards or be considered incompatible. Therefore, the Proposed Project would not create a new significant impact or a substantial increase in the severity of previously identified effects and impacts would remain less than significant.

d) Result in inadequate emergency access?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR.

The Proposed Project would entail the same physical improvements to Long Beach Boulevard as was studied under the Approved Project which would result in temporary lane closures or rerouting of vehicular traffic. As with the Approved Project, the Proposed Project would not decrease the number of travel lanes along Long Beach Boulevard, nor alter its functionality. The Approved Project evaluated land within and around the Approved Project site. The Proposed Project, located immediately adjacent to the Approved Project site, would ensure that continued access to the Project Site and surrounding areas by emergency vehicles would continue. As the Proposed Project includes uses already evaluated under the Approved Project, it would also not interfere with any of the daily operations of the City’s Emergency Operation Center, Long Beach Fire Department, or the Long Beach Police Department and would be required to be performed per the City’s and LBFD’s standards and regulations. Therefore, as with the Approved Project, the Proposed Project would not impair emergency

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access to the Project Site. No new impacts, or substantially greater impacts than what was previously analyzed would occur that would require the preparation of a subsequent EIR.

5.17.3 Adopted Mitigation Measures Applicable to the Proposed Project

TRAF-1 As part of the subsequent environmental review for development projects that would be accommodated by the Midtown Specific Plan, a site-specific traffic study shall be prepared by the project applicant/developer to evaluate the project's potential traffic and transportation impacts and to identify specific improvements, as deemed necessary, to provide safe and efficient onsite circulation and access to the Midtown Specific Plan area.

TRAF -2 Prior to issuance of occupancy permits for development projects that would be accommodated by the Midtown Specific Plan, project applicants/developers shall make fair-share payments to the City of Long Beach toward construction of the traffic improvements listed below. The following traffic improvements and facilities are necessary to mitigate impacts of the Midtown Specific Plan and shall be included in the fee mechanism(s) to be determined by the City of Long Beach:

Existing (2014) With Project Improvements

- **Atlantic Avenue and Spring Street:** Improve the northbound approach by modifying the shared through-right lane to an exclusive through lane and an addition of an exclusive right-turn lane. The intersection is currently built out to capacity and would require right-of-way acquisition by the City of Long Beach.

Cumulative Year (2035) With Project Improvements

- **Long Beach Boulevard and Spring Street:** Improve the northbound approach by modifying the shared through-right lane to an exclusive through lane and an addition of an exclusive right-turn lane. Given the 74-foot cross section of Long Beach Boulevard, this improvement could be completed with restriping of the approach.
- **Pacific Avenue and Willow Street:** Improve the northbound approach by modifying the shared through-right lane to an exclusive through lane and an addition of an exclusive right-turn lane. Given the 74-foot cross section of Long Beach Boulevard, this improvement could be completed with restriping of the approach.
- **Atlantic Avenue and Willow Street:** Improve the northbound approach by modifying the shared through-right lane to an exclusive through lane and an addition of an exclusive right-turn lane. Given the 50-foot cross section of Atlantic Avenue, this improvement could be completed with restriping of the approach.

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- **Atlantic Avenue and Spring Street:** Improve the southbound approach by modifying the shared through-right lane to an exclusive through lane and an addition of an exclusive right-turn lane. Implementation of this improvement also requires improving the southbound approach by modifying the shared through-right lane to an exclusive through lane and an addition of an exclusive right-turn lane. The intersection is currently built out to capacity and would require right-of-way acquisition by the City of Long Beach.
- **Atlantic Avenue and 27th Street:** Construct a traffic signal at the intersection.

5.17.4 Level of Significance After Mitigation

Mitigation Measures TRAF-1 and TRAF-2 identified above would reduce potential impacts associated with transportation and traffic to a level that is less than significant at all intersections. Therefore, with implementation of these mitigation measures no significant unavoidable traffic impacts would occur.

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5.18 TRIBAL CULTURAL RESOURCES

5.18.1 Summary of Impacts Identified in the Certified EIR

Tribal Cultural Resources was not analyzed as a topic in the prior Initial Study or Certified EIR but did address physical integrity and potential for physical evidence of the crafts of a particular culture or people during a period in history or prehistory. Due to the disturbed and urbanized nature of the site, it was determined that the likelihood of uncovering resources in the Approved Project site would be unlikely.

5.18.2 Impacts Associated with the Proposed Project

Environmental Issues	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	No Impact
a) Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code § 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:					
i) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or				X	
ii) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code § 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code § 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.				X	

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- a) Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:
- i) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or
 - ii) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR.

As with the Approved Project, the Proposed Project, located immediately west of the Approved Project site, has been previously disturbed and developed and has been subject to similar construction and ground-disturbing activities that would be associated with the Proposed Project. Therefore, it is not anticipated that any tribal resources would be unearthed, however, as with the Approved Project, the Proposed Project would be required to comply with existing law including California Health and Safety Code Section 7050.0, CEQA Section 15064.5, and Public Resources Section 5097.98 to ensure that significant impacts to human remains would not occur. Additionally, the City of Long Beach conducted SB-18 and AB-52 Consultation for the Proposed Project on May 25, 2019. No significant new impact or substantial increase in the severity of a previously described impact would occur, and there are no substantial changes in the circumstances, or new information that was not known and could not have been known at the time of the adoption of the Certified EIR with respect to Tribal Cultural Resources and a subsequent EIR is not required.

5.18.3 Adopted Mitigation Measures Applicable to the Proposed Project

No mitigation measures related to tribal cultural resources were outlined in the Certified EIR.

5.18.4 Level of Significance After Mitigation

No mitigation measures are required for the Proposed Project.

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5.19 UTILITIES AND SERVICE SYSTEMS

5.19.1 Summary of Impacts Identified in the Certified EIR

The Initial Study for the Approved Project concluded that the as of 2006, the City of Long Beach was exceeding its waste diversion rate of 50 percent by an additional 19 percent. Future development under the Approved Project would be required to comply with laws and regulations governing solid waste, and no adverse impact would occur. This topic was no further analyzed in the Certified EIR.

The Certified EIR determined that project-generated wastewater could result in an impact on the City of Long Beach's and County Sanitation Districts of Los Angeles County's wastewater treatment and conveyance systems. However, it was concluded that wastewater from the Approved Project is treated at LACSDS's JWPCP, which has capacity of 400 mgd, and had average daily effluent flows of approximately 263 mgd in 2014 (LACSD 2015). There is approximately 137 mgd residual capacity at the JWPCP, which was found to be more than adequate to accommodate the net increase in wastewater generation from development that would be accommodated by the Approved Project. Therefore, the Approved Project would not require construction of new or expanded wastewater treatment facilities. Furthermore, new residential and commercial development that would be accommodated by the Approved Project would be required to pay a sewer capacity fee required under Part 18 (Sewer Capacity Charge) of the Rules, Regulations, and Charges approved by the Long Beach Board of Water Commissioners in 2011. Additionally, mitigation requiring "Will Serve" letters from the Sanitation Districts would ensure less than significant impacts.

The Certified EIR also determined that the water supply and distribution systems were adequate to meet the requirements of the Approved Project. Additionally, future development that would be accommodated by the Approved Project would also be required to comply with the provisions of the most current (2013) California Green Building Standards Code (CALGreen; adopted by reference in Chapter 18.47 [Green Building Standards Code] of the City's Municipal Code), which contains requirements for indoor water use reduction and site irrigation conservation.

The Certified EIR found that existing solid waste facilities could accommodate the solid waste that would be generated by the Approved Project. The Approved Project would also be required to adhere to the provisions of Chapter 18.67 (Construction and Demolition Recycling Program) of the City's Municipal Code, in addition to Section 5.408 (Construction Waste Reduction, Disposal, and Recycling) of the 2013 California Green Building Standards Code.

5.19.2 Impacts Associated with the Proposed Project

Would the project:

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Environmental Issues	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	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	

- 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?**

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR.

Implementation of the Proposed Project would not result the need for additional utilities or services systems, including water and wastewater collection and treatment facilities and systems, drainage facilities and systems, and solid waste facilities. The Proposed Project would be required to comply with Mitigation Measures USS-1 and USS-2 of the 2016 Certified EIR. The demand for utilities and service systems would not change under the Proposed Project, and no new or substantially greater impacts related to utilities and service systems would occur that would require the preparation of a subsequent EIR.

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- b) **Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?**

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR.

As the Proposed Project includes development that is within the scope of what was analyzed for the Approved Project, the water supply and distribution systems would be adequate to meet the requirements of the Proposed Project. Additionally, as with the Approved Project, the Proposed Project would be required to comply with the provisions of the most current (2016) California Green Building Standards Code (CALGreen; adopted by reference in Chapter 18.47 [Green Building Standards Code] of the City's Municipal Code), which contains requirements for indoor water use reduction and site irrigation conservation. No new or substantially greater impacts related to utilities and service systems would occur that would require the preparation of a subsequent EIR.

- 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?**

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR.

As the Proposed Project includes development that is within the scope of what was analyzed for the Approved Project, capacity at LACSDS's JWPCP would be adequate to accommodate the Proposed Project and the Proposed Project would not require the construction of new or expanded wastewater treatment facilities. Additionally, as with the Approved Project, the Proposed Project would be required to pay a sewer capacity fee required under Part 18 (Sewer Capacity Charge) of the Rules, Regulations, and Charges approved by the Long Beach Board of Water Commissioners in 2011 and would produce "Will Serve" letters as outlined in the mitigation measures under the Certified EIR. Therefore, project-generated wastewater would not result in new or substantially greater impacts than what was previously analyzed and there are no substantial changes in the circumstances that would require the preparation of a subsequent EIR.

- 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?**

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR.

As the Proposed Project includes development that is within the scope of what was analyzed for the Approved Project, the existing solid waste facilities would accommodate the solid waste that would be generated by the Proposed Project. Additionally, as with the Approved Project, the Proposed Project would also be required to adhere to the provisions of Chapter 18.67 (Construction and Demolition Recycling Program) of the City's Municipal Code, in addition to Section 5.408 (Construction Waste Reduction, Disposal, and Recycling) of the 2016 California Green Building Standards Code. No significant new impact or substantial increase in the severity of a previously described impact would occur, and there are no substantial changes in the circumstances, or new information that was not known and could not have been known at the time of the adoption of the Certified EIR with respect to solid waste and a subsequent EIR is not required.

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e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR.

As with the Approved Project, the Proposed Project would be required to comply with laws and regulations governing solid waste, and no adverse impact would occur. Additionally, as the Proposed Project includes development that is within the scope of what was studied under the Approved Project, it would not result in new or substantially greater impacts than what was previously analyzed and there are no substantial changes in the circumstances that would require the preparation of a subsequent EIR.

5.19.3 Adopted Mitigation Measures Applicable to the Proposed Project

USS-1 Prior to the issuance of grading permits for individual development projects that would occur within the Midtown Specific Plan area and in lieu of implementing the sewer line replacement and upsizing improvements outlined in the Infrastructure Technical Report for Hydrology, Sewer, Water, and Water Quality prepared by Fuscoe Engineering (dated July 1, 2015), the project applicant/developer shall submit a site-specific sewer flow monitoring study to provide a more detailed analysis of the true sewer flow depths over time to determine if the potential for surcharge conditions would occur due to project development. The sewer flow monitoring study may indicate that there is sufficient capacity for the sewer lines identified in the Infrastructure Technical Report, as well indicate that they are above the design criteria (>0.75 d/D); and thereby, conclude that the replacement and upsizing improvements are not necessary. The sewer flow monitoring study shall be submitted to the City of Long Beach Development Services Department for review and approval.

USS-2 Prior to the issuance of grading permits for individual development projects that would be accommodated by the Midtown Specific Plan, the project applicant/developer shall provide evidence to the City of Long Beach Development Services Department that that the development project has been reviewed by the County Sanitation Districts of Los Angeles County (Sanitation Districts) and that a “Will Serve” letter has been issued by the Sanitation Districts. The “Will Serve” letter process is necessary in order to determine whether or not sufficient trunk sewer capacity exists to serve each development project and if the Sanitation Districts facilities will be affected by the development project.

5.19.4 Level of Significance After Mitigation

Compliance with regulatory requirements and implementation of mitigation measures identified above would reduce impacts to a less than significant level. Therefore, no significant unavoidable adverse impacts have been identified.

5. Environmental Analysis

5.20 WILDFIRE

5.20.1 Summary of Impacts Identified in the Certified EIR

Wildfire was not analyzed as a topic in the Certified EIR; however, it was addressed as part of the Hazards and Hazardous Materials section and was scoped out in the Initial Study. The Initial Study determined that the Project Site is located in a highly urbanized area, built-out portion of the City and is outside of fire hazard severity zones designated by the California Department of Forestry and Fire Protection (CAL FIRE). Additionally, the Initial Study found that the Approved Project would not conflict with the City's or Los Angeles County's emergency response or evacuation plans.

5.20.2 Impacts Associated with the Proposed Project

If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:

Environmental Issues	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	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 or 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

5. Environmental Analysis

a) Substantially impair an adopted emergency response plan or emergency evacuation plan?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR.

The Proposed Project would entail the same physical improvements to Long Beach Boulevard as was studied under the Approved Project which would result in temporary lane closures or rerouting of vehicular traffic. As with the Approved Project, the Proposed Project would not decrease the number of travel lanes along Long Beach Boulevard, nor alter its functionality. The Approved Project evaluated land within and around the Approved Project site. The Proposed Project, located immediately adjacent to the Approved Project site, would ensure that continued access to the Project Site and surrounding areas by emergency vehicles would continue. As the Proposed Project includes uses already evaluated under the Approved Project, it would also not interfere with any of the daily operations of the City's Emergency Operation Center, Long Beach Fire Department, or the Long Beach Police Department and would be required to be performed per the City's and LBFD's standards and regulations. Therefore, as with the Approved Project, the Proposed Project would not impair implementation of or physically interfere with the City of Long Beach or Los Angeles County's emergency response or evacuation plans. No new impacts, or substantially greater impacts than what was previously analyzed would occur that would require the preparation of a subsequent EIR.

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?

No Impact. The Proposed Project is located in an urban environment and is surrounded by existing development. There are no wildland areas, nor wildland interface areas located in the vicinity. Consequently, no wildland fires would affect, or be affected by implementation of the Proposed Project. No impact would occur for the Proposed Project and no changes or new information would require preparation of a subsequent EIR.

c) Require the installation or 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?

No Impact. The Proposed Project is located in an urban environment and is surrounded by existing development. Installation or maintenance of associated infrastructures would not exacerbate fire risk or result in temporary ongoing impacts to the environment as wildland nor wildland interface areas exist at or around the Project Site area. No impact would occur for the Proposed Project and no changes or new information would require preparation of a subsequent EIR.

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?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR.

As discussed in the Certified EIR, the Project Site is flat and located in an urbanized area. The Project Site is not subject to landslides or slope instability. The Project Site is not located in or adjacent to wildland area. As with the Approved Project, adherence to appropriate mitigation would assure that impacts related to runoff

5. Environmental Analysis

and drainage changes for the Proposed Project would remain less than significant. As documented in this analysis, the Proposed Project would not result in new significant impacts or a substantial increase in the severity of previously identified effects and is consistent with the Certified EIR and would not require the preparation of a subsequent EIR.

5.20.3 Adopted Mitigation Measures Applicable to the Proposed Project

No mitigation for wildfire was identified in the Certified EIR.

5.20.4 Level of Significance After Mitigation

No mitigation measures are required for the Proposed Project.

5. Environmental Analysis

5.21 MANDATORY FINDINGS OF SIGNIFICANCE

Environmental Issues	Substantial Change in Project Requiring Major EIR Revisions	Substantial Change in Circumstances Requiring Major EIR Revisions	New Information Showing New or Increased Significant Effects	Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR	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	
c) 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	
d) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?				X	

- 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?

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR. The Project Site does not contain any significant biological resources. As demonstrated in this Addendum, the Proposed Project would not result in new significant impacts to biological or cultural resources, nor would it substantially increase the severity of impacts evaluated and determined in the Certified EIR. Because the

5. Environmental Analysis

Proposed Project would not meet any of the criteria identified in Section 15162 of the State CEQA Guidelines requiring preparation of a subsequent or supplemental EIR, an Addendum to the Certified EIR is the appropriate document type for the Proposed Project.

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

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR.

With approval of the discretionary requests, the Proposed Project would be consistent with the amount of development planned for the Project Site. Therefore, the Proposed Project will not result in any new cumulatively considerable impacts or substantially increase the severity of the cumulative effects previously disclosed in the Certified EIR. As demonstrated in this Addendum, the Proposed Project would not result in new significant impacts, nor would it substantially increase the severity of impacts evaluated and determined in the Certified EIR. Because the Proposed Project would not meet any of the criteria identified in Section 15162 of the State CEQA Guidelines requiring preparation of a subsequent or supplemental EIR, an Addendum to the Certified EIR is the appropriate document type for the Proposed Project.

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

Less Than Significant Impact/No Changes or New Information Requiring Preparation of an EIR.

As demonstrated in this Addendum, the Proposed Project would not result in new significant impacts, nor would it substantially increase the severity of impacts evaluated and determined in the Certified EIR. Because the Proposed Project would not meet any of the criteria identified in Section 15162 of the State CEQA Guidelines requiring preparation of a subsequent or supplemental EIR, an Addendum to the Certified EIR is the appropriate document type for the Proposed Project.

6. List of Preparers

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6. List of Preparers

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Appendix A Focused Air Quality Analysis

Appendix

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1. Criteria Air Pollutant and GHG Emissions Worksheets

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Regional Construction Emissions Worksheet

*CalEEMod, Version 2016.3.2

Demolition			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	2020 Summer							
	Fugitive Dust						0.4495	0.0681
	Off-Road		0.463	8.5434	15.4154	0.0241	0.0375	0.0375
	Total		0.463	8.5434	15.4154	0.0241	0.487	0.1055
Offsite	Hauling		0.0489	1.6102	0.3568	4.42E-03	0.0964	0.0301
	Vendor		0.0142	0.4255	0.1115	1.04E-03	0.026	8.89E-03
	Worker		0.0598	0.0426	0.5692	1.54E-03	0.1352	0.0369
	Total		0.123	2.0783	1.0375	7.00E-03	0.2575	0.0759
TOTAL		0.5860	10.6217	16.4529	0.0311	0.7445	0.1814	
Onsite	2020 Winter							
	Fugitive Dust						0.4495	0.0681
	Off-Road		0.463	8.5434	15.4154	0.0241	0.0375	0.0375
	Total		0.463	8.5434	15.4154	0.0241	0.487	0.1055
Offsite	Hauling		0.0501	1.6311	0.3792	4.35E-03	0.0965	0.0302
	Vendor		0.0149	0.4254	0.123	1.01E-03	0.026	8.92E-03
	Worker		0.0664	0.0471	0.5213	1.45E-03	0.1352	0.0369
	Total		0.1314	2.1036	1.0235	6.81E-03	0.2576	0.076
TOTAL		0.5944	10.6470	16.4389	0.0309	0.7446	0.1815	
Onsite	2020							
	Fugitive Dust		0	0	0	0	0.4495	0.0681
	Off-Road		0.463	8.5434	15.4154	0.0241	0.0375	0.0375
	Total		0.463	8.5434	15.4154	0.0241	0.487	0.1055
Offsite	Hauling		0.0501	1.6311	0.3792	0.00442	0.0965	0.0302
	Vendor		0.0149	0.4255	0.123	0.00104	0.026	0.00892
	Worker		0.0664	0.0471	0.5692	0.00154	0.1352	0.0369
	Total		0.1314	2.1036	1.0375	0.007	0.2576	0.076
TOTAL		0.5944	10.6470	16.4529	0.0311	0.7446	0.1815	
Site Preparation			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	2020 Summer							
	Fugitive Dust						2.1487	1.0944
	Off-Road		0.2998	5.0659	9.8221	0.0172	0.0281	0.0281
	Total		0.2998	5.0659	9.8221	0.0172	2.1768	1.1224
Offsite	Hauling		0	0	0	0	0	0
	Vendor		0.0142	0.4255	0.1115	1.04E-03	0.026	8.89E-03
	Worker		0.0368	0.0262	0.3503	9.40E-04	0.0832	0.0227
	Total		0.0511	0.4517	0.4618	1.98E-03	0.1091	0.0316
TOTAL		0.3509	5.5176	10.2839	0.0192	2.2859	1.1540	

Onsite	2020 Winter					
	Fugitive Dust				2.1487	1.0944
	Off-Road	0.2998	5.0659	9.8221	0.0172	0.0281
	Total	0.2998	5.0659	9.8221	0.0172	2.1768
Offsite	Hauling	0	0	0	0	0
	Vendor	0.0149	0.4254	0.123	1.01E-03	0.026
	Worker	0.0409	0.029	0.3208	8.90E-04	0.0832
	Total	0.0558	0.4544	0.4438	1.90E-03	0.1092
TOTAL	0.3556	5.5203	10.2659	0.0191	2.2860	

Onsite	2020						
	Fugitive Dust	0	0	0	0	2.1487	1.0944
	Off-Road	0.2998	5.0659	9.8221	0.0172	0.0281	0.0281
	Total	0.2998	5.0659	9.8221	0.0172	2.1768	1.1224
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0149	0.4255	0.123	0.00104	0.026	0.00892
	Worker	0.0409	0.029	0.3503	0.00094	0.0832	0.0227
	Total	0.0558	0.4544	0.4618	0.00198	0.1092	0.0316
TOTAL	0.3556	5.5203	10.2839	0.0192	2.2860	1.1540	

Grading

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	2020 Summer						
	Fugitive Dust					1.8207	0.9357
	Off-Road	0.2466	4.1795	8.0841	0.0141	0.023	0.023
	Total	0.2466	4.1795	8.0841	0.0141	1.8437	0.9587
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0142	0.4255	0.1115	1.04E-03	0.026	8.89E-03
	Worker	0.0368	0.0262	0.3503	9.40E-04	0.0832	0.0227
	Total	0.0511	0.4517	0.4618	1.98E-03	0.1091	0.0316
TOTAL	0.2977	4.6312	8.5459	0.0161	1.9528	0.9903	

Onsite	2020 Winter						
	Fugitive Dust					1.8207	0.9357
	Off-Road	0.2466	4.1795	8.0841	0.0141	0.023	0.023
	Total	0.2466	4.1795	8.0841	0.0141	1.8437	0.9587
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0149	0.4254	0.123	1.01E-03	0.026	8.92E-03
	Worker	0.0409	0.029	0.3208	8.90E-04	0.0832	0.0227
	Total	0.0558	0.4544	0.4438	1.90E-03	0.1092	0.0316
TOTAL	0.3024	4.6339	8.5279	0.0160	1.9529	0.9903	

Onsite	2020						
	Fugitive Dust	0	0	0	0	1.8207	0.9357
	Off-Road	0.2466	4.1795	8.0841	0.0141	0.023	0.023
	Total	0.2466	4.1795	8.0841	0.0141	1.8437	0.9587
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0149	0.4255	0.123	0.00104	0.026	0.00892
	Worker	0.0409	0.029	0.3503	0.00094	0.0832	0.0227
	Total	0.0558	0.4544	0.4618	0.00198	0.1092	0.0316
TOTAL	0.3024	4.6339	8.5459	0.0161	1.9529	0.9903	

Building Construction

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	2020 Summer						
	Off-Road	0.401	9.9925	13.4786	0.022	0.1617	0.1617
	Total	0.401	9.9925	13.4786	0.022	0.1617	0.1617
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.1387	4.1485	1.087	0.0101	0.2532	0.0866
	Worker	0.7363	0.5238	7.0055	0.0189	1.6634	0.4537
	Total	0.875	4.6724	8.0925	0.029	1.9166	0.5404
TOTAL		1.2760	14.6649	21.5711	0.0510	2.0783	0.7021

Onsite	2020 Winter						
	Off-Road	0.401	9.9925	13.4786	0.022	0.1617	0.1617
	Total	0.401	9.9925	13.4786	0.022	0.1617	0.1617
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.145	4.1477	1.1988	9.84E-03	0.2535	0.0869
	Worker	0.8176	0.58	6.4162	0.0178	1.6634	0.4537
	Total	0.9627	4.7276	7.615	0.0276	1.9169	0.5407
TOTAL		1.3637	14.7201	21.0936	0.0496	2.0786	0.7024

Onsite	2020						
	Off-Road	0.401	9.9925	13.4786	0.022	0.1617	0.1617
	Total	0.401	9.9925	13.4786	0.022	0.1617	0.1617
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.145	4.1485	1.1988	0.0101	0.2535	0.0869
	Worker	0.8176	0.58	7.0055	0.0189	1.6634	0.4537
	Total	0.9627	4.7276	8.0925	0.029	1.9169	0.5407
TOTAL		1.3637	14.7201	21.5711	0.0510	2.0786	0.7024

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	2021 Summer						
	Off-Road	0.401	9.9925	13.4786	0.0221	0.1617	0.1617
	Total	0.401	9.9925	13.4786	0.0221	0.1617	0.1617
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.1185	3.7865	0.9899	0.01	0.2414	0.0754
	Worker	0.6859	0.4714	6.4444	0.0183	1.6629	0.4533
	Total	0.8044	4.2579	7.4343	0.0283	1.9044	0.5286
TOTAL		1.2054	14.2504	20.9129	0.0504	2.0661	0.6903

Onsite	2021 Winter						
	Off-Road	0.401	9.9925	13.4786	0.0221	0.1617	0.1617
	Total	0.401	9.9925	13.4786	0.0221	0.1617	0.1617
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.1245	3.7787	1.095	9.76E-03	0.2417	0.0756
	Worker	0.7629	0.5218	5.8921	0.0172	1.6629	0.4533
	Total	0.8874	4.3005	6.9871	0.027	1.9046	0.5289
TOTAL		1.2884	14.2930	20.4657	0.0491	2.0663	0.6906

Onsite	2021	Off-Road	0.401	9.9925	13.4786	0.0221	0.1617	0.1617
		Total	0.401	9.9925	13.4786	0.0221	0.1617	0.1617
Offsite		Hauling	0	0	0	0	0	0
		Vendor	0.1245	3.7865	1.095	0.01	0.2417	0.0756
		Worker	0.7629	0.5218	6.4444	0.0183	1.6629	0.4533
		Total	0.8874	4.3005	7.4343	0.0283	1.9046	0.5289
TOTAL			1.2884	14.2930	20.9129	0.0504	2.0663	0.6906

Asphalt Paving

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	2021 Summer						
	Off-Road	0.2149	5.7133	9.8512	0.0135	0.0213	0.0213
	Paving	0				0	0
	Total	0.2149	5.7133	9.8512	0.0135	0.0213	0.0213
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0557	0.0383	0.5236	1.49E-03	0.1351	0.0368
	Total	0.0557	0.0383	0.5236	1.49E-03	0.1351	0.0368
TOTAL		0.2706	5.7516	10.3748	0.0150	0.1564	0.0581

Onsite	2021 Winter						
	Off-Road	0.2149	5.7133	9.8512	0.0135	0.0213	0.0213
	Paving	0				0	0
	Total	0.2149	5.7133	9.8512	0.0135	0.0213	0.0213
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.062	0.0424	0.4787	1.40E-03	0.1351	0.0368
	Total	0.062	0.0424	0.4787	1.40E-03	0.1351	0.0368
TOTAL		0.2769	5.7557	10.3299	0.0149	0.1564	0.0581

Onsite	2021	Off-Road	0.2149	5.7133	9.8512	0.0135	0.0213	0.0213
		Paving	0	0	0	0	0	0
		Total	0.2149	5.7133	9.8512	0.0135	0.0213	0.0213
Offsite		Hauling	0	0	0	0	0	0
		Vendor	0	0	0	0	0	0
		Worker	0.062	0.0424	0.5236	0.00149	0.1351	0.0368
		Total	0.062	0.0424	0.5236	0.00149	0.1351	0.0368
TOTAL			0.2769	5.7557	10.3748	0.0150	0.1564	0.0581

Architectural Coating

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	2021 Summer						
	Archit. Coating	24.6845				0	0
	Off-Road	0.0545	1.0598	1.8324	2.97E-03	3.96E-03	3.96E-03
	Total	24.739	1.0598	1.8324	2.97E-03	3.96E-03	3.96E-03
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.1372	0.0943	1.2889	3.66E-03	0.3326	0.0907
	Total	0.1372	0.0943	1.2889	3.66E-03	0.3326	0.0907
TOTAL		24.8762	1.1541	3.1213	0.0066	0.3366	0.0947

Onsite		2021 Winter				
	Archit. Coating	24.6845			0	0
	Off-Road	0.0545	1.0598	1.8324	2.97E-03	3.96E-03
	Total	24.739	1.0598	1.8324	2.97E-03	3.96E-03
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0	0	0	0	0
	Worker	0.1526	0.1044	1.1784	3.44E-03	0.3326
	Total	0.1526	0.1044	1.1784	3.44E-03	0.3326
TOTAL		24.8916	1.1642	3.0108	0.0064	0.3366

Onsite		2021				
	Archit. Coating	24.6845	0	0	0	0
	Off-Road	0.0545	1.0598	1.8324	0.00297	0.00396
	Total	24.739	1.0598	1.8324	0.00297	0.00396
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0	0	0	0	0
	Worker	0.1526	0.1044	1.2889	0.00366	0.3326
	Total	0.1526	0.1044	1.2889	0.00366	0.3326
TOTAL		24.8916	1.1642	3.1213	0.0066	0.3366

MAX DAILY	24.89	14.72	21.57	0.05	2.29	1.15
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Regional Thresholds	75	100	550	150	150	55
Exceeds Thresholds?	No	No	No	No	No	No

Localized Construction Emissions Worksheet

*CalEEMod, Version 2016.3.2

Demolition					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite		2020			
	Fugitive Dust			0.4495	0.0681
	Off-Road	8.5434	15.4154	0.0375	0.0375
	Total	8.5434	15.4154	0.487	0.1055
TOTAL		8.5434	15.4154	0.4870	0.1055
Onsite		2020			
	Fugitive Dust			0.4495	0.0681
	Off-Road	8.5434	15.4154	0.0375	0.0375
	Total	8.5434	15.4154	0.487	0.1055
TOTAL		8.5434	15.4154	0.4870	0.1055
Onsite		2020			
	Fugitive Dust	0	0	0.4495	0.0681
	Off-Road	8.5434	15.4154	0.0375	0.0375
	Total	8.5434	15.4154	0.487	0.1055
TOTAL		8.5434	15.4154	0.4870	0.1055
	1.59-Acre LSTs	72	737	5.77	4.18
	Exceeds LST?	No	No	No	No

Site Preparation					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite		2020			
	Fugitive Dust			2.1487	1.0944
	Off-Road	5.0659	9.8221	0.0281	0.0281
	Total	5.0659	9.8221	2.1768	1.1224
TOTAL		5.0659	9.8221	2.1768	1.1224
Onsite		2020			
	Fugitive Dust			2.1487	1.0944
	Off-Road	5.0659	9.8221	0.0281	0.0281
	Total	5.0659	9.8221	2.1768	1.1224
TOTAL		5.0659	9.8221	2.1768	1.1224
Onsite		2020			
	Fugitive Dust	0	0	2.1487	1.0944
	Off-Road	5.0659	9.8221	0.0281	0.0281
	Total	5.0659	9.8221	2.1768	1.1224
TOTAL		5.0659	9.8221	2.1768	1.1224
	1.44-Acre LSTs	68	697	5.31	3.87
	Exceeds LST?	No	No	No	No

Grading

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		2020				
	Fugitive Dust				1.8207	0.9357
	Off-Road		4.1795	8.0841	0.023	0.023
	Total		4.1795	8.0841	1.8437	0.9587
TOTAL			4.1795	8.0841	1.8437	0.9587
Onsite		2020				
	Fugitive Dust				1.8207	0.9357
	Off-Road		4.1795	8.0841	0.023	0.023
	Total		4.1795	8.0841	1.8437	0.9587
TOTAL			4.1795	8.0841	1.8437	0.9587
Onsite		2020				
	Fugitive Dust		0	0	1.8207	0.9357
	Off-Road		4.1795	8.0841	0.023	0.023
	Total		4.1795	8.0841	1.8437	0.9587
TOTAL			4.1795	8.0841	1.8437	0.9587
	1.19-Acre LSTs		62	633	4.56	3.37
	Exceeds LST?		No	No	No	No

Building Construction

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		2020				
	Off-Road		9.9925	13.4786	0.1617	0.1617
	Total		9.9925	13.4786	0.1617	0.1617
TOTAL			9.9925	13.4786	0.1617	0.1617
Onsite		2020				
	Off-Road		9.9925	13.4786	0.1617	0.1617
	Total		9.9925	13.4786	0.1617	0.1617
TOTAL			9.9925	13.4786	0.1617	0.1617
Onsite		2020				
	Off-Road		9.9925	13.4786	0.1617	0.1617
	Total		9.9925	13.4786	0.1617	0.1617
TOTAL			9.9925	13.4786	0.1617	0.1617
	<=1.00-Acre LSTs		57	585	4.00	3.00
	Exceeds LST?		No	No	No	No

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2021				
	Off-Road	9.9925	13.4786	0.1617	0.1617
	Total	9.9925	13.4786	0.1617	0.1617
TOTAL		9.9925	13.4786	0.1617	0.1617
Onsite	2021				
	Off-Road	9.9925	13.4786	0.1617	0.1617
	Total	9.9925	13.4786	0.1617	0.1617
TOTAL		9.9925	13.4786	0.1617	0.1617
Onsite	2021				
	Off-Road	9.9925	13.4786	0.1617	0.1617
	Total	9.9925	13.4786	0.1617	0.1617
TOTAL		9.9925	13.4786	0.1617	0.1617
<=1.00-Acre LSTs		57	585	4.00	3.00
Exceeds LST?		No	No	No	No

Asphalt Paving

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2021				
	Off-Road	5.7133	9.8512	0.0213	0.0213
	Paving			0	0
	Total	5.7133	9.8512	0.0213	0.0213
TOTAL		5.7133	9.8512	0.0213	0.0213
Onsite	2021				
	Off-Road	5.7133	9.8512	0.0213	0.0213
	Paving			0	0
	Total	5.7133	9.8512	0.0213	0.0213
TOTAL		5.7133	9.8512	0.0213	0.0213
Onsite	2021				
	Off-Road	5.7133	9.8512	0.0213	0.0213
	Paving	0	0	0	0
	Total	5.7133	9.8512	0.0213	0.0213
TOTAL		5.7133	9.8512	0.0213	0.0213
<=1.00-Acre LSTs		57	585	4.00	3.00
Exceeds LST?		No	No	No	No

Architectural Coating

		NOx	CO	PM10 Total	PM2.5 Total
Onsite		2021			
	Archit. Coating			0	0
	Off-Road	1.0598	1.8324	3.96E-03	3.96E-03
	Total	1.0598	1.8324	3.96E-03	3.96E-03
TOTAL		1.0598	1.8324	0.0040	0.0040
Onsite		2021			
	Archit. Coating			0	0
	Off-Road	1.0598	1.8324	3.96E-03	3.96E-03
	Total	1.0598	1.8324	3.96E-03	3.96E-03
TOTAL		1.0598	1.8324	0.0040	0.0040
Onsite		2021			
	Archit. Coating	0	0	0	0
	Off-Road	1.0598	1.8324	0.00396	0.00396
	Total	1.0598	1.8324	0.00396	0.00396
TOTAL		1.0598	1.8324	0.0040	0.0040
	<=1.00-Acre LSTs	57	585	4.00	3.00
	Exceeds LST?	No	No	No	No

Regional Operation Emissions Worksheet*

*CalEEMod, Version 2016.3.2

Existing-2023

Summer

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	0.2034	1.00E-05	1.06E-03	0	0	0
Energy	6.27E-03	0.057	0.0479	3.40E-04	4.33E-03	4.33E-03
Mobile	3.1867	3.9324	20.8865	0.0496	4.5614	1.2451
Total	3.3964	3.9894	20.9355	0.05	4.5658	1.2495

Winter

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	0.2034	1.00E-05	1.06E-03	0	0	0
Energy	6.27E-03	0.057	0.0479	3.40E-04	4.33E-03	4.33E-03
Mobile	3.3158	4.167	21.0226	0.0479	4.5609	1.2449
Total	3.5254	4.224	21.0716	0.0482	4.5652	1.2493

Max Daily

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	0.203	0.000	0.001	0.000	0.000	0.000
Energy	0.006	0.057	0.048	0.000	0.004	0.004
Mobile	3.316	4.167	21.023	0.050	4.561	1.245
Total	3.525	4.224	21.072	0.050	4.566	1.250

Proposed Project

Summer

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	4.0507	0.1314	11.4031	6.00E-04	0.0631	0.0631
Energy	0.0719	0.6286	0.365	3.92E-03	0.0497	0.0497
Mobile	10.6697	12.9314	78.1482	0.194	18.5823	5.0556
Total	14.7924	13.6914	89.9162	0.1986	18.6951	5.1684

Winter

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	4.0507	0.1314	11.4031	6.00E-04	0.0631	0.0631
Energy	0.0719	0.6286	0.365	3.92E-03	0.0497	0.0497
Mobile	11.0841	13.7362	77.5368	0.1866	18.5804	5.055
Total	15.2067	14.4962	89.3049	0.1911	18.6932	5.1678

Max Daily

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	4.051	0.131	11.403	0.001	0.063	0.063
Energy	0.072	0.629	0.365	0.004	0.050	0.050
Mobile	11.084	13.736	78.148	0.194	18.582	5.056
Total	15.207	14.496	89.916	0.199	18.695	5.168

Net Change**Summer**

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	3.8473	1.31E-01	11.40204	0.0006	6.31E-02	6.31E-02
Energy	6.56E-02	0.5716	0.3171	3.58E-03	4.54E-02	4.54E-02
Mobile	7.483	8.999	57.2617	0.1444	14.0209	3.8105
Total	11.396	9.702	68.9807	0.1486	14.1293	3.9189

Winter

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	3.8473	1.31E-01	11.40204	0.0006	6.31E-02	6.31E-02
Energy	6.56E-02	0.5716	0.3171	3.58E-03	4.54E-02	4.54E-02
Mobile	7.7683	9.5692	56.5142	0.1387	14.0195	3.8101
Total	11.6813	10.2722	68.2333	0.1429	14.128	3.9185

Max Daily

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	3.847	0.131	11.402	0.001	0.063	0.063
Energy	0.066	0.572	0.317	0.004	0.045	0.045
Mobile	7.768	9.569	57.262	0.144	14.021	3.811
Total	11.681	10.272	68.981	0.149	14.129	3.919

Regional Thresholds

Exceeds Thresholds?

55	55	550	150	150	550
No	No	No	No	No	No

GHG Emissions Inventory

Proposed Project Buildout

Construction

	MTCO₂e Total*
2020	238
2021	243
Total Construction	482

*CalEEMod, Version 2016.3.2.

Operation*

Existing-2020		
Area	0.0003	MTCO ₂ e/Year**
Energy	89	MTCO ₂ e/Year
Mobile	595	MTCO ₂ e/Year
Solid Waste	24	MTCO ₂ e/Year
Water	4	MTCO ₂ e/Year
Total	712	MTCO₂e/Year
Proposed		
Area	2	MTCO ₂ e/Year**
Energy	531	MTCO ₂ e/Year
Mobile	2,519	MTCO ₂ e/Year
Solid Waste	109	MTCO ₂ e/Year
Water	52	MTCO ₂ e/Year
Amortized Construction Emissions***	16	MTCO ₂ e/Year
Total	3,229	MTCO₂e/Year
Net Change		
Area	2	MTCO ₂ e/Year**
Energy	442	MTCO ₂ e/Year
Mobile	1,924	MTCO ₂ e/Year
Solid Waste	85	MTCO ₂ e/Year
Water	48	MTCO ₂ e/Year
Amortized Construction Emissions***	16	MTCO ₂ e/Year
Total	2,517	MTCO₂e/Year
SCAQMD Bright-Line Screening Threshold	3,000	MTCO ₂ e/Year
Exceed Threshold?	No	

*CalEEMod, Version 2016.3.2.

** MTCO₂e=metric tons of carbon dioxide equivalent.

*** Total construction emissions are amortized over 30 years per SCAQMD methodology; SCAQMD. 2009, November 19. Greenhouse Gases (GHG) CEQA Significance Thresholds Working Group Meeting 14. [http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-\(ghg\)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-14/ghg-meeting-14-main-presentation.pdf?sfvrsn=2](http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-14/ghg-meeting-14-main-presentation.pdf?sfvrsn=2).

2. Criteria Air Pollutant and GHG Modeling Inputs and Assumptions

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CalEEMod Land Use Inputs: Existing

Type	Land Use Type	Land Use Unit Amount	Land Use Size Metric	Lot Acreage	Land Use Square Feet
Retail	Supermarket	9.100	1000BSF	0.28	9,100
Parking	Other Asphalt Surfaces	1.31	acre	1.31	0
				1.59	9,100.00

Project Location: Los Angeles SC
 Climate Zone: 9
 Operation Year: 2020, 2023
 Land Use Setting: Urban
 Utility Company: SCE
 Source Receptor Area:

Trip Generation

Land Use	Unit Amount	Weekday Trip Generation Rate*	Trips Per Day	Primary (%)	Diverted (%)	Pass-By Rate (%)
Supermarket	9.100	106.78	972	34%	30%	36%
			972			

Land Use	Unit Amount	Saturday Trip Generation Rate**	Trips Per Day	Primary (%)	Diverted (%)	Pass-By Rate (%)
Supermarket	9.100	177.62	1,616	34%	30%	36%
			1,616			

Land Use	Unit Amount	Sunday Trip Generation Rate**	Trips Per Day	Primary (%)	Diverted (%)	Pass-By Rate (%)
Supermarket	9.100	166.47	1,515	34%	30%	36%
			1,515			

*Based on information provided by Fehr & Peers. 2020, June 17. 201 W. Pacific Coast Highway Traffic Assessment.

**Institute of Traffic Engineers. 2017. Trip Generation Manual, 10th Edition.

Water Use*

CalEEMod Inputs

Land Use	Indoor	Outdoor	Total
Supermarket	1,047,779.83	32,405.56	1,080,185.39
Other Asphalt Surfaces	0	0	0
Total	1,047,780	32,406	1,080,185

*CalEEMod defaults

Solid Waste*

Annual Solid Waste Generated

Land Use	(tpy) ³
Supermarket	47.94
Other Asphalt Surfaces	0.00
Total	48

*CalEEMod defaults

Electricity (Buildings)

Utilizes CalEEMod historical energy rates, which are based on the 2007 Building Energy Efficiency Standards.

Architectural Coating

Land Use	Land Use Amount (BSF)	CalEEMod Paintable Surface Area Multiplier*	Total Paintable Surface Area (BSF)	Total Paintable Interior Surface Area (BSF)*	Total Paintable Exterior Surface Area (BSF)*
Supermarket	9,100	2.0	18,200	13,650	4,550
			Non-Residential Sub-Total	13,650	4,550
Parking Lot	0	6%	0	0	0

*Based on CalEEMod methodology in calculating the paintable surface areas for a residential building and surface parking lot.

Carbon Intensity Factors

Southern California Edison Carbon Intensity Factors

SCE CO ₂ e Intensity Factor ¹	534	pounds per megawatt hour
CO ₂ : ^{1,2}	531.43634	pounds per megawatt hour
CH ₄ : ³	0.029	pound per megawatt hour
N ₂ O: ³	0.00617	pound per megawatt hour

¹ Based on CO₂e intensity factor of 534 pounds per megawatt hour; Southern California Edison. 2020. 2019 Sustainability Report.

<https://www.edison.com/content/dam/eix/documents/sustainability/eix-2019-sustainability-report.pdf>.

² Based on Intergovernmental Panel on Climate Change Fourth Assessment Report global warming potentials for CH₄ and N₂O; Intergovernmental Panel on Climate Change (IPCC). 2007. Fourth Assessment Report: Climate Change 2007.

³ CalEEMod default values.

General Conversion Factors

lbs to kg	0.4536
kg to MTons	0.001
Mmbtu to Therm	0.1
Therms to kwh	29.30711111
kilowatt hrs to megawatt hrs	0.001
lbs to Tons	2000
Tons to Mton	0.9071847

Source: California Air Resources Board (CARB). 2010. Local Government Operations Protocol. Version 1.1. Appendix F, Standard Conversion Factors

Global Warming Potentials (GWP)

CO ₂	1
CH ₄	25
N ₂ O	298

Based on Intergovernmental Panel on Climate Change Fourth Assessment Report global warming potentials for CH₄ and N₂O; Intergovernmental Panel on Climate Change (IPCC). 2007. Fourth Assessment Report: Climate Change 2007.

CalEEMod Land Use Inputs: Project

Type	Land Use Type	Land Use Unit Amount	Land Use Size Metric	Lot Acreage	Land Use Square Feet
Residential	Mid-Rise Apartment	138	DU	0	156,525
Retail	Supermarket	23.000	1000BSF	0.53	23,000
Recreational	Fast Food w/o Drivethru	2.000	1000BSF	0.05	2,000
Parking	Parking Structure	99.915	1000BSF	0.43	99,915
Parking	Other Asphalt Surfaces		acre		
Parking	Other NonAsphalt Surfaces	25.398	1000BSF	0.58	25,398
				1.59	306,838.00

Project Location: Los Angeles SC
 Climate Zone: 9
 Operation Year: 2023
 Land Use Setting: Urban
 Utility Company: SCE
 Source Receptor Area: 4 - South Coast LA

Trip Generation

Land Use	Unit Amount	Weekday Trip				Net Trips	Adjust Trip Rates	Primary (%)	Diverted (%)	Pass-By Rate (%)
		Generation Rate*	Trips Per Day	Internal Capture						
Mid-Rise Apartment	138	5.44	751	-60.0576	691	5.0048	86%	11%	3%	
Supermarket	23.000	106.78	2,456	-196.4752	2,259	98.2376	34%	30%	36%	
Fast Food w/o Drivethru	2.000	315.17	630	-50.4272	580	289.9564	51%	37%	12%	
			3,837	(307)	3,530					
Land Use	Unit Amount	Saturday Trip				Net Trips	Adjust Trip Rates	Primary (%)	Diverted (%)	Pass-By Rate (%)
		Generation Rate**	Trips Per Day	Internal Capture						
Mid-Rise Apartment	138	4.91	678	-54.2064	623	4.5172	86%	11%	3%	
Supermarket	23.000	177.62	4,085	-326.8208	3,758	163.4104	34%	30%	36%	
Fast Food w/o Drivethru	2.000	318.62	637	-50.9792	586	293.1304	51%	37%	12%	
			5,400	(432)	4,968					
Land Use	Unit Amount	Sunday Trip				Net Trips	Adjust Trip Rates	Primary (%)	Diverted (%)	Pass-By Rate (%)
		Generation Rate**	Trips Per Day	Internal Capture						
Mid-Rise Apartment	138	4.09	564	-45.1536	519	3.7628	86%	11%	3%	
Supermarket	23.000	166.47	3,829	-306.3048	3,523	153.1524	34%	30%	36%	
Fast Food w/o Drivethru***	2.000	421.82	844	-67.4912	776	388.0744	51%	37%	12%	
			5,237	(419)	4,818					

*Based on information provided by Fehr & Peers. 2020, June 17. 201 W. Pacific Coast Highway Traffic Assessment.

**Institute of Traffic Engineers. 2017. Trip Generation Manual, 10th Edition.

***Based Fast-Food Restaurant without Drive-Through Window (ITE Code 933) since no Sunday data provided for Fast Casual Restaurant (ITE Code 930) in the ITE Handbook.

Water Use*

Water Demand			
Land Use	Indoor ³	Outdoor ³	Total
Mid-Rise Apartment	8,991,255.54	5,668,400.23	14,659,655.77
Supermarket	2,835,168.94	87,685.64	2,922,854.58
Fast Food w/o Drivethru	607,067.42	38,748.98	645,816.40
Total	12,433,492	5,794,835	18,228,327

*CalEEMod defaults

Solid Waste*

Solid Waste Generation	
Land Use	Annual Solid Waste Generated (tpy) ³
Mid-Rise Apartment	63.48
Supermarket	129.72
Fast Food w/o Drivethru	23.04
Total	216

*CalEEMod defaults

Electricity (Buildings)

Buildings constructed after January 1, 2020 are required to meet the 2019 Building Energy Efficiency Standards, which are result in 7 percent more energy efficiency for single-family uses compared to the 2016 Building Energy Efficiency Standards.

Architectural Coating*

*Assumes paints with a VOC content of .10 g/L per Mitigation Measure AQ-3 of the Certified MidTown Specific Plan EIR.

Land Use	Land Use Amount (BSF)	CalEEMod Paintable Surface Area Multiplier*	Total Paintable Surface Area (BSF)	Total Paintable Interior Surface Area (BSF)*	Total Paintable Exterior Surface Area (BSF)*
Mid-Rise Apartment	156,525	2.7	422,618	316,963	105,654
Supermarket	23,000	2.0	46,000	34,500	11,500
Fast Food w/o Drivethru	2,000	2.0	4,000	3,000	1,000
Non-Residential Sub-Total			37,500	37,500	12,500
Parking Lot	99,915	6%	5,995	0	5,995

*Based on CalEEMod methodology in calculating the paintable surface areas for a residential building and surface parking lot.

Hearths

	Dwelling Units with Gas Fireplace	Dwelling Units W/O Fireplace*
Apartments Mid Rise	0	138

* Assumed no fireplaces for multi-family dwellings based on SCAQMD Rule 445, Wood-Burning Devices.

Carbon Intensity Factors

Southern California Edison Carbon Intensity Factors

SCE CO ₂ e Intensity Factor ¹	534	pounds per megawatt hour
CO ₂ : ^{1,2}	531.43634	pounds per megawatt hour
CH ₄ : ³	0.029	pound per megawatt hour
N ₂ O: ³	0.00617	pound per megawatt hour

¹ Based on CO₂e intensity factor of 534 pounds per megawatt hour; Southern California Edison. 2020. 2019 Sustainability Report. <https://www.edison.com/content/dam/eix/documents/sustainability/eix-2019-sustainability-report.pdf>.

² Based on Intergovernmental Panel on Climate Change Fourth Assessment Report global warming potentials for CH₄ and N₂O; Intergovernmental Panel on Climate Change (IPCC). 2007. Fourth Assessment Report: Climate Change 2007.

³ CalEEMod default values.

General Conversion Factors

lbs to kg	0.4536
kg to MTons	0.001
Mmbtu to Therm	0.1
Therms to kwh	29.30711111
kilowatt hrs to megawatt hrs	0.001
lbs to Tons	2000
Tons to MTon	0.9071847

Source: California Air Resources Board (CARB). 2010. Local Government Operations Protocol. Version 1.1. Appendix F, Standard Conversion Factors

Global Warming Potentials (GWP)

CO ₂	1
CH ₄	25
N ₂ O	298

Based on Intergovernmental Panel on Climate Change Fourth Assessment Report global warming potentials for CH₄ and N₂O; Intergovernmental Panel on Climate Change (IPCC). 2007. Fourth Assessment Report: Climate Change 2007.

Demolition

Building Demolition

Empty Building	2,950	BSF
Existing Market	9,100	BSF
Total	12,050	BSF
Tons	554	tons

Asphalt Demolition

Square feet	39,131	BSF
Tons	580	tons
Total Tons	1,134	tons

Construction Activities and Schedule Assumptions*

* Based on CalEEMod defaults.

Construction Activities	Construction Schedule		
	Start Date	End Date	Duration (Work Days)
Demolition	7/18/2020	8/14/2020	20
Site Preparation	8/15/2020	8/18/2020	2
Grading	8/19/2020	8/24/2020	4
Building Construction	8/25/2020	5/31/2021	200
Paving	6/1/2021	6/14/2021	10
Architectural Coating	6/15/2021	6/28/2021	10

Construction Equipment Mix*

Equipment	Pieces of Equipment	Hrs Op	HP	LF	Worker Trips/Day	CalEEMod Vendor
Demolition					Default	Default+4
Concrete/Industrial Saws	1	8	81	0.73		
Rubber Tired Dozers	1	8	247	0.40		
Tractors/Loaders/Backhoes	3	8	97	0.37		
Water truck**	1					4
Site Preparation					Default	Default+4
Graders	1	8	187	0.41		
Rubber Tired Dozers	1	7	247	0.40		
Tractors/Loaders/Backhoes	1	8	97	0.37		
Water truck**	1					4
Grading					Default	Default+4
Graders	1	6	187	0.41		
Rubber Tired Dozers	1	6	247	0.40		
Tractors/Loaders/Backhoes	1	7	97	0.37		
Water truck	1					4
Building Construction					Default	Default
Cranes	1	6	231	0.29		
Forklifts	1	6	89	0.20		
Generator Sets	1	8	84	0.74		
Tractors/Loaders/Backhoes	1	6	97	0.37		
Welders	3	8	46	0.45		
Asphalt Paving					Default	Default
Cement and Mortar Mixers	1	6	9	0.56		
Pavers	1	6	130	0.42		
Paving Equipment	1	8	132	0.36		
Rollers	1	7	80	0.38		
Tractors/Loaders/Backhoes	1	8	97	0.37		
Architectural Coating					Default	Default
Air Compressors	1	6	78	0.48		

*CalEEMod default unless otherwise noted.

**Assumes water truck and four trips per day for the water truck.

Changes to the CalEEMod Defaults - Year 2023

Total ADTs: 3,530

Commercial Default	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH	
FleetMix (Model Default)	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862	100%
Trips	1,927	158	725	421	54	22	72	111	9	8	18	2	3	3,530
Percent	94%					3%		3%						100%
Proportion Assumed Mix	0.583321	0.047842	0.219384	0.127510	0.016404	0.189156	0.621507	1.000000	0.077339	0.064793	0.005540	0.021021	0.026185	100.00%
	99.00%					0.50%		0.50%						
adjusted with Assumed	0.577488	0.047363	0.217190	0.126235	0.016240	0.000946	0.003108	0.005000	0.000387	0.000324	0.005485	0.000105	0.000131	100%
Trips	2,039	167	767	446	57	3	11	18	1	1	19	0	0	3,530
	58%	5%	22%	13%	2%	0%	0%	1%	0%	0%	1%	0%	0%	100%
Modified	0.577488	0.047363	0.217190	0.126235	0.016240	0.000946	0.003108	0.005000	0.000387	0.000324	0.005485	0.000105	0.000131	100.0%
Final Check Trips	2,039	167	767	446	57	3	11	18	1	1	19	0	0	3,530

Summer	CO_RUNEX	0.942954	1.9889565	1.3461486	1.7502113	0.8654659	0.580029951	0.877261414	0.784582127	1.2564612	42.74362	18.944965	0.6842365	0.3081721
Summer	CO_STREX	1.9025438	2.0775737	2.437517	2.9688759	1.2166054	0.853178121	1.546571358	0.010676891	2.3993846	0.6271297	7.7295271	0.7035641	0
Summer	CO2_NBIO_IDLEX	0	0	0	0	8.9621693	13.42256787	71.6641988	1147.089702	99.60592	0	0	363.0037	0
Summer	CO2_NBIO_RUNEX	299.35288	349.17412	380.44271	462.7683	695.37767	698.0280099	1130.517778	1557.296285	1457.5602	1985.0986	221.93776	1133.355	992.05348
Summer	CO2_NBIO_STREX	55.836787	66.25641	72.89916	88.67189	13.33002	10.53759657	12.72009555	0.112929817	19.641499	8.5950303	58.431353	4.9546515	0
Summer	NOX_IDLEX	0	0	0	0	0.0535158	0.089881596	0.632329564	6.312287403	0.7156144	0	0	3.4358631	0
Summer	NOX_RUNEX	0.0471865	0.1395881	0.1001953	0.1392736	0.7581272	1.018372359	2.576398983	4.371148591	2.3562847	1.2026542	0.9902538	4.9331883	3.63764
Summer	NOX_STREX ³	0.1939913	0.2820081	0.3194518	0.3919492	0.3620631	0.257810129	0.993058968	1.75493382	0.6094974	0.0798132	0.249366	0.7937447	0
Summer	PM10_IDLEX	0	0	0	0	0.0006753	0.001174191	0.001885816	0.012252105	0.0028372	0	0	0.0041305	0
Summer	PM10_PMBW	0.03675	0.03675	0.03675	0.03675	0.07644	0.089180026	0.130340037	0.061041559	0.13034	0.0726803	0.01176	0.7448002	0.13034
Summer	PM10_PMTW	0.008	0.008	0.008	0.008	0.0095182	0.010396907	0.012000003	0.035579073	0.012	0.0318756	0.004	0.0107491	0.016
Summer	PM10_RUNEX	0.002047	0.003245	0.002138	0.0023869	0.0069407	0.010687595	0.074904569	0.060283049	0.0532838	0.0036952	0.0023146	0.031878	0.091837
Summer	PM10_STREX	0.0020733	0.0030811	0.0020991	0.0023461	0.0003336	0.000191487	0.000154926	2.8198E-06	0.000199	3.639E-05	0.0034455	4.535E-05	0
Summer	PM25_IDLEX	0	0	0	0	0.0006461	0.001123396	0.001804236	0.011722085	0.0027145	0	0	0.0039518	0
Summer	PM25_PMBW	0.01575	0.01575	0.01575	0.01575	0.03276	0.038220011	0.055860016	0.026160668	0.05586	0.0311487	0.00504	0.3192001	0.05586
Summer	PM25_PMTW	0.002	0.002	0.002	0.002	0.0023796	0.002599227	0.003000001	0.008894768	0.003	0.0079689	0.001	0.0026873	0.004
Summer	PM25_RUNEX	0.0018863	0.0029867	0.0019677	0.0022023	0.0066075	0.010205891	0.071657144	0.057675185	0.0509641	0.0035328	0.0021659	0.0304862	0.0878642
Summer	PM25_STREX	0.0019065	0.0028333	0.0019301	0.0021597	0.0003072	0.000176065	0.000142449	2.61362E-06	0.0001831	3.346E-05	0.0032508	4.17E-05	0
Summer	ROG_DIURN	0.0953444	0.2369288	0.1247601	0.1434717	0.0043916	0.002805009	0.001206888	1.66712E-05	0.00269	0.0008898	1.745976	0.0013452	0
Summer	ROG_HTSK	0.1195759	0.2479078	0.1448012	0.1626543	0.0959215	0.066336853	0.031935569	0.000452343	0.0225083	0.0078714	0.7470017	0.0081038	0
Summer	ROG_IDLEX	0	0	0	0	0.0241018	0.019469199	0.023717212	0.478944965	0.067697	0	0	0.3078087	0
Summer	ROG_RESTL	0.0797138	0.1770017	0.1113125	0.1333621	0.0024685	0.001579756	0.000710135	1.13886E-05	0.0013038	0.0006206	1.0947567	0.0006591	0
Summer	ROG_RUNEX	0.0174387	0.0486604	0.0283385	0.0464091	0.058868	0.058441244	0.149032253	0.15387963	0.1455585	0.1559029	2.5769202	0.1044981	0.0739241
Summer	ROG_RUNLS	0.2178194	0.7619195	0.4131507	0.4403536	0.6214572	0.422854988	0.161619417	0.002254628	0.2541014	0.0427012	2.031064	0.0512502	0
Summer	ROG_STREX	0.2430254	0.3922006	0.3375591	0.4389275	0.0934388	0.065888411	0.071536582	2.7448E-06	0.1175011	0.0437507	1.6250491	0.0316753	0
Summer	SO2_IDLEX	0	0	0	0	8.726E-05	0.000128927	0.000681162	0.010672051	0.0009473	0	0	0.0034613	0
Summer	SO2_RUNEX	0.0029615	0.0034553	0.0037639	0.004576	0.006801	0.00676722	0.010810527	0.014252539	0.0141101	0.0014781	0.0021963	0.0108319	0.0093785
Summer	SO2_STREX	0.0005526	0.0006557	0.0007214	0.0008775	0.0001319	0.000104278	0.000125876	1.11753E-06	0.0001944	8.505E-05	0.0005782	4.903E-05	0
Summer	TOG_DIURN	0.0953444	0.2369288	0.1247601	0.1434717	0.0043916	0.002805009	0.001206888	1.66712E-05	0.00269	0.0008898	1.745976	0.0013452	0
Summer	TOG_HTSK	0.1195759	0.2479078	0.1448012	0.1626543	0.0959215	0.066336853	0.031935569	0.000452343	0.0225083	0.0078714	0.7470017	0.0081038	0
Summer	TOG_IDLEX	0	0	0	0	0.0343104	0.026967338	0.031768156	0.550846128	0.08577	0	0	0.4416786	0
Summer	TOG_RESTL	0.0797138	0.1770017	0.1113125	0.1333621	0.0024685	0.001579756	0.000710135	1.13886E-05	0.0013038	0.0006206	1.0947567	0.0006591	0
Summer	TOG_RUNEX	0.0253544	0.0708928	0.0412697	0.0642849	0.076316	0.071013049	0.175071972	0.252148601	0.1766358	6.4241804	3.1846151	0.1255835	0.0841576
Summer	TOG_RUNLS	0.2178194	0.7619195	0.4131507	0.4403536	0.6214572	0.422854988	0.161619417	0.002254628	0.2541014	0.0427012	2.031064	0.0512502	0
Summer	TOG_STREX	0.2660797	0.4294066	0.3695832	0.4805001	0.1022872	0.072139517	0.078323553	3.00521E-06	0.128639	0.0479015	1.7684096	0.0346805	0

Winter	CH4_IDLEX	0	0	0	0	0.0061081	0.004378579	0.004842587	0.020419006	0.0090689	0	0	0.0656817	0
Winter	CH4_RUNEX	0.0039296	0.010035	0.0062016	0.0090788	0.0072362	0.005032015	0.009446957	0.006941381	0.0120776	6.2198037	0.3850485	0.0079428	0.0034336
Winter	CH4_STREX	0.0598619	0.0875995	0.0808168	0.09899	0.0195529	0.013848049	0.013715046	5.46514E-07	0.0232793	0.0110727	0.2425477	0.0063035	0
Winter	CO_IDLEX	0	0	0	0	0.1970035	0.159214191	0.509805745	5.778100962	0.6586724	0	0	2.7324521	0
Winter	CO_RUNEX	0.8308537	1.781604	1.1937065	1.5892081	0.8475862	0.571081502	0.86522268	0.604268269	1.2333058	42.743006	19.903262	0.6715229	0.3081721
Winter	CO_STREX	2.3078684	2.5317599	2.9601659	3.602144	1.2835636	0.900172719	1.644415873	0.011352817	2.565479	0.7294941	8.6096122	0.892323	0
Winter	CO2_NBIO_IDLEX	0	0	0	0	8.9621693	13.42256787	67.7972226	1127.637331	96.741393	0	0	341.90986	0
Winter	CO2_NBIO_RUNEX	282.09898	331.5689	362.7545	444.14438	695.34513	698.0121206	1130.496468	1508.512564	1457.5193	1985.0975	223.76219	1133.3323	992.05348
Winter	CO2_NBIO_STREX	56.600246	67.180185	73.896055	89.8969	13.450765	10.62230595	12.88726259	0.114001674	19.925243	8.77168	60.677201	5.2697207	0
Winter	NOX_IDLEX	0	0	0	0	0.0535158	0.089881596	0.609575384	6.525561244	0.7024295	0	0	3.2501297	0
Winter	NOX_RUNEX	0.0520801	0.1553878	0.1109883	0.1543677	0.7951783	1.061254592	2.683806455	4.482790982	2.4643782	1.2045217	1.1071949	5.1377298	3.7789442
Winter	NOX_STREX ³	0.2129777	0.3095365	0.3506982	0.4302422	0.381479	0.271628917	0.999652549	1.755042357	0.6226227	0.0843001	0.2664458	0.7980324	0
Winter	PM10_IDLEX	0	0	0	0	0.0006753	0.001174191	0.002715622	0.013872359	0.004082	0	0	0.0059422	0
Winter	PM10_PMBW	0.03675	0.03675	0.03675	0.03675	0.07644	0.089180026	0.130340037	0.060185438	0.13034	0.0726803	0.01176	0.7448002	0.13034
Winter	PM10_PMTW	0.008	0.008	0.008	0.008	0.0095182	0.010396907	0.012000003	0.035079877	0.012	0.0318756	0.004	0.0107491	0.016
Winter	PM10_RUNEX	0.002047	0.003245	0.002138	0.0023869	0.0069407	0.010687595	0.074904569	0.060169613	0.0532838	0.0036952	0.0023146	0.031878	0.091837
Winter	PM10_STREX	0.0020733	0.0030811	0.0020991	0.0023461	0.0003336	0.000191487	0.000154926	2.8198E-06	0.000199	3.639E-05	0.0034455	4.535E-05	0
Winter	PM25_IDLEX	0	0	0	0	0.0006461	0.001123396	0.002598146	0.013272247	0.0039054	0	0	0.0056851	0
Winter	PM25_PMBW	0.01575	0.01575	0.01575	0.01575	0.03276	0.038220011	0.055860016	0.025793759	0.05586	0.0311487	0.00504	0.3192001	0.05586
Winter	PM25_PMTW	0.002	0.002	0.002	0.002	0.0023796	0.002599227	0.003000001	0.008769969	0.003	0.0079689	0.001	0.0026873	0.004
Winter	PM25_RUNEX	0.0018863	0.0029867	0.0019677	0.0022023	0.0066075	0.010205891	0.071657144	0.057566656	0.0509641	0.0035328	0.0021659	0.0304862	0.0878642
Winter	PM25_STREX	0.0019065	0.0028333	0.0019301	0.0021597	0.0003072	0.000176065	0.000142449	2.61362E-06	0.0001831	3.346E-05	0.0032508	4.17E-05	0
Winter	ROG_DIURN	0.0608579	0.155245	0.0782728	0.0893946	0.0031701	0.002003834	0.000855196	1.11829E-05	0.0019741	0.0006007	1.1932818	0.0009696	0
Winter	ROG_HTSK	0.125827	0.2691164	0.1517926	0.169645	0.1087842	0.073743363	0.033858071	0.000525338	0.0235602	0.008148	0.8901119	0.008617	0
Winter	ROG_IDLEX	0	0	0	0	0.0241018	0.019469199	0.026558681	0.439615594	0.0687689	0	0	0.3088264	0
Winter	ROG_RESTL	0.0546043	0.1205973	0.0765887	0.0918338	0.001753	0.00110736	0.000492095	7.43312E-06	0.0009195	0.0004279	0.6544677	0.0004594	0
Winter	ROG_RUNEX	0.0161532	0.0454136	0.0263131	0.0444751	0.0579148	0.058045794	0.148515653	0.147609299	0.1445811	0.1558674	2.6627956	0.1038965	0.0739241
Winter	ROG_RUNLS	0.261942	0.9758104	0.5206898	0.5484499	0.6955506	0.47667963	0.183790803	0.002413815	0.2795528	0.0571214	2.4776173	0.0701644	0
Winter	ROG_STREX	0.2790722	0.4529361	0.3877473	0.5048577	0.0977936	0.06893301	0.075134314	2.88284E-06	0.1236009	0.0480391	1.8811136	0.0364039	0
Winter	SO2_IDLEX	0	0	0	0	8.726E-05	0.000128927	0.000644225	0.010653358	0.0009203	0	0	0.003262	0
Winter	SO2_RUNEX	0.0027908	0.003281	0.0035889	0.0043917	0.0068007	0.006767063	0.010810317	0.014252523	0.0141097	0.0014781	0.0022143	0.0108316	0.0093785
Winter	SO2_STREX	0.0005601	0.0006648	0.0007313	0.0008896	0.0001331	0.000105116	0.00012753	1.12814E-06	0.0001972	8.68E-05	0.0006005	5.215E-05	0
Winter	TOG_DIURN	0.0608579	0.155245	0.0782728	0.0893946	0.0031701	0.002003834	0.000855196	1.11829E-05	0.0019741	0.0006007	1.1932818	0.0009696	0
Winter	TOG_HTSK	0.125827	0.2691164	0.1517926	0.169645	0.1087842	0.073743363	0.033858071	0.000525338	0.0235602	0.008148	0.8901119	0.008617	0
Winter	TOG_IDLEX	0	0	0	0	0.0343104	0.026967338	0.035733308	0.50046889	0.0869903	0	0	0.4428372	0
Winter	TOG_RESTL	0.0546043	0.1205973	0.0765887	0.0918338	0.001753	0.00110736	0.000492095	7.43312E-06	0.0009195	0.0004279	0.6544677	0.0004594	0
Winter	TOG_RUNEX	0.0234791	0.0661557	0.0383145	0.0612283	0.0748941	0.07043601	0.174318151	0.168228548	0.1752026	6.4241286	3.2873103	0.1247056	0.0841576
Winter	TOG_RUNLS	0.261942	0.9758104	0.5206898	0.5484499	0.6955506	0.47667963	0.183790803	0.002413815	0.2795528	0.0571214	2.4776173	0.0701644	0
Winter	TOG_STREX	0.3055456	0.4959031	0.4245325	0.5526715	0.107054	0.075472969	0.082262616	3.15635E-06	0.1353169	0.0525968	2.0469656	0.0398577	0

1 Source: California Air Resources Board. EMFAC2017 Web Database. <https://www.arb.ca.gov/emfac/2017/>; California Air Pollution Control Officers Association (CAPCOA). 2017, November. California Emissions Estimator Model User's Guide, Version 2016.3.2, Appendix A.

2 Unless otherwise noted, per CalEEMod methodology, the calculated CalEEMod emission rates are derived from the emission rates obtained using the EMFAC2017 Web Database for the Los Angeles (SC) region.

3 Because EMFAC2017 provides vehicle trips data for MHDT and HHDT diesel trucks, the formula provided in Appendix A of the CalEEMod User's Guide in calculating the NO_x STREX emission rates are utilized.

Winter	CH4_IDLEX	0	0	0	428854.4701	312.1675222	1684.341741	16293150.81	7826.007863	62379.66099	1973069.07	1117.567937	8247.398071	0	
Winter	CH4_RUNEX	0.010073619	0.009689377	0	428854.4701	312.1675222	1684.341741	16293150.81	7826.007863	62379.66099	1973069.07	1117.567937	8247.398071	0.010035033	
Winter	CH4_STREX	0.08801533	0	0	428854.4701	312.1675222	1684.341741	16293150.81	7826.007863	62379.66099	1973069.07	1117.567937	8247.398071	0.087599547	
Winter	CO_IDLEX	1	0	0	428854.4701	312.1675222	1684.341741	16293150.81	7826.007863	62379.66099	1973069.07	1117.567937	8247.398071	0	
Winter	CO_RUNEX	1	1.788697046	1.21524069	0	428854.4701	312.1675222	1684.341741	7826.007863	62379.66099	1973069.07	1117.567937	8247.398071	1.781603991	
Winter	CO_STREX	1	2.543776661	0	0	428854.4701	312.1675222	1684.341741	7826.007863	62379.66099	1973069.07	1117.567937	8247.398071	2.531759928	
Winter	CO2_NBIO_IDLEX	1	0	0	0	428854.4701	312.1675222	1684.341741	16293150.81	7826.007863	62379.66099	1973069.07	1117.567937	0	
Winter	CO2_NBIO_RUNEX	1	332.7686889	476.5827881	0	428854.4701	312.1675222	1684.341741	16293150.81	7826.007863	62379.66099	1973069.07	1117.567937	8247.398071	331.568904
Winter	CO2_NBIO_STREX	1	67.49904885	0	0	428854.4701	312.1675222	1684.341741	16293150.81	7826.007863	62379.66099	1973069.07	1117.567937	8247.398071	67.18018513
Winter	NOX_IDLEX	1	0	0	0	428854.4701	312.1675222	1684.341741	16293150.81	7826.007863	62379.66099	1973069.07	1117.567937	8247.398071	0
Winter	NOX_RUNEX	1	0.155516581	1.125744191	0	428854.4701	312.1675222	1684.341741	16293150.81	7826.007863	62379.66099	1973069.07	1117.567937	8247.398071	0.155387753
Winter	NOX_STREX	1	0.311005665	0	0	428854.4701	312.1675222	1684.341741	16293150.81	7826.007863	62379.66099	1973069.07	1117.567937	8247.398071	0.309536482
Winter	PM10_IDLEX	1	0	0	0	428854.4701	312.1675222	1684.341741	16293150.81	7826.007863	62379.66099	1973069.07	1117.567937	8247.398071	0
Winter	PM10_PMBW	0.036750011	0.036750011	0.036750011	428854.4701	312.1675222	1684.341741	16293150.81	7826.007863	62379.66099	1973069.07	1117.567937	8247.398071	0.036750011	
Winter	PM10_PMTW	0.008000002	0.008000002	0.008000002	428854.4701	312.1675222	1684.341741	16293150.81	7826.007863	62379.66099	1973069.07	1117.567937	8247.398071	0.008000002	
Winter	PM10_RUNEX	1	0.003183512	0.157051198	0	428854.4701	312.1675222	1684.341741	16293150.81	7826.007863	62379.66099	1973069.07	1117.567937	8247.398071	0.003244965
Winter	PM10_STREX	1	0.003095733	0	0	428854.4701	312.1675222	1684.341741	16293150.81	7826.007863	62379.66099	1973069.07	1117.567937	8247.398071	0.003081109
Winter	PM25_IDLEX	1	0	0	0	428854.4701	312.1675222	1684.341741	16293150.81	7826.007863	62379.66099	1973069.07	1117.567937	8247.398071	0
Winter	PM25_PMBW	0.015750005	0.015750005	0.015750005	428854.4701	312.1675222	1684.341741	16293150.81	7826.007863	62379.66099	1973069.07	1117.567937	8247.398071	0.015750005	
Winter	PM25_PMTW	0.002000001	0.002000001	0.002000001	428854.4701	312.1675222	1684.341741	16293150.81	7826.007863	62379.66099	1973069.07	1117.567937	8247.398071	0.002000001	
Winter	PM25_RUNEX	1	0.002927431	0.150257232	0	428854.4701	312.1675222	1684.341741	16293150.81	7826.007863	62379.66099	1973069.07	1117.567937	8247.398071	0.002986734
Winter	PM25_STREX	1	0.002846776	0	0	428854.4701	312.1675222	1684.341741	16293150.81	7826.007863	62379.66099	1973069.07	1117.567937	8247.398071	0.002833328
Winter	ROG_DIURN	0.717576276	0	0.016129757	428854.4701	312.1675222	1684.341741	16293150.81	7826.007863	62379.66099	1973069.07	1117.567937	8247.398071	0.155244995	
Winter	ROG_HTSK	0.270373251	0	0.004888026	428854.4701	312.1675222	1684.341741	16293150.81	7826.007863	62379.66099	1973069.07	1117.567937	8247.398071	0.26911635	
Winter	ROG_IDLEX	0	0	0	0	428854.4701	312.1675222	1684.341741	16293150.81	7826.007863	62379.66099	1973069.07	1117.567937	8247.398071	0
Winter	ROG_RESTL	0.557458161	0	0.004571725	428854.4701	312.1675222	1684.341741	16293150.81	7826.007863	62379.66099	1973069.07	1117.567937	8247.398071	0.120597266	
Winter	ROG_RUNEX	0.045509126	0.208606593	0	0	428854.4701	312.1675222	1684.341741	16293150.81	7826.007863	62379.66099	1973069.07	1117.567937	8247.398071	0.045413642
Winter	ROG_RUNLS	0.980441949	0	0	0	428854.4701	312.1675222	1684.341741	16293150.81	7826.007863	62379.66099	1973069.07	1117.567937	8247.398071	0.975810367
Winter	ROG_STREX	0.455085883	0	0	0	428854.4701	312.1675222	1684.341741	16293150.81	7826.007863	62379.66099	1973069.07	1117.567937	8247.398071	0.452936069
Winter	SO2_IDLEX	0	0	0	0	428854.4701	312.1675222	1684.341741	16293150.81	7826.007863	62379.66099	1973069.07	1117.567937	8247.398071	0
Winter	SO2_RUNEX	0.003293016	0.004505421	0	0	428854.4701	312.1675222	1684.341741	16293150.81	7826.007863	62379.66099	1973069.07	1117.567937	8247.398071	0.003281042
Winter	SO2_STREX	0.000667958	0	0	0	428854.4701	312.1675222	1684.341741	16293150.81	7826.007863	62379.66099	1973069.07	1117.567937	8247.398071	0.000664802
Winter	TOG_DIURN	1	0.717576276	0	0.016129757	428854.4701	312.1675222	1684.341741	16293150.81	7826.007863	62379.66099	1973069.07	1117.567937	8247.398071	0.155244995
Winter	TOG_HTSK	1	0.270373251	0	0.004888026	428854.4701	312.1675222	1684.341741	16293150.81	7826.007863	62379.66099	1973069.07	1117.567937	8247.398071	0.26911635
Winter	TOG_IDLEX	1	0	0	0	428854.4701	312.1675222	1684.341741	16293150.81	7826.007863	62379.66099	1973069.07	1117.567937	8247.398071	0
Winter	TOG_RESTL	1	0.557458161	0	0.004571725	428854.4701	312.1675222	1684.341741	16293150.81	7826.007863	62379.66099	1973069.07	1117.567937	8247.398071	0.120597266
Winter	TOG_RUNEX	1	0.066326661	0.237484737	0	428854.4701	312.1675222	1684.341741	16293150.81	7826.007863	62379.66099	1973069.07	1117.567937	8247.398071	0.066155672
Winter	TOG_RUNLS	1	0.980441949	0	0	428854.4701	312.1675222	1684.341741	16293150.81	7826.007863	62379.66099	1973069.07	1117.567937	8247.398071	0.975810367
Winter	TOG_STREX	1	0.49825681	0	0	428854.4701	312.1675222	1684.341741	16293150.81	7826.007863	62379.66099	1973069.07	1117.567937	8247.398071	0.495903061

Winter	CH4_IDLEX	0	0	0	1322602.473	7131.093038	8029.10038	51063337.64	318825.7868	273177.1123	6195500.594	35395.58403	40766.95908	0
Winter	CH4_RUNEX	0.006266364	0.001135669	0	1322602.473	7131.093038	8029.10038	51063337.64	318825.7868	273177.1123	6195500.594	35395.58403	40766.95908	0.006201557
Winter	CH4_STREX	0.081810268	0	0	1322602.473	7131.093038	8029.10038	51063337.64	318825.7868	273177.1123	6195500.594	35395.58403	40766.95908	0.080816771
Winter	CO_IDLEX	1	0	0	1322602.473	7131.093038	8029.10038	51063337.64	318825.7868	273177.1123	6195500.594	35395.58403	40766.95908	0
Winter	CO_RUNEX	1	1.206378606	0.186933238	0	1322602.473	7131.093038	8029.10038	51063337.64	318825.7868	273177.1123	6195500.594	35395.58403	1.193706528
Winter	CO_STREX	1	2.996555776	0	0	1322602.473	7131.093038	8029.10038	51063337.64	318825.7868	273177.1123	6195500.594	35395.58403	2.960165858
Winter	CO2_NBIO_IDLEX	1	0	0	0	1322602.473	7131.093038	8029.10038	51063337.64	318825.7868	273177.1123	6195500.594	35395.58403	0
Winter	CO2_NBIO_RUNEX	1	365.0272513	309.5651916	0	1322602.473	7131.093038	8029.10038	51063337.64	318825.7868	273177.1123	6195500.594	35395.58403	362.7544984
Winter	CO2_NBIO_STREX	1	74.80447407	0	0	1322602.473	7131.093038	8029.10038	51063337.64	318825.7868	273177.1123	6195500.594	35395.58403	73.89605491
Winter	NOX_IDLEX	1	0	0	0	1322602.473	7131.093038	8029.10038	51063337.64	318825.7868	273177.1123	6195500.594	35395.58403	0
Winter	NOX_RUNEX	1	0.111932388	0.054881042	0	1322602.473	7131.093038	8029.10038	51063337.64	318825.7868	273177.1123	6195500.594	35395.58403	0.110988307
Winter	NOX_STREX	1	0.355009355	0	0	1322602.473	7131.093038	8029.10038	51063337.64	318825.7868	273177.1123	6195500.594	35395.58403	0.350698152
Winter	PM10_IDLEX	1	0	0	0	1322602.473	7131.093038	8029.10038	51063337.64	318825.7868	273177.1123	6195500.594	35395.58403	0
Winter	PM10_PMBW	0.036750011	0.036750011	0.036750011	1322602.473	7131.093038	8029.10038	51063337.64	318825.7868	273177.1123	6195500.594	35395.58403	40766.95908	0.036750011
Winter	PM10_PMTW	0.008000002	0.008000002	0.008000002	1322602.473	7131.093038	8029.10038	51063337.64	318825.7868	273177.1123	6195500.594	35395.58403	40766.95908	0.008000002
Winter	PM10_RUNEX	1	0.002115505	0.007569909	0	1322602.473	7131.093038	8029.10038	51063337.64	318825.7868	273177.1123	6195500.594	35395.58403	0.002137983
Winter	PM10_STREX	1	0.002124858	0	0	1322602.473	7131.093038	8029.10038	51063337.64	318825.7868	273177.1123	6195500.594	35395.58403	0.002099054
Winter	PM25_IDLEX	1	0	0	0	1322602.473	7131.093038	8029.10038	51063337.64	318825.7868	273177.1123	6195500.594	35395.58403	0
Winter	PM25_PMBW	0.015750005	0.015750005	0.015750005	1322602.473	7131.093038	8029.10038	51063337.64	318825.7868	273177.1123	6195500.594	35395.58403	40766.95908	0.015750005
Winter	PM25_PMTW	0.002000001	0.002000001	0.002000001	1322602.473	7131.093038	8029.10038	51063337.64	318825.7868	273177.1123	6195500.594	35395.58403	40766.95908	0.002000001
Winter	PM25_RUNEX	1	0.001945245	0.007242438	0	1322602.473	7131.093038	8029.10038	51063337.64	318825.7868	273177.1123	6195500.594	35395.58403	0.001967653
Winter	PM25_STREX	1	0.001953865	0	0	1322602.473	7131.093038	8029.10038	51063337.64	318825.7868	273177.1123	6195500.594	35395.58403	0.001930137
Winter	ROG_DIURN	0.371064678	0	0.016129757	1322602.473	7131.093038	8029.10038	51063337.64	318825.7868	273177.1123	6195500.594	35395.58403	40766.95908	0.078272789
Winter	ROG_HTSK	0.153626404	0	0.004888026	1322602.473	7131.093038	8029.10038	51063337.64	318825.7868	273177.1123	6195500.594	35395.58403	40766.95908	0.151792551
Winter	ROG_IDLEX	0	0	0	1322602.473	7131.093038	8029.10038	51063337.64	318825.7868	273177.1123	6195500.594	35395.58403	40766.95908	0
Winter	ROG_RESTL	0.363149237	0	0.004571725	1322602.473	7131.093038	8029.10038	51063337.64	318825.7868	273177.1123	6195500.594	35395.58403	40766.95908	0.076588741
Winter	ROG_RUNEX	0.026465532	0.024450284	0	1322602.473	7131.093038	8029.10038	51063337.64	318825.7868	273177.1123	6195500.594	35395.58403	40766.95908	0.026313132
Winter	ROG_RUNLS	0.527090783	0	0	1322602.473	7131.093038	8029.10038	51063337.64	318825.7868	273177.1123	6195500.594	35395.58403	40766.95908	0.520689837
Winter	ROG_STREX	0.392514001	0	0	1322602.473	7131.093038	8029.10038	51063337.64	318825.7868	273177.1123	6195500.594	35395.58403	40766.95908	0.387747344
Winter	SO2_IDLEX	0	0	0	1322602.473	7131.093038	8029.10038	51063337.64	318825.7868	273177.1123	6195500.594	35395.58403	40766.95908	0
Winter	SO2_RUNEX	0.003612241	0.002926504	0	1322602.473	7131.093038	8029.10038	51063337.64	318825.7868	273177.1123	6195500.594	35395.58403	40766.95908	0.003588905
Winter	SO2_STREX	0.000740251	0	0	1322602.473	7131.093038	8029.10038	51063337.64	318825.7868	273177.1123	6195500.594	35395.58403	40766.95908	0.000731261
Winter	TOG_DIURN	1	0.371064678	0.016129757	1322602.473	7131.093038	8029.10038	51063337.64	318825.7868	273177.1123	6195500.594	35395.58403	40766.95908	0.078272789
Winter	TOG_HTSK	1	0.153626404	0.004888026	1322602.473	7131.093038	8029.10038	51063337.64	318825.7868	273177.1123	6195500.594	35395.58403	40766.95908	0.151792551
Winter	TOG_IDLEX	1	0	0	1322602.473	7131.093038	8029.10038	51063337.64	318825.7868	273177.1123	6195500.594	35395.58403	40766.95908	0
Winter	TOG_RESTL	1	0.363149237	0.004571725	1322602.473	7131.093038	8029.10038	51063337.64	318825.7868	273177.1123	6195500.594	35395.58403	40766.95908	0.076588741
Winter	TOG_RUNEX	1	0.038584922	0.027835023	0	1322602.473	7131.093038	8029.10038	51063337.64	318825.7868	273177.1123	6195500.594	35395.58403	0.038314517
Winter	TOG_RUNLS	1	0.527090783	0	0	1322602.473	7131.093038	8029.10038	51063337.64	318825.7868	273177.1123	6195500.594	35395.58403	0.520689837
Winter	TOG_STREX	1	0.42975136	0	0	1322602.473	7131.093038	8029.10038	51063337.64	318825.7868	273177.1123	6195500.594	35395.58403	0.4245325

Winter	CH4_IDLEX	0	0	0	900366.1975	15733.02459	2547.8702	32167365.31	651825.9359	89339.97409	4164561.993	77845.5286	13052.63635	0
Winter	CH4_RUNEX	0.009270126	0.000882706	0	900366.1975	15733.02459	2547.8702	32167365.31	651825.9359	89339.97409	4164561.993	77845.5286	13052.63635	0.009078828
Winter	CH4_STREX	0.101150653	0	0	900366.1975	15733.02459	2547.8702	32167365.31	651825.9359	89339.97409	4164561.993	77845.5286	13052.63635	0.098990038
Winter	CO_IDLEX	1	0	0	900366.1975	15733.02459	2547.8702	32167365.31	651825.9359	89339.97409	4164561.993	77845.5286	13052.63635	0
Winter	CO_RUNEX	1	1.6198604	0.294349223	0	900366.1975	15733.02459	2547.8702	32167365.31	651825.9359	89339.97409	4164561.993	77845.5286	1.58920814
Winter	CO_STREX	1	3.680766499	0	0	900366.1975	15733.02459	2547.8702	32167365.31	651825.9359	89339.97409	4164561.993	77845.5286	3.602143998
Winter	CO2_NBIO_IDLEX	1	0	0	0	900366.1975	15733.02459	2547.8702	32167365.31	651825.9359	89339.97409	4164561.993	77845.5286	0
Winter	CO2_NBIO_RUNEX	1	446.2493378	401.1402375	0	900366.1975	15733.02459	2547.8702	32167365.31	651825.9359	89339.97409	4164561.993	77845.5286	444.1443765
Winter	CO2_NBIO_STREX	1	91.85904205	0	0	900366.1975	15733.02459	2547.8702	32167365.31	651825.9359	89339.97409	4164561.993	77845.5286	89.89689975
Winter	NOX_IDLEX	1	0	0	0	900366.1975	15733.02459	2547.8702	32167365.31	651825.9359	89339.97409	4164561.993	77845.5286	0
Winter	NOX_RUNEX	1	0.15666179	0.062310502	0	900366.1975	15733.02459	2547.8702	32167365.31	651825.9359	89339.97409	4164561.993	77845.5286	0.15436765
Winter	NOX_STREX	1	0.439632914	0	0	900366.1975	15733.02459	2547.8702	32167365.31	651825.9359	89339.97409	4164561.993	77845.5286	0.430242196
Winter	PM10_IDLEX	1	0	0	0	900366.1975	15733.02459	2547.8702	32167365.31	651825.9359	89339.97409	4164561.993	77845.5286	0
Winter	PM10_PMBW	0.036750011	0.036750011	0.036750011	900366.1975	15733.02459	2547.8702	32167365.31	651825.9359	89339.97409	4164561.993	77845.5286	13052.63635	0.036750011
Winter	PM10_PMTW	0.008000002	0.008000002	0.008000002	900366.1975	15733.02459	2547.8702	32167365.31	651825.9359	89339.97409	4164561.993	77845.5286	13052.63635	0.008000002
Winter	PM10_RUNEX	1	0.002303292	0.006837808	0	900366.1975	15733.02459	2547.8702	32167365.31	651825.9359	89339.97409	4164561.993	77845.5286	0.002386855
Winter	PM10_STREX	1	0.002397292	0	0	900366.1975	15733.02459	2547.8702	32167365.31	651825.9359	89339.97409	4164561.993	77845.5286	0.002346085
Winter	PM25_IDLEX	1	0	0	0	900366.1975	15733.02459	2547.8702	32167365.31	651825.9359	89339.97409	4164561.993	77845.5286	0
Winter	PM25_PMBW	0.015750005	0.015750005	0.015750005	900366.1975	15733.02459	2547.8702	32167365.31	651825.9359	89339.97409	4164561.993	77845.5286	13052.63635	0.015750005
Winter	PM25_PMTW	0.002000001	0.002000001	0.002000001	900366.1975	15733.02459	2547.8702	32167365.31	651825.9359	89339.97409	4164561.993	77845.5286	13052.63635	0.002000001
Winter	PM25_RUNEX	1	0.002120522	0.006542007	0	900366.1975	15733.02459	2547.8702	32167365.31	651825.9359	89339.97409	4164561.993	77845.5286	0.002202342
Winter	PM25_STREX	1	0.002206833	0	0	900366.1975	15733.02459	2547.8702	32167365.31	651825.9359	89339.97409	4164561.993	77845.5286	0.002159694
Winter	ROG_DIURN	0.422465845	0	0.016129757	900366.1975	15733.02459	2547.8702	32167365.31	651825.9359	89339.97409	4164561.993	77845.5286	13052.63635	0.089394578
Winter	ROG_HTSK	0.173332436	0	0.004888026	900366.1975	15733.02459	2547.8702	32167365.31	651825.9359	89339.97409	4164561.993	77845.5286	13052.63635	0.169644986
Winter	ROG_IDLEX	0	0	0	900366.1975	15733.02459	2547.8702	32167365.31	651825.9359	89339.97409	4164561.993	77845.5286	13052.63635	0
Winter	ROG_RESTL	0.434027114	0	0.004571725	900366.1975	15733.02459	2547.8702	32167365.31	651825.9359	89339.97409	4164561.993	77845.5286	13052.63635	0.09183378
Winter	ROG_RUNEX	0.045114744	0.019004134	0	900366.1975	15733.02459	2547.8702	32167365.31	651825.9359	89339.97409	4164561.993	77845.5286	13052.63635	0.044475088
Winter	ROG_RUNLS	0.560420738	0	0	900366.1975	15733.02459	2547.8702	32167365.31	651825.9359	89339.97409	4164561.993	77845.5286	13052.63635	0.548449949
Winter	ROG_STREX	0.51587698	0	0	900366.1975	15733.02459	2547.8702	32167365.31	651825.9359	89339.97409	4164561.993	77845.5286	13052.63635	0.504857661
Winter	SO2_IDLEX	0	0	0	900366.1975	15733.02459	2547.8702	32167365.31	651825.9359	89339.97409	4164561.993	77845.5286	13052.63635	0
Winter	SO2_RUNEX	0.004415999	0.003792218	0	900366.1975	15733.02459	2547.8702	32167365.31	651825.9359	89339.97409	4164561.993	77845.5286	13052.63635	0.004391655
Winter	SO2_STREX	0.00090902	0	0	900366.1975	15733.02459	2547.8702	32167365.31	651825.9359	89339.97409	4164561.993	77845.5286	13052.63635	0.000889603
Winter	TOG_DIURN	1	0.422465845	0	0.016129757	900366.1975	15733.02459	2547.8702	32167365.31	651825.9359	89339.97409	4164561.993	77845.5286	0.089394578
Winter	TOG_HTSK	1	0.173332436	0	0.004888026	900366.1975	15733.02459	2547.8702	32167365.31	651825.9359	89339.97409	4164561.993	77845.5286	0.169644986
Winter	TOG_IDLEX	1	0	0	0	900366.1975	15733.02459	2547.8702	32167365.31	651825.9359	89339.97409	4164561.993	77845.5286	0
Winter	TOG_RESTL	1	0.434027114	0	0.004571725	900366.1975	15733.02459	2547.8702	32167365.31	651825.9359	89339.97409	4164561.993	77845.5286	0.09183378
Winter	TOG_RUNEX	1	0.062200672	0.021634943	0	900366.1975	15733.02459	2547.8702	32167365.31	651825.9359	89339.97409	4164561.993	77845.5286	0.061228317
Winter	TOG_RUNLS	1	0.560420738	0	0	900366.1975	15733.02459	2547.8702	32167365.31	651825.9359	89339.97409	4164561.993	77845.5286	0.548449949
Winter	TOG_STREX	1	0.56473445	0	0	900366.1975	15733.02459	2547.8702	32167365.31	651825.9359	89339.97409	4164561.993	77845.5286	0.552671519

Winter	CH4_IDLEX	0.127893133	0.005098128	0	106029.2685	54529.3851	0	3921730.857	2399173.004	0	1579678.117	685911.0666	0	0.006108086
Winter	CH4_RUNEX	0.009509673	0.003519977	0	106029.2685	54529.3851	0	3921730.857	2399173.004	0	1579678.117	685911.0666	0	0.007236213
Winter	CH4_STREX	0.028042921	0	0	106029.2685	54529.3851	0	3921730.857	2399173.004	0	1579678.117	685911.0666	0	0.019552878
Winter	CO_IDLEX	3.74161954	0.909745076	0	106029.2685	54529.3851	0	3921730.857	2399173.004	0	1579678.117	685911.0666	0	0.19700351
Winter	CO_RUNEX	1.121875915	0.399227471	0	106029.2685	54529.3851	0	3921730.857	2399173.004	0	1579678.117	685911.0666	0	0.847586244
Winter	CO_STREX	1.840898949	0	0	106029.2685	54529.3851	0	3921730.857	2399173.004	0	1579678.117	685911.0666	0	1.28356359
Winter	CO2_NBIO_IDLEX	122.5024704	134.1615423	0	106029.2685	54529.3851	0	3921730.857	2399173.004	0	1579678.117	685911.0666	0	8.962169257
Winter	CO2_NBIO_RUNEX	827.8971669	478.6732026	0	106029.2685	54529.3851	0	3921730.857	2399173.004	0	1579678.117	685911.0666	0	695.345126
Winter	CO2_NBIO_STREX	19.29121395	0	0	106029.2685	54529.3851	0	3921730.857	2399173.004	0	1579678.117	685911.0666	0	13.45076537
Winter	NOX_IDLEX	0.040046542	2.145609522	0	106029.2685	54529.3851	0	3921730.857	2399173.004	0	1579678.117	685911.0666	0	0.053515825
Winter	NOX_RUNEX	0.251552071	1.683799348	0	106029.2685	54529.3851	0	3921730.857	2399173.004	0	1579678.117	685911.0666	0	0.79517828
Winter	NOX_STREX	0.547120738	0	0	106029.2685	54529.3851	0	3921730.857	2399173.004	0	1579678.117	685911.0666	0	0.381478983
Winter	PM10_IDLEX	0	0.028056068	0	106029.2685	54529.3851	0	3921730.857	2399173.004	0	1579678.117	685911.0666	0	0.000675268
Winter	PM10_PMBW	0.076440022	0.076440022	0	106029.2685	54529.3851	0	3921730.857	2399173.004	0	1579678.117	685911.0666	0	0.076440022
Winter	PM10_PMTW	0.008000002	0.012000003	0	106029.2685	54529.3851	0	3921730.857	2399173.004	0	1579678.117	685911.0666	0	0.00951825
Winter	PM10_RUNEX	0.001437107	0.015936872	0	106029.2685	54529.3851	0	3921730.857	2399173.004	0	1579678.117	685911.0666	0	0.006940662
Winter	PM10_STREX	0.000478462	0	0	106029.2685	54529.3851	0	3921730.857	2399173.004	0	1579678.117	685911.0666	0	0.000333607
Winter	PM25_IDLEX	0	0.026842375	0	106029.2685	54529.3851	0	3921730.857	2399173.004	0	1579678.117	685911.0666	0	0.000646056
Winter	PM25_PMBW	0.032760009	0.032760009	0	106029.2685	54529.3851	0	3921730.857	2399173.004	0	1579678.117	685911.0666	0	0.032760009
Winter	PM25_PMTW	0.002000001	0.003000001	0	106029.2685	54529.3851	0	3921730.857	2399173.004	0	1579678.117	685911.0666	0	0.002379562
Winter	PM25_RUNEX	0.001321954	0.01524745	0	106029.2685	54529.3851	0	3921730.857	2399173.004	0	1579678.117	685911.0666	0	0.006607539
Winter	PM25_STREX	0.000440542	0	0	106029.2685	54529.3851	0	3921730.857	2399173.004	0	1579678.117	685911.0666	0	0.000307167
Winter	ROG_DIURN	0.067736334	0	0	106029.2685	54529.3851	0	3921730.857	2399173.004	0	1579678.117	685911.0666	0	0.003170051
Winter	ROG_HTSK	0.156019392	0	0	106029.2685	54529.3851	0	3921730.857	2399173.004	0	1579678.117	685911.0666	0	0.10878425
Winter	ROG_IDLEX	0.458549991	0.109759705	0	106029.2685	54529.3851	0	3921730.857	2399173.004	0	1579678.117	685911.0666	0	0.024101832
Winter	ROG_RESTL	0.037457078	0	0	106029.2685	54529.3851	0	3921730.857	2399173.004	0	1579678.117	685911.0666	0	0.001752986
Winter	ROG_RUNEX	0.04698372	0.075783022	0	106029.2685	54529.3851	0	3921730.857	2399173.004	0	1579678.117	685911.0666	0	0.057914832
Winter	ROG_RUNLS	0.997565132	0	0	106029.2685	54529.3851	0	3921730.857	2399173.004	0	1579678.117	685911.0666	0	0.695550553
Winter	ROG_STREX	0.140256537	0	0	106029.2685	54529.3851	0	3921730.857	2399173.004	0	1579678.117	685911.0666	0	0.097793626
Winter	SO2_IDLEX	0.001212261	0.001268309	0	106029.2685	54529.3851	0	3921730.857	2399173.004	0	1579678.117	685911.0666	0	8.726E-05
Winter	SO2_RUNEX	0.008192714	0.004525183	0	106029.2685	54529.3851	0	3921730.857	2399173.004	0	1579678.117	685911.0666	0	0.00680066
Winter	SO2_STREX	0.000190902	0	0	106029.2685	54529.3851	0	3921730.857	2399173.004	0	1579678.117	685911.0666	0	0.000133106
Winter	TOG_DIURN	0.067736334	0	0	106029.2685	54529.3851	0	3921730.857	2399173.004	0	1579678.117	685911.0666	0	0.003170051
Winter	TOG_HTSK	0.156019392	0	0	106029.2685	54529.3851	0	3921730.857	2399173.004	0	1579678.117	685911.0666	0	0.10878425
Winter	TOG_IDLEX	0.668868416	0.124954127	0	106029.2685	54529.3851	0	3921730.857	2399173.004	0	1579678.117	685911.0666	0	0.034310413
Winter	TOG_RESTL	0.037457078	0	0	106029.2685	54529.3851	0	3921730.857	2399173.004	0	1579678.117	685911.0666	0	0.001752986
Winter	TOG_RUNEX	0.067932308	0.086273932	0	106029.2685	54529.3851	0	3921730.857	2399173.004	0	1579678.117	685911.0666	0	0.074894086
Winter	TOG_RUNLS	0.997565132	0	0	106029.2685	54529.3851	0	3921730.857	2399173.004	0	1579678.117	685911.0666	0	0.695550553
Winter	TOG_STREX	0.153537809	0	0	106029.2685	54529.3851	0	3921730.857	2399173.004	0	1579678.117	685911.0666	0	0.10705397

Winter	CH4_IDLEX	0.128147966	0.005098128	0	17468.88659	21989.92112	0	623231.5341	931838.451	0	260260.3816	276605.5444	0	0.004378579
Winter	CH4_RUNEX	0.007401888	0.003446999	0	17468.88659	21989.92112	0	623231.5341	931838.451	0	260260.3816	276605.5444	0	0.005032015
Winter	CH4_STREX	0.028565799	0	0	17468.88659	21989.92112	0	623231.5341	931838.451	0	260260.3816	276605.5444	0	0.013848049
Winter	CO_IDLEX	3.747889202	0.909745076	0	17468.88659	21989.92112	0	623231.5341	931838.451	0	260260.3816	276605.5444	0	0.159214191
Winter	CO_RUNEX	0.845849659	0.387311257	0	17468.88659	21989.92112	0	623231.5341	931838.451	0	260260.3816	276605.5444	0	0.571081502
Winter	CO_STREX	1.85687909	0	0	17468.88659	21989.92112	0	623231.5341	931838.451	0	260260.3816	276605.5444	0	0.900172719
Winter	CO2_NBIO_IDLEX	141.4709522	215.315884	0	17468.88659	21989.92112	0	623231.5341	931838.451	0	260260.3816	276605.5444	0	13.42256787
Winter	CO2_NBIO_RUNEX	949.8392069	529.5853068	0	17468.88659	21989.92112	0	623231.5341	931838.451	0	260260.3816	276605.5444	0	698.0121206
Winter	CO2_NBIO_STREX	21.9117258	0	0	17468.88659	21989.92112	0	623231.5341	931838.451	0	260260.3816	276605.5444	0	10.62230595
Winter	NOX_IDLEX	0.040176857	2.162468939	0	17468.88659	21989.92112	0	623231.5341	931838.451	0	260260.3816	276605.5444	0	0.089881596
Winter	NOX_RUNEX	0.258422297	1.59820432	0	17468.88659	21989.92112	0	623231.5341	931838.451	0	260260.3816	276605.5444	0	1.061254592
Winter	NOX_STREX	0.560316977	0	0	17468.88659	21989.92112	0	623231.5341	931838.451	0	260260.3816	276605.5444	0	0.271628917
Winter	PM10_IDLEX	0	0.02866692	0	17468.88659	21989.92112	0	623231.5341	931838.451	0	260260.3816	276605.5444	0	0.001174191
Winter	PM10_PMBW	0.089180026	0.089180026	0	17468.88659	21989.92112	0	623231.5341	931838.451	0	260260.3816	276605.5444	0	0.089180026
Winter	PM10_PMTW	0.008000002	0.012000003	0	17468.88659	21989.92112	0	623231.5341	931838.451	0	260260.3816	276605.5444	0	0.010396907
Winter	PM10_RUNEX	0.001296072	0.016968826	0	17468.88659	21989.92112	0	623231.5341	931838.451	0	260260.3816	276605.5444	0	0.010687595
Winter	PM10_STREX	0.000395	0	0	17468.88659	21989.92112	0	623231.5341	931838.451	0	260260.3816	276605.5444	0	0.000191487
Winter	PM25_IDLEX	0	0.027426801	0	17468.88659	21989.92112	0	623231.5341	931838.451	0	260260.3816	276605.5444	0	0.001123396
Winter	PM25_PMBW	0.038220011	0.038220011	0	17468.88659	21989.92112	0	623231.5341	931838.451	0	260260.3816	276605.5444	0	0.038220011
Winter	PM25_PMTW	0.002000001	0.003000001	0	17468.88659	21989.92112	0	623231.5341	931838.451	0	260260.3816	276605.5444	0	0.002599227
Winter	PM25_RUNEX	0.001191691	0.016234762	0	17468.88659	21989.92112	0	623231.5341	931838.451	0	260260.3816	276605.5444	0	0.010205891
Winter	PM25_STREX	0.000363188	0	0	17468.88659	21989.92112	0	623231.5341	931838.451	0	260260.3816	276605.5444	0	0.000176065
Winter	ROG_DIURN	0.06158321	0	0	17468.88659	21989.92112	0	623231.5341	931838.451	0	260260.3816	276605.5444	0	0.002003834
Winter	ROG_HTSK	0.15211804	0	0	17468.88659	21989.92112	0	623231.5341	931838.451	0	260260.3816	276605.5444	0	0.073743363
Winter	ROG_IDLEX	0.460174837	0.109759705	0	17468.88659	21989.92112	0	623231.5341	931838.451	0	260260.3816	276605.5444	0	0.019469199
Winter	ROG_RESTL	0.034032161	0	0	17468.88659	21989.92112	0	623231.5341	931838.451	0	260260.3816	276605.5444	0	0.00110736
Winter	ROG_RUNEX	0.033874756	0.074211851	0	17468.88659	21989.92112	0	623231.5341	931838.451	0	260260.3816	276605.5444	0	0.058045794
Winter	ROG_RUNLS	0.983296226	0	0	17468.88659	21989.92112	0	623231.5341	931838.451	0	260260.3816	276605.5444	0	0.47667963
Winter	ROG_STREX	0.142195228	0	0	17468.88659	21989.92112	0	623231.5341	931838.451	0	260260.3816	276605.5444	0	0.06893301
Winter	SO2_IDLEX	0.00139997	0.002035509	0	17468.88659	21989.92112	0	623231.5341	931838.451	0	260260.3816	276605.5444	0	0.000128927
Winter	SO2_RUNEX	0.009399429	0.005006486	0	17468.88659	21989.92112	0	623231.5341	931838.451	0	260260.3816	276605.5444	0	0.006767063
Winter	SO2_STREX	0.000216834	0	0	17468.88659	21989.92112	0	623231.5341	931838.451	0	260260.3816	276605.5444	0	0.000105116
Winter	TOG_DIURN	0.06158321	0	0	17468.88659	21989.92112	0	623231.5341	931838.451	0	260260.3816	276605.5444	0	0.002003834
Winter	TOG_HTSK	0.15211804	0	0	17468.88659	21989.92112	0	623231.5341	931838.451	0	260260.3816	276605.5444	0	0.073743363
Winter	TOG_IDLEX	0.671486042	0.124954127	0	17468.88659	21989.92112	0	623231.5341	931838.451	0	260260.3816	276605.5444	0	0.026967338
Winter	TOG_RESTL	0.034032161	0	0	17468.88659	21989.92112	0	623231.5341	931838.451	0	260260.3816	276605.5444	0	0.00110736
Winter	TOG_RUNEX	0.049429965	0.084485258	0	17468.88659	21989.92112	0	623231.5341	931838.451	0	260260.3816	276605.5444	0	0.07043601
Winter	TOG_RUNLS	0.983296226	0	0	17468.88659	21989.92112	0	623231.5341	931838.451	0	260260.3816	276605.5444	0	0.47667963
Winter	TOG_STREX	0.155685877	0	0	17468.88659	21989.92112	0	623231.5341	931838.451	0	260260.3816	276605.5444	0	0.075472969

Winter	CH4_IDLEX	0.277911524	0.00627425	0	14376.2126	63233.99563	0	788215.4521	3916493.55	0	287639.2617	619326.5352	0	0.004842587
Winter	CH4_RUNEX	0.019745817	0.007374256	0	14376.2126	63233.99563	0	788215.4521	3916493.55	0	287639.2617	619326.5352	0	0.009446957
Winter	CH4_STREX	0.043245409	0	0	14376.2126	63233.99563	0	788215.4521	3916493.55	0	287639.2617	619326.5352	0	0.013715046
Winter	CO_IDLEX	19.76180013	2.81931471	0	14376.2126	63233.99563	0	788215.4521	3916493.55	0	287639.2617	619326.5352	0	0.509805745
Winter	CO_RUNEX	2.498179276	0.536581357	0	14376.2126	63233.99563	0	788215.4521	3916493.55	0	287639.2617	619326.5352	0	0.86522268
Winter	CO_STREX	5.185067379	0	0	14376.2126	63233.99563	0	788215.4521	3916493.55	0	287639.2617	619326.5352	0	1.644415873
Winter	CO2_NBIO_IDLEX	522.1785955	853.6992005	0	14376.2126	63233.99563	0	788215.4521	3916493.55	0	287639.2617	619326.5352	0	67.7972226
Winter	CO2_NBIO_RUNEX	1730.123798	1009.818234	0	14376.2126	63233.99563	0	788215.4521	3916493.55	0	287639.2617	619326.5352	0	1130.496468
Winter	CO2_NBIO_STREX	40.63529545	0	0	14376.2126	63233.99563	0	788215.4521	3916493.55	0	287639.2617	619326.5352	0	12.88726259
Winter	NOX_IDLEX	0.084510532	8.723932079	0	14376.2126	63233.99563	0	788215.4521	3916493.55	0	287639.2617	619326.5352	0	0.609575384
Winter	NOX_RUNEX	0.645041387	3.094118922	0	14376.2126	63233.99563	0	788215.4521	3916493.55	0	287639.2617	619326.5352	0	2.683806455
Winter	NOX_STREX	0.38907548	1.283228219	0	14376.2126	63233.99563	0	788215.4521	3916493.55	0	287639.2617	619326.5352	0	0.999652549
Winter	PM10_IDLEX	0	0.038950196	0	14376.2126	63233.99563	0	788215.4521	3916493.55	0	287639.2617	619326.5352	0	0.002715622
Winter	PM10_PMBW	0.130340037	0.130340037	0	14376.2126	63233.99563	0	788215.4521	3916493.55	0	287639.2617	619326.5352	0	0.130340037
Winter	PM10_PMTW	0.012000003	0.012000003	0	14376.2126	63233.99563	0	788215.4521	3916493.55	0	287639.2617	619326.5352	0	0.012000003
Winter	PM10_RUNEX	0.001134561	0.089751181	0	14376.2126	63233.99563	0	788215.4521	3916493.55	0	287639.2617	619326.5352	0	0.074904569
Winter	PM10_STREX	0.000488503	0	0	14376.2126	63233.99563	0	788215.4521	3916493.55	0	287639.2617	619326.5352	0	0.000154926
Winter	PM25_IDLEX	0	0.037265228	0	14376.2126	63233.99563	0	788215.4521	3916493.55	0	287639.2617	619326.5352	0	0.002598146
Winter	PM25_PMBW	0.055860016	0.055860016	0	14376.2126	63233.99563	0	788215.4521	3916493.55	0	287639.2617	619326.5352	0	0.055860016
Winter	PM25_PMTW	0.003000001	0.003000001	0	14376.2126	63233.99563	0	788215.4521	3916493.55	0	287639.2617	619326.5352	0	0.003000001
Winter	PM25_RUNEX	0.001043187	0.085868584	0	14376.2126	63233.99563	0	788215.4521	3916493.55	0	287639.2617	619326.5352	0	0.071657144
Winter	PM25_STREX	0.00044916	0	0	14376.2126	63233.99563	0	788215.4521	3916493.55	0	287639.2617	619326.5352	0	0.000142449
Winter	ROG_DIURN	0.053952579	0	0	14376.2126	63233.99563	0	788215.4521	3916493.55	0	287639.2617	619326.5352	0	0.000855196
Winter	ROG_HTSK	0.106759112	0	0	14376.2126	63233.99563	0	788215.4521	3916493.55	0	287639.2617	619326.5352	0	0.033858071
Winter	ROG_IDLEX	1.081368635	0.135082874	0	14376.2126	63233.99563	0	788215.4521	3916493.55	0	287639.2617	619326.5352	0	0.026558681
Winter	ROG_RESTL	0.031045244	0	0	14376.2126	63233.99563	0	788215.4521	3916493.55	0	287639.2617	619326.5352	0	0.000492095
Winter	ROG_RUNEX	0.09758511	0.1587657	0	14376.2126	63233.99563	0	788215.4521	3916493.55	0	287639.2617	619326.5352	0	0.148515653
Winter	ROG_RUNLS	0.579517452	0	0	14376.2126	63233.99563	0	788215.4521	3916493.55	0	287639.2617	619326.5352	0	0.183790803
Winter	ROG_STREX	0.236908731	0	0	14376.2126	63233.99563	0	788215.4521	3916493.55	0	287639.2617	619326.5352	0	0.075134314
Winter	SO2_IDLEX	0.005167381	0.008065327	0	14376.2126	63233.99563	0	788215.4521	3916493.55	0	287639.2617	619326.5352	0	0.000644225
Winter	SO2_RUNEX	0.017120978	0.009540262	0	14376.2126	63233.99563	0	788215.4521	3916493.55	0	287639.2617	619326.5352	0	0.010810317
Winter	SO2_STREX	0.000402119	0	0	14376.2126	63233.99563	0	788215.4521	3916493.55	0	287639.2617	619326.5352	0	0.00012753
Winter	TOG_DIURN	0.053952579	0	0	14376.2126	63233.99563	0	788215.4521	3916493.55	0	287639.2617	619326.5352	0	0.000855196
Winter	TOG_HTSK	0.106759112	0	0	14376.2126	63233.99563	0	788215.4521	3916493.55	0	287639.2617	619326.5352	0	0.033858071
Winter	TOG_IDLEX	1.577930573	0.15378157	0	14376.2126	63233.99563	0	788215.4521	3916493.55	0	287639.2617	619326.5352	0	0.035733308
Winter	TOG_RESTL	0.031045244	0	0	14376.2126	63233.99563	0	788215.4521	3916493.55	0	287639.2617	619326.5352	0	0.000492095
Winter	TOG_RUNEX	0.142395963	0.180742664	0	14376.2126	63233.99563	0	788215.4521	3916493.55	0	287639.2617	619326.5352	0	0.174318151
Winter	TOG_RUNLS	0.579517452	0	0	14376.2126	63233.99563	0	788215.4521	3916493.55	0	287639.2617	619326.5352	0	0.183790803
Winter	TOG_STREX	0.259385241	0	0	14376.2126	63233.99563	0	788215.4521	3916493.55	0	287639.2617	619326.5352	0	0.082262616

Winter	CH4_IDLEX	0	0.20575661	0	62.1035426	54755.3189	2258.192998	5663.567071	6529922.256	91900.3616	1242.56768	541704.5131	8806.952693	0.020419006
Winter	CH4_RUNEX	0.133580415	0.006929235	0	62.1035426	54755.3189	2258.192998	5663.567071	6529922.256	91900.3616	1242.56768	541704.5131	8806.952693	0.006941381
Winter	CH4_STREX	0.000242676	0	0	62.1035426	54755.3189	2258.192998	5663.567071	6529922.256	91900.3616	1242.56768	541704.5131	8806.952693	5.46514E-07
Winter	CO_IDLEX	0	58.22430725	0	62.1035426	54755.3189	2258.192998	5663.567071	6529922.256	91900.3616	1242.56768	541704.5131	8806.952693	5.778100962
Winter	CO_RUNEX	40.26260139	0.5783759	0	62.1035426	54755.3189	2258.192998	5663.567071	6529922.256	91900.3616	1242.56768	541704.5131	8806.952693	0.604268269
Winter	CO_STREX	5.041143901	0	0	62.1035426	54755.3189	2258.192998	5663.567071	6529922.256	91900.3616	1242.56768	541704.5131	8806.952693	0.011352817
Winter	CO2_NBIO_IDLEX	0	11362.88598	0	62.1035426	54755.3189	2258.192998	5663.567071	6529922.256	91900.3616	1242.56768	541704.5131	8806.952693	1127.637331
Winter	CO2_NBIO_RUNEX	2204.728704	1529.139116	0	62.1035426	54755.3189	2258.192998	5663.567071	6529922.256	91900.3616	1242.56768	541704.5131	8806.952693	1508.512564
Winter	CO2_NBIO_STREX	50.62169616	0	0	62.1035426	54755.3189	2258.192998	5663.567071	6529922.256	91900.3616	1242.56768	541704.5131	8806.952693	0.114001674
Winter	NOX_IDLEX	0	65.75625546	0	62.1035426	54755.3189	2258.192998	5663.567071	6529922.256	91900.3616	1242.56768	541704.5131	8806.952693	6.525561244
Winter	NOX_RUNEX	4.995733074	4.545435683	0	62.1035426	54755.3189	2258.192998	5663.567071	6529922.256	91900.3616	1242.56768	541704.5131	8806.952693	4.482790982
Winter	NOX_STREX	0.883901508	1.785573811	0	62.1035426	54755.3189	2258.192998	5663.567071	6529922.256	91900.3616	1242.56768	541704.5131	8806.952693	1.755042357
Winter	PM10_IDLEX	0	0.139787878	0	62.1035426	54755.3189	2258.192998	5663.567071	6529922.256	91900.3616	1242.56768	541704.5131	8806.952693	0.013872359
Winter	PM10_PMBW	0.061740018	0.061031123	0	62.1035426	54755.3189	2258.192998	5663.567071	6529922.256	91900.3616	1242.56768	541704.5131	8806.952693	0.060185438
Winter	PM10_PMTW	0.020000006	0.035586661	0	62.1035426	54755.3189	2258.192998	5663.567071	6529922.256	91900.3616	1242.56768	541704.5131	8806.952693	0.035079877
Winter	PM10_RUNEX	0.001557153	0.06106726	0	62.1035426	54755.3189	2258.192998	5663.567071	6529922.256	91900.3616	1242.56768	541704.5131	8806.952693	0.060169613
Winter	PM10_STREX	0.001252116	0	0	62.1035426	54755.3189	2258.192998	5663.567071	6529922.256	91900.3616	1242.56768	541704.5131	8806.952693	2.8198E-06
Winter	PM25_IDLEX	0	0.133740716	0	62.1035426	54755.3189	2258.192998	5663.567071	6529922.256	91900.3616	1242.56768	541704.5131	8806.952693	0.013272247
Winter	PM25_PMBW	0.026460008	0.026156196	0	62.1035426	54755.3189	2258.192998	5663.567071	6529922.256	91900.3616	1242.56768	541704.5131	8806.952693	0.025793759
Winter	PM25_PMTW	0.005000001	0.008896665	0	62.1035426	54755.3189	2258.192998	5663.567071	6529922.256	91900.3616	1242.56768	541704.5131	8806.952693	0.008769969
Winter	PM25_RUNEX	0.0014357	0.058425517	0	62.1035426	54755.3189	2258.192998	5663.567071	6529922.256	91900.3616	1242.56768	541704.5131	8806.952693	0.057566656
Winter	PM25_STREX	0.001160559	0	0	62.1035426	54755.3189	2258.192998	5663.567071	6529922.256	91900.3616	1242.56768	541704.5131	8806.952693	2.61362E-06
Winter	ROG_DIURN	0.099353566	0	0	62.1035426	54755.3189	2258.192998	5663.567071	6529922.256	91900.3616	1242.56768	541704.5131	8806.952693	1.11829E-05
Winter	ROG_HTSK	0.233273059	0	0	62.1035426	54755.3189	2258.192998	5663.567071	6529922.256	91900.3616	1242.56768	541704.5131	8806.952693	0.000525338
Winter	ROG_IDLEX	0	4.429883381	0	62.1035426	54755.3189	2258.192998	5663.567071	6529922.256	91900.3616	1242.56768	541704.5131	8806.952693	0.439615594
Winter	ROG_RESTL	0.066038947	0	0	62.1035426	54755.3189	2258.192998	5663.567071	6529922.256	91900.3616	1242.56768	541704.5131	8806.952693	7.43312E-06
Winter	ROG_RUNEX	0.726621947	0.14918452	0	62.1035426	54755.3189	2258.192998	5663.567071	6529922.256	91900.3616	1242.56768	541704.5131	8806.952693	0.147609299
Winter	ROG_RUNLS	1.071838898	0	0	62.1035426	54755.3189	2258.192998	5663.567071	6529922.256	91900.3616	1242.56768	541704.5131	8806.952693	0.002413815
Winter	ROG_STREX	0.001280108	0	0	62.1035426	54755.3189	2258.192998	5663.567071	6529922.256	91900.3616	1242.56768	541704.5131	8806.952693	2.88284E-06
Winter	SO2_IDLEX	0	0.107350913	0	62.1035426	54755.3189	2258.192998	5663.567071	6529922.256	91900.3616	1242.56768	541704.5131	8806.952693	0.010653358
Winter	SO2_RUNEX	0.021817578	0.014446548	0	62.1035426	54755.3189	2258.192998	5663.567071	6529922.256	91900.3616	1242.56768	541704.5131	8806.952693	0.014252523
Winter	SO2_STREX	0.000500943	0	0	62.1035426	54755.3189	2258.192998	5663.567071	6529922.256	91900.3616	1242.56768	541704.5131	8806.952693	1.12814E-06
Winter	TOG_DIURN	0.099353566	0	0	62.1035426	54755.3189	2258.192998	5663.567071	6529922.256	91900.3616	1242.56768	541704.5131	8806.952693	1.11829E-05
Winter	TOG_HTSK	0.233273059	0	0	62.1035426	54755.3189	2258.192998	5663.567071	6529922.256	91900.3616	1242.56768	541704.5131	8806.952693	0.000525338
Winter	TOG_IDLEX	0	5.04308502	0	62.1035426	54755.3189	2258.192998	5663.567071	6529922.256	91900.3616	1242.56768	541704.5131	8806.952693	0.50046889
Winter	TOG_RESTL	0.066038947	0	0	62.1035426	54755.3189	2258.192998	5663.567071	6529922.256	91900.3616	1242.56768	541704.5131	8806.952693	7.43312E-06
Winter	TOG_RUNEX	1.045558466	0.16983522	0	62.1035426	54755.3189	2258.192998	5663.567071	6529922.256	91900.3616	1242.56768	541704.5131	8806.952693	0.168228548
Winter	TOG_RUNLS	1.071838898	0	0	62.1035426	54755.3189	2258.192998	5663.567071	6529922.256	91900.3616	1242.56768	541704.5131	8806.952693	0.002413815
Winter	TOG_STREX	0.001401557	0	0	62.1035426	54755.3189	2258.192998	5663.567071	6529922.256	91900.3616	1242.56768	541704.5131	8806.952693	3.15635E-06

Winter	CH4_IDLEX	0.195327862	0.070585648	0	3994.029176	2994.516901	0	171885.0066	223367.5296	0	79912.53576	29418.4327	0	0.009068932
Winter	CH4_RUNEX	0.015888334	0.00914525	0	3994.029176	2994.516901	0	171885.0066	223367.5296	0	79912.53576	29418.4327	0	0.012077641
Winter	CH4_STREX	0.031849214	0	0	3994.029176	2994.516901	0	171885.0066	223367.5296	0	79912.53576	29418.4327	0	0.023279328
Winter	CO_IDLEX	5.754694525	16.37288238	0	3994.029176	2994.516901	0	171885.0066	223367.5296	0	79912.53576	29418.4327	0	0.658672395
Winter	CO_RUNEX	1.942726057	0.687395148	0	3994.029176	2994.516901	0	171885.0066	223367.5296	0	79912.53576	29418.4327	0	1.23330578
Winter	CO_STREX	3.509916163	0	0	3994.029176	2994.516901	0	171885.0066	223367.5296	0	79912.53576	29418.4327	0	2.565478974
Winter	CO2_NBIO_IDLEX	384.7269145	3018.924231	0	3994.029176	2994.516901	0	171885.0066	223367.5296	0	79912.53576	29418.4327	0	96.74139268
Winter	CO2_NBIO_RUNEX	1742.809202	1237.983937	0	3994.029176	2994.516901	0	171885.0066	223367.5296	0	79912.53576	29418.4327	0	1457.519262
Winter	CO2_NBIO_STREX	27.26037976	0	0	3994.029176	2994.516901	0	171885.0066	223367.5296	0	79912.53576	29418.4327	0	19.92524262
Winter	NOX_IDLEX	0.064838775	25.55949094	0	3994.029176	2994.516901	0	171885.0066	223367.5296	0	79912.53576	29418.4327	0	0.702429482
Winter	NOX_RUNEX	0.579084735	3.915142708	0	3994.029176	2994.516901	0	171885.0066	223367.5296	0	79912.53576	29418.4327	0	2.464378212
Winter	NOX_STREX	0.334438128	1.405450226	0	3994.029176	2994.516901	0	171885.0066	223367.5296	0	79912.53576	29418.4327	0	0.622622691
Winter	PM10_IDLEX	0	0.149035096	0	3994.029176	2994.516901	0	171885.0066	223367.5296	0	79912.53576	29418.4327	0	0.004081992
Winter	PM10_PMBW	0.130340037	0.130340037	0	3994.029176	2994.516901	0	171885.0066	223367.5296	0	79912.53576	29418.4327	0	0.130340037
Winter	PM10_PMTW	0.012000003	0.012000003	0	3994.029176	2994.516901	0	171885.0066	223367.5296	0	79912.53576	29418.4327	0	0.012000003
Winter	PM10_RUNEX	0.000907997	0.093587767	0	3994.029176	2994.516901	0	171885.0066	223367.5296	0	79912.53576	29418.4327	0	0.053283755
Winter	PM10_STREX	0.000272201	0	0	3994.029176	2994.516901	0	171885.0066	223367.5296	0	79912.53576	29418.4327	0	0.000198958
Winter	PM25_IDLEX	0	0.142587903	0	3994.029176	2994.516901	0	171885.0066	223367.5296	0	79912.53576	29418.4327	0	0.003905407
Winter	PM25_PMBW	0.055860016	0.055860016	0	3994.029176	2994.516901	0	171885.0066	223367.5296	0	79912.53576	29418.4327	0	0.055860016
Winter	PM25_PMTW	0.003000001	0.003000001	0	3994.029176	2994.516901	0	171885.0066	223367.5296	0	79912.53576	29418.4327	0	0.003000001
Winter	PM25_RUNEX	0.000834979	0.089539201	0	3994.029176	2994.516901	0	171885.0066	223367.5296	0	79912.53576	29418.4327	0	0.050964052
Winter	PM25_STREX	0.000250517	0	0	3994.029176	2994.516901	0	171885.0066	223367.5296	0	79912.53576	29418.4327	0	0.000183108
Winter	ROG_DIURN	0.054038983	0	0	3994.029176	2994.516901	0	171885.0066	223367.5296	0	79912.53576	29418.4327	0	0.001974128
Winter	ROG_HTSK	0.032233512	0	0	3994.029176	2994.516901	0	171885.0066	223367.5296	0	79912.53576	29418.4327	0	0.02356022
Winter	ROG_IDLEX	0.743068193	1.519689649	0	3994.029176	2994.516901	0	171885.0066	223367.5296	0	79912.53576	29418.4327	0	0.068768918
Winter	ROG_RESTL	0.025170467	0	0	3994.029176	2994.516901	0	171885.0066	223367.5296	0	79912.53576	29418.4327	0	0.000919516
Winter	ROG_RUNEX	0.07659862	0.196894715	0	3994.029176	2994.516901	0	171885.0066	223367.5296	0	79912.53576	29418.4327	0	0.144581085
Winter	ROG_RUNLS	0.382465314	0	0	3994.029176	2994.516901	0	171885.0066	223367.5296	0	79912.53576	29418.4327	0	0.279552752
Winter	ROG_STREX	0.169102484	0	0	3994.029176	2994.516901	0	171885.0066	223367.5296	0	79912.53576	29418.4327	0	0.12360092
Winter	SO2_IDLEX	0.003807185	0.028521299	0	3994.029176	2994.516901	0	171885.0066	223367.5296	0	79912.53576	29418.4327	0	0.000920266
Winter	SO2_RUNEX	0.01724651	0.011695858	0	3994.029176	2994.516901	0	171885.0066	223367.5296	0	79912.53576	29418.4327	0	0.014109692
Winter	SO2_STREX	0.000269764	0	0	3994.029176	2994.516901	0	171885.0066	223367.5296	0	79912.53576	29418.4327	0	0.000197176
Winter	TOG_DIURN	0.054038983	0	0	3994.029176	2994.516901	0	171885.0066	223367.5296	0	79912.53576	29418.4327	0	0.001974128
Winter	TOG_HTSK	0.032233512	0	0	3994.029176	2994.516901	0	171885.0066	223367.5296	0	79912.53576	29418.4327	0	0.02356022
Winter	TOG_IDLEX	1.084135006	1.730050984	0	3994.029176	2994.516901	0	171885.0066	223367.5296	0	79912.53576	29418.4327	0	0.0869903
Winter	TOG_RESTL	0.025170467	0	0	3994.029176	2994.516901	0	171885.0066	223367.5296	0	79912.53576	29418.4327	0	0.000919516
Winter	TOG_RUNEX	0.111595159	0.224149645	0	3994.029176	2994.516901	0	171885.0066	223367.5296	0	79912.53576	29418.4327	0	0.175202638
Winter	TOG_RUNLS	0.382465314	0	0	3994.029176	2994.516901	0	171885.0066	223367.5296	0	79912.53576	29418.4327	0	0.279552752
Winter	TOG_STREX	0.185131464	0	0	3994.029176	2994.516901	0	171885.0066	223367.5296	0	79912.53576	29418.4327	0	0.135316873

Winter	CO_STREX	8.609612178	0	0	162674.9076	0	0	1166527.499	0	0	325349.8152	0	0	8.609612178
Winter	CO2_NBIO_IDLEX	0	0	0	162674.9076	0	0	1166527.499	0	0	325349.8152	0	0	0
Winter	CO2_NBIO_RUNEX	223.7621943	0	0	162674.9076	0	0	1166527.499	0	0	325349.8152	0	0	223.7621943
Winter	CO2_NBIO_STREX	60.67720073	0	0	162674.9076	0	0	1166527.499	0	0	325349.8152	0	0	60.67720073
Winter	NOX_IDLEX	0	0	0	162674.9076	0	0	1166527.499	0	0	325349.8152	0	0	0
Winter	NOX_RUNEX	1.107194869	0	0	162674.9076	0	0	1166527.499	0	0	325349.8152	0	0	1.107194869
Winter	NOX_STREX	0.266445751	0	0	162674.9076	0	0	1166527.499	0	0	325349.8152	0	0	0.266445751
Winter	PM10_IDLEX	0	0	0	162674.9076	0	0	1166527.499	0	0	325349.8152	0	0	0
Winter	PM10_PMBW	0.011760003	0	0	162674.9076	0	0	1166527.499	0	0	325349.8152	0	0	0.011760003
Winter	PM10_PMTW	0.004000001	0	0	162674.9076	0	0	1166527.499	0	0	325349.8152	0	0	0.004000001
Winter	PM10_RUNEX	0.002314602	0	0	162674.9076	0	0	1166527.499	0	0	325349.8152	0	0	0.002314602
Winter	PM10_STREX	0.00344551	0	0	162674.9076	0	0	1166527.499	0	0	325349.8152	0	0	0.00344551
Winter	PM25_IDLEX	0	0	0	162674.9076	0	0	1166527.499	0	0	325349.8152	0	0	0
Winter	PM25_PMBW	0.005040001	0	0	162674.9076	0	0	1166527.499	0	0	325349.8152	0	0	0.005040001
Winter	PM25_PMTW	0.001	0	0	162674.9076	0	0	1166527.499	0	0	325349.8152	0	0	0.001
Winter	PM25_RUNEX	0.002165897	0	0	162674.9076	0	0	1166527.499	0	0	325349.8152	0	0	0.002165897
Winter	PM25_STREX	0.003250763	0	0	162674.9076	0	0	1166527.499	0	0	325349.8152	0	0	0.003250763
Winter	ROG_DIURN	2.386563527	0	0	162674.9076	0	0	1166527.499	0	0	325349.8152	0	0	1.193281763
Winter	ROG_HTSK	0.890111922	0	0	162674.9076	0	0	1166527.499	0	0	325349.8152	0	0	0.890111922
Winter	ROG_IDLEX	0	0	0	162674.9076	0	0	1166527.499	0	0	325349.8152	0	0	0
Winter	ROG_RESTL	1.308935328	0	0	162674.9076	0	0	1166527.499	0	0	325349.8152	0	0	0.654467664
Winter	ROG_RUNEX	2.662795571	0	0	162674.9076	0	0	1166527.499	0	0	325349.8152	0	0	2.662795571
Winter	ROG_RUNLS	2.477617322	0	0	162674.9076	0	0	1166527.499	0	0	325349.8152	0	0	2.477617322
Winter	ROG_STREX	1.881113642	0	0	162674.9076	0	0	1166527.499	0	0	325349.8152	0	0	1.881113642
Winter	SO2_IDLEX	0	0	0	162674.9076	0	0	1166527.499	0	0	325349.8152	0	0	0
Winter	SO2_RUNEX	0.002214308	0	0	162674.9076	0	0	1166527.499	0	0	325349.8152	0	0	0.002214308
Winter	SO2_STREX	0.00060045	0	0	162674.9076	0	0	1166527.499	0	0	325349.8152	0	0	0.00060045
Winter	TOG_DIURN	2.386563527	0	0	162674.9076	0	0	1166527.499	0	0	325349.8152	0	0	1.193281763
Winter	TOG_HTSK	0.890111922	0	0	162674.9076	0	0	1166527.499	0	0	325349.8152	0	0	0.890111922
Winter	TOG_IDLEX	0	0	0	162674.9076	0	0	1166527.499	0	0	325349.8152	0	0	0
Winter	TOG_RESTL	1.308935328	0	0	162674.9076	0	0	1166527.499	0	0	325349.8152	0	0	0.654467664
Winter	TOG_RUNEX	3.287310324	0	0	162674.9076	0	0	1166527.499	0	0	325349.8152	0	0	3.287310324
Winter	TOG_RUNLS	2.477617322	0	0	162674.9076	0	0	1166527.499	0	0	325349.8152	0	0	2.477617322
Winter	TOG_STREX	2.046965596	0	0	162674.9076	0	0	1166527.499	0	0	325349.8152	0	0	2.046965596

Winter	CH4_IDLEX	2.403961481	0.014604698	0	1174.759873	3383.904588	0	48830.15752	107317.5496	0	4699.039492	39049.78978	0	0.065681721
Winter	CH4_RUNEX	0.012943605	0.005667334	0	1174.759873	3383.904588	0	48830.15752	107317.5496	0	4699.039492	39049.78978	0	0.007942753
Winter	CH4_STREX	0.058686339	0	0	1174.759873	3383.904588	0	48830.15752	107317.5496	0	4699.039492	39049.78978	0	0.00630347
Winter	CO_IDLEX	81.96026688	6.873110352	0	1174.759873	3383.904588	0	48830.15752	107317.5496	0	4699.039492	39049.78978	0	2.732452144
Winter	CO_RUNEX	1.392603644	0.343426599	0	1174.759873	3383.904588	0	48830.15752	107317.5496	0	4699.039492	39049.78978	0	0.67152287
Winter	CO_STREX	8.30767376	0	0	1174.759873	3383.904588	0	48830.15752	107317.5496	0	4699.039492	39049.78978	0	0.892323011
Winter	CO2_NBIO_IDLEX	2644.128202	3502.445203	0	1174.759873	3383.904588	0	48830.15752	107317.5496	0	4699.039492	39049.78978	0	341.9098602
Winter	CO2_NBIO_RUNEX	887.9421789	1244.986334	0	1174.759873	3383.904588	0	48830.15752	107317.5496	0	4699.039492	39049.78978	0	1133.332294
Winter	CO2_NBIO_STREX	49.06196485	0	0	1174.759873	3383.904588	0	48830.15752	107317.5496	0	4699.039492	39049.78978	0	5.26972068
Winter	NOX_IDLEX	0.92338533	41.698756	0	1174.759873	3383.904588	0	48830.15752	107317.5496	0	4699.039492	39049.78978	0	3.250129663
Winter	NOX_RUNEX	0.443100396	7.273815661	0	1174.759873	3383.904588	0	48830.15752	107317.5496	0	4699.039492	39049.78978	0	5.137729845
Winter	NOX_STREX	0.603308893	0.821464403	0	1174.759873	3383.904588	0	48830.15752	107317.5496	0	4699.039492	39049.78978	0	0.79803243
Winter	PM10_IDLEX	0	0.076823438	0	1174.759873	3383.904588	0	48830.15752	107317.5496	0	4699.039492	39049.78978	0	0.005942175
Winter	PM10_PMBW	0.744800204	0.744800213	0	1174.759873	3383.904588	0	48830.15752	107317.5496	0	4699.039492	39049.78978	0	0.74480021
Winter	PM10_PMTW	0.008000002	0.012000003	0	1174.759873	3383.904588	0	48830.15752	107317.5496	0	4699.039492	39049.78978	0	0.010749132
Winter	PM10_RUNEX	0.001096664	0.045883651	0	1174.759873	3383.904588	0	48830.15752	107317.5496	0	4699.039492	39049.78978	0	0.031877966
Winter	PM10_STREX	0.000422223	0	0	1174.759873	3383.904588	0	48830.15752	107317.5496	0	4699.039492	39049.78978	0	4.53507E-05
Winter	PM25_IDLEX	0	0.07350009	0	1174.759873	3383.904588	0	48830.15752	107317.5496	0	4699.039492	39049.78978	0	0.005685119
Winter	PM25_PMBW	0.319200087	0.319200091	0	1174.759873	3383.904588	0	48830.15752	107317.5496	0	4699.039492	39049.78978	0	0.31920009
Winter	PM25_PMTW	0.002000001	0.003000001	0	1174.759873	3383.904588	0	48830.15752	107317.5496	0	4699.039492	39049.78978	0	0.002687283
Winter	PM25_RUNEX	0.001008342	0.043898745	0	1174.759873	3383.904588	0	48830.15752	107317.5496	0	4699.039492	39049.78978	0	0.030486155
Winter	PM25_STREX	0.000388218	0	0	1174.759873	3383.904588	0	48830.15752	107317.5496	0	4699.039492	39049.78978	0	4.16983E-05
Winter	ROG_DIURN	0.036109256	0	0	1174.759873	3383.904588	0	48830.15752	107317.5496	0	4699.039492	39049.78978	0	0.000969619
Winter	ROG_HTSK	0.080225268	0	0	1174.759873	3383.904588	0	48830.15752	107317.5496	0	4699.039492	39049.78978	0	0.008616955
Winter	ROG_IDLEX	10.59516639	0.314435148	0	1174.759873	3383.904588	0	48830.15752	107317.5496	0	4699.039492	39049.78978	0	0.308826432
Winter	ROG_RESTL	0.017108358	0	0	1174.759873	3383.904588	0	48830.15752	107317.5496	0	4699.039492	39049.78978	0	0.0004594
Winter	ROG_RUNEX	0.06407362	0.122016156	0	1174.759873	3383.904588	0	48830.15752	107317.5496	0	4699.039492	39049.78978	0	0.103896497
Winter	ROG_RUNLS	0.653242228	0	0	1174.759873	3383.904588	0	48830.15752	107317.5496	0	4699.039492	39049.78978	0	0.070164415
Winter	ROG_STREX	0.338926665	0	0	1174.759873	3383.904588	0	48830.15752	107317.5496	0	4699.039492	39049.78978	0	0.036403941
Winter	SO2_IDLEX	0.026165792	0.033089366	0	1174.759873	3383.904588	0	48830.15752	107317.5496	0	4699.039492	39049.78978	0	0.003262025
Winter	SO2_RUNEX	0.008786908	0.011762014	0	1174.759873	3383.904588	0	48830.15752	107317.5496	0	4699.039492	39049.78978	0	0.010831645
Winter	SO2_STREX	0.000485508	0	0	1174.759873	3383.904588	0	48830.15752	107317.5496	0	4699.039492	39049.78978	0	5.21482E-05
Winter	TOG_DIURN	0.036109256	0	0	1174.759873	3383.904588	0	48830.15752	107317.5496	0	4699.039492	39049.78978	0	0.000969619
Winter	TOG_HTSK	0.080225268	0	0	1174.759873	3383.904588	0	48830.15752	107317.5496	0	4699.039492	39049.78978	0	0.008616955
Winter	TOG_IDLEX	15.46044192	0.35796048	0	1174.759873	3383.904588	0	48830.15752	107317.5496	0	4699.039492	39049.78978	0	0.442837242
Winter	TOG_RESTL	0.017108358	0	0	1174.759873	3383.904588	0	48830.15752	107317.5496	0	4699.039492	39049.78978	0	0.0004594
Winter	TOG_RUNEX	0.093496076	0.138906106	0	1174.759873	3383.904588	0	48830.15752	107317.5496	0	4699.039492	39049.78978	0	0.124705584
Winter	TOG_RUNLS	0.653242228	0	0	1174.759873	3383.904588	0	48830.15752	107317.5496	0	4699.039492	39049.78978	0	0.070164415
Winter	TOG_STREX	0.371082036	0	0	1174.759873	3383.904588	0	48830.15752	107317.5496	0	4699.039492	39049.78978	0	0.039857733

Winter	CH4_IDLEX	0	0	0	18811.68292	5250.292691	0	189118.5703	55996.49428	0	1881.920759	525.0292691	0	0
Winter	CH4_RUNEX	0.003433632	0.003433632	0	18811.68292	5250.292691	0	189118.5703	55996.49428	0	1881.920759	525.0292691	0	0.003433632
Winter	CH4_STREX	0	0	0	18811.68292	5250.292691	0	189118.5703	55996.49428	0	1881.920759	525.0292691	0	0
Winter	CO_IDLEX	0	0	0	18811.68292	5250.292691	0	189118.5703	55996.49428	0	1881.920759	525.0292691	0	0
Winter	CO_RUNEX	0.308172118	0.308172118	0	18811.68292	5250.292691	0	189118.5703	55996.49428	0	1881.920759	525.0292691	0	0.308172118
Winter	CO_STREX	0	0	0	18811.68292	5250.292691	0	189118.5703	55996.49428	0	1881.920759	525.0292691	0	0
Winter	CO2_NBIO_IDLEX	0	0	0	18811.68292	5250.292691	0	189118.5703	55996.49428	0	1881.920759	525.0292691	0	0
Winter	CO2_NBIO_RUNEX	992.0534837	992.0534837	0	18811.68292	5250.292691	0	189118.5703	55996.49428	0	1881.920759	525.0292691	0	992.0534837
Winter	CO2_NBIO_STREX	0	0	0	18811.68292	5250.292691	0	189118.5703	55996.49428	0	1881.920759	525.0292691	0	0
Winter	NOX_IDLEX	0	0	0	18811.68292	5250.292691	0	189118.5703	55996.49428	0	1881.920759	525.0292691	0	0
Winter	NOX_RUNEX	3.778944235	3.778944235	0	18811.68292	5250.292691	0	189118.5703	55996.49428	0	1881.920759	525.0292691	0	3.778944235
Winter	NOX_STREX	0	0	0	18811.68292	5250.292691	0	189118.5703	55996.49428	0	1881.920759	525.0292691	0	0
Winter	PM10_IDLEX	0	0	0	18811.68292	5250.292691	0	189118.5703	55996.49428	0	1881.920759	525.0292691	0	0
Winter	PM10_PMBW	0.130340037	0.130340037	0	18811.68292	5250.292691	0	189118.5703	55996.49428	0	1881.920759	525.0292691	0	0.130340037
Winter	PM10_PMTW	0.016000005	0.016000005	0	18811.68292	5250.292691	0	189118.5703	55996.49428	0	1881.920759	525.0292691	0	0.016000005
Winter	PM10_RUNEX	0.091837035	0.091837035	0	18811.68292	5250.292691	0	189118.5703	55996.49428	0	1881.920759	525.0292691	0	0.091837035
Winter	PM10_STREX	0	0	0	18811.68292	5250.292691	0	189118.5703	55996.49428	0	1881.920759	525.0292691	0	0
Winter	PM25_IDLEX	0	0	0	18811.68292	5250.292691	0	189118.5703	55996.49428	0	1881.920759	525.0292691	0	0
Winter	PM25_PMBW	0.055860016	0.055860016	0	18811.68292	5250.292691	0	189118.5703	55996.49428	0	1881.920759	525.0292691	0	0.055860016
Winter	PM25_PMTW	0.004000001	0.004000001	0	18811.68292	5250.292691	0	189118.5703	55996.49428	0	1881.920759	525.0292691	0	0.004000001
Winter	PM25_RUNEX	0.087864205	0.087864205	0	18811.68292	5250.292691	0	189118.5703	55996.49428	0	1881.920759	525.0292691	0	0.087864205
Winter	PM25_STREX	0	0	0	18811.68292	5250.292691	0	189118.5703	55996.49428	0	1881.920759	525.0292691	0	0
Winter	ROG_DIURN	0	0	0	18811.68292	5250.292691	0	189118.5703	55996.49428	0	1881.920759	525.0292691	0	0
Winter	ROG_HTSK	0	0	0	18811.68292	5250.292691	0	189118.5703	55996.49428	0	1881.920759	525.0292691	0	0
Winter	ROG_IDLEX	0	0	0	18811.68292	5250.292691	0	189118.5703	55996.49428	0	1881.920759	525.0292691	0	0
Winter	ROG_RESTL	0	0	0	18811.68292	5250.292691	0	189118.5703	55996.49428	0	1881.920759	525.0292691	0	0
Winter	ROG_RUNEX	0.073924069	0.073924069	0	18811.68292	5250.292691	0	189118.5703	55996.49428	0	1881.920759	525.0292691	0	0.073924069
Winter	ROG_RUNLS	0	0	0	18811.68292	5250.292691	0	189118.5703	55996.49428	0	1881.920759	525.0292691	0	0
Winter	ROG_STREX	0	0	0	18811.68292	5250.292691	0	189118.5703	55996.49428	0	1881.920759	525.0292691	0	0
Winter	SO2_IDLEX	0	0	0	18811.68292	5250.292691	0	189118.5703	55996.49428	0	1881.920759	525.0292691	0	0
Winter	SO2_RUNEX	0.009378473	0.009378473	0	18811.68292	5250.292691	0	189118.5703	55996.49428	0	1881.920759	525.0292691	0	0.009378473
Winter	SO2_STREX	0	0	0	18811.68292	5250.292691	0	189118.5703	55996.49428	0	1881.920759	525.0292691	0	0
Winter	TOG_DIURN	0	0	0	18811.68292	5250.292691	0	189118.5703	55996.49428	0	1881.920759	525.0292691	0	0
Winter	TOG_HTSK	0	0	0	18811.68292	5250.292691	0	189118.5703	55996.49428	0	1881.920759	525.0292691	0	0
Winter	TOG_IDLEX	0	0	0	18811.68292	5250.292691	0	189118.5703	55996.49428	0	1881.920759	525.0292691	0	0
Winter	TOG_RESTL	0	0	0	18811.68292	5250.292691	0	189118.5703	55996.49428	0	1881.920759	525.0292691	0	0
Winter	TOG_RUNEX	0.084157637	0.084157637	0	18811.68292	5250.292691	0	189118.5703	55996.49428	0	1881.920759	525.0292691	0	0.084157637
Winter	TOG_RUNLS	0	0	0	18811.68292	5250.292691	0	189118.5703	55996.49428	0	1881.920759	525.0292691	0	0
Winter	TOG_STREX	0	0	0	18811.68292	5250.292691	0	189118.5703	55996.49428	0	1881.920759	525.0292691	0	0

Summer	CO_RUNEX	0.7321428	1.4103324	1.026741	1.1853782	0.5769349	0.389608117	0.284017669	0.459580012	0.6266804	45.423437	18.147893	0.5757989	0.2536482
Summer	CO_STREX	1.738097	1.8646477	2.1788974	2.4855973	1.0342149	0.687546034	1.305473735	0.009065344	2.2147005	0.6285117	7.7717616	0.7877367	0
Summer	CO2_NBIO_IDLEX	0	0	0	0	8.8131527	13.35562063	64.72740237	1113.069069	89.135867	0	0	361.51282	0
Summer	CO2_NBIO_RUNEX	277.14091	325.13297	344.12979	420.70064	652.996	654.0725529	1030.648812	1398.543134	1355.7221	1987.99	222.30364	1086.0063	953.66624
Summer	CO2_NBIO_STREX	51.747183	61.560242	65.825803	80.011371	11.972614	9.159220262	11.93957872	0.084151062	18.808733	8.2725064	57.318401	5.6754419	0
Summer	NOX_IDLEX	0	0	0	0	0.0514367	0.081516643	0.344271757	5.497732375	0.3324624	0	0	3.0898482	0
Summer	NOX_RUNEX	0.031418	0.091357	0.0655661	0.0848698	0.5163176	0.666666221	1.019443652	2.5644129	1.0884472	0.4658554	0.9882573	4.130506	3.0901471
Summer	NOX_STREX ³	0.1579896	0.2189358	0.2353294	0.2863485	0.3019845	0.209100507	1.577426763	2.349899386	0.8269003	0.077337	0.2500233	0.9508335	0
Summer	PM10_IDLEX	0	0	0	0	0.0007836	0.001275852	0.000277787	0.00277905	0.000105	0	0	0.0030311	0
Summer	PM10_PMBW	0.03675	0.03675	0.03675	0.03675	0.07644	0.089180026	0.130340037	0.061065773	0.13034	0.0726803	0.01176	0.7448002	0.13034
Summer	PM10_PMTW	0.008	0.008	0.008	0.008	0.0097291	0.010571401	0.012000003	0.0355935	0.012	0.0318756	0.004	0.0106101	0.016
Summer	PM10_RUNEX	0.0017096	0.0025018	0.0018228	0.0019552	0.0059884	0.009626651	0.006129862	0.018509047	0.0070871	0.0032067	0.0024798	0.025098	0.068592
Summer	PM10_STREX	0.001759	0.0024475	0.0018152	0.001934	0.0002682	0.000152021	0.000134664	1.35134E-06	0.0002	5.657E-05	0.0031545	6.024E-05	0
Summer	PM25_IDLEX	0	0	0	0	0.0007497	0.001220659	0.00026577	0.002658829	0.0001005	0	0	0.0029	0
Summer	PM25_PMBW	0.01575	0.01575	0.01575	0.01575	0.03276	0.038220011	0.055860016	0.026171045	0.05586	0.0311487	0.00504	0.3192001	0.05586
Summer	PM25_PMTW	0.002	0.002	0.002	0.002	0.0024323	0.00264285	0.003000001	0.008898375	0.003	0.0079689	0.001	0.0026525	0.004
Summer	PM25_RUNEX	0.0015748	0.0023022	0.0016777	0.0018024	0.0057009	0.009193948	0.005858162	0.017708314	0.0067657	0.0030642	0.002316	0.0239975	0.0656247
Summer	PM25_STREX	0.0016174	0.0022505	0.0016691	0.0017785	0.0002466	0.000139778	0.000123819	1.24251E-06	0.0001839	5.201E-05	0.0029646	5.539E-05	0
Summer	ROG_DIURN	0.0746046	0.1785587	0.1068912	0.1226862	0.0034572	0.002107869	0.000924745	9.22711E-06	0.0026502	0.0008608	1.7062643	0.0014874	0
Summer	ROG_HTSK	0.0976925	0.1902445	0.1197632	0.1366752	0.0766221	0.051290753	0.026901082	0.000233609	0.0227302	0.0076581	0.6934909	0.0091168	0
Summer	ROG_IDLEX	0	0	0	0	0.0214182	0.017294514	0.019988167	0.479629877	0.0536896	0	0	0.360963	0
Summer	ROG_RESTL	0.0644464	0.1380466	0.0979693	0.117423	0.0020042	0.001253122	0.000573297	6.29508E-06	0.0013153	0.0005998	1.0501442	0.0007738	0
Summer	ROG_RUNEX	0.0108609	0.0311692	0.0192109	0.0255346	0.0451047	0.046863897	0.015449276	0.024855871	0.0293774	0.0851919	2.5359613	0.0876148	0.0645308
Summer	ROG_RUNLS	0.1907956	0.5945428	0.3617762	0.3828771	0.4980661	0.304221417	0.132218733	0.001172723	0.2602334	0.0426277	1.762383	0.0498313	0
Summer	ROG_STREX	0.1818684	0.2826024	0.2554993	0.319532	0.0696159	0.047957982	0.061490873	2.72272E-06	0.1078431	0.0427911	1.6014928	0.0363666	0
Summer	SO2_IDLEX	0	0	0	0	8.56E-05	0.000128033	0.000615482	0.010334377	0.0008482	0	0	0.0034522	0
Summer	SO2_RUNEX	0.0027078	0.0031774	0.0033624	0.0041085	0.0063745	0.006328658	0.009854428	0.012702254	0.0131073	0.0014048	0.0021999	0.0103938	0.0090156
Summer	SO2_STREX	0.0005057	0.0006016	0.0006433	0.0007819	0.0001185	9.06379E-05	0.000118152	8.32743E-07	0.0001861	8.186E-05	0.0005672	5.616E-05	0
Summer	TOG_DIURN	0.0746492	0.1786658	0.1069553	0.1227598	0.0034572	0.002107869	0.000924745	9.22711E-06	0.0026502	0.0008608	1.7062643	0.0014874	0
Summer	TOG_HTSK	0.0977511	0.1903586	0.119835	0.1367571	0.0766221	0.051290753	0.026901082	0.000233609	0.0227302	0.0076581	0.6934909	0.0091168	0
Summer	TOG_IDLEX	0	0	0	0	0.0302578	0.023647824	0.027532076	0.552295727	0.0697898	0	0	0.5199314	0
Summer	TOG_RESTL	0.064485	0.1381294	0.0980281	0.1174934	0.0020042	0.001253122	0.000573297	6.29508E-06	0.0013153	0.0005998	1.0501442	0.0007738	0
Summer	TOG_RUNEX	0.015799	0.0454821	0.0279922	0.0370919	0.0572973	0.055834045	0.02040387	0.108585667	0.0407209	5.9679277	3.1604134	0.1053168	0.0734641
Summer	TOG_RUNLS	0.1909101	0.5948995	0.3619933	0.3831068	0.4980661	0.304221417	0.132218733	0.001172723	0.2602334	0.0426277	1.762383	0.0498313	0
Summer	TOG_STREX	0.1992618	0.30963	0.2799352	0.350089	0.0762206	0.052507953	0.067324766	2.98104E-06	0.1180746	0.0468509	1.7434648	0.0398168	0

Winter	CH4_IDLEX	0	0	0	3986929.129	36740.62878	91678.53845	149418105.6	1426244.815	3806341.937	18815397.63	174171.298	457107.9273	0	
Winter	CH4_RUNEX	0.002674631	0.000872156	0	3986929.129	36740.62878	91678.53845	149418105.6	1426244.815	3806341.937	18815397.63	174171.298	457107.9273	0.002592179	
Winter	CH4_STREX	0.048547375	0	0	3986929.129	36740.62878	91678.53845	149418105.6	1426244.815	3806341.937	18815397.63	174171.298	457107.9273	0.046971427	
Winter	CO_IDLEX	1.0027	0	0	3986929.129	36740.62878	91678.53845	149418105.6	1426244.815	3806341.937	18815397.63	174171.298	457107.9273	0	
Winter	CO_RUNEX	1.0027	0.664035185	0.28115834	0	3986929.129	36740.62878	91678.53845	149418105.6	1426244.815	3806341.937	18815397.63	174171.298	457107.9273	0.644160582
Winter	CO_STREX	1.0027	2.174536565	0	0	3986929.129	36740.62878	91678.53845	149418105.6	1426244.815	3806341.937	18815397.63	174171.298	457107.9273	2.103946624
Winter	CO2_NBIO_IDLEX	1.0126	0	0	0	3986929.129	36740.62878	91678.53845	149418105.6	1426244.815	3806341.937	18815397.63	174171.298	457107.9273	0
Winter	CO2_NBIO_RUNEX	1.0126	268.3952248	209.5617715	0	3986929.129	36740.62878	91678.53845	149418105.6	1426244.815	3806341.937	18815397.63	174171.298	457107.9273	261.2467608
Winter	CO2_NBIO_STREX	1.0126	54.18228696	0	0	3986929.129	36740.62878	91678.53845	149418105.6	1426244.815	3806341.937	18815397.63	174171.298	457107.9273	52.42341822
Winter	NOX_IDLEX	1.0007	0	0	0	3986929.129	36740.62878	91678.53845	149418105.6	1426244.815	3806341.937	18815397.63	174171.298	457107.9273	0
Winter	NOX_RUNEX	1.0007	0.035260832	0.063514853	0	3986929.129	36740.62878	91678.53845	149418105.6	1426244.815	3806341.937	18815397.63	174171.298	457107.9273	0.034653543
Winter	NOX_STREX	1.0007	0.179268203	0	0	3986929.129	36740.62878	91678.53845	149418105.6	1426244.815	3806341.937	18815397.63	174171.298	457107.9273	0.173448788
Winter	PM10_IDLEX	1.0032	0	0	0	3986929.129	36740.62878	91678.53845	149418105.6	1426244.815	3806341.937	18815397.63	174171.298	457107.9273	0
Winter	PM10_PMBW	0.036750011	0.036750011	0.036750011	3986929.129	36740.62878	91678.53845	149418105.6	1426244.815	3806341.937	18815397.63	174171.298	457107.9273	0.036750011	
Winter	PM10_PMTW	0.008000002	0.008000002	0.008000002	3986929.129	36740.62878	91678.53845	149418105.6	1426244.815	3806341.937	18815397.63	174171.298	457107.9273	0.008000002	
Winter	PM10_RUNEX	1.0032	0.001689841	0.008345632	0	3986929.129	36740.62878	91678.53845	149418105.6	1426244.815	3806341.937	18815397.63	174171.298	457107.9273	0.001709632
Winter	PM10_STREX	1.0032	0.001818003	0	0	3986929.129	36740.62878	91678.53845	149418105.6	1426244.815	3806341.937	18815397.63	174171.298	457107.9273	0.001758987
Winter	PM25_IDLEX	1.0032	0	0	0	3986929.129	36740.62878	91678.53845	149418105.6	1426244.815	3806341.937	18815397.63	174171.298	457107.9273	0
Winter	PM25_PMBW	0.015750005	0.015750005	0.015750005	3986929.129	36740.62878	91678.53845	149418105.6	1426244.815	3806341.937	18815397.63	174171.298	457107.9273	0.015750005	
Winter	PM25_PMTW	0.002000001	0.002000001	0.002000001	3986929.129	36740.62878	91678.53845	149418105.6	1426244.815	3806341.937	18815397.63	174171.298	457107.9273	0.002000001	
Winter	PM25_RUNEX	1.0032	0.001553761	0.007984604	0	3986929.129	36740.62878	91678.53845	149418105.6	1426244.815	3806341.937	18815397.63	174171.298	457107.9273	0.001574826
Winter	PM25_STREX	1.0032	0.001671632	0	0	3986929.129	36740.62878	91678.53845	149418105.6	1426244.815	3806341.937	18815397.63	174171.298	457107.9273	0.001617368
Winter	ROG_DIURN	0.229373901	0	0.016129757	3986929.129	36740.62878	91678.53845	149418105.6	1426244.815	3806341.937	18815397.63	174171.298	457107.9273	0.047101942	
Winter	ROG_HTSK	0.105308438	0	0.004888026	3986929.129	36740.62878	91678.53845	149418105.6	1426244.815	3806341.937	18815397.63	174171.298	457107.9273	0.102004806	
Winter	ROG_IDLEX	0	0	0	3986929.129	36740.62878	91678.53845	149418105.6	1426244.815	3806341.937	18815397.63	174171.298	457107.9273	0	
Winter	ROG_RESTL	0.217132229	0	0.004571725	3986929.129	36740.62878	91678.53845	149418105.6	1426244.815	3806341.937	18815397.63	174171.298	457107.9273	0.044537684	
Winter	ROG_RUNEX	0.010223967	0.018777004	0	3986929.129	36740.62878	91678.53845	149418105.6	1426244.815	3806341.937	18815397.63	174171.298	457107.9273	0.010051208	
Winter	ROG_RUNLS	0.239127546	0	0	3986929.129	36740.62878	91678.53845	149418105.6	1426244.815	3806341.937	18815397.63	174171.298	457107.9273	0.231364972	
Winter	ROG_STREX	0.215524059	0	0	3986929.129	36740.62878	91678.53845	149418105.6	1426244.815	3806341.937	18815397.63	174171.298	457107.9273	0.208527704	
Winter	SO2_IDLEX	0	0	0	3986929.129	36740.62878	91678.53845	149418105.6	1426244.815	3806341.937	18815397.63	174171.298	457107.9273	0	
Winter	SO2_RUNEX	0.002622939	0.001981112	0	3986929.129	36740.62878	91678.53845	149418105.6	1426244.815	3806341.937	18815397.63	174171.298	457107.9273	0.002552463	
Winter	SO2_STREX	0.000529506	0	0	3986929.129	36740.62878	91678.53845	149418105.6	1426244.815	3806341.937	18815397.63	174171.298	457107.9273	0.000512317	
Winter	TOG_DIURN	1.0006	0.229511526	0	0.016129757	3986929.129	36740.62878	91678.53845	149418105.6	1426244.815	3806341.937	18815397.63	174171.298	457107.9273	0.047130157
Winter	TOG_HTSK	1.0006	0.105371623	0	0.004888026	3986929.129	36740.62878	91678.53845	149418105.6	1426244.815	3806341.937	18815397.63	174171.298	457107.9273	0.10206594
Winter	TOG_IDLEX	1.0007	0	0	0	3986929.129	36740.62878	91678.53845	149418105.6	1426244.815	3806341.937	18815397.63	174171.298	457107.9273	0
Winter	TOG_RESTL	1.0006	0.217262509	0	0.004571725	3986929.129	36740.62878	91678.53845	149418105.6	1426244.815	3806341.937	18815397.63	174171.298	457107.9273	0.044564393
Winter	TOG_RUNEX	1.0007	0.014924601	0.021376371	0	3986929.129	36740.62878	91678.53845	149418105.6	1426244.815	3806341.937	18815397.63	174171.298	457107.9273	0.01461677
Winter	TOG_RUNLS	1.0006	0.239271022	0	0	3986929.129	36740.62878	91678.53845	149418105.6	1426244.815	3806341.937	18815397.63	174171.298	457107.9273	0.231503791
Winter	TOG_STREX	1.0007	0.23613609	0	0	3986929.129	36740.62878	91678.53845	149418105.6	1426244.815	3806341.937	18815397.63	174171.298	457107.9273	0.228470624

Winter	CH4_IDLEX		0	0	0	472375.6724	252.4118747	4635.248736	17372474.6	6132.921962	196781.6242	2187811.2	894.9059766	23233.68477	0
Winter	CH4_RUNEX	0.006663814	0.008481451		0	472375.6724	252.4118747	4635.248736	17372474.6	6132.921962	196781.6242	2187811.2	894.9059766	23233.68477	0.006589837
Winter	CH4_STREX	0.066703387	0	0	0	472375.6724	252.4118747	4635.248736	17372474.6	6132.921962	196781.6242	2187811.2	894.9059766	23233.68477	0.065975764
Winter	CO_IDLEX	1.0027	0	0	0	472375.6724	252.4118747	4635.248736	17372474.6	6132.921962	196781.6242	2187811.2	894.9059766	23233.68477	0
Winter	CO_RUNEX	1.0027	1.272761923	1.074680539	0	472375.6724	252.4118747	4635.248736	17372474.6	6132.921962	196781.6242	2187811.2	894.9059766	23233.68477	1.258442412
Winter	CO_STREX	1.0027	2.287708049	0	0	472375.6724	252.4118747	4635.248736	17372474.6	6132.921962	196781.6242	2187811.2	894.9059766	23233.68477	2.262752953
Winter	CO2_NBIO_IDLEX	1.0126	0	0	0	472375.6724	252.4118747	4635.248736	17372474.6	6132.921962	196781.6242	2187811.2	894.9059766	23233.68477	0
Winter	CO2_NBIO_RUNEX	1.0126	312.3716091	461.0331077	0	472375.6724	252.4118747	4635.248736	17372474.6	6132.921962	196781.6242	2187811.2	894.9059766	23233.68477	308.9260374
Winter	CO2_NBIO_STREX	1.0126	63.0314901	0	0	472375.6724	252.4118747	4635.248736	17372474.6	6132.921962	196781.6242	2187811.2	894.9059766	23233.68477	62.34392119
Winter	NOX_IDLEX	1.0007	0	0	0	472375.6724	252.4118747	4635.248736	17372474.6	6132.921962	196781.6242	2187811.2	894.9059766	23233.68477	0
Winter	NOX_RUNEX	1.0007	0.102442963	0.968868957	0	472375.6724	252.4118747	4635.248736	17372474.6	6132.921962	196781.6242	2187811.2	894.9059766	23233.68477	0.101598306
Winter	NOX_STREX	1.0007	0.242966687	0	0	472375.6724	252.4118747	4635.248736	17372474.6	6132.921962	196781.6242	2187811.2	894.9059766	23233.68477	0.240316324
Winter	PM10_IDLEX	1.0032	0	0	0	472375.6724	252.4118747	4635.248736	17372474.6	6132.921962	196781.6242	2187811.2	894.9059766	23233.68477	0
Winter	PM10_PMBW	0.036750011	0.036750011	0.036750011	0	472375.6724	252.4118747	4635.248736	17372474.6	6132.921962	196781.6242	2187811.2	894.9059766	23233.68477	0.036750011
Winter	PM10_PMTW	0.008000002	0.008000002	0.008000002	0	472375.6724	252.4118747	4635.248736	17372474.6	6132.921962	196781.6242	2187811.2	894.9059766	23233.68477	0.008000002
Winter	PM10_RUNEX	1.0032	0.002483107	0.135751795	0	472375.6724	252.4118747	4635.248736	17372474.6	6132.921962	196781.6242	2187811.2	894.9059766	23233.68477	0.002501809
Winter	PM10_STREX	1.0032	0.002474476	0	0	472375.6724	252.4118747	4635.248736	17372474.6	6132.921962	196781.6242	2187811.2	894.9059766	23233.68477	0.002447483
Winter	PM25_IDLEX	1.0032	0	0	0	472375.6724	252.4118747	4635.248736	17372474.6	6132.921962	196781.6242	2187811.2	894.9059766	23233.68477	0
Winter	PM25_PMBW	0.015750005	0.015750005	0.015750005	0	472375.6724	252.4118747	4635.248736	17372474.6	6132.921962	196781.6242	2187811.2	894.9059766	23233.68477	0.015750005
Winter	PM25_PMTW	0.002000001	0.002000001	0.002000001	0	472375.6724	252.4118747	4635.248736	17372474.6	6132.921962	196781.6242	2187811.2	894.9059766	23233.68477	0.002000001
Winter	PM25_RUNEX	1.0032	0.002283205	0.129879233	0	472375.6724	252.4118747	4635.248736	17372474.6	6132.921962	196781.6242	2187811.2	894.9059766	23233.68477	0.002302166
Winter	PM25_STREX	1.0032	0.002275283	0	0	472375.6724	252.4118747	4635.248736	17372474.6	6132.921962	196781.6242	2187811.2	894.9059766	23233.68477	0.002250463
Winter	ROG_DIURN		0.5427213	0	0.016129757	472375.6724	252.4118747	4635.248736	17372474.6	6132.921962	196781.6242	2187811.2	894.9059766	23233.68477	0.115935843
Winter	ROG_HTSK	0.206867288	0	0.004888026	0	472375.6724	252.4118747	4635.248736	17372474.6	6132.921962	196781.6242	2187811.2	894.9059766	23233.68477	0.204662052
Winter	ROG_IDLEX	0	0	0	0	472375.6724	252.4118747	4635.248736	17372474.6	6132.921962	196781.6242	2187811.2	894.9059766	23233.68477	0
Winter	ROG_RESTL	0.444884338	0	0.004571725	0	472375.6724	252.4118747	4635.248736	17372474.6	6132.921962	196781.6242	2187811.2	894.9059766	23233.68477	0.095017835
Winter	ROG_RUNEX	0.029308998	0.182600655	0	0	472375.6724	252.4118747	4635.248736	17372474.6	6132.921962	196781.6242	2187811.2	894.9059766	23233.68477	0.029034333
Winter	ROG_RUNLS	0.768811037	0	0	0	472375.6724	252.4118747	4635.248736	17372474.6	6132.921962	196781.6242	2187811.2	894.9059766	23233.68477	0.760424585
Winter	ROG_STREX	0.32927452	0	0	0	472375.6724	252.4118747	4635.248736	17372474.6	6132.921962	196781.6242	2187811.2	894.9059766	23233.68477	0.325682682
Winter	SO2_IDLEX	0	0	0	0	472375.6724	252.4118747	4635.248736	17372474.6	6132.921962	196781.6242	2187811.2	894.9059766	23233.68477	0
Winter	SO2_RUNEX	0.003052706	0.004358421	0	0	472375.6724	252.4118747	4635.248736	17372474.6	6132.921962	196781.6242	2187811.2	894.9059766	23233.68477	0.003018982
Winter	SO2_STREX	0.000615986	0	0	0	472375.6724	252.4118747	4635.248736	17372474.6	6132.921962	196781.6242	2187811.2	894.9059766	23233.68477	0.000609267
Winter	TOG_DIURN	1.0006	0.543046932	0	0.016129757	472375.6724	252.4118747	4635.248736	17372474.6	6132.921962	196781.6242	2187811.2	894.9059766	23233.68477	0.116005384
Winter	TOG_HTSK	1.0006	0.206991409	0	0.004888026	472375.6724	252.4118747	4635.248736	17372474.6	6132.921962	196781.6242	2187811.2	894.9059766	23233.68477	0.204784819
Winter	TOG_IDLEX	1.0007	0	0	0	472375.6724	252.4118747	4635.248736	17372474.6	6132.921962	196781.6242	2187811.2	894.9059766	23233.68477	0
Winter	TOG_RESTL	1.0006	0.445151268	0	0.004571725	472375.6724	252.4118747	4635.248736	17372474.6	6132.921962	196781.6242	2187811.2	894.9059766	23233.68477	0.09507484
Winter	TOG_RUNEX	1.0007	0.04278624	0.207878706	0	472375.6724	252.4118747	4635.248736	17372474.6	6132.921962	196781.6242	2187811.2	894.9059766	23233.68477	0.042364796
Winter	TOG_RUNLS	1.0006	0.769272323	0	0	472375.6724	252.4118747	4635.248736	17372474.6	6132.921962	196781.6242	2187811.2	894.9059766	23233.68477	0.760880839
Winter	TOG_STREX	1.0007	0.36076576	0	0	472375.6724	252.4118747	4635.248736	17372474.6	6132.921962	196781.6242	2187811.2	894.9059766	23233.68477	0.356830407

Winter	CH4_IDLEX	0	0	0	1397479.324	9765.230182	18283.6283	52162943.36	404272.1374	584568.8418	6567821.268	48008.05802	92279.45183	0
Winter	CH4_RUNEX	0.004410305	0.001045686	0	1397479.324	9765.230182	18283.6283	52162943.36	404272.1374	584568.8418	6567821.268	48008.05802	92279.45183	0.004336209
Winter	CH4_STREX	0.06496485	0	0	1397479.324	9765.230182	18283.6283	52162943.36	404272.1374	584568.8418	6567821.268	48008.05802	92279.45183	0.063606232
Winter	CO_IDLEX	1.0027	0	0	1397479.324	9765.230182	18283.6283	52162943.36	404272.1374	584568.8418	6567821.268	48008.05802	92279.45183	0
Winter	CO_RUNEX	1.0027	0.924101248	0.19307509	1397479.324	9765.230182	18283.6283	52162943.36	404272.1374	584568.8418	6567821.268	48008.05802	92279.45183	0.908377706
Winter	CO_STREX	1.0027	2.698055696	0	1397479.324	9765.230182	18283.6283	52162943.36	404272.1374	584568.8418	6567821.268	48008.05802	92279.45183	2.641630923
Winter	CO2_NBIO_IDLEX	1.0126	0	0	1397479.324	9765.230182	18283.6283	52162943.36	404272.1374	584568.8418	6567821.268	48008.05802	92279.45183	0
Winter	CO2_NBIO_RUNEX	1.0126	332.4539423	284.8409516	1397479.324	9765.230182	18283.6283	52162943.36	404272.1374	584568.8418	6567821.268	48008.05802	92279.45183	328.4354353
Winter	CO2_NBIO_STREX	1.0126	68.11918807	0	1397479.324	9765.230182	18283.6283	52162943.36	404272.1374	584568.8418	6567821.268	48008.05802	92279.45183	66.69460305
Winter	NOX_IDLEX	1.0007	0	0	1397479.324	9765.230182	18283.6283	52162943.36	404272.1374	584568.8418	6567821.268	48008.05802	92279.45183	0
Winter	NOX_RUNEX	1.0007	0.073623936	0.044553301	1397479.324	9765.230182	18283.6283	52162943.36	404272.1374	584568.8418	6567821.268	48008.05802	92279.45183	0.072593101
Winter	NOX_STREX	1.0007	0.263859116	0	1397479.324	9765.230182	18283.6283	52162943.36	404272.1374	584568.8418	6567821.268	48008.05802	92279.45183	0.258340997
Winter	PM10_IDLEX	1.0032	0	0	1397479.324	9765.230182	18283.6283	52162943.36	404272.1374	584568.8418	6567821.268	48008.05802	92279.45183	0
Winter	PM10_PMBW	0.036750011	0.036750011	0.036750011	1397479.324	9765.230182	18283.6283	52162943.36	404272.1374	584568.8418	6567821.268	48008.05802	92279.45183	0.036750011
Winter	PM10_PMTW	0.008000002	0.008000002	0.008000002	1397479.324	9765.230182	18283.6283	52162943.36	404272.1374	584568.8418	6567821.268	48008.05802	92279.45183	0.008000002
Winter	PM10_RUNEX	1.0032	0.001811591	0.005906612	1397479.324	9765.230182	18283.6283	52162943.36	404272.1374	584568.8418	6567821.268	48008.05802	92279.45183	0.001822813
Winter	PM10_STREX	1.0032	0.001854015	0	1397479.324	9765.230182	18283.6283	52162943.36	404272.1374	584568.8418	6567821.268	48008.05802	92279.45183	0.001815241
Winter	PM25_IDLEX	1.0032	0	0	1397479.324	9765.230182	18283.6283	52162943.36	404272.1374	584568.8418	6567821.268	48008.05802	92279.45183	0
Winter	PM25_PMBW	0.015750005	0.015750005	0.015750005	1397479.324	9765.230182	18283.6283	52162943.36	404272.1374	584568.8418	6567821.268	48008.05802	92279.45183	0.015750005
Winter	PM25_PMTW	0.002000001	0.002000001	0.002000001	1397479.324	9765.230182	18283.6283	52162943.36	404272.1374	584568.8418	6567821.268	48008.05802	92279.45183	0.002000001
Winter	PM25_RUNEX	1.0032	0.001665719	0.005651094	1397479.324	9765.230182	18283.6283	52162943.36	404272.1374	584568.8418	6567821.268	48008.05802	92279.45183	0.001677712
Winter	PM25_STREX	1.0032	0.001704731	0	1397479.324	9765.230182	18283.6283	52162943.36	404272.1374	584568.8418	6567821.268	48008.05802	92279.45183	0.001669079
Winter	ROG_DIURN	0.318723642	0	0.016129757	1397479.324	9765.230182	18283.6283	52162943.36	404272.1374	584568.8418	6567821.268	48008.05802	92279.45183	0.066442663
Winter	ROG_HTSK	0.127609976	0	0.004888026	1397479.324	9765.230182	18283.6283	52162943.36	404272.1374	584568.8418	6567821.268	48008.05802	92279.45183	0.125008494
Winter	ROG_IDLEX	0	0	0	1397479.324	9765.230182	18283.6283	52162943.36	404272.1374	584568.8418	6567821.268	48008.05802	92279.45183	0
Winter	ROG_RESTL	0.326403427	0	0.004571725	1397479.324	9765.230182	18283.6283	52162943.36	404272.1374	584568.8418	6567821.268	48008.05802	92279.45183	0.068011066
Winter	ROG_RUNEX	0.017983877	0.022513	0	1397479.324	9765.230182	18283.6283	52162943.36	404272.1374	584568.8418	6567821.268	48008.05802	92279.45183	0.017820537
Winter	ROG_RUNLS	0.467121262	0	0	1397479.324	9765.230182	18283.6283	52162943.36	404272.1374	584568.8418	6567821.268	48008.05802	92279.45183	0.457352297
Winter	ROG_STREX	0.299448416	0	0	1397479.324	9765.230182	18283.6283	52162943.36	404272.1374	584568.8418	6567821.268	48008.05802	92279.45183	0.293186015
Winter	SO2_IDLEX	0	0	0	1397479.324	9765.230182	18283.6283	52162943.36	404272.1374	584568.8418	6567821.268	48008.05802	92279.45183	0
Winter	SO2_RUNEX	0.003248964	0.002692771	0	1397479.324	9765.230182	18283.6283	52162943.36	404272.1374	584568.8418	6567821.268	48008.05802	92279.45183	0.003209001
Winter	SO2_STREX	0.000665707	0	0	1397479.324	9765.230182	18283.6283	52162943.36	404272.1374	584568.8418	6567821.268	48008.05802	92279.45183	0.000651785
Winter	TOG_DIURN	1.0006	0.318914876	0.016129757	1397479.324	9765.230182	18283.6283	52162943.36	404272.1374	584568.8418	6567821.268	48008.05802	92279.45183	0.066482502
Winter	TOG_HTSK	1.0006	0.127686542	0.004888026	1397479.324	9765.230182	18283.6283	52162943.36	404272.1374	584568.8418	6567821.268	48008.05802	92279.45183	0.125083459
Winter	TOG_IDLEX	1.0007	0	0	1397479.324	9765.230182	18283.6283	52162943.36	404272.1374	584568.8418	6567821.268	48008.05802	92279.45183	0
Winter	TOG_RESTL	1.0006	0.32659927	0.004571725	1397479.324	9765.230182	18283.6283	52162943.36	404272.1374	584568.8418	6567821.268	48008.05802	92279.45183	0.068051865
Winter	TOG_RUNEX	1.0007	0.026255603	0.025629554	1397479.324	9765.230182	18283.6283	52162943.36	404272.1374	584568.8418	6567821.268	48008.05802	92279.45183	0.02596208
Winter	TOG_RUNLS	1.0006	0.467401535	0	1397479.324	9765.230182	18283.6283	52162943.36	404272.1374	584568.8418	6567821.268	48008.05802	92279.45183	0.457626709
Winter	TOG_STREX	1.0007	0.32808751	0	1397479.324	9765.230182	18283.6283	52162943.36	404272.1374	584568.8418	6567821.268	48008.05802	92279.45183	0.321226171

Winter	CH4_IDLEX	0	0	0	931795.9713	21297.50738	10378.926	32264362.15	823486.0536	342100.1259	4326648.043	104465.343	52903.33041	0
Winter	CH4_RUNEX	0.005748001	0.00067688	0	931795.9713	21297.50738	10378.926	32264362.15	823486.0536	342100.1259	4326648.043	104465.343	52903.33041	0.005564262
Winter	CH4_STREX	0.077959367	0	0	931795.9713	21297.50738	10378.926	32264362.15	823486.0536	342100.1259	4326648.043	104465.343	52903.33041	0.075223346
Winter	CO_IDLEX	1.0027	0	0	931795.9713	21297.50738	10378.926	32264362.15	823486.0536	342100.1259	4326648.043	104465.343	52903.33041	0
Winter	CO_RUNEX	1.0027	1.084816734	0.271127808	931795.9713	21297.50738	10378.926	32264362.15	823486.0536	342100.1259	4326648.043	104465.343	52903.33041	1.053671684
Winter	CO_STREX	1.0027	3.132507356	0	931795.9713	21297.50738	10378.926	32264362.15	823486.0536	342100.1259	4326648.043	104465.343	52903.33041	3.022570539
Winter	CO2_NBIO_IDLEX	1.0126	0	0	931795.9713	21297.50738	10378.926	32264362.15	823486.0536	342100.1259	4326648.043	104465.343	52903.33041	0
Winter	CO2_NBIO_RUNEX	1.0126	409.5449093	367.984445	931795.9713	21297.50738	10378.926	32264362.15	823486.0536	342100.1259	4326648.043	104465.343	52903.33041	404.3301293
Winter	CO2_NBIO_STREX	1.0126	83.97983496	0	931795.9713	21297.50738	10378.926	32264362.15	823486.0536	342100.1259	4326648.043	104465.343	52903.33041	81.0325232
Winter	NOX_IDLEX	1.0007	0	0	931795.9713	21297.50738	10378.926	32264362.15	823486.0536	342100.1259	4326648.043	104465.343	52903.33041	0
Winter	NOX_RUNEX	1.0007	0.096383457	0.040327302	931795.9713	21297.50738	10378.926	32264362.15	823486.0536	342100.1259	4326648.043	104465.343	52903.33041	0.094016291
Winter	NOX_STREX	1.0007	0.325803807	0	931795.9713	21297.50738	10378.926	32264362.15	823486.0536	342100.1259	4326648.043	104465.343	52903.33041	0.31436957
Winter	PM10_IDLEX	1.0032	0	0	931795.9713	21297.50738	10378.926	32264362.15	823486.0536	342100.1259	4326648.043	104465.343	52903.33041	0
Winter	PM10_PMBW		0.036750011	0.036750011	0.036750011	931795.9713	21297.50738	10378.926	32264362.15	823486.0536	342100.1259	4326648.043	52903.33041	0.036750011
Winter	PM10_PMTW		0.008000002	0.008000002	0.008000002	931795.9713	21297.50738	10378.926	32264362.15	823486.0536	342100.1259	4326648.043	52903.33041	0.008000002
Winter	PM10_RUNEX	1.0032	0.001903774	0.004783377	931795.9713	21297.50738	10378.926	32264362.15	823486.0536	342100.1259	4326648.043	104465.343	52903.33041	0.001955226
Winter	PM10_STREX	1.0032	0.002004383	0	931795.9713	21297.50738	10378.926	32264362.15	823486.0536	342100.1259	4326648.043	104465.343	52903.33041	0.001934038
Winter	PM25_IDLEX	1.0032	0	0	931795.9713	21297.50738	10378.926	32264362.15	823486.0536	342100.1259	4326648.043	104465.343	52903.33041	0
Winter	PM25_PMBW		0.015750005	0.015750005	0.015750005	931795.9713	21297.50738	10378.926	32264362.15	823486.0536	342100.1259	4326648.043	52903.33041	0.015750005
Winter	PM25_PMTW		0.002000001	0.002000001	0.002000001	931795.9713	21297.50738	10378.926	32264362.15	823486.0536	342100.1259	4326648.043	52903.33041	0.002000001
Winter	PM25_RUNEX	1.0032	0.001750679	0.004576451	931795.9713	21297.50738	10378.926	32264362.15	823486.0536	342100.1259	4326648.043	104465.343	52903.33041	0.001802372
Winter	PM25_STREX	1.0032	0.001843197	0	931795.9713	21297.50738	10378.926	32264362.15	823486.0536	342100.1259	4326648.043	104465.343	52903.33041	0.001778509
Winter	ROG_DIURN		0.363549336	0	0.016129757	931795.9713	21297.50738	10378.926	32264362.15	823486.0536	342100.1259	4326648.043	52903.33041	0.075584289
Winter	ROG_HTSK		0.146803872	0	0.004888026	931795.9713	21297.50738	10378.926	32264362.15	823486.0536	342100.1259	4326648.043	52903.33041	0.141709391
Winter	ROG_IDLEX		0	0	931795.9713	21297.50738	10378.926	32264362.15	823486.0536	342100.1259	4326648.043	104465.343	52903.33041	0
Winter	ROG_RESTL		0.392751459	0	0.004571725	931795.9713	21297.50738	10378.926	32264362.15	823486.0536	342100.1259	4326648.043	52903.33041	0.08162585
Winter	ROG_RUNEX		0.024283555	0.014572836	0	931795.9713	21297.50738	10378.926	32264362.15	823486.0536	342100.1259	4326648.043	52903.33041	0.023795847
Winter	ROG_RUNLS		0.495573099	0	0	931795.9713	21297.50738	10378.926	32264362.15	823486.0536	342100.1259	4326648.043	52903.33041	0.478180729
Winter	ROG_STREX		0.380432123	0	0	931795.9713	21297.50738	10378.926	32264362.15	823486.0536	342100.1259	4326648.043	52903.33041	0.367808679
Winter	SO2_IDLEX		0	0	931795.9713	21297.50738	10378.926	32264362.15	823486.0536	342100.1259	4326648.043	104465.343	52903.33041	0
Winter	SO2_RUNEX		0.004002349	0.003478776	0	931795.9713	21297.50738	10378.926	32264362.15	823486.0536	342100.1259	4326648.043	52903.33041	0.003948495
Winter	SO2_STREX		0.000820708	0	0	931795.9713	21297.50738	10378.926	32264362.15	823486.0536	342100.1259	4326648.043	52903.33041	0.000791905
Winter	TOG_DIURN	1.0006	0.363767466	0	0.016129757	931795.9713	21297.50738	10378.926	32264362.15	823486.0536	342100.1259	4326648.043	52903.33041	0.075629617
Winter	TOG_HTSK	1.0006	0.146891955	0	0.004888026	931795.9713	21297.50738	10378.926	32264362.15	823486.0536	342100.1259	4326648.043	52903.33041	0.141794382
Winter	TOG_IDLEX	1.0007	0	0	931795.9713	21297.50738	10378.926	32264362.15	823486.0536	342100.1259	4326648.043	104465.343	52903.33041	0
Winter	TOG_RESTL	1.0006	0.39298711	0	0.004571725	931795.9713	21297.50738	10378.926	32264362.15	823486.0536	342100.1259	4326648.043	52903.33041	0.0816274819
Winter	TOG_RUNEX	1.0007	0.035378204	0.016590205	0	931795.9713	21297.50738	10378.926	32264362.15	823486.0536	342100.1259	4326648.043	52903.33041	0.034553359
Winter	TOG_RUNLS	1.0006	0.495870443	0	0	931795.9713	21297.50738	10378.926	32264362.15	823486.0536	342100.1259	4326648.043	52903.33041	0.478467637
Winter	TOG_STREX	1.0007	0.41681246	0	931795.9713	21297.50738	10378.926	32264362.15	823486.0536	342100.1259	4326648.043	104465.343	52903.33041	0.402184229

Winter	CH4_IDLEX	0.120656141	0.005098128	0	105195.9307	68776.35703	0	3800052.408	2893383.107	0	1567262.626	865120.0508	0	0.0053623
Winter	CH4_RUNEX	0.006572003	0.00285385	0	105195.9307	68776.35703	0	3800052.408	2893383.107	0	1567262.626	865120.0508	0	0.00496475
Winter	CH4_STREX	0.022971558	0	0	105195.9307	68776.35703	0	3800052.408	2893383.107	0	1567262.626	865120.0508	0	0.014801316
Winter	CO_IDLEX	3.75321727	0.909745076	0	105195.9307	68776.35703	0	3800052.408	2893383.107	0	1567262.626	865120.0508	0	0.188042836
Winter	CO_RUNEX	0.760699264	0.306036904	0	105195.9307	68776.35703	0	3800052.408	2893383.107	0	1567262.626	865120.0508	0	0.564161568
Winter	CO_STREX	1.692215846	0	0	105195.9307	68776.35703	0	3800052.408	2893383.107	0	1567262.626	865120.0508	0	1.090349259
Winter	CO2_NBIO_IDLEX	119.6615911	128.6640929	0	105195.9307	68776.35703	0	3800052.408	2893383.107	0	1567262.626	865120.0508	0	8.813152735
Winter	CO2_NBIO_RUNEX	801.7783782	457.5379283	0	105195.9307	68776.35703	0	3800052.408	2893383.107	0	1567262.626	865120.0508	0	652.9729553
Winter	CO2_NBIO_STREX	18.7362328	0	0	105195.9307	68776.35703	0	3800052.408	2893383.107	0	1567262.626	865120.0508	0	12.07235921
Winter	NOX_IDLEX	0.036967818	1.762594854	0	105195.9307	68776.35703	0	3800052.408	2893383.107	0	1567262.626	865120.0508	0	0.051436691
Winter	NOX_RUNEX	0.17846135	1.016610182	0	105195.9307	68776.35703	0	3800052.408	2893383.107	0	1567262.626	865120.0508	0	0.540769415
Winter	NOX_STREX	0.49381406	0	0	105195.9307	68776.35703	0	3800052.408	2893383.107	0	1567262.626	865120.0508	0	0.318180329
Winter	PM10_IDLEX	0	0.027712802	0	105195.9307	68776.35703	0	3800052.408	2893383.107	0	1567262.626	865120.0508	0	0.000783588
Winter	PM10_PMBW	0.076440022	0.076440022	0	105195.9307	68776.35703	0	3800052.408	2893383.107	0	1567262.626	865120.0508	0	0.076440022
Winter	PM10_PMTW	0.008000002	0.012000003	0	105195.9307	68776.35703	0	3800052.408	2893383.107	0	1567262.626	865120.0508	0	0.00972909
Winter	PM10_RUNEX	0.001345512	0.012086234	0	105195.9307	68776.35703	0	3800052.408	2893383.107	0	1567262.626	865120.0508	0	0.005988423
Winter	PM10_STREX	0.000416222	0	0	105195.9307	68776.35703	0	3800052.408	2893383.107	0	1567262.626	865120.0508	0	0.000268185
Winter	PM25_IDLEX	0	0.026513959	0	105195.9307	68776.35703	0	3800052.408	2893383.107	0	1567262.626	865120.0508	0	0.00074969
Winter	PM25_PMBW	0.032760009	0.032760009	0	105195.9307	68776.35703	0	3800052.408	2893383.107	0	1567262.626	865120.0508	0	0.032760009
Winter	PM25_PMTW	0.002000001	0.003000001	0	105195.9307	68776.35703	0	3800052.408	2893383.107	0	1567262.626	865120.0508	0	0.002432272
Winter	PM25_RUNEX	0.001237149	0.011563389	0	105195.9307	68776.35703	0	3800052.408	2893383.107	0	1567262.626	865120.0508	0	0.005700891
Winter	PM25_STREX	0.000382701	0	0	105195.9307	68776.35703	0	3800052.408	2893383.107	0	1567262.626	865120.0508	0	0.000246587
Winter	ROG_DIURN	0.056959007	0	0	105195.9307	68776.35703	0	3800052.408	2893383.107	0	1567262.626	865120.0508	0	0.002463369
Winter	ROG_HTSK	0.132695671	0	0	105195.9307	68776.35703	0	3800052.408	2893383.107	0	1567262.626	865120.0508	0	0.085500101
Winter	ROG_IDLEX	0.423478982	0.109759705	0	105195.9307	68776.35703	0	3800052.408	2893383.107	0	1567262.626	865120.0508	0	0.021418151
Winter	ROG_RESTL	0.033138548	0	0	105195.9307	68776.35703	0	3800052.408	2893383.107	0	1567262.626	865120.0508	0	0.001433179
Winter	ROG_RUNEX	0.031520997	0.061441713	0	105195.9307	68776.35703	0	3800052.408	2893383.107	0	1567262.626	865120.0508	0	0.044454877
Winter	ROG_RUNLS	0.865304138	0	0	105195.9307	68776.35703	0	3800052.408	2893383.107	0	1567262.626	865120.0508	0	0.557543371
Winter	ROG_STREX	0.113022133	0	0	105195.9307	68776.35703	0	3800052.408	2893383.107	0	1567262.626	865120.0508	0	0.072823807
Winter	SO2_IDLEX	0.001184148	0.001216338	0	105195.9307	68776.35703	0	3800052.408	2893383.107	0	1567262.626	865120.0508	0	8.56045E-05
Winter	SO2_RUNEX	0.007934247	0.004325379	0	105195.9307	68776.35703	0	3800052.408	2893383.107	0	1567262.626	865120.0508	0	0.006374235
Winter	SO2_STREX	0.00018541	0	0	105195.9307	68776.35703	0	3800052.408	2893383.107	0	1567262.626	865120.0508	0	0.000119466
Winter	TOG_DIURN	0.056959007	0	0	105195.9307	68776.35703	0	3800052.408	2893383.107	0	1567262.626	865120.0508	0	0.002463369
Winter	TOG_HTSK	0.132695671	0	0	105195.9307	68776.35703	0	3800052.408	2893383.107	0	1567262.626	865120.0508	0	0.085500101
Winter	TOG_IDLEX	0.617939537	0.124954127	0	105195.9307	68776.35703	0	3800052.408	2893383.107	0	1567262.626	865120.0508	0	0.030257827
Winter	TOG_RESTL	0.033138548	0	0	105195.9307	68776.35703	0	3800052.408	2893383.107	0	1567262.626	865120.0508	0	0.001433179
Winter	TOG_RUNEX	0.045995365	0.069947305	0	105195.9307	68776.35703	0	3800052.408	2893383.107	0	1567262.626	865120.0508	0	0.056349112
Winter	TOG_RUNLS	0.865304138	0	0	105195.9307	68776.35703	0	3800052.408	2893383.107	0	1567262.626	865120.0508	0	0.557543371
Winter	TOG_STREX	0.12374501	0	0	105195.9307	68776.35703	0	3800052.408	2893383.107	0	1567262.626	865120.0508	0	0.079732902

Winter	CH4_IDLEX	0.120839698	0.005098128	0	17937.98852	27873.77545	0	625878.5235	1126544.027	0	267249.3013	350617.0299	0	0.003738228
Winter	CH4_RUNEX	0.004784004	0.002826859	0	17937.98852	27873.77545	0	625878.5235	1126544.027	0	267249.3013	350617.0299	0	0.003525854
Winter	CH4_STREX	0.023618308	0	0	17937.98852	27873.77545	0	625878.5235	1126544.027	0	267249.3013	350617.0299	0	0.010215764
Winter	CO_IDLEX	3.760128638	0.909745076	0	17937.98852	27873.77545	0	625878.5235	1126544.027	0	267249.3013	350617.0299	0	0.15020591
Winter	CO_RUNEX	0.533453832	0.301932737	0	17937.98852	27873.77545	0	625878.5235	1126544.027	0	267249.3013	350617.0299	0	0.384620603
Winter	CO_STREX	1.675801189	0	0	17937.98852	27873.77545	0	625878.5235	1126544.027	0	267249.3013	350617.0299	0	0.72484399
Winter	CO2_NBIO_IDLEX	138.1885718	207.1180963	0	17937.98852	27873.77545	0	625878.5235	1126544.027	0	267249.3013	350617.0299	0	13.35562063
Winter	CO2_NBIO_RUNEX	920.087796	506.2676696	0	17937.98852	27873.77545	0	625878.5235	1126544.027	0	267249.3013	350617.0299	0	654.063719
Winter	CO2_NBIO_STREX	21.3294667	0	0	17937.98852	27873.77545	0	625878.5235	1126544.027	0	267249.3013	350617.0299	0	9.225757714
Winter	NOX_IDLEX	0.037086134	1.783078815	0	17937.98852	27873.77545	0	625878.5235	1126544.027	0	267249.3013	350617.0299	0	0.081516643
Winter	NOX_RUNEX	0.178715726	0.980578318	0	17937.98852	27873.77545	0	625878.5235	1126544.027	0	267249.3013	350617.0299	0	0.694192723
Winter	NOX_STREX	0.50935405	0	0	17937.98852	27873.77545	0	625878.5235	1126544.027	0	267249.3013	350617.0299	0	0.220313856
Winter	PM10_IDLEX	0	0.02828127	0	17937.98852	27873.77545	0	625878.5235	1126544.027	0	267249.3013	350617.0299	0	0.001275852
Winter	PM10_PMBW	0.089180026	0.089180026	0	17937.98852	27873.77545	0	625878.5235	1126544.027	0	267249.3013	350617.0299	0	0.089180026
Winter	PM10_PMTW	0.008000002	0.012000003	0	17937.98852	27873.77545	0	625878.5235	1126544.027	0	267249.3013	350617.0299	0	0.010571401
Winter	PM10_RUNEX	0.001221239	0.014296479	0	17937.98852	27873.77545	0	625878.5235	1126544.027	0	267249.3013	350617.0299	0	0.009626651
Winter	PM10_STREX	0.000351465	0	0	17937.98852	27873.77545	0	625878.5235	1126544.027	0	267249.3013	350617.0299	0	0.000152021
Winter	PM25_IDLEX	0	0.027057835	0	17937.98852	27873.77545	0	625878.5235	1126544.027	0	267249.3013	350617.0299	0	0.001220659
Winter	PM25_PMBW	0.038220011	0.038220011	0	17937.98852	27873.77545	0	625878.5235	1126544.027	0	267249.3013	350617.0299	0	0.038220011
Winter	PM25_PMTW	0.002000001	0.003000001	0	17937.98852	27873.77545	0	625878.5235	1126544.027	0	267249.3013	350617.0299	0	0.00264285
Winter	PM25_RUNEX	0.001122884	0.01367802	0	17937.98852	27873.77545	0	625878.5235	1126544.027	0	267249.3013	350617.0299	0	0.009193948
Winter	PM25_STREX	0.000323159	0	0	17937.98852	27873.77545	0	625878.5235	1126544.027	0	267249.3013	350617.0299	0	0.000139778
Winter	ROG_DIURN	0.050708152	0	0	17937.98852	27873.77545	0	625878.5235	1126544.027	0	267249.3013	350617.0299	0	0.001472167
Winter	ROG_HTSK	0.128776329	0	0	17937.98852	27873.77545	0	625878.5235	1126544.027	0	267249.3013	350617.0299	0	0.055700371
Winter	ROG_IDLEX	0.425146925	0.109759705	0	17937.98852	27873.77545	0	625878.5235	1126544.027	0	267249.3013	350617.0299	0	0.017294514
Winter	ROG_RESTL	0.03029191	0	0	17937.98852	27873.77545	0	625878.5235	1126544.027	0	267249.3013	350617.0299	0	0.000879439
Winter	ROG_RUNEX	0.021067867	0.060860602	0	17937.98852	27873.77545	0	625878.5235	1126544.027	0	267249.3013	350617.0299	0	0.046648608
Winter	ROG_RUNLS	0.794092325	0	0	17937.98852	27873.77545	0	625878.5235	1126544.027	0	267249.3013	350617.0299	0	0.343473351
Winter	ROG_STREX	0.115985298	0	0	17937.98852	27873.77545	0	625878.5235	1126544.027	0	267249.3013	350617.0299	0	0.050167792
Winter	SO2_IDLEX	0.001367488	0.001958011	0	17937.98852	27873.77545	0	625878.5235	1126544.027	0	267249.3013	350617.0299	0	0.000128033
Winter	SO2_RUNEX	0.009105015	0.00478605	0	17937.98852	27873.77545	0	625878.5235	1126544.027	0	267249.3013	350617.0299	0	0.00632857
Winter	SO2_STREX	0.000211072	0	0	17937.98852	27873.77545	0	625878.5235	1126544.027	0	267249.3013	350617.0299	0	9.12964E-05
Winter	TOG_DIURN	0.050708152	0	0	17937.98852	27873.77545	0	625878.5235	1126544.027	0	267249.3013	350617.0299	0	0.001472167
Winter	TOG_HTSK	0.128776329	0	0	17937.98852	27873.77545	0	625878.5235	1126544.027	0	267249.3013	350617.0299	0	0.055700371
Winter	TOG_IDLEX	0.620373395	0.124954127	0	17937.98852	27873.77545	0	625878.5235	1126544.027	0	267249.3013	350617.0299	0	0.023647824
Winter	TOG_RESTL	0.03029191	0	0	17937.98852	27873.77545	0	625878.5235	1126544.027	0	267249.3013	350617.0299	0	0.000879439
Winter	TOG_RUNEX	0.030742182	0.069285749	0	17937.98852	27873.77545	0	625878.5235	1126544.027	0	267249.3013	350617.0299	0	0.055519896
Winter	TOG_RUNLS	0.794092325	0	0	17937.98852	27873.77545	0	625878.5235	1126544.027	0	267249.3013	350617.0299	0	0.343473351
Winter	TOG_STREX	0.126989302	0	0	17937.98852	27873.77545	0	625878.5235	1126544.027	0	267249.3013	350617.0299	0	0.054927418

Winter	CH4_IDLEX	0.288112355	0.003083224	0	14623.1082	64520.19017	0	797300.0842	4246866.5	0	292579.148	635166.6395	0	0.004755644
Winter	CH4_RUNEX	0.011229223	0.000367987	0	14623.1082	64520.19017	0	797300.0842	4246866.5	0	292579.148	635166.6395	0	0.002084755
Winter	CH4_STREX	0.038763388	0	0	14623.1082	64520.19017	0	797300.0842	4246866.5	0	292579.148	635166.6395	0	0.012224641
Winter	CO_IDLEX	19.87788094	2.601964977	0	14623.1082	64520.19017	0	797300.0842	4246866.5	0	292579.148	635166.6395	0	0.494268672
Winter	CO_RUNEX	1.356378543	0.07555287	0	14623.1082	64520.19017	0	797300.0842	4246866.5	0	292579.148	635166.6395	0	0.27800503
Winter	CO_STREX	4.40156754	0	0	14623.1082	64520.19017	0	797300.0842	4246866.5	0	292579.148	635166.6395	0	1.388103183
Winter	CO2_NBIO_IDLEX	507.3626751	813.1441359	0	14623.1082	64520.19017	0	797300.0842	4246866.5	0	292579.148	635166.6395	0	64.54724383
Winter	CO2_NBIO_RUNEX	1656.257755	913.1853408	0	14623.1082	64520.19017	0	797300.0842	4246866.5	0	292579.148	635166.6395	0	1030.638182
Winter	CO2_NBIO_STREX	38.30770133	0	0	14623.1082	64520.19017	0	797300.0842	4246866.5	0	292579.148	635166.6395	0	12.08093291
Winter	NOX_IDLEX	0.084999317	5.189912692	0	14623.1082	64520.19017	0	797300.0842	4246866.5	0	292579.148	635166.6395	0	0.362272847
Winter	NOX_RUNEX	0.379045169	1.191571828	0	14623.1082	64520.19017	0	797300.0842	4246866.5	0	292579.148	635166.6395	0	1.063140786
Winter	NOX_STREX	0.363801306	2.145417204	0	14623.1082	64520.19017	0	797300.0842	4246866.5	0	292579.148	635166.6395	0	1.583556759
Winter	PM10_IDLEX	0	0.005655059	0	14623.1082	64520.19017	0	797300.0842	4246866.5	0	292579.148	635166.6395	0	0.000393282
Winter	PM10_PMBW	0.130340037	0.130340037	0	14623.1082	64520.19017	0	797300.0842	4246866.5	0	292579.148	635166.6395	0	0.130340037
Winter	PM10_PMTW	0.012000003	0.012000003	0	14623.1082	64520.19017	0	797300.0842	4246866.5	0	292579.148	635166.6395	0	0.012000003
Winter	PM10_RUNEX	0.001107341	0.007072782	0	14623.1082	64520.19017	0	797300.0842	4246866.5	0	292579.148	635166.6395	0	0.006129862
Winter	PM10_STREX	0.00042701	0	0	14623.1082	64520.19017	0	797300.0842	4246866.5	0	292579.148	635166.6395	0	0.000134664
Winter	PM25_IDLEX	0	0.005410424	0	14623.1082	64520.19017	0	797300.0842	4246866.5	0	292579.148	635166.6395	0	0.000376269
Winter	PM25_PMBW	0.055860016	0.055860016	0	14623.1082	64520.19017	0	797300.0842	4246866.5	0	292579.148	635166.6395	0	0.055860016
Winter	PM25_PMTW	0.003000001	0.003000001	0	14623.1082	64520.19017	0	797300.0842	4246866.5	0	292579.148	635166.6395	0	0.003000001
Winter	PM25_RUNEX	0.001018159	0.006766816	0	14623.1082	64520.19017	0	797300.0842	4246866.5	0	292579.148	635166.6395	0	0.005858162
Winter	PM25_STREX	0.00039262	0	0	14623.1082	64520.19017	0	797300.0842	4246866.5	0	292579.148	635166.6395	0	0.000123819
Winter	ROG_DIURN	0.0405073	0	0	14623.1082	64520.19017	0	797300.0842	4246866.5	0	292579.148	635166.6395	0	0.000638475
Winter	ROG_HTSK	0.089166238	0	0	14623.1082	64520.19017	0	797300.0842	4246866.5	0	292579.148	635166.6395	0	0.028119968
Winter	ROG_IDLEX	1.089556261	0.06638097	0	14623.1082	64520.19017	0	797300.0842	4246866.5	0	292579.148	635166.6395	0	0.021790034
Winter	ROG_RESTL	0.025349809	0	0	14623.1082	64520.19017	0	797300.0842	4246866.5	0	292579.148	635166.6395	0	0.000399563
Winter	ROG_RUNEX	0.053927856	0.007922648	0	14623.1082	64520.19017	0	797300.0842	4246866.5	0	292579.148	635166.6395	0	0.015194406
Winter	ROG_RUNLS	0.478802338	0	0	14623.1082	64520.19017	0	797300.0842	4246866.5	0	292579.148	635166.6395	0	0.150997808
Winter	ROG_STREX	0.204788901	0	0	14623.1082	64520.19017	0	797300.0842	4246866.5	0	292579.148	635166.6395	0	0.064583384
Winter	SO2_IDLEX	0.005020765	0.007682183	0	14623.1082	64520.19017	0	797300.0842	4246866.5	0	292579.148	635166.6395	0	0.000613395
Winter	SO2_RUNEX	0.016390013	0.008627322	0	14623.1082	64520.19017	0	797300.0842	4246866.5	0	292579.148	635166.6395	0	0.009854323
Winter	SO2_STREX	0.000379086	0	0	14623.1082	64520.19017	0	797300.0842	4246866.5	0	292579.148	635166.6395	0	0.000119551
Winter	TOG_DIURN	0.0405073	0	0	14623.1082	64520.19017	0	797300.0842	4246866.5	0	292579.148	635166.6395	0	0.000638475
Winter	TOG_HTSK	0.089166238	0	0	14623.1082	64520.19017	0	797300.0842	4246866.5	0	292579.148	635166.6395	0	0.028119968
Winter	TOG_IDLEX	1.589877939	0.075569681	0	14623.1082	64520.19017	0	797300.0842	4246866.5	0	292579.148	635166.6395	0	0.030315123
Winter	TOG_RESTL	0.025349809	0	0	14623.1082	64520.19017	0	797300.0842	4246866.5	0	292579.148	635166.6395	0	0.000399563
Winter	TOG_RUNEX	0.078691401	0.009019332	0	14623.1082	64520.19017	0	797300.0842	4246866.5	0	292579.148	635166.6395	0	0.020031963
Winter	TOG_RUNLS	0.478802338	0	0	14623.1082	64520.19017	0	797300.0842	4246866.5	0	292579.148	635166.6395	0	0.150997808
Winter	TOG_STREX	0.224218069	0	0	14623.1082	64520.19017	0	797300.0842	4246866.5	0	292579.148	635166.6395	0	0.070710676

Winter	CH4_IDLEX	0.196705383	0.038115764	0	3965.955178	3071.453276	0	159342.8081	241091.7355	0	79350.83121	29880.3719	0	0.008213729
Winter	CH4_RUNEX	0.011558427	0.000516214	0	3965.955178	3071.453276	0	159342.8081	241091.7355	0	79350.83121	29880.3719	0	0.004910183
Winter	CH4_STREX	0.029685943	0	0	3965.955178	3071.453276	0	159342.8081	241091.7355	0	79350.83121	29880.3719	0	0.021565305
Winter	CO_IDLEX	5.762509755	14.54548275	0	3965.955178	3071.453276	0	159342.8081	241091.7355	0	79350.83121	29880.3719	0	0.618226515
Winter	CO_RUNEX	1.356403394	0.11921052	0	3965.955178	3071.453276	0	159342.8081	241091.7355	0	79350.83121	29880.3719	0	0.611520162
Winter	CO_STREX	3.259664251	0	0	3965.955178	3071.453276	0	159342.8081	241091.7355	0	79350.83121	29880.3719	0	2.367977834
Winter	CO2_NBIO_IDLEX	375.5069578	2772.322474	0	3965.955178	3071.453276	0	159342.8081	241091.7355	0	79350.83121	29880.3719	0	91.58832294
Winter	CO2_NBIO_RUNEX	1676.594982	1143.605491	0	3965.955178	3071.453276	0	159342.8081	241091.7355	0	79350.83121	29880.3719	0	1355.695191
Winter	CO2_NBIO_STREX	26.2515976	0	0	3965.955178	3071.453276	0	159342.8081	241091.7355	0	79350.83121	29880.3719	0	19.07043071
Winter	NOX_IDLEX	0.064925814	13.21288293	0	3965.955178	3071.453276	0	159342.8081	241091.7355	0	79350.83121	29880.3719	0	0.373888086
Winter	NOX_RUNEX	0.425823091	1.615544285	0	3965.955178	3071.453276	0	159342.8081	241091.7355	0	79350.83121	29880.3719	0	1.142124799
Winter	NOX_STREX	0.32370947	2.209292637	0	3965.955178	3071.453276	0	159342.8081	241091.7355	0	79350.83121	29880.3719	0	0.839513789
Winter	PM10_IDLEX	0	0.004849561	0	3965.955178	3071.453276	0	159342.8081	241091.7355	0	79350.83121	29880.3719	0	0.000136364
Winter	PM10_PMBW	0.130340037	0.130340037	0	3965.955178	3071.453276	0	159342.8081	241091.7355	0	79350.83121	29880.3719	0	0.130340037
Winter	PM10_PMTW	0.012000003	0.012000003	0	3965.955178	3071.453276	0	159342.8081	241091.7355	0	79350.83121	29880.3719	0	0.012000003
Winter	PM10_RUNEX	0.00099627	0.011112634	0	3965.955178	3071.453276	0	159342.8081	241091.7355	0	79350.83121	29880.3719	0	0.007087082
Winter	PM10_STREX	0.000275325	0	0	3965.955178	3071.453276	0	159342.8081	241091.7355	0	79350.83121	29880.3719	0	0.000200009
Winter	PM25_IDLEX	0	0.004639771	0	3965.955178	3071.453276	0	159342.8081	241091.7355	0	79350.83121	29880.3719	0	0.000130465
Winter	PM25_PMBW	0.055860016	0.055860016	0	3965.955178	3071.453276	0	159342.8081	241091.7355	0	79350.83121	29880.3719	0	0.055860016
Winter	PM25_PMTW	0.003000001	0.003000001	0	3965.955178	3071.453276	0	159342.8081	241091.7355	0	79350.83121	29880.3719	0	0.003000001
Winter	PM25_RUNEX	0.000916033	0.010631906	0	3965.955178	3071.453276	0	159342.8081	241091.7355	0	79350.83121	29880.3719	0	0.00676572
Winter	PM25_STREX	0.000253151	0	0	3965.955178	3071.453276	0	159342.8081	241091.7355	0	79350.83121	29880.3719	0	0.000183901
Winter	ROG_DIURN	0.052670528	0	0	3965.955178	3071.453276	0	159342.8081	241091.7355	0	79350.83121	29880.3719	0	0.001912356
Winter	ROG_HTSK	0.032469607	0	0	3965.955178	3071.453276	0	159342.8081	241091.7355	0	79350.83121	29880.3719	0	0.023587494
Winter	ROG_IDLEX	0.744264948	0.820621955	0	3965.955178	3071.453276	0	159342.8081	241091.7355	0	79350.83121	29880.3719	0	0.050097621
Winter	ROG_RESTL	0.02563537	0	0	3965.955178	3071.453276	0	159342.8081	241091.7355	0	79350.83121	29880.3719	0	0.000930766
Winter	ROG_RUNEX	0.055355635	0.011113939	0	3965.955178	3071.453276	0	159342.8081	241091.7355	0	79350.83121	29880.3719	0	0.028718804
Winter	ROG_RUNLS	0.394086768	0	0	3965.955178	3071.453276	0	159342.8081	241091.7355	0	79350.83121	29880.3719	0	0.286283696
Winter	ROG_STREX	0.156138596	0	0	3965.955178	3071.453276	0	159342.8081	241091.7355	0	79350.83121	29880.3719	0	0.113426631
Winter	SO2_IDLEX	0.003715946	0.026191528	0	3965.955178	3071.453276	0	159342.8081	241091.7355	0	79350.83121	29880.3719	0	0.000871393
Winter	SO2_RUNEX	0.016591266	0.010804218	0	3965.955178	3071.453276	0	159342.8081	241091.7355	0	79350.83121	29880.3719	0	0.013107027
Winter	SO2_STREX	0.000259781	0	0	3965.955178	3071.453276	0	159342.8081	241091.7355	0	79350.83121	29880.3719	0	0.000188717
Winter	TOG_DIURN	0.052670528	0	0	3965.955178	3071.453276	0	159342.8081	241091.7355	0	79350.83121	29880.3719	0	0.001912356
Winter	TOG_HTSK	0.032469607	0	0	3965.955178	3071.453276	0	159342.8081	241091.7355	0	79350.83121	29880.3719	0	0.023587494
Winter	TOG_IDLEX	1.086029665	0.934215629	0	3965.955178	3071.453276	0	159342.8081	241091.7355	0	79350.83121	29880.3719	0	0.0657005
Winter	TOG_RESTL	0.02563537	0	0	3965.955178	3071.453276	0	159342.8081	241091.7355	0	79350.83121	29880.3719	0	0.000930766
Winter	TOG_RUNEX	0.080774813	0.012652374	0	3965.955178	3071.453276	0	159342.8081	241091.7355	0	79350.83121	29880.3719	0	0.039759977
Winter	TOG_RUNLS	0.394086768	0	0	3965.955178	3071.453276	0	159342.8081	241091.7355	0	79350.83121	29880.3719	0	0.286283696
Winter	TOG_STREX	0.17095211	0	0	3965.955178	3071.453276	0	159342.8081	241091.7355	0	79350.83121	29880.3719	0	0.124187884

Winter	CO_STREX	8.692586601	0	0	183955.3723	0	0	1265084.637	0	0	367910.7446	0	0	8.692586601
Winter	CO2_NBIO_IDLEX	0	0	0	183955.3723	0	0	1265084.637	0	0	367910.7446	0	0	0
Winter	CO2_NBIO_RUNEX	223.921164	0	0	183955.3723	0	0	1265084.637	0	0	367910.7446	0	0	223.921164
Winter	CO2_NBIO_STREX	59.58847849	0	0	183955.3723	0	0	1265084.637	0	0	367910.7446	0	0	59.58847849
Winter	NOX_IDLEX	0	0	0	183955.3723	0	0	1265084.637	0	0	367910.7446	0	0	0
Winter	NOX_RUNEX	1.104284242	0	0	183955.3723	0	0	1265084.637	0	0	367910.7446	0	0	1.104284242
Winter	NOX_STREX	0.266917699	0	0	183955.3723	0	0	1265084.637	0	0	367910.7446	0	0	0.266917699
Winter	PM10_IDLEX	0	0	0	183955.3723	0	0	1265084.637	0	0	367910.7446	0	0	0
Winter	PM10_PMBW	0.011760003	0	0	183955.3723	0	0	1265084.637	0	0	367910.7446	0	0	0.011760003
Winter	PM10_PMTW	0.004000001	0	0	183955.3723	0	0	1265084.637	0	0	367910.7446	0	0	0.004000001
Winter	PM10_RUNEX	0.002479827	0	0	183955.3723	0	0	1265084.637	0	0	367910.7446	0	0	0.002479827
Winter	PM10_STREX	0.003154505	0	0	183955.3723	0	0	1265084.637	0	0	367910.7446	0	0	0.003154505
Winter	PM25_IDLEX	0	0	0	183955.3723	0	0	1265084.637	0	0	367910.7446	0	0	0
Winter	PM25_PMBW	0.005040001	0	0	183955.3723	0	0	1265084.637	0	0	367910.7446	0	0	0.005040001
Winter	PM25_PMTW	0.001	0	0	183955.3723	0	0	1265084.637	0	0	367910.7446	0	0	0.001
Winter	PM25_RUNEX	0.002315976	0	0	183955.3723	0	0	1265084.637	0	0	367910.7446	0	0	0.002315976
Winter	PM25_STREX	0.002964598	0	0	183955.3723	0	0	1265084.637	0	0	367910.7446	0	0	0.002964598
Winter	ROG_DIURN	2.334534347	0	0	183955.3723	0	0	1265084.637	0	0	367910.7446	0	0	1.167267173
Winter	ROG_HTSK	0.817638614	0	0	183955.3723	0	0	1265084.637	0	0	367910.7446	0	0	0.817638614
Winter	ROG_IDLEX	0	0	0	183955.3723	0	0	1265084.637	0	0	367910.7446	0	0	0
Winter	ROG_RESTL	1.251031374	0	0	183955.3723	0	0	1265084.637	0	0	367910.7446	0	0	0.625515687
Winter	ROG_RUNEX	2.608940684	0	0	183955.3723	0	0	1265084.637	0	0	367910.7446	0	0	2.608940684
Winter	ROG_RUNLS	2.175463317	0	0	183955.3723	0	0	1265084.637	0	0	367910.7446	0	0	2.175463317
Winter	ROG_STREX	1.845249848	0	0	183955.3723	0	0	1265084.637	0	0	367910.7446	0	0	1.845249848
Winter	SO2_IDLEX	0	0	0	183955.3723	0	0	1265084.637	0	0	367910.7446	0	0	0
Winter	SO2_RUNEX	0.002215881	0	0	183955.3723	0	0	1265084.637	0	0	367910.7446	0	0	0.002215881
Winter	SO2_STREX	0.000589676	0	0	183955.3723	0	0	1265084.637	0	0	367910.7446	0	0	0.000589676
Winter	TOG_DIURN	2.334534347	0	0	183955.3723	0	0	1265084.637	0	0	367910.7446	0	0	1.167267173
Winter	TOG_HTSK	0.817638614	0	0	183955.3723	0	0	1265084.637	0	0	367910.7446	0	0	0.817638614
Winter	TOG_IDLEX	0	0	0	183955.3723	0	0	1265084.637	0	0	367910.7446	0	0	0
Winter	TOG_RESTL	1.251031374	0	0	183955.3723	0	0	1265084.637	0	0	367910.7446	0	0	0.625515687
Winter	TOG_RUNEX	3.249050099	0	0	183955.3723	0	0	1265084.637	0	0	367910.7446	0	0	3.249050099
Winter	TOG_RUNLS	2.175463317	0	0	183955.3723	0	0	1265084.637	0	0	367910.7446	0	0	2.175463317
Winter	TOG_STREX	2.008746725	0	0	183955.3723	0	0	1265084.637	0	0	367910.7446	0	0	2.008746725

Winter	CH4_IDLEX	2.404136933	0.013121792	0	1481.565044	3497.078427	0	58916.21473	110638.3688	0	5926.260176	40355.80019	0	0.077951871
Winter	CH4_RUNEX	0.009847428	0.004999617	0	1481.565044	3497.078427	0	58916.21473	110638.3688	0	5926.260176	40355.80019	0	0.006684117
Winter	CH4_STREX	0.05653464	0	0	1481.565044	3497.078427	0	58916.21473	110638.3688	0	5926.260176	40355.80019	0	0.007239068
Winter	CO_IDLEX	82.08125133	7.432081857	0	1481.565044	3497.078427	0	58916.21473	110638.3688	0	5926.260176	40355.80019	0	3.189125218
Winter	CO_RUNEX	1.031461031	0.317118446	0	1481.565044	3497.078427	0	58916.21473	110638.3688	0	5926.260176	40355.80019	0	0.565335629
Winter	CO_STREX	7.802457795	0	0	1481.565044	3497.078427	0	58916.21473	110638.3688	0	5926.260176	40355.80019	0	0.999078142
Winter	CO2_NBIO_IDLEX	2563.623545	3475.93087	0	1481.565044	3497.078427	0	58916.21473	110638.3688	0	5926.260176	40355.80019	0	344.7075986
Winter	CO2_NBIO_RUNEX	858.3397467	1207.212602	0	1481.565044	3497.078427	0	58916.21473	110638.3688	0	5926.260176	40355.80019	0	1085.987522
Winter	CO2_NBIO_STREX	47.08174427	0	0	1481.565044	3497.078427	0	58916.21473	110638.3688	0	5926.260176	40355.80019	0	6.028656975
Winter	NOX_IDLEX	0.924731539	38.66245204	0	1481.565044	3497.078427	0	58916.21473	110638.3688	0	5926.260176	40355.80019	0	2.950942024
Winter	NOX_RUNEX	0.376703253	6.393438683	0	1481.565044	3497.078427	0	58916.21473	110638.3688	0	5926.260176	40355.80019	0	4.302765171
Winter	NOX_STREX	0.606051323	1.007353687	0	1481.565044	3497.078427	0	58916.21473	110638.3688	0	5926.260176	40355.80019	0	0.955968286
Winter	PM10_IDLEX	0	0.057610687	0	1481.565044	3497.078427	0	58916.21473	110638.3688	0	5926.260176	40355.80019	0	0.004353071
Winter	PM10_PMBW	0.744800204	0.744800213	0	1481.565044	3497.078427	0	58916.21473	110638.3688	0	5926.260176	40355.80019	0	0.74480021
Winter	PM10_PMTW	0.008000002	0.012000003	0	1481.565044	3497.078427	0	58916.21473	110638.3688	0	5926.260176	40355.80019	0	0.010610097
Winter	PM10_RUNEX	0.00113994	0.037856013	0	1481.565044	3497.078427	0	58916.21473	110638.3688	0	5926.260176	40355.80019	0	0.025098045
Winter	PM10_STREX	0.000470462	0	0	1481.565044	3497.078427	0	58916.21473	110638.3688	0	5926.260176	40355.80019	0	6.02411E-05
Winter	PM25_IDLEX	0	0.055118475	0	1481.565044	3497.078427	0	58916.21473	110638.3688	0	5926.260176	40355.80019	0	0.004164759
Winter	PM25_PMBW	0.319200087	0.319200091	0	1481.565044	3497.078427	0	58916.21473	110638.3688	0	5926.260176	40355.80019	0	0.31920009
Winter	PM25_PMTW	0.002000001	0.003000001	0	1481.565044	3497.078427	0	58916.21473	110638.3688	0	5926.260176	40355.80019	0	0.002652524
Winter	PM25_RUNEX	0.001048133	0.036218379	0	1481.565044	3497.078427	0	58916.21473	110638.3688	0	5926.260176	40355.80019	0	0.023997549
Winter	PM25_STREX	0.000432573	0	0	1481.565044	3497.078427	0	58916.21473	110638.3688	0	5926.260176	40355.80019	0	5.53894E-05
Winter	ROG_DIURN	0.032281586	0	0	1481.565044	3497.078427	0	58916.21473	110638.3688	0	5926.260176	40355.80019	0	0.001033387
Winter	ROG_HTSK	0.073015298	0	0	1481.565044	3497.078427	0	58916.21473	110638.3688	0	5926.260176	40355.80019	0	0.00934936
Winter	ROG_IDLEX	10.61523027	0.28250859	0	1481.565044	3497.078427	0	58916.21473	110638.3688	0	5926.260176	40355.80019	0	0.361157405
Winter	ROG_RESTL	0.016730138	0	0	1481.565044	3497.078427	0	58916.21473	110638.3688	0	5926.260176	40355.80019	0	0.000535559
Winter	ROG_RUNEX	0.048551008	0.107640383	0	1481.565044	3497.078427	0	58916.21473	110638.3688	0	5926.260176	40355.80019	0	0.08710822
Winter	ROG_RUNLS	0.534612608	0	0	1481.565044	3497.078427	0	58916.21473	110638.3688	0	5926.260176	40355.80019	0	0.068455323
Winter	ROG_STREX	0.326408883	0	0	1481.565044	3497.078427	0	58916.21473	110638.3688	0	5926.260176	40355.80019	0	0.041795546
Winter	SO2_IDLEX	0.025369133	0.032838871	0	1481.565044	3497.078427	0	58916.21473	110638.3688	0	5926.260176	40355.80019	0	0.003293417
Winter	SO2_RUNEX	0.008493968	0.011405146	0	1481.565044	3497.078427	0	58916.21473	110638.3688	0	5926.260176	40355.80019	0	0.01039358
Winter	SO2_STREX	0.000465912	0	0	1481.565044	3497.078427	0	58916.21473	110638.3688	0	5926.260176	40355.80019	0	5.96584E-05
Winter	TOG_DIURN	0.032281586	0	0	1481.565044	3497.078427	0	58916.21473	110638.3688	0	5926.260176	40355.80019	0	0.001033387
Winter	TOG_HTSK	0.073015298	0	0	1481.565044	3497.078427	0	58916.21473	110638.3688	0	5926.260176	40355.80019	0	0.00934936
Winter	TOG_IDLEX	15.4897191	0.321614525	0	1481.565044	3497.078427	0	58916.21473	110638.3688	0	5926.260176	40355.80019	0	0.520152676
Winter	TOG_RESTL	0.016730138	0	0	1481.565044	3497.078427	0	58916.21473	110638.3688	0	5926.260176	40355.80019	0	0.000535559
Winter	TOG_RUNEX	0.070845518	0.122540382	0	1481.565044	3497.078427	0	58916.21473	110638.3688	0	5926.260176	40355.80019	0	0.104577637
Winter	TOG_RUNLS	0.534612608	0	0	1481.565044	3497.078427	0	58916.21473	110638.3688	0	5926.260176	40355.80019	0	0.068455323
Winter	TOG_STREX	0.357376641	0	0	1481.565044	3497.078427	0	58916.21473	110638.3688	0	5926.260176	40355.80019	0	0.045760862

Winter	CH4_IDLEX	0	0	0	18786.35518	6166.797629	0	191391.548	64319.47927	0	1879.386973	616.6797629	0	0
Winter	CH4_RUNEX	0.002997334	0.002997334	0	18786.35518	6166.797629	0	191391.548	64319.47927	0	1879.386973	616.6797629	0	0.002997334
Winter	CH4_STREX	0	0	0	18786.35518	6166.797629	0	191391.548	64319.47927	0	1879.386973	616.6797629	0	0
Winter	CO_IDLEX	0	0	0	18786.35518	6166.797629	0	191391.548	64319.47927	0	1879.386973	616.6797629	0	0
Winter	CO_RUNEX	0.253648231	0.253648231	0	18786.35518	6166.797629	0	191391.548	64319.47927	0	1879.386973	616.6797629	0	0.253648231
Winter	CO_STREX	0	0	0	18786.35518	6166.797629	0	191391.548	64319.47927	0	1879.386973	616.6797629	0	0
Winter	CO2_NBIO_IDLEX	0	0	0	18786.35518	6166.797629	0	191391.548	64319.47927	0	1879.386973	616.6797629	0	0
Winter	CO2_NBIO_RUNEX	953.6662397	953.6662397	0	18786.35518	6166.797629	0	191391.548	64319.47927	0	1879.386973	616.6797629	0	953.6662397
Winter	CO2_NBIO_STREX	0	0	0	18786.35518	6166.797629	0	191391.548	64319.47927	0	1879.386973	616.6797629	0	0
Winter	NOX_IDLEX	0	0	0	18786.35518	6166.797629	0	191391.548	64319.47927	0	1879.386973	616.6797629	0	0
Winter	NOX_RUNEX	3.210262302	3.210262302	0	18786.35518	6166.797629	0	191391.548	64319.47927	0	1879.386973	616.6797629	0	3.210262302
Winter	NOX_STREX	0	0	0	18786.35518	6166.797629	0	191391.548	64319.47927	0	1879.386973	616.6797629	0	0
Winter	PM10_IDLEX	0	0	0	18786.35518	6166.797629	0	191391.548	64319.47927	0	1879.386973	616.6797629	0	0
Winter	PM10_PMBW	0.130340037	0.130340037	0	18786.35518	6166.797629	0	191391.548	64319.47927	0	1879.386973	616.6797629	0	0.130340037
Winter	PM10_PMTW	0.016000005	0.016000005	0	18786.35518	6166.797629	0	191391.548	64319.47927	0	1879.386973	616.6797629	0	0.016000005
Winter	PM10_RUNEX	0.068591969	0.068591969	0	18786.35518	6166.797629	0	191391.548	64319.47927	0	1879.386973	616.6797629	0	0.068591969
Winter	PM10_STREX	0	0	0	18786.35518	6166.797629	0	191391.548	64319.47927	0	1879.386973	616.6797629	0	0
Winter	PM25_IDLEX	0	0	0	18786.35518	6166.797629	0	191391.548	64319.47927	0	1879.386973	616.6797629	0	0
Winter	PM25_PMBW	0.055860016	0.055860016	0	18786.35518	6166.797629	0	191391.548	64319.47927	0	1879.386973	616.6797629	0	0.055860016
Winter	PM25_PMTW	0.004000001	0.004000001	0	18786.35518	6166.797629	0	191391.548	64319.47927	0	1879.386973	616.6797629	0	0.004000001
Winter	PM25_RUNEX	0.065624711	0.065624711	0	18786.35518	6166.797629	0	191391.548	64319.47927	0	1879.386973	616.6797629	0	0.065624711
Winter	PM25_STREX	0	0	0	18786.35518	6166.797629	0	191391.548	64319.47927	0	1879.386973	616.6797629	0	0
Winter	ROG_DIURN	0	0	0	18786.35518	6166.797629	0	191391.548	64319.47927	0	1879.386973	616.6797629	0	0
Winter	ROG_HTSK	0	0	0	18786.35518	6166.797629	0	191391.548	64319.47927	0	1879.386973	616.6797629	0	0
Winter	ROG_IDLEX	0	0	0	18786.35518	6166.797629	0	191391.548	64319.47927	0	1879.386973	616.6797629	0	0
Winter	ROG_RESTL	0	0	0	18786.35518	6166.797629	0	191391.548	64319.47927	0	1879.386973	616.6797629	0	0
Winter	ROG_RUNEX	0.064530845	0.064530845	0	18786.35518	6166.797629	0	191391.548	64319.47927	0	1879.386973	616.6797629	0	0.064530845
Winter	ROG_RUNLS	0	0	0	18786.35518	6166.797629	0	191391.548	64319.47927	0	1879.386973	616.6797629	0	0
Winter	ROG_STREX	0	0	0	18786.35518	6166.797629	0	191391.548	64319.47927	0	1879.386973	616.6797629	0	0
Winter	SO2_IDLEX	0	0	0	18786.35518	6166.797629	0	191391.548	64319.47927	0	1879.386973	616.6797629	0	0
Winter	SO2_RUNEX	0.009015576	0.009015576	0	18786.35518	6166.797629	0	191391.548	64319.47927	0	1879.386973	616.6797629	0	0.009015576
Winter	SO2_STREX	0	0	0	18786.35518	6166.797629	0	191391.548	64319.47927	0	1879.386973	616.6797629	0	0
Winter	TOG_DIURN	0	0	0	18786.35518	6166.797629	0	191391.548	64319.47927	0	1879.386973	616.6797629	0	0
Winter	TOG_HTSK	0	0	0	18786.35518	6166.797629	0	191391.548	64319.47927	0	1879.386973	616.6797629	0	0
Winter	TOG_IDLEX	0	0	0	18786.35518	6166.797629	0	191391.548	64319.47927	0	1879.386973	616.6797629	0	0
Winter	TOG_RESTL	0	0	0	18786.35518	6166.797629	0	191391.548	64319.47927	0	1879.386973	616.6797629	0	0
Winter	TOG_RUNEX	0.073464076	0.073464076	0	18786.35518	6166.797629	0	191391.548	64319.47927	0	1879.386973	616.6797629	0	0.073464076
Winter	TOG_RUNLS	0	0	0	18786.35518	6166.797629	0	191391.548	64319.47927	0	1879.386973	616.6797629	0	0
Winter	TOG_STREX	0	0	0	18786.35518	6166.797629	0	191391.548	64319.47927	0	1879.386973	616.6797629	0	0

3. CalEEMod Output: Project

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Proposed Project - Los Angeles-South Coast County, Annual

Proposed Project
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	25.40	1000sqft	0.58	25,398.00	0
Unenclosed Parking with Elevator	99.92	1000sqft	0.43	99,915.00	0
Fast Food Restaurant w/o Drive Thru	2.00	1000sqft	0.05	2,000.00	0
Apartments Mid Rise	138.00	Dwelling Unit	0.00	156,525.00	395
Supermarket	23.00	1000sqft	0.53	23,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	531.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - See assumptions file

Land Use - See assumptions file.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT - See assumptions file.

Demolition -

Architectural Coating - See assumptions file.

Woodstoves - No fireplaces or wood burning stoves.

Area Coating - See assumptions file.

Energy Use -

Water And Wastewater - Assumes 100% aerobic.

Construction Off-road Equipment Mitigation - Per Mid-Town Specific Plan Mitigation Measures AQ-1 and AQ-2

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	7,519.00	5,995.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblArchitecturalCoating	EF_Residential_Exterior	50.00	10.00
tblArchitecturalCoating	EF_Residential_Interior	50.00	10.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	10
tblAreaCoating	Area_EF_Nonresidential_Interior	100	10
tblAreaCoating	Area_EF_Residential_Exterior	50	10
tblAreaCoating	Area_EF_Residential_Interior	50	10
tblAreaCoating	Area_Parking	7519	5995

tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
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tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
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tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
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tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim

tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblFireplaces	NumberGas	117.30	0.00
tblFireplaces	NumberNoFireplace	13.80	138.00
tblFireplaces	NumberWood	6.90	0.00
tblFleetMix	HHD	0.03	5.0000e-003
tblFleetMix	LDA	0.55	0.58
tblFleetMix	LDT1	0.04	0.05
tblFleetMix	LDT2	0.21	0.22
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	6.2270e-003	9.4600e-004
tblFleetMix	MCY	5.1840e-003	5.4850e-003
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MH	8.6200e-004	1.3100e-004
tblFleetMix	MHD	0.02	3.1080e-003
tblFleetMix	OBUS	2.5460e-003	3.8700e-004
tblFleetMix	SBUS	6.9200e-004	1.0500e-004
tblFleetMix	UBUS	2.1330e-003	3.2400e-004
tblLandUse	LandUseSquareFeet	25,400.00	25,398.00
tblLandUse	LandUseSquareFeet	99,920.00	99,915.00
tblLandUse	LandUseSquareFeet	138,000.00	156,525.00
tblLandUse	LotAcreage	2.29	0.43
tblLandUse	LotAcreage	3.63	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	531.44
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
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tblVehicleEF	HHD	8.8400e-003	8.8980e-003
tblVehicleEF	HHD	6.0240e-003	0.02
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tblVehicleEF	HHD	3.7200e-004	1.1920e-003

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tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.2960e-003	0.02

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tblVehicleEF	HHD	0.04	0.01
tblVehicleEF	HHD	0.01	0.01

tblVehicleEF	HHD	1.6300e-004	1.0000e-006
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tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.20
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tblVehicleEF	LDA	0.03	0.05
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tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.07	0.22
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tblVehicleEF	LDA	2.2400e-003	1.7590e-003
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tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.19
tblVehicleEF	LDA	0.06	0.18
tblVehicleEF	LDA	2.7590e-003	2.7080e-003
tblVehicleEF	LDA	5.6400e-004	5.0600e-004

tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.19
tblVehicleEF	LDA	0.06	0.20
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tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
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tblVehicleEF	LDA	0.02	0.01
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tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDT1	0.01	6.7160e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.52	1.30
tblVehicleEF	LDT1	2.49	2.19
tblVehicleEF	LDT1	330.49	313.30
tblVehicleEF	LDT1	67.47	62.20
tblVehicleEF	LDT1	0.14	0.10
tblVehicleEF	LDT1	0.14	0.24
tblVehicleEF	LDT1	3.3520e-003	2.5020e-003
tblVehicleEF	LDT1	3.2790e-003	2.4470e-003
tblVehicleEF	LDT1	3.0870e-003	2.3020e-003
tblVehicleEF	LDT1	3.0150e-003	2.2500e-003
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.25	0.18
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.16	0.64
tblVehicleEF	LDT1	0.17	0.32
tblVehicleEF	LDT1	3.3240e-003	3.0620e-003
tblVehicleEF	LDT1	7.1800e-004	6.0800e-004
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.25	0.18

tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.05	0.04
tblVehicleEF	LDT1	0.16	0.64
tblVehicleEF	LDT1	0.18	0.35
tblVehicleEF	LDT1	0.01	7.1130e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.65	1.41
tblVehicleEF	LDT1	2.11	1.86
tblVehicleEF	LDT1	344.92	325.13
tblVehicleEF	LDT1	67.47	61.56
tblVehicleEF	LDT1	0.12	0.09
tblVehicleEF	LDT1	0.13	0.22
tblVehicleEF	LDT1	3.3520e-003	2.5020e-003
tblVehicleEF	LDT1	3.2790e-003	2.4470e-003
tblVehicleEF	LDT1	3.0870e-003	2.3020e-003
tblVehicleEF	LDT1	3.0150e-003	2.2500e-003
tblVehicleEF	LDT1	0.19	0.18
tblVehicleEF	LDT1	0.26	0.19
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.04	0.03
tblVehicleEF	LDT1	0.15	0.59
tblVehicleEF	LDT1	0.15	0.28
tblVehicleEF	LDT1	3.4700e-003	3.1770e-003
tblVehicleEF	LDT1	7.1200e-004	6.0200e-004
tblVehicleEF	LDT1	0.19	0.18
tblVehicleEF	LDT1	0.26	0.19
tblVehicleEF	LDT1	0.14	0.14

tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.15	0.59
tblVehicleEF	LDT1	0.16	0.31
tblVehicleEF	LDT1	0.01	6.5900e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.47	1.26
tblVehicleEF	LDT1	2.57	2.26
tblVehicleEF	LDT1	325.20	308.93
tblVehicleEF	LDT1	67.47	62.34
tblVehicleEF	LDT1	0.14	0.10
tblVehicleEF	LDT1	0.15	0.24
tblVehicleEF	LDT1	3.3520e-003	2.5020e-003
tblVehicleEF	LDT1	3.2790e-003	2.4470e-003
tblVehicleEF	LDT1	3.0870e-003	2.3020e-003
tblVehicleEF	LDT1	3.0150e-003	2.2500e-003
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.28	0.20
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.76
tblVehicleEF	LDT1	0.17	0.33
tblVehicleEF	LDT1	3.2700e-003	3.0190e-003
tblVehicleEF	LDT1	7.1900e-004	6.0900e-004
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.28	0.20
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.05	0.04

tblVehicleEF	LDT1	0.19	0.76
tblVehicleEF	LDT1	0.19	0.36
tblVehicleEF	LDT2	6.6130e-003	4.4260e-003
tblVehicleEF	LDT2	5.6850e-003	0.06
tblVehicleEF	LDT2	0.79	0.94
tblVehicleEF	LDT2	1.23	2.55
tblVehicleEF	LDT2	368.32	332.67
tblVehicleEF	LDT2	75.43	66.53
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.09	0.25
tblVehicleEF	LDT2	2.1490e-003	1.8230e-003
tblVehicleEF	LDT2	2.3760e-003	1.8150e-003
tblVehicleEF	LDT2	1.9770e-003	1.6780e-003
tblVehicleEF	LDT2	2.1840e-003	1.6690e-003
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.09	0.12
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.39
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	3.6890e-003	3.2500e-003
tblVehicleEF	LDT2	7.7500e-004	6.5000e-004
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.09	0.12
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.06	0.39

tblVehicleEF	LDT2	0.08	0.31
tblVehicleEF	LDT2	7.0150e-003	4.7110e-003
tblVehicleEF	LDT2	5.0630e-003	0.06
tblVehicleEF	LDT2	0.87	1.03
tblVehicleEF	LDT2	1.06	2.18
tblVehicleEF	LDT2	384.82	344.13
tblVehicleEF	LDT2	75.43	65.83
tblVehicleEF	LDT2	0.06	0.07
tblVehicleEF	LDT2	0.09	0.24
tblVehicleEF	LDT2	2.1490e-003	1.8230e-003
tblVehicleEF	LDT2	2.3760e-003	1.8150e-003
tblVehicleEF	LDT2	1.9770e-003	1.6780e-003
tblVehicleEF	LDT2	2.1840e-003	1.6690e-003
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.36
tblVehicleEF	LDT2	0.07	0.26
tblVehicleEF	LDT2	3.8550e-003	3.3620e-003
tblVehicleEF	LDT2	7.7200e-004	6.4300e-004
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.36
tblVehicleEF	LDT2	0.07	0.28

tblVehicleEF	LDT2	6.4820e-003	4.3360e-003
tblVehicleEF	LDT2	5.8190e-003	0.06
tblVehicleEF	LDT2	0.76	0.91
tblVehicleEF	LDT2	1.27	2.64
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tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.09	0.26
tblVehicleEF	LDT2	2.1490e-003	1.8230e-003
tblVehicleEF	LDT2	2.3760e-003	1.8150e-003
tblVehicleEF	LDT2	1.9770e-003	1.6780e-003
tblVehicleEF	LDT2	2.1840e-003	1.6690e-003
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.46
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	3.6280e-003	3.2090e-003
tblVehicleEF	LDT2	7.7500e-004	6.5200e-004
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.46
tblVehicleEF	LDT2	0.09	0.32
tblVehicleEF	LHD1	5.2860e-003	5.3650e-003

tblVehicleEF	LHD1	0.01	4.9910e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.75	0.57
tblVehicleEF	LHD1	2.58	1.08
tblVehicleEF	LHD1	8.94	8.81
tblVehicleEF	LHD1	595.21	652.98
tblVehicleEF	LHD1	32.17	12.06
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.86	0.55
tblVehicleEF	LHD1	0.95	0.32
tblVehicleEF	LHD1	8.3300e-004	7.8400e-004
tblVehicleEF	LHD1	0.01	9.7290e-003
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tblVehicleEF	LHD1	9.4800e-004	2.6800e-004
tblVehicleEF	LHD1	7.9700e-004	7.5000e-004
tblVehicleEF	LHD1	2.5350e-003	2.4320e-003
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tblVehicleEF	LHD1	8.7200e-004	2.4700e-004
tblVehicleEF	LHD1	2.9730e-003	2.3520e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8290e-003	1.4550e-003
tblVehicleEF	LHD1	0.06	0.04
tblVehicleEF	LHD1	0.30	0.51
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.0000e-005	8.6000e-005

tblVehicleEF	LHD1	5.8400e-003	6.3740e-003
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tblVehicleEF	LHD1	2.9730e-003	2.3520e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8290e-003	1.4550e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.30	0.51
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.2860e-003	5.3760e-003
tblVehicleEF	LHD1	0.01	5.0880e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.76	0.58
tblVehicleEF	LHD1	2.46	1.03
tblVehicleEF	LHD1	8.94	8.81
tblVehicleEF	LHD1	595.21	653.00
tblVehicleEF	LHD1	32.17	11.97
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.81	0.52
tblVehicleEF	LHD1	0.91	0.30
tblVehicleEF	LHD1	8.3300e-004	7.8400e-004
tblVehicleEF	LHD1	0.01	9.7290e-003
tblVehicleEF	LHD1	8.8370e-003	5.9880e-003
tblVehicleEF	LHD1	9.4800e-004	2.6800e-004
tblVehicleEF	LHD1	7.9700e-004	7.5000e-004
tblVehicleEF	LHD1	2.5350e-003	2.4320e-003

tblVehicleEF	LHD1	8.4300e-003	5.7010e-003
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tblVehicleEF	LHD1	4.4450e-003	3.4570e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.5600e-003	2.0040e-003
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tblVehicleEF	LHD1	0.29	0.50
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.0000e-005	8.6000e-005
tblVehicleEF	LHD1	5.8400e-003	6.3740e-003
tblVehicleEF	LHD1	3.6700e-004	1.1800e-004
tblVehicleEF	LHD1	4.4450e-003	3.4570e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.5600e-003	2.0040e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.29	0.50
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	5.2860e-003	5.3620e-003
tblVehicleEF	LHD1	0.01	4.9650e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.74	0.56
tblVehicleEF	LHD1	2.59	1.09
tblVehicleEF	LHD1	8.94	8.81
tblVehicleEF	LHD1	595.21	652.97

tblVehicleEF	LHD1	32.17	12.07
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.85	0.54
tblVehicleEF	LHD1	0.95	0.32
tblVehicleEF	LHD1	8.3300e-004	7.8400e-004
tblVehicleEF	LHD1	0.01	9.7290e-003
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tblVehicleEF	LHD1	9.4800e-004	2.6800e-004
tblVehicleEF	LHD1	7.9700e-004	7.5000e-004
tblVehicleEF	LHD1	2.5350e-003	2.4320e-003
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tblVehicleEF	LHD1	8.7200e-004	2.4700e-004
tblVehicleEF	LHD1	3.1110e-003	2.4630e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7990e-003	1.4330e-003
tblVehicleEF	LHD1	0.06	0.04
tblVehicleEF	LHD1	0.32	0.56
tblVehicleEF	LHD1	0.25	0.07
tblVehicleEF	LHD1	9.0000e-005	8.6000e-005
tblVehicleEF	LHD1	5.8400e-003	6.3740e-003
tblVehicleEF	LHD1	3.7000e-004	1.1900e-004
tblVehicleEF	LHD1	3.1110e-003	2.4630e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7990e-003	1.4330e-003
tblVehicleEF	LHD1	0.07	0.06

tblVehicleEF	LHD1	0.32	0.56
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.7460e-003	3.7400e-003
tblVehicleEF	LHD2	3.7700e-003	3.5360e-003
tblVehicleEF	LHD2	7.4580e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.31	0.39
tblVehicleEF	LHD2	1.26	0.72
tblVehicleEF	LHD2	13.57	13.36
tblVehicleEF	LHD2	610.80	654.07
tblVehicleEF	LHD2	26.97	9.22
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.55	0.71
tblVehicleEF	LHD2	0.50	0.22
tblVehicleEF	LHD2	1.1440e-003	1.2760e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.4330e-003	9.6270e-003
tblVehicleEF	LHD2	4.4100e-004	1.5200e-004
tblVehicleEF	LHD2	1.0950e-003	1.2210e-003
tblVehicleEF	LHD2	2.6630e-003	2.6430e-003
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tblVehicleEF	LHD2	4.0500e-004	1.4000e-004
tblVehicleEF	LHD2	1.0290e-003	1.4320e-003
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.8900e-004	9.0800e-004
tblVehicleEF	LHD2	0.04	0.05

tblVehicleEF	LHD2	0.07	0.32
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	1.3300e-004	1.2800e-004
tblVehicleEF	LHD2	5.9490e-003	6.3290e-003
tblVehicleEF	LHD2	2.9200e-004	9.1000e-005
tblVehicleEF	LHD2	1.0290e-003	1.4320e-003
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.8900e-004	9.0800e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.32
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	3.7460e-003	3.7480e-003
tblVehicleEF	LHD2	3.8180e-003	3.5740e-003
tblVehicleEF	LHD2	7.2080e-003	9.7970e-003
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.31	0.39
tblVehicleEF	LHD2	1.20	0.69
tblVehicleEF	LHD2	13.57	13.36
tblVehicleEF	LHD2	610.80	654.07
tblVehicleEF	LHD2	26.97	9.16
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.52	0.67
tblVehicleEF	LHD2	0.49	0.21
tblVehicleEF	LHD2	1.1440e-003	1.2760e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.4330e-003	9.6270e-003

tblVehicleEF	LHD2	4.4100e-004	1.5200e-004
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tblVehicleEF	LHD2	8.0540e-003	9.1940e-003
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tblVehicleEF	LHD2	1.5320e-003	2.1080e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	9.5700e-004	1.2530e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.07	0.30
tblVehicleEF	LHD2	0.10	0.05
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tblVehicleEF	LHD2	2.9100e-004	9.1000e-005
tblVehicleEF	LHD2	1.5320e-003	2.1080e-003
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tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	9.5700e-004	1.2530e-003
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tblVehicleEF	LHD2	0.07	0.30
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tblVehicleEF	LHD2	3.7580e-003	3.5260e-003
tblVehicleEF	LHD2	7.5080e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.31	0.38

tblVehicleEF	LHD2	1.27	0.72
tblVehicleEF	LHD2	13.57	13.36
tblVehicleEF	LHD2	610.80	654.06
tblVehicleEF	LHD2	26.97	9.23
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.54	0.69
tblVehicleEF	LHD2	0.51	0.22
tblVehicleEF	LHD2	1.1440e-003	1.2760e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.4330e-003	9.6270e-003
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tblVehicleEF	LHD2	4.0500e-004	1.4000e-004
tblVehicleEF	LHD2	1.0410e-003	1.4720e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.6600e-004	8.7900e-004
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tblVehicleEF	LHD2	0.08	0.34
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	1.3300e-004	1.2800e-004
tblVehicleEF	LHD2	5.9490e-003	6.3290e-003
tblVehicleEF	LHD2	2.9200e-004	9.1000e-005
tblVehicleEF	LHD2	1.0410e-003	1.4720e-003
tblVehicleEF	LHD2	0.04	0.06

tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.6600e-004	8.7900e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.34
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	MCY	0.54	0.38
tblVehicleEF	MCY	0.15	0.23
tblVehicleEF	MCY	18.72	18.86
tblVehicleEF	MCY	9.68	8.54
tblVehicleEF	MCY	189.29	223.65
tblVehicleEF	MCY	44.13	59.21
tblVehicleEF	MCY	1.13	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	2.4730e-003	2.4800e-003
tblVehicleEF	MCY	3.6800e-003	3.1550e-003
tblVehicleEF	MCY	2.3100e-003	2.3160e-003
tblVehicleEF	MCY	3.4590e-003	2.9650e-003
tblVehicleEF	MCY	1.06	1.07
tblVehicleEF	MCY	0.62	0.64
tblVehicleEF	MCY	0.64	0.65
tblVehicleEF	MCY	2.58	2.60
tblVehicleEF	MCY	0.58	1.88
tblVehicleEF	MCY	2.04	1.80
tblVehicleEF	MCY	2.2780e-003	2.2130e-003
tblVehicleEF	MCY	6.5900e-004	5.8600e-004
tblVehicleEF	MCY	1.06	1.07
tblVehicleEF	MCY	0.62	0.64

tblVehicleEF	MCY	0.64	0.65
tblVehicleEF	MCY	3.22	3.23
tblVehicleEF	MCY	0.58	1.88
tblVehicleEF	MCY	2.22	1.96
tblVehicleEF	MCY	0.53	0.37
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	18.05	18.15
tblVehicleEF	MCY	8.84	7.77
tblVehicleEF	MCY	189.29	222.30
tblVehicleEF	MCY	44.13	57.32
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	2.4730e-003	2.4800e-003
tblVehicleEF	MCY	3.6800e-003	3.1550e-003
tblVehicleEF	MCY	2.3100e-003	2.3160e-003
tblVehicleEF	MCY	3.4590e-003	2.9650e-003
tblVehicleEF	MCY	1.72	1.71
tblVehicleEF	MCY	0.68	0.69
tblVehicleEF	MCY	1.06	1.05
tblVehicleEF	MCY	2.52	2.54
tblVehicleEF	MCY	0.54	1.76
tblVehicleEF	MCY	1.82	1.60
tblVehicleEF	MCY	2.2650e-003	2.2000e-003
tblVehicleEF	MCY	6.3900e-004	5.6700e-004
tblVehicleEF	MCY	1.72	1.71
tblVehicleEF	MCY	0.68	0.69
tblVehicleEF	MCY	1.06	1.05

tblVehicleEF	MCY	3.15	3.16
tblVehicleEF	MCY	0.54	1.76
tblVehicleEF	MCY	1.98	1.74
tblVehicleEF	MCY	0.54	0.38
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.82	19.00
tblVehicleEF	MCY	9.83	8.69
tblVehicleEF	MCY	189.29	223.92
tblVehicleEF	MCY	44.13	59.59
tblVehicleEF	MCY	1.10	1.10
tblVehicleEF	MCY	0.31	0.27
tblVehicleEF	MCY	2.4730e-003	2.4800e-003
tblVehicleEF	MCY	3.6800e-003	3.1550e-003
tblVehicleEF	MCY	2.3100e-003	2.3160e-003
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tblVehicleEF	MCY	1.15	1.17
tblVehicleEF	MCY	0.80	0.82
tblVehicleEF	MCY	0.61	0.63
tblVehicleEF	MCY	2.59	2.61
tblVehicleEF	MCY	0.67	2.18
tblVehicleEF	MCY	2.08	1.85
tblVehicleEF	MCY	2.2800e-003	2.2160e-003
tblVehicleEF	MCY	6.6300e-004	5.9000e-004
tblVehicleEF	MCY	1.15	1.17
tblVehicleEF	MCY	0.80	0.82
tblVehicleEF	MCY	0.61	0.63
tblVehicleEF	MCY	3.23	3.25

tblVehicleEF	MCY	0.67	2.18
tblVehicleEF	MCY	2.26	2.01
tblVehicleEF	MDV	0.01	5.6770e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.21	1.09
tblVehicleEF	MDV	2.22	2.92
tblVehicleEF	MDV	495.22	408.75
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tblVehicleEF	MDV	0.19	0.31
tblVehicleEF	MDV	2.2990e-003	1.9550e-003
tblVehicleEF	MDV	2.4650e-003	1.9340e-003
tblVehicleEF	MDV	2.1190e-003	1.8020e-003
tblVehicleEF	MDV	2.2660e-003	1.7790e-003
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.15	0.13
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.09	0.41
tblVehicleEF	MDV	0.17	0.36
tblVehicleEF	MDV	4.9590e-003	3.9920e-003
tblVehicleEF	MDV	1.0380e-003	7.9000e-004
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.15	0.13
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.09	0.41

tblVehicleEF	MDV	0.18	0.39
tblVehicleEF	MDV	0.01	6.0290e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.32	1.19
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tblVehicleEF	MDV	99.91	80.01
tblVehicleEF	MDV	0.11	0.08
tblVehicleEF	MDV	0.18	0.29
tblVehicleEF	MDV	2.2990e-003	1.9550e-003
tblVehicleEF	MDV	2.4650e-003	1.9340e-003
tblVehicleEF	MDV	2.1190e-003	1.8020e-003
tblVehicleEF	MDV	2.2660e-003	1.7790e-003
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.09	0.12
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.08	0.38
tblVehicleEF	MDV	0.15	0.32
tblVehicleEF	MDV	5.1770e-003	4.1080e-003
tblVehicleEF	MDV	1.0320e-003	7.8200e-004
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.09	0.12
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.08	0.38
tblVehicleEF	MDV	0.16	0.35

tblVehicleEF	MDV	0.01	5.5640e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.17	1.05
tblVehicleEF	MDV	2.29	3.02
tblVehicleEF	MDV	487.26	404.33
tblVehicleEF	MDV	99.91	81.03
tblVehicleEF	MDV	0.13	0.09
tblVehicleEF	MDV	0.20	0.31
tblVehicleEF	MDV	2.2990e-003	1.9550e-003
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tblVehicleEF	MDV	2.2660e-003	1.7790e-003
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.10	0.48
tblVehicleEF	MDV	0.17	0.37
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tblVehicleEF	MDV	1.0390e-003	7.9200e-004
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.10	0.48
tblVehicleEF	MDV	0.19	0.40
tblVehicleEF	MH	0.02	2.9970e-003

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tblVehicleEF	MH	0.02	0.07
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tblVehicleEF	MH	3.2050e-003	4.0000e-003
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	9.5900e-004	0.00
tblVehicleEF	MH	0.84	0.00
tblVehicleEF	MH	0.06	0.00
tblVehicleEF	MH	0.36	0.00
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tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.30	0.00
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tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.33	0.00

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tblVehicleEF	MH	1.0430e-003	0.00
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tblVehicleEF	MH	0.02	0.07
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tblVehicleEF	MH	0.06	0.00
tblVehicleEF	MH	0.51	0.00
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tblVehicleEF	MH	0.06	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.00

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tblVehicleEF	MHD	0.02	0.14
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tblVehicleEF	MHD	1.0540e-003	6.2300e-004
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tblVehicleEF	MHD	0.02	0.14
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tblVehicleEF	MHD	8.2000e-005	2.6600e-004
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tblVehicleEF	MHD	6.8500e-004	4.0000e-004
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tblVehicleEF	MHD	0.35	0.06
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tblVehicleEF	MHD	0.01	9.8540e-003
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tblVehicleEF	OBUS	0.03	0.05
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tblVehicleEF	OBUS	0.05	0.07
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tblVehicleEF	OBUS	0.02	0.02

tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	1.0770e-003	1.3150e-003
tblVehicleEF	OBUS	0.04	0.03
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.31	0.11
tblVehicleEF	OBUS	1.0320e-003	8.4800e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.6400e-004	1.8600e-004
tblVehicleEF	OBUS	2.0710e-003	2.6500e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.0770e-003	1.3150e-003
tblVehicleEF	OBUS	0.05	0.04
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.34	0.12
tblVehicleEF	OBUS	0.01	8.2140e-003
tblVehicleEF	OBUS	5.9990e-003	4.9100e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.62
tblVehicleEF	OBUS	0.45	0.61
tblVehicleEF	OBUS	5.23	2.37
tblVehicleEF	OBUS	94.83	91.59
tblVehicleEF	OBUS	1,246.68	1,355.70
tblVehicleEF	OBUS	67.80	19.07
tblVehicleEF	OBUS	0.21	0.37
tblVehicleEF	OBUS	0.68	1.14
tblVehicleEF	OBUS	2.53	0.84

tblVehicleEF	OBUS	2.4000e-005	1.3600e-004
tblVehicleEF	OBUS	2.6330e-003	7.0870e-003
tblVehicleEF	OBUS	8.2900e-004	2.0000e-004
tblVehicleEF	OBUS	2.3000e-005	1.3000e-004
tblVehicleEF	OBUS	2.5030e-003	6.7660e-003
tblVehicleEF	OBUS	7.6200e-004	1.8400e-004
tblVehicleEF	OBUS	1.4400e-003	1.9120e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	7.4400e-004	9.3100e-004
tblVehicleEF	OBUS	0.04	0.03
tblVehicleEF	OBUS	0.04	0.29
tblVehicleEF	OBUS	0.33	0.11
tblVehicleEF	OBUS	9.1700e-004	8.7100e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.7000e-004	1.8900e-004
tblVehicleEF	OBUS	1.4400e-003	1.9120e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	7.4400e-004	9.3100e-004
tblVehicleEF	OBUS	0.05	0.04
tblVehicleEF	OBUS	0.04	0.29
tblVehicleEF	OBUS	0.36	0.12
tblVehicleEF	SBUS	0.84	0.08
tblVehicleEF	SBUS	0.01	6.7080e-003
tblVehicleEF	SBUS	0.06	7.0640e-003
tblVehicleEF	SBUS	8.28	3.14

tblVehicleEF	SBUS	0.67	0.57
tblVehicleEF	SBUS	7.16	0.97
tblVehicleEF	SBUS	1,105.31	354.45
tblVehicleEF	SBUS	1,070.53	1,085.99
tblVehicleEF	SBUS	56.44	5.97
tblVehicleEF	SBUS	8.50	3.03
tblVehicleEF	SBUS	3.81	4.38
tblVehicleEF	SBUS	11.84	0.95
tblVehicleEF	SBUS	8.1160e-003	3.5860e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	8.5300e-004	6.0000e-005
tblVehicleEF	SBUS	7.7650e-003	3.4310e-003
tblVehicleEF	SBUS	2.6580e-003	2.6530e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	7.8400e-004	5.5000e-005
tblVehicleEF	SBUS	3.3720e-003	1.0290e-003
tblVehicleEF	SBUS	0.03	8.9740e-003
tblVehicleEF	SBUS	0.99	0.36
tblVehicleEF	SBUS	1.8240e-003	5.5900e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.38	0.04
tblVehicleEF	SBUS	0.01	3.3860e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.8800e-004	5.9000e-005
tblVehicleEF	SBUS	3.3720e-003	1.0290e-003

tblVehicleEF	SBUS	0.03	8.9740e-003
tblVehicleEF	SBUS	1.43	0.52
tblVehicleEF	SBUS	1.8240e-003	5.5900e-004
tblVehicleEF	SBUS	0.12	0.10
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.41	0.04
tblVehicleEF	SBUS	0.84	0.08
tblVehicleEF	SBUS	0.01	6.7850e-003
tblVehicleEF	SBUS	0.05	6.3040e-003
tblVehicleEF	SBUS	8.18	3.11
tblVehicleEF	SBUS	0.68	0.58
tblVehicleEF	SBUS	5.81	0.79
tblVehicleEF	SBUS	1,154.44	361.51
tblVehicleEF	SBUS	1,070.53	1,086.01
tblVehicleEF	SBUS	56.44	5.68
tblVehicleEF	SBUS	8.77	3.09
tblVehicleEF	SBUS	3.59	4.13
tblVehicleEF	SBUS	11.81	0.95
tblVehicleEF	SBUS	6.8420e-003	3.0310e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	8.5300e-004	6.0000e-005
tblVehicleEF	SBUS	6.5460e-003	2.9000e-003
tblVehicleEF	SBUS	2.6580e-003	2.6530e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	7.8400e-004	5.5000e-005
tblVehicleEF	SBUS	4.9610e-003	1.4870e-003

tblVehicleEF	SBUS	0.03	9.1170e-003
tblVehicleEF	SBUS	0.98	0.36
tblVehicleEF	SBUS	2.5750e-003	7.7400e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.34	0.04
tblVehicleEF	SBUS	0.01	3.4520e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.6600e-004	5.6000e-005
tblVehicleEF	SBUS	4.9610e-003	1.4870e-003
tblVehicleEF	SBUS	0.03	9.1170e-003
tblVehicleEF	SBUS	1.42	0.52
tblVehicleEF	SBUS	2.5750e-003	7.7400e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.37	0.04
tblVehicleEF	SBUS	0.84	0.08
tblVehicleEF	SBUS	0.01	6.6840e-003
tblVehicleEF	SBUS	0.06	7.2390e-003
tblVehicleEF	SBUS	8.43	3.19
tblVehicleEF	SBUS	0.66	0.57
tblVehicleEF	SBUS	7.40	1.00
tblVehicleEF	SBUS	1,037.46	344.71
tblVehicleEF	SBUS	1,070.53	1,085.99
tblVehicleEF	SBUS	56.44	6.03
tblVehicleEF	SBUS	8.13	2.95
tblVehicleEF	SBUS	3.74	4.30

tblVehicleEF	SBUS	11.85	0.96
tblVehicleEF	SBUS	9.8760e-003	4.3530e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	8.5300e-004	6.0000e-005
tblVehicleEF	SBUS	9.4480e-003	4.1650e-003
tblVehicleEF	SBUS	2.6580e-003	2.6530e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	7.8400e-004	5.5000e-005
tblVehicleEF	SBUS	3.3940e-003	1.0330e-003
tblVehicleEF	SBUS	0.03	9.3490e-003
tblVehicleEF	SBUS	0.99	0.36
tblVehicleEF	SBUS	1.7490e-003	5.3600e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.39	0.04
tblVehicleEF	SBUS	0.01	3.2930e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.9200e-004	6.0000e-005
tblVehicleEF	SBUS	3.3940e-003	1.0330e-003
tblVehicleEF	SBUS	0.03	9.3490e-003
tblVehicleEF	SBUS	1.43	0.52
tblVehicleEF	SBUS	1.7490e-003	5.3600e-004
tblVehicleEF	SBUS	0.12	0.10
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.42	0.05
tblVehicleEF	UBUS	2.44	5.85

tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	10.68	45.42
tblVehicleEF	UBUS	8.84	0.71
tblVehicleEF	UBUS	1,951.45	1,987.99
tblVehicleEF	UBUS	100.38	8.42
tblVehicleEF	UBUS	9.33	0.47
tblVehicleEF	UBUS	15.09	0.08
tblVehicleEF	UBUS	0.60	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.12	3.2070e-003
tblVehicleEF	UBUS	1.1360e-003	5.7000e-005
tblVehicleEF	UBUS	0.26	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9690e-003
tblVehicleEF	UBUS	0.12	3.0640e-003
tblVehicleEF	UBUS	1.0450e-003	5.2000e-005
tblVehicleEF	UBUS	4.1100e-003	5.9300e-004
tblVehicleEF	UBUS	0.07	7.4130e-003
tblVehicleEF	UBUS	2.4100e-003	4.3400e-004
tblVehicleEF	UBUS	0.79	0.09
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.68	0.05
tblVehicleEF	UBUS	9.8060e-003	1.4050e-003
tblVehicleEF	UBUS	1.1630e-003	8.3000e-005
tblVehicleEF	UBUS	4.1100e-003	5.9300e-004
tblVehicleEF	UBUS	0.07	7.4130e-003
tblVehicleEF	UBUS	2.4100e-003	4.3400e-004
tblVehicleEF	UBUS	3.32	5.97

tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.75	0.05
tblVehicleEF	UBUS	2.44	5.85
tblVehicleEF	UBUS	0.05	9.9370e-003
tblVehicleEF	UBUS	10.72	45.42
tblVehicleEF	UBUS	7.66	0.63
tblVehicleEF	UBUS	1,951.45	1,987.99
tblVehicleEF	UBUS	100.38	8.27
tblVehicleEF	UBUS	8.79	0.47
tblVehicleEF	UBUS	15.04	0.08
tblVehicleEF	UBUS	0.60	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.12	3.2070e-003
tblVehicleEF	UBUS	1.1360e-003	5.7000e-005
tblVehicleEF	UBUS	0.26	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9690e-003
tblVehicleEF	UBUS	0.12	3.0640e-003
tblVehicleEF	UBUS	1.0450e-003	5.2000e-005
tblVehicleEF	UBUS	5.8640e-003	8.6100e-004
tblVehicleEF	UBUS	0.07	7.6580e-003
tblVehicleEF	UBUS	3.3120e-003	6.0000e-004
tblVehicleEF	UBUS	0.80	0.09
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	0.63	0.04
tblVehicleEF	UBUS	9.8070e-003	1.4050e-003
tblVehicleEF	UBUS	1.1430e-003	8.2000e-005
tblVehicleEF	UBUS	5.8640e-003	8.6100e-004

tblVehicleEF	UBUS	0.07	7.6580e-003
tblVehicleEF	UBUS	3.3120e-003	6.0000e-004
tblVehicleEF	UBUS	3.33	5.97
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	0.69	0.05
tblVehicleEF	UBUS	2.44	5.85
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	10.66	45.42
tblVehicleEF	UBUS	9.05	0.73
tblVehicleEF	UBUS	1,951.45	1,987.99
tblVehicleEF	UBUS	100.38	8.45
tblVehicleEF	UBUS	9.15	0.47
tblVehicleEF	UBUS	15.10	0.08
tblVehicleEF	UBUS	0.60	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.12	3.2070e-003
tblVehicleEF	UBUS	1.1360e-003	5.7000e-005
tblVehicleEF	UBUS	0.26	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9690e-003
tblVehicleEF	UBUS	0.12	3.0640e-003
tblVehicleEF	UBUS	1.0450e-003	5.2000e-005
tblVehicleEF	UBUS	4.6290e-003	5.8300e-004
tblVehicleEF	UBUS	0.08	7.9410e-003
tblVehicleEF	UBUS	2.5090e-003	4.1300e-004
tblVehicleEF	UBUS	0.79	0.09
tblVehicleEF	UBUS	0.03	0.06
tblVehicleEF	UBUS	0.70	0.05

tblVehicleEF	UBUS	9.8060e-003	1.4050e-003
tblVehicleEF	UBUS	1.1670e-003	8.4000e-005
tblVehicleEF	UBUS	4.6290e-003	5.8300e-004
tblVehicleEF	UBUS	0.08	7.9410e-003
tblVehicleEF	UBUS	2.5090e-003	4.1300e-004
tblVehicleEF	UBUS	3.31	5.97
tblVehicleEF	UBUS	0.03	0.06
tblVehicleEF	UBUS	0.76	0.05
tblVehicleTrips	ST_TR	6.39	4.52
tblVehicleTrips	ST_TR	696.00	293.13
tblVehicleTrips	ST_TR	177.59	163.41
tblVehicleTrips	SU_TR	5.86	3.76
tblVehicleTrips	SU_TR	500.00	388.07
tblVehicleTrips	SU_TR	166.44	153.15
tblVehicleTrips	WD_TR	6.65	5.00
tblVehicleTrips	WD_TR	716.00	289.96
tblVehicleTrips	WD_TR	102.24	98.24
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	6.90	0.00
tblWoodstoves	NumberNoncatalytic	6.90	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.1623	1.1927	1.1514	2.6900e-003	0.1237	0.0524	0.1761	0.0356	0.0501	0.0857	0.0000	237.6970	237.6970	0.0281	0.0000	238.3986
2021	0.2696	1.0112	1.1315	2.7500e-003	0.1094	0.0404	0.1498	0.0294	0.0389	0.0682	0.0000	242.5950	242.5950	0.0250	0.0000	243.2201
Maximum	0.2696	1.1927	1.1514	2.7500e-003	0.1237	0.0524	0.1761	0.0356	0.0501	0.0857	0.0000	242.5950	242.5950	0.0281	0.0000	243.2201

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.0664	0.8106	1.1779	2.6900e-003	0.0989	9.6700e-003	0.1086	0.0276	9.5700e-003	0.0372	0.0000	237.6968	237.6968	0.0281	0.0000	238.3985
2021	0.1905	0.8038	1.1676	2.7500e-003	0.1011	9.9900e-003	0.1111	0.0273	9.9100e-003	0.0372	0.0000	242.5948	242.5948	0.0250	0.0000	243.2199
Maximum	0.1905	0.8106	1.1779	2.7500e-003	0.1011	9.9900e-003	0.1111	0.0276	9.9100e-003	0.0372	0.0000	242.5948	242.5948	0.0281	0.0000	243.2199

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	40.53	26.75	-2.74	0.00	14.21	78.81	32.61	15.46	78.11	51.68	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	7-18-2020	10-17-2020	0.7505	0.4393
2	10-18-2020	1-17-2021	0.7282	0.5254
3	1-18-2021	4-17-2021	0.6626	0.5001
4	4-18-2021	7-17-2021	0.4987	0.4031
		Highest	0.7505	0.5254

2.2 Overall Operational Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.7194	0.0164	1.4254	8.0000e-005		7.8900e-003	7.8900e-003		7.8900e-003	7.8900e-003	0.0000	2.3284	2.3284	2.2500e-003	0.0000	2.3846
Energy	0.0152	0.1327	0.0762	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	560.0097	560.0097	0.0252	7.3800e-003	562.8403
Mobile	1.4411	1.8878	10.9664	0.0267	2.5802	0.0211	2.6013	0.6890	0.0196	0.7086	0.0000	2,514.0658	2,514.0658	0.1872	0.0000	2,518.7450
Waste						0.0000	0.0000		0.0000	0.0000	43.8948	0.0000	43.8948	2.5941	0.0000	108.7474
Water						0.0000	0.0000		0.0000	0.0000	4.3990	54.5457	58.9447	0.0181	0.0102	62.4319
Total	2.1757	2.0369	12.4680	0.0276	2.5802	0.0395	2.6197	0.6890	0.0380	0.7270	48.2938	3,130.9496	3,179.2434	2.8269	0.0176	3,255.1492

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.7194	0.0164	1.4254	8.0000e-005		7.8900e-003	7.8900e-003		7.8900e-003	7.8900e-003	0.0000	2.3284	2.3284	2.2500e-003	0.0000	2.3846
Energy	0.0131	0.1147	0.0666	7.2000e-004		9.0700e-003	9.0700e-003		9.0700e-003	9.0700e-003	0.0000	528.4764	528.4764	0.0242	6.8800e-003	531.1330
Mobile	1.4411	1.8878	10.9664	0.0267	2.5802	0.0211	2.6013	0.6890	0.0196	0.7086	0.0000	2,514.0658	2,514.0658	0.1872	0.0000	2,518.7450
Waste						0.0000	0.0000		0.0000	0.0000	43.8948	0.0000	43.8948	2.5941	0.0000	108.7474
Water						0.0000	0.0000		0.0000	0.0000	3.5192	45.7938	49.3130	0.0146	8.1700e-003	52.1129
Total	2.1737	2.0189	12.4584	0.0275	2.5802	0.0381	2.6182	0.6890	0.0366	0.7256	47.4140	3,090.6644	3,138.0783	2.8224	0.0151	3,213.1230

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.10	0.88	0.08	0.40	0.00	3.62	0.05	0.00	3.76	0.20	1.82	1.29	1.29	0.16	14.29	1.29

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	7/18/2020	8/14/2020	5	20	
2	Site Preparation	Site Preparation	8/15/2020	8/18/2020	5	2	
3	Grading	Grading	8/19/2020	8/24/2020	5	4	
4	Building Construction	Building Construction	8/25/2020	5/31/2021	5	200	
5	Paving	Paving	6/1/2021	6/14/2021	5	10	
6	Architectural Coating	Architectural Coating	6/15/2021	6/28/2021	5	10	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 1.01

Residential Indoor: 316,963; Residential Outdoor: 105,654; Non-Residential Indoor: 37,500; Non-Residential Outdoor: 12,500; Striped

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	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
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	5	13.00	4.00	112.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	160.00	39.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	32.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Use Cleaner Engines for Construction Equipment
- Replace Ground Cover
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0121	0.0000	0.0121	1.8400e-003	0.0000	1.8400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0213	0.2095	0.1466	2.4000e-004		0.0115	0.0115		0.0108	0.0108	0.0000	21.0677	21.0677	5.4200e-003	0.0000	21.2031
Total	0.0213	0.2095	0.1466	2.4000e-004	0.0121	0.0115	0.0237	1.8400e-003	0.0108	0.0126	0.0000	21.0677	21.0677	5.4200e-003	0.0000	21.2031

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.9000e-004	0.0166	3.6700e-003	4.0000e-005	9.6000e-004	5.0000e-005	1.0100e-003	2.6000e-004	5.0000e-005	3.1000e-004	0.0000	4.3164	4.3164	3.0000e-004	0.0000	4.3239
Vendor	1.5000e-004	4.3300e-003	1.1700e-003	1.0000e-005	2.5000e-004	2.0000e-005	2.7000e-004	7.0000e-005	2.0000e-005	9.0000e-005	0.0000	0.9937	0.9937	6.0000e-005	0.0000	0.9953
Worker	6.0000e-004	4.8000e-004	5.3500e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.3278	1.3278	4.0000e-005	0.0000	1.3288
Total	1.2400e-003	0.0214	0.0102	6.0000e-005	2.6300e-003	8.0000e-005	2.7200e-003	7.1000e-004	8.0000e-005	7.9000e-004	0.0000	6.6378	6.6378	4.0000e-004	0.0000	6.6480

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.5000e-003	0.0000	4.5000e-003	6.8000e-004	0.0000	6.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6300e-003	0.0854	0.1542	2.4000e-004		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	21.0676	21.0676	5.4200e-003	0.0000	21.2030
Total	4.6300e-003	0.0854	0.1542	2.4000e-004	4.5000e-003	3.7000e-004	4.8700e-003	6.8000e-004	3.7000e-004	1.0500e-003	0.0000	21.0676	21.0676	5.4200e-003	0.0000	21.2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.9000e-004	0.0166	3.6700e-003	4.0000e-005	9.0000e-004	5.0000e-005	9.5000e-004	2.5000e-004	5.0000e-005	3.0000e-004	0.0000	4.3164	4.3164	3.0000e-004	0.0000	4.3239
Vendor	1.5000e-004	4.3300e-003	1.1700e-003	1.0000e-005	2.4000e-004	2.0000e-005	2.6000e-004	7.0000e-005	2.0000e-005	9.0000e-005	0.0000	0.9937	0.9937	6.0000e-005	0.0000	0.9953
Worker	6.0000e-004	4.8000e-004	5.3500e-003	1.0000e-005	1.3100e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.3278	1.3278	4.0000e-005	0.0000	1.3288
Total	1.2400e-003	0.0214	0.0102	6.0000e-005	2.4500e-003	8.0000e-005	2.5400e-003	6.7000e-004	8.0000e-005	7.5000e-004	0.0000	6.6378	6.6378	4.0000e-004	0.0000	6.6480

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.8000e-003	0.0000	5.8000e-003	2.9500e-003	0.0000	2.9500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6300e-003	0.0184	7.7100e-003	2.0000e-005		8.2000e-004	8.2000e-004		7.6000e-004	7.6000e-004	0.0000	1.5127	1.5127	4.9000e-004	0.0000	1.5249
Total	1.6300e-003	0.0184	7.7100e-003	2.0000e-005	5.8000e-003	8.2000e-004	6.6200e-003	2.9500e-003	7.6000e-004	3.7100e-003	0.0000	1.5127	1.5127	4.9000e-004	0.0000	1.5249

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	4.3000e-004	1.2000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0994	0.0994	1.0000e-005	0.0000	0.0995
Worker	4.0000e-005	3.0000e-005	3.3000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0817	0.0817	0.0000	0.0000	0.0818
Total	5.0000e-005	4.6000e-004	4.5000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1811	0.1811	1.0000e-005	0.0000	0.1813

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.1500e-003	0.0000	2.1500e-003	1.0900e-003	0.0000	1.0900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.0000e-004	5.0700e-003	9.8200e-003	2.0000e-005		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	1.5127	1.5127	4.9000e-004	0.0000	1.5249
Total	3.0000e-004	5.0700e-003	9.8200e-003	2.0000e-005	2.1500e-003	3.0000e-005	2.1800e-003	1.0900e-003	3.0000e-005	1.1200e-003	0.0000	1.5127	1.5127	4.9000e-004	0.0000	1.5249

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	4.3000e-004	1.2000e-004	0.0000	2.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0994	0.0994	1.0000e-005	0.0000	0.0995
Worker	4.0000e-005	3.0000e-005	3.3000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0817	0.0817	0.0000	0.0000	0.0818
Total	5.0000e-005	4.6000e-004	4.5000e-004	0.0000	1.0000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1811	0.1811	1.0000e-005	0.0000	0.1813

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.8300e-003	0.0000	9.8300e-003	5.0500e-003	0.0000	5.0500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7000e-003	0.0302	0.0129	3.0000e-005		1.3700e-003	1.3700e-003		1.2600e-003	1.2600e-003	0.0000	2.4779	2.4779	8.0000e-004	0.0000	2.4980
Total	2.7000e-003	0.0302	0.0129	3.0000e-005	9.8300e-003	1.3700e-003	0.0112	5.0500e-003	1.2600e-003	6.3100e-003	0.0000	2.4779	2.4779	8.0000e-004	0.0000	2.4980

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0000e-005	8.7000e-004	2.3000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.1987	0.1987	1.0000e-005	0.0000	0.1991
Worker	7.0000e-005	6.0000e-005	6.6000e-004	0.0000	1.8000e-004	0.0000	1.8000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1634	0.1634	1.0000e-005	0.0000	0.1635
Total	1.0000e-004	9.3000e-004	8.9000e-004	0.0000	2.3000e-004	0.0000	2.3000e-004	6.0000e-005	0.0000	7.0000e-005	0.0000	0.3622	0.3622	2.0000e-005	0.0000	0.3626

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.6400e-003	0.0000	3.6400e-003	1.8700e-003	0.0000	1.8700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.9000e-004	8.3600e-003	0.0162	3.0000e-005		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	2.4779	2.4779	8.0000e-004	0.0000	2.4980
Total	4.9000e-004	8.3600e-003	0.0162	3.0000e-005	3.6400e-003	5.0000e-005	3.6900e-003	1.8700e-003	5.0000e-005	1.9200e-003	0.0000	2.4779	2.4779	8.0000e-004	0.0000	2.4980

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	3.0000e-005	8.7000e-004	2.3000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.1987	0.1987	1.0000e-005	0.0000	0.1991
Worker	7.0000e-005	6.0000e-005	6.6000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1634	0.1634	1.0000e-005	0.0000	0.1635
Total	1.0000e-004	9.3000e-004	8.9000e-004	0.0000	2.1000e-004	0.0000	2.1000e-004	5.0000e-005	0.0000	6.0000e-005	0.0000	0.3622	0.3622	2.0000e-005	0.0000	0.3626

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0944	0.6877	0.6133	1.0300e-003		0.0370	0.0370		0.0358	0.0358	0.0000	84.4171	84.4171	0.0157	0.0000	84.8089
Total	0.0944	0.6877	0.6133	1.0300e-003		0.0370	0.0370		0.0358	0.0358	0.0000	84.4171	84.4171	0.0157	0.0000	84.8089

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.5800e-003	0.1965	0.0532	4.7000e-004	0.0114	9.1000e-004	0.0123	3.3000e-003	8.7000e-004	4.1700e-003	0.0000	45.0521	45.0521	2.8600e-003	0.0000	45.1237
Worker	0.0343	0.0277	0.3063	8.4000e-004	0.0815	7.0000e-004	0.0822	0.0217	6.4000e-004	0.0223	0.0000	75.9885	75.9885	2.3900e-003	0.0000	76.0484
Total	0.0409	0.2242	0.3595	1.3100e-003	0.0930	1.6100e-003	0.0946	0.0250	1.5100e-003	0.0265	0.0000	121.0406	121.0406	5.2500e-003	0.0000	121.1720

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0187	0.4647	0.6268	1.0300e-003		7.5200e-003	7.5200e-003		7.5200e-003	7.5200e-003	0.0000	84.4170	84.4170	0.0157	0.0000	84.8088
Total	0.0187	0.4647	0.6268	1.0300e-003		7.5200e-003	7.5200e-003		7.5200e-003	7.5200e-003	0.0000	84.4170	84.4170	0.0157	0.0000	84.8088

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	6.5800e-003	0.1965	0.0532	4.7000e-004	0.0107	9.1000e-004	0.0116	3.1200e-003	8.7000e-004	3.9900e-003	0.0000	45.0521	45.0521	2.8600e-003	0.0000	45.1237
Worker	0.0343	0.0277	0.3063	8.4000e-004	0.0752	7.0000e-004	0.0759	0.0201	6.4000e-004	0.0207	0.0000	75.9885	75.9885	2.3900e-003	0.0000	76.0484
Total	0.0409	0.2242	0.3595	1.3100e-003	0.0859	1.6100e-003	0.0875	0.0232	1.5100e-003	0.0247	0.0000	121.0406	121.0406	5.2500e-003	0.0000	121.1720

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	tons/yr										MT/yr					
Off-Road	0.0970	0.7295	0.6901	1.1800e-003		0.0366	0.0366		0.0354	0.0354	0.0000	97.1280	97.1280	0.0173	0.0000	97.5615
Total	0.0970	0.7295	0.6901	1.1800e-003		0.0366	0.0366		0.0354	0.0354	0.0000	97.1280	97.1280	0.0173	0.0000	97.5615

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.4800e-003	0.2059	0.0558	5.3000e-004	0.0131	4.2000e-004	0.0136	3.7900e-003	4.0000e-004	4.1900e-003	0.0000	51.4315	51.4315	3.1500e-003	0.0000	51.5104
Worker	0.0368	0.0287	0.3237	9.4000e-004	0.0938	7.7000e-004	0.0946	0.0249	7.1000e-004	0.0256	0.0000	84.6513	84.6513	2.4900e-003	0.0000	84.7136
Total	0.0433	0.2346	0.3795	1.4700e-003	0.1069	1.1900e-003	0.1081	0.0287	1.1100e-003	0.0298	0.0000	136.0828	136.0828	5.6400e-003	0.0000	136.2240

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0215	0.5346	0.7211	1.1800e-003		8.6500e-003	8.6500e-003		8.6500e-003	8.6500e-003	0.0000	97.1279	97.1279	0.0173	0.0000	97.5614
Total	0.0215	0.5346	0.7211	1.1800e-003		8.6500e-003	8.6500e-003		8.6500e-003	8.6500e-003	0.0000	97.1279	97.1279	0.0173	0.0000	97.5614

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	6.4800e-003	0.2059	0.0558	5.3000e-004	0.0123	4.2000e-004	0.0127	3.5900e-003	4.0000e-004	3.9900e-003	0.0000	51.4315	51.4315	3.1500e-003	0.0000	51.5104
Worker	0.0368	0.0287	0.3237	9.4000e-004	0.0865	7.7000e-004	0.0873	0.0231	7.1000e-004	0.0238	0.0000	84.6513	84.6513	2.4900e-003	0.0000	84.7136
Total	0.0433	0.2346	0.3795	1.4700e-003	0.0988	1.1900e-003	0.1000	0.0267	1.1100e-003	0.0278	0.0000	136.0828	136.0828	5.6400e-003	0.0000	136.2240

3.6 Paving - 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	tons/yr										MT/yr					
Off-Road	3.8700e-003	0.0387	0.0443	7.0000e-005		2.0800e-003	2.0800e-003		1.9100e-003	1.9100e-003	0.0000	5.8825	5.8825	1.8600e-003	0.0000	5.9291
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.8700e-003	0.0387	0.0443	7.0000e-005		2.0800e-003	2.0800e-003		1.9100e-003	1.9100e-003	0.0000	5.8825	5.8825	1.8600e-003	0.0000	5.9291

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	2.2000e-004	2.4600e-003	1.0000e-005	7.1000e-004	1.0000e-005	7.2000e-004	1.9000e-004	1.0000e-005	1.9000e-004	0.0000	0.6428	0.6428	2.0000e-005	0.0000	0.6433
Total	2.8000e-004	2.2000e-004	2.4600e-003	1.0000e-005	7.1000e-004	1.0000e-005	7.2000e-004	1.9000e-004	1.0000e-005	1.9000e-004	0.0000	0.6428	0.6428	2.0000e-005	0.0000	0.6433

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.0700e-003	0.0286	0.0493	7.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	5.8825	5.8825	1.8600e-003	0.0000	5.9291
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.0700e-003	0.0286	0.0493	7.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	5.8825	5.8825	1.8600e-003	0.0000	5.9291

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	2.8000e-004	2.2000e-004	2.4600e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.8000e-004	1.0000e-005	1.8000e-004	0.0000	0.6428	0.6428	2.0000e-005	0.0000	0.6433
Total	2.8000e-004	2.2000e-004	2.4600e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.8000e-004	1.0000e-005	1.8000e-004	0.0000	0.6428	0.6428	2.0000e-005	0.0000	0.6433

3.7 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	tons/yr										MT/yr					
Archit. Coating	0.1234					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0900e-003	7.6300e-003	9.0900e-003	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	1.2766	1.2766	9.0000e-005	0.0000	1.2788
Total	0.1245	7.6300e-003	9.0900e-003	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	1.2766	1.2766	9.0000e-005	0.0000	1.2788

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.9000e-004	5.4000e-004	6.0500e-003	2.0000e-005	1.7500e-003	1.0000e-005	1.7700e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.5823	1.5823	5.0000e-005	0.0000	1.5834
Total	6.9000e-004	5.4000e-004	6.0500e-003	2.0000e-005	1.7500e-003	1.0000e-005	1.7700e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.5823	1.5823	5.0000e-005	0.0000	1.5834

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1234					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7000e-004	5.3000e-003	9.1600e-003	1.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	1.2766	1.2766	9.0000e-005	0.0000	1.2788
Total	0.1237	5.3000e-003	9.1600e-003	1.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	1.2766	1.2766	9.0000e-005	0.0000	1.2788

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	6.9000e-004	5.4000e-004	6.0500e-003	2.0000e-005	1.6200e-003	1.0000e-005	1.6300e-003	4.3000e-004	1.0000e-005	4.5000e-004	0.0000	1.5823	1.5823	5.0000e-005	0.0000	1.5834
Total	6.9000e-004	5.4000e-004	6.0500e-003	2.0000e-005	1.6200e-003	1.0000e-005	1.6300e-003	4.3000e-004	1.0000e-005	4.5000e-004	0.0000	1.5823	1.5823	5.0000e-005	0.0000	1.5834

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	tons/yr										MT/yr					
Mitigated	1.4411	1.8878	10.9664	0.0267	2.5802	0.0211	2.6013	0.6890	0.0196	0.7086	0.0000	2,514.0658	2,514.0658	0.1872	0.0000	2,518.7450
Unmitigated	1.4411	1.8878	10.9664	0.0267	2.5802	0.0211	2.6013	0.6890	0.0196	0.7086	0.0000	2,514.0658	2,514.0658	0.1872	0.0000	2,518.7450

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	690.00	623.76	518.88	2,241,964	2,241,964
Fast Food Restaurant w/o Drive Thru	579.92	586.26	776.14	1,102,667	1,102,667
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Supermarket	2,259.52	3,758.43	3522.45	3,501,966	3,501,966
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	3,529.44	4,968.45	4,817.47	6,846,597	6,846,597

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Fast Food Restaurant w/o Drive Thru	16.60	8.40	6.90	1.50	79.50	19.00	51	37	12
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Supermarket	16.60	8.40	6.90	6.50	74.50	19.00	34	30	36
Unenclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.577488	0.047363	0.217190	0.126235	0.016240	0.000946	0.003108	0.005000	0.000387	0.000324	0.005485	0.000105	0.000131
Fast Food Restaurant w/o Drive Thru	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Other Non-Asphalt Surfaces	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Supermarket	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Unenclosed Parking with Elevator	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	398.5951	398.5951	0.0218	4.5000e-003	400.4799
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	409.6411	409.6411	0.0224	4.6200e-003	411.5781
NaturalGas Mitigated	0.0131	0.1147	0.0666	7.2000e-004	9.0700e-003	9.0700e-003	9.0700e-003	9.0700e-003	9.0700e-003	9.0700e-003	0.0000	129.8813	129.8813	2.4900e-003	2.3800e-003	130.6531
NaturalGas Unmitigated	0.0152	0.1327	0.0762	8.3000e-004	0.0105	0.0105	0.0105	0.0105	0.0105	0.0105	0.0000	150.3686	150.3686	2.8800e-003	2.7600e-003	151.2622

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas 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	tons/yr										MT/yr					
Apartments Mid Rise	1.84867e+006	9.9700e-003	0.0852	0.0363	5.4000e-004		6.8900e-003	6.8900e-003		6.8900e-003	6.8900e-003	0.0000	98.6522	98.6522	1.8900e-003	1.8100e-003	99.2384
Fast Food Restaurant w/o Drive Thru	461520	2.4900e-003	0.0226	0.0190	1.4000e-004		1.7200e-003	1.7200e-003		1.7200e-003	1.7200e-003	0.0000	24.6285	24.6285	4.7000e-004	4.5000e-004	24.7748
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
Supermarket	507610	2.7400e-003	0.0249	0.0209	1.5000e-004		1.8900e-003	1.8900e-003		1.8900e-003	1.8900e-003	0.0000	27.0880	27.0880	5.2000e-004	5.0000e-004	27.2490
Unenclosed Parking with Electric	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		0.0152	0.1327	0.0762	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	150.3686	150.3686	2.8800e-003	2.7600e-003	151.2622

Mitigated

	Natural Gas 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	tons/yr										MT/yr					
Apartments Mid Rise	1.55837e+006	8.4000e-003	0.0718	0.0306	4.6000e-004		5.8100e-003	5.8100e-003		5.8100e-003	5.8100e-003	0.0000	83.1604	83.1604	1.5900e-003	1.5200e-003	83.6546
Fast Food Restaurant w/o Drive Thru	435732	2.3500e-003	0.0214	0.0179	1.3000e-004		1.6200e-003	1.6200e-003		1.6200e-003	1.6200e-003	0.0000	23.2523	23.2523	4.5000e-004	4.3000e-004	23.3905
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
Supermarket	439783	2.3700e-003	0.0216	0.0181	1.3000e-004		1.6400e-003	1.6400e-003		1.6400e-003	1.6400e-003	0.0000	23.4685	23.4685	4.5000e-004	4.3000e-004	23.6080
Unenclosed Parking with Electric	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		0.0131	0.1147	0.0666	7.2000e-004		9.0700e-003	9.0700e-003		9.0700e-003	9.0700e-003	0.0000	129.8813	129.8813	2.4900e-003	2.3800e-003	130.6531

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	558647	134.6660	7.3500e-003	1.5200e-003	135.3027
Fast Food Restaurant w/o Drive Thru	88280	21.2805	1.1600e-003	2.4000e-004	21.3812
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Supermarket	858590	206.9692	0.0113	2.3400e-003	207.9479
Unenclosed Parking with Electric	193835	46.7253	2.5500e-003	5.3000e-004	46.9463
Total		409.6410	0.0224	4.6300e-003	411.5781

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	548189	132.1448	7.2100e-003	1.4900e-003	132.7696
Fast Food Restaurant w/o Drive Thru	83414	20.1075	1.1000e-003	2.3000e-004	20.2026
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Supermarket	828092	199.6175	0.0109	2.2500e-003	200.5614
Unenclosed Parking with Electric	193835	46.7253	2.5500e-003	5.3000e-004	46.9463
Total		398.5951	0.0218	4.5000e-003	400.4799

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.7194	0.0164	1.4254	8.0000e-005		7.8900e-003	7.8900e-003		7.8900e-003	7.8900e-003	0.0000	2.3284	2.3284	2.2500e-003	0.0000	2.3846
Unmitigated	0.7194	0.0164	1.4254	8.0000e-005		7.8900e-003	7.8900e-003		7.8900e-003	7.8900e-003	0.0000	2.3284	2.3284	2.2500e-003	0.0000	2.3846

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					
Architectural Coating	0.0123					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6640					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	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	0.0431	0.0164	1.4254	8.0000e-005		7.8900e-003	7.8900e-003		7.8900e-003	7.8900e-003	0.0000	2.3284	2.3284	2.2500e-003	0.0000	2.3846
Total	0.7194	0.0164	1.4254	8.0000e-005		7.8900e-003	7.8900e-003		7.8900e-003	7.8900e-003	0.0000	2.3284	2.3284	2.2500e-003	0.0000	2.3846

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0123					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6640					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	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	0.0431	0.0164	1.4254	8.0000e-005		7.8900e-003	7.8900e-003		7.8900e-003	7.8900e-003	0.0000	2.3284	2.3284	2.2500e-003	0.0000	2.3846
Total	0.7194	0.0164	1.4254	8.0000e-005		7.8900e-003	7.8900e-003		7.8900e-003	7.8900e-003	0.0000	2.3284	2.3284	2.2500e-003	0.0000	2.3846

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	49.3130	0.0146	8.1700e-003	52.1129
Unmitigated	58.9447	0.0181	0.0102	62.4319

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	8.99126 / 5.6684	46.5837	0.0133	7.4100e-003	49.1242
Fast Food Restaurant w/o Drive Thru	0.607067 / 0.038749	2.2240	8.5000e-004	4.9000e-004	2.3912
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Supermarket	2.83517 / 0.0876856	10.1370	3.9500e-003	2.2800e-003	10.9165
Unenclosed Parking with Flights	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		58.9447	0.0181	0.0102	62.4319

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	7.193 / 5.32263	39.3771	0.0108	5.9500e-003	41.4195
Fast Food Restaurant w/o Drive Thru	0.485654 / 0.0363853	1.7936	6.8000e-004	3.9000e-004	1.9275
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Supermarket	2.26814 / 0.0823368	8.1422	3.1600e-003	1.8300e-003	8.7660
Unenclosed Parking with Flights	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		49.3130	0.0146	8.1700e-003	52.1129

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	43.8948	2.5941	0.0000	108.7474
Unmitigated	43.8948	2.5941	0.0000	108.7474

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
	tons	MT/yr			
Land Use					
Apartments Mid Rise	63.48	12.8859	0.7615	0.0000	31.9242
Fast Food Restaurant w/o Drive Thru	23.04	4.6769	0.2764	0.0000	11.5869
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Supermarket	129.72	26.3320	1.5562	0.0000	65.2364
Unenclosed Parking with Electric	0	0.0000	0.0000	0.0000	0.0000
Total		43.8948	2.5941	0.0000	108.7474

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	63.48	12.8859	0.7615	0.0000	31.9242
Fast Food Restaurant w/o Drive Thru	23.04	4.6769	0.2764	0.0000	11.5869
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Supermarket	129.72	26.3320	1.5562	0.0000	65.2364
Unenclosed Parking with Electric	0	0.0000	0.0000	0.0000	0.0000
Total		43.8948	2.5941	0.0000	108.7474

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

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

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

User Defined Equipment

Equipment Type	Number
----------------	--------

11.0 Vegetation

Proposed Project - Los Angeles-South Coast County, Summer

Proposed Project
Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	25.40	1000sqft	0.58	25,398.00	0
Unenclosed Parking with Elevator	99.92	1000sqft	0.43	99,915.00	0
Fast Food Restaurant w/o Drive Thru	2.00	1000sqft	0.05	2,000.00	0
Apartments Mid Rise	138.00	Dwelling Unit	0.00	156,525.00	395
Supermarket	23.00	1000sqft	0.53	23,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	531.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - See assumptions file

Land Use - See assumptions file.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT - See assumptions file.

Demolition -

Architectural Coating - See assumptions file.

Woodstoves - No fireplaces or wood burning stoves.

Area Coating - See assumptions file.

Energy Use -

Water And Wastewater - Assumes 100% aerobic.

Construction Off-road Equipment Mitigation - Per Mid-Town Specific Plan Mitigation Measures AQ-1 and AQ-2

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
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tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblArchitecturalCoating	EF_Residential_Exterior	50.00	10.00
tblArchitecturalCoating	EF_Residential_Interior	50.00	10.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	10
tblAreaCoating	Area_EF_Nonresidential_Interior	100	10
tblAreaCoating	Area_EF_Residential_Exterior	50	10
tblAreaCoating	Area_EF_Residential_Interior	50	10
tblAreaCoating	Area_Parking	7519	5995
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9

tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
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tblFleetMix	LDT2	0.21	0.22
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	6.2270e-003	9.4600e-004
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tblFleetMix	MDV	0.12	0.13
tblFleetMix	MH	8.6200e-004	1.3100e-004
tblFleetMix	MHD	0.02	3.1080e-003
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tblFleetMix	SBUS	6.9200e-004	1.0500e-004
tblFleetMix	UBUS	2.1330e-003	3.2400e-004
tblLandUse	LandUseSquareFeet	25,400.00	25,398.00
tblLandUse	LandUseSquareFeet	99,920.00	99,915.00
tblLandUse	LandUseSquareFeet	138,000.00	156,525.00
tblLandUse	LotAcreage	2.29	0.43
tblLandUse	LotAcreage	3.63	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	531.44
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tblVehicleEF	LDT1	1.65	1.41
tblVehicleEF	LDT1	2.11	1.86
tblVehicleEF	LDT1	344.92	325.13
tblVehicleEF	LDT1	67.47	61.56
tblVehicleEF	LDT1	0.12	0.09
tblVehicleEF	LDT1	0.13	0.22
tblVehicleEF	LDT1	3.3520e-003	2.5020e-003
tblVehicleEF	LDT1	3.2790e-003	2.4470e-003
tblVehicleEF	LDT1	3.0870e-003	2.3020e-003
tblVehicleEF	LDT1	3.0150e-003	2.2500e-003
tblVehicleEF	LDT1	0.19	0.18
tblVehicleEF	LDT1	0.26	0.19
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.04	0.03
tblVehicleEF	LDT1	0.15	0.59
tblVehicleEF	LDT1	0.15	0.28
tblVehicleEF	LDT1	3.4700e-003	3.1770e-003
tblVehicleEF	LDT1	7.1200e-004	6.0200e-004
tblVehicleEF	LDT1	0.19	0.18
tblVehicleEF	LDT1	0.26	0.19
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.05	0.05

tblVehicleEF	LDT1	0.15	0.59
tblVehicleEF	LDT1	0.16	0.31
tblVehicleEF	LDT1	0.01	6.5900e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.47	1.26
tblVehicleEF	LDT1	2.57	2.26
tblVehicleEF	LDT1	325.20	308.93
tblVehicleEF	LDT1	67.47	62.34
tblVehicleEF	LDT1	0.14	0.10
tblVehicleEF	LDT1	0.15	0.24
tblVehicleEF	LDT1	3.3520e-003	2.5020e-003
tblVehicleEF	LDT1	3.2790e-003	2.4470e-003
tblVehicleEF	LDT1	3.0870e-003	2.3020e-003
tblVehicleEF	LDT1	3.0150e-003	2.2500e-003
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.28	0.20
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.76
tblVehicleEF	LDT1	0.17	0.33
tblVehicleEF	LDT1	3.2700e-003	3.0190e-003
tblVehicleEF	LDT1	7.1900e-004	6.0900e-004
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.28	0.20
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.05	0.04
tblVehicleEF	LDT1	0.19	0.76

tblVehicleEF	LDT1	0.19	0.36
tblVehicleEF	LDT2	6.6130e-003	4.4260e-003
tblVehicleEF	LDT2	5.6850e-003	0.06
tblVehicleEF	LDT2	0.79	0.94
tblVehicleEF	LDT2	1.23	2.55
tblVehicleEF	LDT2	368.32	332.67
tblVehicleEF	LDT2	75.43	66.53
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.09	0.25
tblVehicleEF	LDT2	2.1490e-003	1.8230e-003
tblVehicleEF	LDT2	2.3760e-003	1.8150e-003
tblVehicleEF	LDT2	1.9770e-003	1.6780e-003
tblVehicleEF	LDT2	2.1840e-003	1.6690e-003
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.09	0.12
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.39
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	3.6890e-003	3.2500e-003
tblVehicleEF	LDT2	7.7500e-004	6.5000e-004
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.09	0.12
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.06	0.39
tblVehicleEF	LDT2	0.08	0.31

tblVehicleEF	LDT2	7.0150e-003	4.7110e-003
tblVehicleEF	LDT2	5.0630e-003	0.06
tblVehicleEF	LDT2	0.87	1.03
tblVehicleEF	LDT2	1.06	2.18
tblVehicleEF	LDT2	384.82	344.13
tblVehicleEF	LDT2	75.43	65.83
tblVehicleEF	LDT2	0.06	0.07
tblVehicleEF	LDT2	0.09	0.24
tblVehicleEF	LDT2	2.1490e-003	1.8230e-003
tblVehicleEF	LDT2	2.3760e-003	1.8150e-003
tblVehicleEF	LDT2	1.9770e-003	1.6780e-003
tblVehicleEF	LDT2	2.1840e-003	1.6690e-003
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.36
tblVehicleEF	LDT2	0.07	0.26
tblVehicleEF	LDT2	3.8550e-003	3.3620e-003
tblVehicleEF	LDT2	7.7200e-004	6.4300e-004
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.36
tblVehicleEF	LDT2	0.07	0.28
tblVehicleEF	LDT2	6.4820e-003	4.3360e-003

tblVehicleEF	LDT2	5.8190e-003	0.06
tblVehicleEF	LDT2	0.76	0.91
tblVehicleEF	LDT2	1.27	2.64
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tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.09	0.26
tblVehicleEF	LDT2	2.1490e-003	1.8230e-003
tblVehicleEF	LDT2	2.3760e-003	1.8150e-003
tblVehicleEF	LDT2	1.9770e-003	1.6780e-003
tblVehicleEF	LDT2	2.1840e-003	1.6690e-003
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.46
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	3.6280e-003	3.2090e-003
tblVehicleEF	LDT2	7.7500e-004	6.5200e-004
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.46
tblVehicleEF	LDT2	0.09	0.32
tblVehicleEF	LHD1	5.2860e-003	5.3650e-003
tblVehicleEF	LHD1	0.01	4.9910e-003

tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.75	0.57
tblVehicleEF	LHD1	2.58	1.08
tblVehicleEF	LHD1	8.94	8.81
tblVehicleEF	LHD1	595.21	652.98
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tblVehicleEF	LHD1	0.95	0.32
tblVehicleEF	LHD1	8.3300e-004	7.8400e-004
tblVehicleEF	LHD1	0.01	9.7290e-003
tblVehicleEF	LHD1	8.8370e-003	5.9880e-003
tblVehicleEF	LHD1	9.4800e-004	2.6800e-004
tblVehicleEF	LHD1	7.9700e-004	7.5000e-004
tblVehicleEF	LHD1	2.5350e-003	2.4320e-003
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tblVehicleEF	LHD1	8.7200e-004	2.4700e-004
tblVehicleEF	LHD1	2.9730e-003	2.3520e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8290e-003	1.4550e-003
tblVehicleEF	LHD1	0.06	0.04
tblVehicleEF	LHD1	0.30	0.51
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.0000e-005	8.6000e-005
tblVehicleEF	LHD1	5.8400e-003	6.3740e-003

tblVehicleEF	LHD1	3.7000e-004	1.1900e-004
tblVehicleEF	LHD1	2.9730e-003	2.3520e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8290e-003	1.4550e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.30	0.51
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.2860e-003	5.3760e-003
tblVehicleEF	LHD1	0.01	5.0880e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.76	0.58
tblVehicleEF	LHD1	2.46	1.03
tblVehicleEF	LHD1	8.94	8.81
tblVehicleEF	LHD1	595.21	653.00
tblVehicleEF	LHD1	32.17	11.97
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.81	0.52
tblVehicleEF	LHD1	0.91	0.30
tblVehicleEF	LHD1	8.3300e-004	7.8400e-004
tblVehicleEF	LHD1	0.01	9.7290e-003
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tblVehicleEF	LHD1	9.4800e-004	2.6800e-004
tblVehicleEF	LHD1	7.9700e-004	7.5000e-004
tblVehicleEF	LHD1	2.5350e-003	2.4320e-003
tblVehicleEF	LHD1	8.4300e-003	5.7010e-003

tblVehicleEF	LHD1	8.7200e-004	2.4700e-004
tblVehicleEF	LHD1	4.4450e-003	3.4570e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.5600e-003	2.0040e-003
tblVehicleEF	LHD1	0.06	0.05
tblVehicleEF	LHD1	0.29	0.50
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.0000e-005	8.6000e-005
tblVehicleEF	LHD1	5.8400e-003	6.3740e-003
tblVehicleEF	LHD1	3.6700e-004	1.1800e-004
tblVehicleEF	LHD1	4.4450e-003	3.4570e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.5600e-003	2.0040e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.29	0.50
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	5.2860e-003	5.3620e-003
tblVehicleEF	LHD1	0.01	4.9650e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.15	0.19
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tblVehicleEF	LHD1	595.21	652.97
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tblVehicleEF	LHD1	0.01	9.7290e-003
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tblVehicleEF	LHD1	9.4800e-004	2.6800e-004
tblVehicleEF	LHD1	7.9700e-004	7.5000e-004
tblVehicleEF	LHD1	2.5350e-003	2.4320e-003
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tblVehicleEF	LHD1	3.1110e-003	2.4630e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7990e-003	1.4330e-003
tblVehicleEF	LHD1	0.06	0.04
tblVehicleEF	LHD1	0.32	0.56
tblVehicleEF	LHD1	0.25	0.07
tblVehicleEF	LHD1	9.0000e-005	8.6000e-005
tblVehicleEF	LHD1	5.8400e-003	6.3740e-003
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tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7990e-003	1.4330e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.32	0.56

tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.7460e-003	3.7400e-003
tblVehicleEF	LHD2	3.7700e-003	3.5360e-003
tblVehicleEF	LHD2	7.4580e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.31	0.39
tblVehicleEF	LHD2	1.26	0.72
tblVehicleEF	LHD2	13.57	13.36
tblVehicleEF	LHD2	610.80	654.07
tblVehicleEF	LHD2	26.97	9.22
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.55	0.71
tblVehicleEF	LHD2	0.50	0.22
tblVehicleEF	LHD2	1.1440e-003	1.2760e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.4330e-003	9.6270e-003
tblVehicleEF	LHD2	4.4100e-004	1.5200e-004
tblVehicleEF	LHD2	1.0950e-003	1.2210e-003
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tblVehicleEF	LHD2	1.0290e-003	1.4320e-003
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.8900e-004	9.0800e-004
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tblVehicleEF	LHD2	0.07	0.32

tblVehicleEF	LHD2	0.10	0.05
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tblVehicleEF	LHD2	5.9490e-003	6.3290e-003
tblVehicleEF	LHD2	2.9200e-004	9.1000e-005
tblVehicleEF	LHD2	1.0290e-003	1.4320e-003
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.8900e-004	9.0800e-004
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tblVehicleEF	LHD2	0.07	0.32
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	3.7460e-003	3.7480e-003
tblVehicleEF	LHD2	3.8180e-003	3.5740e-003
tblVehicleEF	LHD2	7.2080e-003	9.7970e-003
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tblVehicleEF	LHD2	0.31	0.39
tblVehicleEF	LHD2	1.20	0.69
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tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.4330e-003	9.6270e-003
tblVehicleEF	LHD2	4.4100e-004	1.5200e-004

tblVehicleEF	LHD2	1.0950e-003	1.2210e-003
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tblVehicleEF	LHD2	8.0540e-003	9.1940e-003
tblVehicleEF	LHD2	4.0500e-004	1.4000e-004
tblVehicleEF	LHD2	1.5320e-003	2.1080e-003
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tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	9.5700e-004	1.2530e-003
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tblVehicleEF	LHD2	0.07	0.30
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tblVehicleEF	LHD2	1.5320e-003	2.1080e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	9.5700e-004	1.2530e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.30
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tblVehicleEF	LHD2	3.7460e-003	3.7380e-003
tblVehicleEF	LHD2	3.7580e-003	3.5260e-003
tblVehicleEF	LHD2	7.5080e-003	0.01
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tblVehicleEF	LHD2	0.31	0.38
tblVehicleEF	LHD2	1.27	0.72

tblVehicleEF	LHD2	13.57	13.36
tblVehicleEF	LHD2	610.80	654.06
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tblVehicleEF	LHD2	0.51	0.22
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tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.6600e-004	8.7900e-004
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tblVehicleEF	LHD2	0.08	0.34
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tblVehicleEF	LHD2	5.9490e-003	6.3290e-003
tblVehicleEF	LHD2	2.9200e-004	9.1000e-005
tblVehicleEF	LHD2	1.0410e-003	1.4720e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.02

tblVehicleEF	LHD2	6.6600e-004	8.7900e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.34
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	MCY	0.54	0.38
tblVehicleEF	MCY	0.15	0.23
tblVehicleEF	MCY	18.72	18.86
tblVehicleEF	MCY	9.68	8.54
tblVehicleEF	MCY	189.29	223.65
tblVehicleEF	MCY	44.13	59.21
tblVehicleEF	MCY	1.13	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	2.4730e-003	2.4800e-003
tblVehicleEF	MCY	3.6800e-003	3.1550e-003
tblVehicleEF	MCY	2.3100e-003	2.3160e-003
tblVehicleEF	MCY	3.4590e-003	2.9650e-003
tblVehicleEF	MCY	1.06	1.07
tblVehicleEF	MCY	0.62	0.64
tblVehicleEF	MCY	0.64	0.65
tblVehicleEF	MCY	2.58	2.60
tblVehicleEF	MCY	0.58	1.88
tblVehicleEF	MCY	2.04	1.80
tblVehicleEF	MCY	2.2780e-003	2.2130e-003
tblVehicleEF	MCY	6.5900e-004	5.8600e-004
tblVehicleEF	MCY	1.06	1.07
tblVehicleEF	MCY	0.62	0.64
tblVehicleEF	MCY	0.64	0.65

tblVehicleEF	MCY	3.22	3.23
tblVehicleEF	MCY	0.58	1.88
tblVehicleEF	MCY	2.22	1.96
tblVehicleEF	MCY	0.53	0.37
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	18.05	18.15
tblVehicleEF	MCY	8.84	7.77
tblVehicleEF	MCY	189.29	222.30
tblVehicleEF	MCY	44.13	57.32
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	2.4730e-003	2.4800e-003
tblVehicleEF	MCY	3.6800e-003	3.1550e-003
tblVehicleEF	MCY	2.3100e-003	2.3160e-003
tblVehicleEF	MCY	3.4590e-003	2.9650e-003
tblVehicleEF	MCY	1.72	1.71
tblVehicleEF	MCY	0.68	0.69
tblVehicleEF	MCY	1.06	1.05
tblVehicleEF	MCY	2.52	2.54
tblVehicleEF	MCY	0.54	1.76
tblVehicleEF	MCY	1.82	1.60
tblVehicleEF	MCY	2.2650e-003	2.2000e-003
tblVehicleEF	MCY	6.3900e-004	5.6700e-004
tblVehicleEF	MCY	1.72	1.71
tblVehicleEF	MCY	0.68	0.69
tblVehicleEF	MCY	1.06	1.05
tblVehicleEF	MCY	3.15	3.16

tblVehicleEF	MCY	0.54	1.76
tblVehicleEF	MCY	1.98	1.74
tblVehicleEF	MCY	0.54	0.38
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.82	19.00
tblVehicleEF	MCY	9.83	8.69
tblVehicleEF	MCY	189.29	223.92
tblVehicleEF	MCY	44.13	59.59
tblVehicleEF	MCY	1.10	1.10
tblVehicleEF	MCY	0.31	0.27
tblVehicleEF	MCY	2.4730e-003	2.4800e-003
tblVehicleEF	MCY	3.6800e-003	3.1550e-003
tblVehicleEF	MCY	2.3100e-003	2.3160e-003
tblVehicleEF	MCY	3.4590e-003	2.9650e-003
tblVehicleEF	MCY	1.15	1.17
tblVehicleEF	MCY	0.80	0.82
tblVehicleEF	MCY	0.61	0.63
tblVehicleEF	MCY	2.59	2.61
tblVehicleEF	MCY	0.67	2.18
tblVehicleEF	MCY	2.08	1.85
tblVehicleEF	MCY	2.2800e-003	2.2160e-003
tblVehicleEF	MCY	6.6300e-004	5.9000e-004
tblVehicleEF	MCY	1.15	1.17
tblVehicleEF	MCY	0.80	0.82
tblVehicleEF	MCY	0.61	0.63
tblVehicleEF	MCY	3.23	3.25
tblVehicleEF	MCY	0.67	2.18

tblVehicleEF	MCY	2.26	2.01
tblVehicleEF	MDV	0.01	5.6770e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.21	1.09
tblVehicleEF	MDV	2.22	2.92
tblVehicleEF	MDV	495.22	408.75
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tblVehicleEF	MDV	0.13	0.10
tblVehicleEF	MDV	0.19	0.31
tblVehicleEF	MDV	2.2990e-003	1.9550e-003
tblVehicleEF	MDV	2.4650e-003	1.9340e-003
tblVehicleEF	MDV	2.1190e-003	1.8020e-003
tblVehicleEF	MDV	2.2660e-003	1.7790e-003
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.15	0.13
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.09	0.41
tblVehicleEF	MDV	0.17	0.36
tblVehicleEF	MDV	4.9590e-003	3.9920e-003
tblVehicleEF	MDV	1.0380e-003	7.9000e-004
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.15	0.13
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.09	0.41
tblVehicleEF	MDV	0.18	0.39

tblVehicleEF	MDV	0.01	6.0290e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.32	1.19
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tblVehicleEF	MDV	0.11	0.08
tblVehicleEF	MDV	0.18	0.29
tblVehicleEF	MDV	2.2990e-003	1.9550e-003
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tblVehicleEF	MDV	2.2660e-003	1.7790e-003
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.09	0.12
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.08	0.38
tblVehicleEF	MDV	0.15	0.32
tblVehicleEF	MDV	5.1770e-003	4.1080e-003
tblVehicleEF	MDV	1.0320e-003	7.8200e-004
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.09	0.12
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.08	0.38
tblVehicleEF	MDV	0.16	0.35
tblVehicleEF	MDV	0.01	5.5640e-003

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tblVehicleEF	MDV	1.17	1.05
tblVehicleEF	MDV	2.29	3.02
tblVehicleEF	MDV	487.26	404.33
tblVehicleEF	MDV	99.91	81.03
tblVehicleEF	MDV	0.13	0.09
tblVehicleEF	MDV	0.20	0.31
tblVehicleEF	MDV	2.2990e-003	1.9550e-003
tblVehicleEF	MDV	2.4650e-003	1.9340e-003
tblVehicleEF	MDV	2.1190e-003	1.8020e-003
tblVehicleEF	MDV	2.2660e-003	1.7790e-003
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.10	0.48
tblVehicleEF	MDV	0.17	0.37
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tblVehicleEF	MDV	1.0390e-003	7.9200e-004
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.10	0.48
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tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	1.0430e-003	0.00
tblVehicleEF	MH	3.2050e-003	4.0000e-003
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	9.5900e-004	0.00
tblVehicleEF	MH	0.84	0.00
tblVehicleEF	MH	0.06	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.30	0.00
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tblVehicleEF	MH	0.06	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	0.02	2.9970e-003

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tblVehicleEF	MH	0.02	0.07
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tblVehicleEF	MH	1.24	0.00
tblVehicleEF	MH	0.06	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.29	0.00
tblVehicleEF	MH	0.01	9.0160e-003
tblVehicleEF	MH	6.8400e-004	0.00
tblVehicleEF	MH	1.24	0.00
tblVehicleEF	MH	0.06	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.31	0.00

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tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	9.5900e-004	0.00
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tblVehicleEF	MH	0.07	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.30	0.00
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tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.00

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tblVehicleEF	MHD	9.7000e-005	3.1200e-004
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tblVehicleEF	MHD	7.0500e-004	4.1000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.14
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tblVehicleEF	MHD	3.9490e-003	2.1410e-003
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tblVehicleEF	MHD	0.26	0.34
tblVehicleEF	MHD	0.32	0.28
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tblVehicleEF	MHD	8.6000e-005	2.7800e-004
tblVehicleEF	MHD	2.8420e-003	6.1300e-003
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tblVehicleEF	MHD	9.9000e-004	5.7300e-004
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tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.8500e-004	4.0000e-004
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tblVehicleEF	OBUS	2.52	0.84
tblVehicleEF	OBUS	2.0000e-005	1.1800e-004
tblVehicleEF	OBUS	2.6330e-003	7.0870e-003
tblVehicleEF	OBUS	8.2900e-004	2.0000e-004
tblVehicleEF	OBUS	1.9000e-005	1.1300e-004
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tblVehicleEF	OBUS	1.4160e-003	1.8400e-003
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tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	7.6700e-004	9.5000e-004
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tblVehicleEF	OBUS	0.03	0.05

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tblVehicleEF	OBUS	2.4000e-005	1.3600e-004

tblVehicleEF	OBUS	2.6330e-003	7.0870e-003
tblVehicleEF	OBUS	8.2900e-004	2.0000e-004
tblVehicleEF	OBUS	2.3000e-005	1.3000e-004
tblVehicleEF	OBUS	2.5030e-003	6.7660e-003
tblVehicleEF	OBUS	7.6200e-004	1.8400e-004
tblVehicleEF	OBUS	1.4400e-003	1.9120e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	7.4400e-004	9.3100e-004
tblVehicleEF	OBUS	0.04	0.03
tblVehicleEF	OBUS	0.04	0.29
tblVehicleEF	OBUS	0.33	0.11
tblVehicleEF	OBUS	9.1700e-004	8.7100e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.7000e-004	1.8900e-004
tblVehicleEF	OBUS	1.4400e-003	1.9120e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	7.4400e-004	9.3100e-004
tblVehicleEF	OBUS	0.05	0.04
tblVehicleEF	OBUS	0.04	0.29
tblVehicleEF	OBUS	0.36	0.12
tblVehicleEF	SBUS	0.84	0.08
tblVehicleEF	SBUS	0.01	6.7080e-003
tblVehicleEF	SBUS	0.06	7.0640e-003
tblVehicleEF	SBUS	8.28	3.14
tblVehicleEF	SBUS	0.67	0.57

tblVehicleEF	SBUS	7.16	0.97
tblVehicleEF	SBUS	1,105.31	354.45
tblVehicleEF	SBUS	1,070.53	1,085.99
tblVehicleEF	SBUS	56.44	5.97
tblVehicleEF	SBUS	8.50	3.03
tblVehicleEF	SBUS	3.81	4.38
tblVehicleEF	SBUS	11.84	0.95
tblVehicleEF	SBUS	8.1160e-003	3.5860e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	8.5300e-004	6.0000e-005
tblVehicleEF	SBUS	7.7650e-003	3.4310e-003
tblVehicleEF	SBUS	2.6580e-003	2.6530e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	7.8400e-004	5.5000e-005
tblVehicleEF	SBUS	3.3720e-003	1.0290e-003
tblVehicleEF	SBUS	0.03	8.9740e-003
tblVehicleEF	SBUS	0.99	0.36
tblVehicleEF	SBUS	1.8240e-003	5.5900e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.38	0.04
tblVehicleEF	SBUS	0.01	3.3860e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.8800e-004	5.9000e-005
tblVehicleEF	SBUS	3.3720e-003	1.0290e-003
tblVehicleEF	SBUS	0.03	8.9740e-003

tblVehicleEF	SBUS	1.43	0.52
tblVehicleEF	SBUS	1.8240e-003	5.5900e-004
tblVehicleEF	SBUS	0.12	0.10
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.41	0.04
tblVehicleEF	SBUS	0.84	0.08
tblVehicleEF	SBUS	0.01	6.7850e-003
tblVehicleEF	SBUS	0.05	6.3040e-003
tblVehicleEF	SBUS	8.18	3.11
tblVehicleEF	SBUS	0.68	0.58
tblVehicleEF	SBUS	5.81	0.79
tblVehicleEF	SBUS	1,154.44	361.51
tblVehicleEF	SBUS	1,070.53	1,086.01
tblVehicleEF	SBUS	56.44	5.68
tblVehicleEF	SBUS	8.77	3.09
tblVehicleEF	SBUS	3.59	4.13
tblVehicleEF	SBUS	11.81	0.95
tblVehicleEF	SBUS	6.8420e-003	3.0310e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	8.5300e-004	6.0000e-005
tblVehicleEF	SBUS	6.5460e-003	2.9000e-003
tblVehicleEF	SBUS	2.6580e-003	2.6530e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	7.8400e-004	5.5000e-005
tblVehicleEF	SBUS	4.9610e-003	1.4870e-003
tblVehicleEF	SBUS	0.03	9.1170e-003

tblVehicleEF	SBUS	0.98	0.36
tblVehicleEF	SBUS	2.5750e-003	7.7400e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.34	0.04
tblVehicleEF	SBUS	0.01	3.4520e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.6600e-004	5.6000e-005
tblVehicleEF	SBUS	4.9610e-003	1.4870e-003
tblVehicleEF	SBUS	0.03	9.1170e-003
tblVehicleEF	SBUS	1.42	0.52
tblVehicleEF	SBUS	2.5750e-003	7.7400e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.37	0.04
tblVehicleEF	SBUS	0.84	0.08
tblVehicleEF	SBUS	0.01	6.6840e-003
tblVehicleEF	SBUS	0.06	7.2390e-003
tblVehicleEF	SBUS	8.43	3.19
tblVehicleEF	SBUS	0.66	0.57
tblVehicleEF	SBUS	7.40	1.00
tblVehicleEF	SBUS	1,037.46	344.71
tblVehicleEF	SBUS	1,070.53	1,085.99
tblVehicleEF	SBUS	56.44	6.03
tblVehicleEF	SBUS	8.13	2.95
tblVehicleEF	SBUS	3.74	4.30
tblVehicleEF	SBUS	11.85	0.96

tblVehicleEF	SBUS	9.8760e-003	4.3530e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	8.5300e-004	6.0000e-005
tblVehicleEF	SBUS	9.4480e-003	4.1650e-003
tblVehicleEF	SBUS	2.6580e-003	2.6530e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	7.8400e-004	5.5000e-005
tblVehicleEF	SBUS	3.3940e-003	1.0330e-003
tblVehicleEF	SBUS	0.03	9.3490e-003
tblVehicleEF	SBUS	0.99	0.36
tblVehicleEF	SBUS	1.7490e-003	5.3600e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.39	0.04
tblVehicleEF	SBUS	0.01	3.2930e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.9200e-004	6.0000e-005
tblVehicleEF	SBUS	3.3940e-003	1.0330e-003
tblVehicleEF	SBUS	0.03	9.3490e-003
tblVehicleEF	SBUS	1.43	0.52
tblVehicleEF	SBUS	1.7490e-003	5.3600e-004
tblVehicleEF	SBUS	0.12	0.10
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.42	0.05
tblVehicleEF	UBUS	2.44	5.85
tblVehicleEF	UBUS	0.05	0.01

tblVehicleEF	UBUS	10.68	45.42
tblVehicleEF	UBUS	8.84	0.71
tblVehicleEF	UBUS	1,951.45	1,987.99
tblVehicleEF	UBUS	100.38	8.42
tblVehicleEF	UBUS	9.33	0.47
tblVehicleEF	UBUS	15.09	0.08
tblVehicleEF	UBUS	0.60	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.12	3.2070e-003
tblVehicleEF	UBUS	1.1360e-003	5.7000e-005
tblVehicleEF	UBUS	0.26	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9690e-003
tblVehicleEF	UBUS	0.12	3.0640e-003
tblVehicleEF	UBUS	1.0450e-003	5.2000e-005
tblVehicleEF	UBUS	4.1100e-003	5.9300e-004
tblVehicleEF	UBUS	0.07	7.4130e-003
tblVehicleEF	UBUS	2.4100e-003	4.3400e-004
tblVehicleEF	UBUS	0.79	0.09
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.68	0.05
tblVehicleEF	UBUS	9.8060e-003	1.4050e-003
tblVehicleEF	UBUS	1.1630e-003	8.3000e-005
tblVehicleEF	UBUS	4.1100e-003	5.9300e-004
tblVehicleEF	UBUS	0.07	7.4130e-003
tblVehicleEF	UBUS	2.4100e-003	4.3400e-004
tblVehicleEF	UBUS	3.32	5.97
tblVehicleEF	UBUS	0.02	0.05

tblVehicleEF	UBUS	0.75	0.05
tblVehicleEF	UBUS	2.44	5.85
tblVehicleEF	UBUS	0.05	9.9370e-003
tblVehicleEF	UBUS	10.72	45.42
tblVehicleEF	UBUS	7.66	0.63
tblVehicleEF	UBUS	1,951.45	1,987.99
tblVehicleEF	UBUS	100.38	8.27
tblVehicleEF	UBUS	8.79	0.47
tblVehicleEF	UBUS	15.04	0.08
tblVehicleEF	UBUS	0.60	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.12	3.2070e-003
tblVehicleEF	UBUS	1.1360e-003	5.7000e-005
tblVehicleEF	UBUS	0.26	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9690e-003
tblVehicleEF	UBUS	0.12	3.0640e-003
tblVehicleEF	UBUS	1.0450e-003	5.2000e-005
tblVehicleEF	UBUS	5.8640e-003	8.6100e-004
tblVehicleEF	UBUS	0.07	7.6580e-003
tblVehicleEF	UBUS	3.3120e-003	6.0000e-004
tblVehicleEF	UBUS	0.80	0.09
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	0.63	0.04
tblVehicleEF	UBUS	9.8070e-003	1.4050e-003
tblVehicleEF	UBUS	1.1430e-003	8.2000e-005
tblVehicleEF	UBUS	5.8640e-003	8.6100e-004
tblVehicleEF	UBUS	0.07	7.6580e-003

tblVehicleEF	UBUS	3.3120e-003	6.0000e-004
tblVehicleEF	UBUS	3.33	5.97
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	0.69	0.05
tblVehicleEF	UBUS	2.44	5.85
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	10.66	45.42
tblVehicleEF	UBUS	9.05	0.73
tblVehicleEF	UBUS	1,951.45	1,987.99
tblVehicleEF	UBUS	100.38	8.45
tblVehicleEF	UBUS	9.15	0.47
tblVehicleEF	UBUS	15.10	0.08
tblVehicleEF	UBUS	0.60	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.12	3.2070e-003
tblVehicleEF	UBUS	1.1360e-003	5.7000e-005
tblVehicleEF	UBUS	0.26	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9690e-003
tblVehicleEF	UBUS	0.12	3.0640e-003
tblVehicleEF	UBUS	1.0450e-003	5.2000e-005
tblVehicleEF	UBUS	4.6290e-003	5.8300e-004
tblVehicleEF	UBUS	0.08	7.9410e-003
tblVehicleEF	UBUS	2.5090e-003	4.1300e-004
tblVehicleEF	UBUS	0.79	0.09
tblVehicleEF	UBUS	0.03	0.06
tblVehicleEF	UBUS	0.70	0.05
tblVehicleEF	UBUS	9.8060e-003	1.4050e-003

tblVehicleEF	UBUS	1.1670e-003	8.4000e-005
tblVehicleEF	UBUS	4.6290e-003	5.8300e-004
tblVehicleEF	UBUS	0.08	7.9410e-003
tblVehicleEF	UBUS	2.5090e-003	4.1300e-004
tblVehicleEF	UBUS	3.31	5.97
tblVehicleEF	UBUS	0.03	0.06
tblVehicleEF	UBUS	0.76	0.05
tblVehicleTrips	ST_TR	6.39	4.52
tblVehicleTrips	ST_TR	696.00	293.13
tblVehicleTrips	ST_TR	177.59	163.41
tblVehicleTrips	SU_TR	5.86	3.76
tblVehicleTrips	SU_TR	500.00	388.07
tblVehicleTrips	SU_TR	166.44	153.15
tblVehicleTrips	WD_TR	6.65	5.00
tblVehicleTrips	WD_TR	716.00	289.96
tblVehicleTrips	WD_TR	102.24	98.24
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	6.90	0.00
tblWoodstoves	NumberNoncatalytic	6.90	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	2.9055	23.0246	21.2805	0.0511	5.9146	1.1608	6.7383	2.9848	1.0841	3.7427	0.0000	4,963.3364	4,963.3364	0.6412	0.0000	4,975.7551
2021	25.0406	17.8940	20.3337	0.0504	2.0381	0.7065	2.7446	0.5462	0.6815	1.2277	0.0000	4,895.2862	4,895.2862	0.4741	0.0000	4,907.1390
Maximum	25.0406	23.0246	21.2805	0.0511	5.9146	1.1608	6.7383	2.9848	1.0841	3.7427	0.0000	4,963.3364	4,963.3364	0.6412	0.0000	4,975.7551

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	1.2761	14.6648	21.5710	0.0511	2.2551	0.1962	2.2860	1.1233	0.1942	1.1540	0.0000	4,963.3364	4,963.3364	0.6412	0.0000	4,975.7551
2021	24.8761	14.2504	20.9128	0.0504	1.8822	0.1839	2.0661	0.5079	0.1825	0.6904	0.0000	4,895.2862	4,895.2862	0.4741	0.0000	4,907.1390
Maximum	24.8761	14.6648	21.5710	0.0511	2.2551	0.1962	2.2860	1.1233	0.1942	1.1540	0.0000	4,963.3364	4,963.3364	0.6412	0.0000	4,975.7551

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	6.42	29.33	-2.09	0.00	47.98	79.64	54.11	53.80	78.67	62.89	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational
Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.0507	0.1314	11.4031	6.0000e-004		0.0631	0.0631		0.0631	0.0631	0.0000	20.5331	20.5331	0.0198	0.0000	21.0281
Energy	0.0833	0.7271	0.4173	4.5400e-003		0.0575	0.0575		0.0575	0.0575		908.2358	908.2358	0.0174	0.0167	913.6330
Mobile	10.6697	12.9314	78.1482	0.1940	18.4317	0.1506	18.5823	4.9155	0.1401	5.0556		20,187.5978	20,187.5978	1.4609		20,224.1194
Total	14.8037	13.7898	89.9685	0.1992	18.4317	0.2712	18.7029	4.9155	0.2607	5.1762	0.0000	21,116.3667	21,116.3667	1.4981	0.0167	21,158.7804

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.0507	0.1314	11.4031	6.0000e-004		0.0631	0.0631		0.0631	0.0631	0.0000	20.5331	20.5331	0.0198	0.0000	21.0281
Energy	0.0719	0.6286	0.3650	3.9200e-003		0.0497	0.0497		0.0497	0.0497		784.4908	784.4908	0.0150	0.0144	789.1526
Mobile	10.6697	12.9314	78.1482	0.1940	18.4317	0.1506	18.5823	4.9155	0.1401	5.0556		20,187.5978	20,187.5978	1.4609		20,224.1194
Total	14.7924	13.6914	89.9162	0.1986	18.4317	0.2633	18.6951	4.9155	0.2529	5.1684	0.0000	20,992.6217	20,992.6217	1.4957	0.0144	21,034.3001

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.08	0.71	0.06	0.31	0.00	2.89	0.04	0.00	3.01	0.15	0.00	0.59	0.59	0.16	13.63	0.59

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	7/18/2020	8/14/2020	5	20	
2	Site Preparation	Site Preparation	8/15/2020	8/18/2020	5	2	
3	Grading	Grading	8/19/2020	8/24/2020	5	4	
4	Building Construction	Building Construction	8/25/2020	5/31/2021	5	200	
5	Paving	Paving	6/1/2021	6/14/2021	5	10	
6	Architectural Coating	Architectural Coating	6/15/2021	6/28/2021	5	10	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 1.01

Residential Indoor: 316,963; Residential Outdoor: 105,654; Non-Residential Indoor: 37,500; Non-Residential Outdoor: 12,500; Striped

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	87	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37

Building Construction	Cranes	1	6.00	23	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
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	Hauling Vehicle
Demolition	5	13.00	4.00	112.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	160.00	39.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	32.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.2133	0.0000	1.2133	0.1837	0.0000	0.1837			0.0000			0.0000
Off-Road	2.1262	20.9463	14.6573	0.0241		1.1525	1.1525		1.0761	1.0761		2,322.3127	2,322.3127	0.5970		2,337.2363
Total	2.1262	20.9463	14.6573	0.0241	1.2133	1.1525	2.3658	0.1837	1.0761	1.2599		2,322.3127	2,322.3127	0.5970		2,337.2363

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0489	1.6102	0.3568	4.4200e-003	0.0979	5.1400e-003	0.1031	0.0268	4.9200e-003	0.0318		479.2658	479.2658	0.0326		480.0814
Vendor	0.0142	0.4255	0.1115	1.0400e-003	0.0256	2.0000e-003	0.0276	7.3700e-003	1.9200e-003	9.2900e-003		110.8099	110.8099	6.7600e-003		110.9789
Worker	0.0598	0.0426	0.5692	1.5400e-003	0.1453	1.2100e-003	0.1465	0.0385	1.1200e-003	0.0397		152.8947	152.8947	4.8200e-003		153.0152
Total	0.1230	2.0783	1.0375	7.0000e-003	0.2688	8.3500e-003	0.2772	0.0728	7.9600e-003	0.0807		742.9704	742.9704	0.0442		744.0755

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.4495	0.0000	0.4495	0.0681	0.0000	0.0681			0.0000			0.0000
Off-Road	0.4630	8.5434	15.4154	0.0241		0.0375	0.0375		0.0375	0.0375	0.0000	2,322.3127	2,322.3127	0.5970		2,337.2363
Total	0.4630	8.5434	15.4154	0.0241	0.4495	0.0375	0.4870	0.0681	0.0375	0.1055	0.0000	2,322.3127	2,322.3127	0.5970		2,337.2363

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0489	1.6102	0.3568	4.4200e-003	0.0913	5.1400e-003	0.0964	0.0252	4.9200e-003	0.0301		479.2658	479.2658	0.0326		480.0814
Vendor	0.0142	0.4255	0.1115	1.0400e-003	0.0240	2.0000e-003	0.0260	6.9700e-003	1.9200e-003	8.8900e-003		110.8099	110.8099	6.7600e-003		110.9789
Worker	0.0598	0.0426	0.5692	1.5400e-003	0.1339	1.2100e-003	0.1352	0.0358	1.1200e-003	0.0369		152.8947	152.8947	4.8200e-003		153.0152
Total	0.1230	2.0783	1.0375	7.0000e-003	0.2492	8.3500e-003	0.2575	0.0679	7.9600e-003	0.0759		742.9704	742.9704	0.0442		744.0755

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.7996	0.0000	5.7996	2.9537	0.0000	2.9537			0.0000			0.0000
Off-Road	1.6299	18.3464	7.7093	0.0172		0.8210	0.8210		0.7553	0.7553		1,667.4119	1,667.4119	0.5393		1,680.8937
Total	1.6299	18.3464	7.7093	0.0172	5.7996	0.8210	6.6205	2.9537	0.7553	3.7090		1,667.4119	1,667.4119	0.5393		1,680.8937

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0142	0.4255	0.1115	1.0400e-003	0.0256	2.0000e-003	0.0276	7.3700e-003	1.9200e-003	9.2900e-003		110.8099	110.8099	6.7600e-003		110.9789
Worker	0.0368	0.0262	0.3503	9.4000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		94.0890	94.0890	2.9700e-003		94.1632
Total	0.0511	0.4517	0.4618	1.9800e-003	0.1150	2.7500e-003	0.1178	0.0311	2.6100e-003	0.0337		204.8989	204.8989	9.7300e-003		205.1421

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					2.1487	0.0000	2.1487	1.0944	0.0000	1.0944			0.0000				0.0000
Off-Road	0.2998	5.0659	9.8221	0.0172		0.0281	0.0281		0.0281	0.0281	0.0000	1,667.4119	1,667.4119	0.5393			1,680.8937
Total	0.2998	5.0659	9.8221	0.0172	2.1487	0.0281	2.1768	1.0944	0.0281	1.1224	0.0000	1,667.4119	1,667.4119	0.5393			1,680.8937

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0142	0.4255	0.1115	1.0400e-003	0.0240	2.0000e-003	0.0260	6.9700e-003	1.9200e-003	8.8900e-003		110.8099	110.8099	6.7600e-003			110.9789
Worker	0.0368	0.0262	0.3503	9.4000e-004	0.0824	7.5000e-004	0.0832	0.0220	6.9000e-004	0.0227		94.0890	94.0890	2.9700e-003			94.1632
Total	0.0511	0.4517	0.4618	1.9800e-003	0.1064	2.7500e-003	0.1091	0.0290	2.6100e-003	0.0316		204.8989	204.8989	9.7300e-003			205.1421

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9143	0.0000	4.9143	2.5256	0.0000	2.5256			0.0000			0.0000
Off-Road	1.3498	15.0854	6.4543	0.0141		0.6844	0.6844		0.6296	0.6296		1,365.7183	1,365.7183	0.4417		1,376.7609
Total	1.3498	15.0854	6.4543	0.0141	4.9143	0.6844	5.5986	2.5256	0.6296	3.1552		1,365.7183	1,365.7183	0.4417		1,376.7609

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0142	0.4255	0.1115	1.0400e-003	0.0256	2.0000e-003	0.0276	7.3700e-003	1.9200e-003	9.2900e-003		110.8099	110.8099	6.7600e-003		110.9789
Worker	0.0368	0.0262	0.3503	9.4000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		94.0890	94.0890	2.9700e-003		94.1632
Total	0.0511	0.4517	0.4618	1.9800e-003	0.1150	2.7500e-003	0.1178	0.0311	2.6100e-003	0.0337		204.8989	204.8989	9.7300e-003		205.1421

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.8207	0.0000	1.8207	0.9357	0.0000	0.9357			0.0000			0.0000
Off-Road	0.2466	4.1795	8.0841	0.0141		0.0230	0.0230		0.0230	0.0230	0.0000	1,365.7183	1,365.7183	0.4417		1,376.7609
Total	0.2466	4.1795	8.0841	0.0141	1.8207	0.0230	1.8437	0.9357	0.0230	0.9587	0.0000	1,365.7183	1,365.7183	0.4417		1,376.7609

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0142	0.4255	0.1115	1.0400e-003	0.0240	2.0000e-003	0.0260	6.9700e-003	1.9200e-003	8.8900e-003		110.8099	110.8099	6.7600e-003		110.9789
Worker	0.0368	0.0262	0.3503	9.4000e-004	0.0824	7.5000e-004	0.0832	0.0220	6.9000e-004	0.0227		94.0890	94.0890	2.9700e-003		94.1632
Total	0.0511	0.4517	0.4618	1.9800e-003	0.1064	2.7500e-003	0.1091	0.0290	2.6100e-003	0.0316		204.8989	204.8989	9.7300e-003		205.1421

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0305	14.7882	13.1881	0.0220		0.7960	0.7960		0.7688	0.7688		2,001.1595	2,001.1595	0.3715		2,010.4467
Total	2.0305	14.7882	13.1881	0.0220		0.7960	0.7960		0.7688	0.7688		2,001.1595	2,001.1595	0.3715		2,010.4467

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1387	4.1485	1.0870	0.0101	0.2497	0.0195	0.2692	0.0719	0.0187	0.0906		1,080.3963	1,080.3963	0.0659		1,082.0445
Worker	0.7363	0.5238	7.0055	0.0189	1.7884	0.0150	1.8034	0.4743	0.0138	0.4881		1,881.7806	1,881.7806	0.0593		1,883.2638
Total	0.8750	4.6724	8.0925	0.0290	2.0381	0.0345	2.0726	0.5462	0.0325	0.5786		2,962.1769	2,962.1769	0.1253		2,965.3084

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4010	9.9925	13.4786	0.0220		0.1617	0.1617		0.1617	0.1617	0.0000	2,001.1595	2,001.1595	0.3715		2,010.4467
Total	0.4010	9.9925	13.4786	0.0220		0.1617	0.1617		0.1617	0.1617	0.0000	2,001.1595	2,001.1595	0.3715		2,010.4467

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1387	4.1485	1.0870	0.0101	0.2337	0.0195	0.2532	0.0680	0.0187	0.0866		1,080.3963	1,080.3963	0.0659		1,082.0445
Worker	0.7363	0.5238	7.0055	0.0189	1.6485	0.0150	1.6634	0.4400	0.0138	0.4537		1,881.7806	1,881.7806	0.0593		1,883.2638
Total	0.8750	4.6724	8.0925	0.0290	1.8822	0.0345	1.9166	0.5079	0.0325	0.5404		2,962.1769	2,962.1769	0.1253		2,965.3084

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	lb/day										lb/day					
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.2200	2,001.2200	0.3573		2,010.1517
Total	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.2200	2,001.2200	0.3573		2,010.1517

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1185	3.7865	0.9899	0.0100	0.2497	7.7400e-003	0.2574	0.0719	7.4000e-003	0.0793		1,072.0345	1,072.0345	0.0632		1,073.6134
Worker	0.6859	0.4714	6.4444	0.0183	1.7884	0.0145	1.8029	0.4743	0.0133	0.4876		1,822.0318	1,822.0318	0.0537		1,823.3739
Total	0.8044	4.2579	7.4343	0.0283	2.0381	0.0222	2.0603	0.5462	0.0207	0.5669		2,894.0662	2,894.0662	0.1169		2,896.9873

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4010	9.9925	13.4786	0.0221		0.1617	0.1617		0.1617	0.1617	0.0000	2,001.2200	2,001.2200	0.3573		2,010.1517
Total	0.4010	9.9925	13.4786	0.0221		0.1617	0.1617		0.1617	0.1617	0.0000	2,001.2200	2,001.2200	0.3573		2,010.1517

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1185	3.7865	0.9899	0.0100	0.2337	7.7400e-003	0.2414	0.0680	7.4000e-003	0.0754		1,072.0345	1,072.0345	0.0632		1,073.6134
Worker	0.6859	0.4714	6.4444	0.0183	1.6485	0.0145	1.6629	0.4400	0.0133	0.4533		1,822.0318	1,822.0318	0.0537		1,823.3739
Total	0.8044	4.2579	7.4343	0.0283	1.8822	0.0222	1.9044	0.5079	0.0207	0.5286		2,894.0662	2,894.0662	0.1169		2,896.9873

3.6 Paving - 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	lb/day										lb/day					
Off-Road	0.7739	7.7422	8.8569	0.0135		0.4153	0.4153		0.3830	0.3830		1,296.8664	1,296.8664	0.4111		1,307.1442
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7739	7.7422	8.8569	0.0135		0.4153	0.4153		0.3830	0.3830		1,296.8664	1,296.8664	0.4111		1,307.1442

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0557	0.0383	0.5236	1.4900e-003	0.1453	1.1700e-003	0.1465	0.0385	1.0800e-003	0.0396		148.0401	148.0401	4.3600e-003		148.1491
Total	0.0557	0.0383	0.5236	1.4900e-003	0.1453	1.1700e-003	0.1465	0.0385	1.0800e-003	0.0396		148.0401	148.0401	4.3600e-003		148.1491

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2149	5.7133	9.8512	0.0135		0.0213	0.0213		0.0213	0.0213	0.0000	1,296.8664	1,296.8664	0.4111		1,307.1442
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.2149	5.7133	9.8512	0.0135		0.0213	0.0213		0.0213	0.0213	0.0000	1,296.8664	1,296.8664	0.4111		1,307.1442

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0557	0.0383	0.5236	1.4900e-003	0.1339	1.1700e-003	0.1351	0.0358	1.0800e-003	0.0368		148.0401	148.0401	4.3600e-003		148.1491
Total	0.0557	0.0383	0.5236	1.4900e-003	0.1339	1.1700e-003	0.1351	0.0358	1.0800e-003	0.0368		148.0401	148.0401	4.3600e-003		148.1491

3.7 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	lb/day										lb/day					
Archit. Coating	24.6845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	24.9034	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1372	0.0943	1.2889	3.6600e-003	0.3577	2.8900e-003	0.3606	0.0949	2.6600e-003	0.0975		364.4064	364.4064	0.0107		364.6748
Total	0.1372	0.0943	1.2889	3.6600e-003	0.3577	2.8900e-003	0.3606	0.0949	2.6600e-003	0.0975		364.4064	364.4064	0.0107		364.6748

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	24.6845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0545	1.0598	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0193		281.9309
Total	24.7390	1.0598	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0193		281.9309

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1372	0.0943	1.2889	3.6600e-003	0.3297	2.8900e-003	0.3326	0.0880	2.6600e-003	0.0907		364.4064	364.4064	0.0107		364.6748
Total	0.1372	0.0943	1.2889	3.6600e-003	0.3297	2.8900e-003	0.3326	0.0880	2.6600e-003	0.0907		364.4064	364.4064	0.0107		364.6748

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	lb/day										lb/day					
Mitigated	10.6697	12.9314	78.1482	0.1940	18.4317	0.1506	18.5823	4.9155	0.1401	5.0556		20,187.5978	20,187.5978	1.4609		20,224.1194
Unmitigated	10.6697	12.9314	78.1482	0.1940	18.4317	0.1506	18.5823	4.9155	0.1401	5.0556		20,187.5978	20,187.5978	1.4609		20,224.1194

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	690.00	623.76	518.88	2,241,964	2,241,964
Fast Food Restaurant w/o Drive Thru	579.92	586.26	776.14	1,102,667	1,102,667
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Supermarket	2,259.52	3,758.43	3522.45	3,501,966	3,501,966
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	3,529.44	4,968.45	4,817.47	6,846,597	6,846,597

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	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
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Fast Food Restaurant w/o Drive	16.60	8.40	6.90	1.50	79.50	19.00	51	37	12
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Supermarket	16.60	8.40	6.90	6.50	74.50	19.00	34	30	36
Unenclosed Parking with	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.577488	0.047363	0.217190	0.126235	0.016240	0.000946	0.003108	0.005000	0.000387	0.000324	0.005485	0.000105	0.000131
Fast Food Restaurant w/o Drive Thru	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Other Non-Asphalt Surfaces	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Supermarket	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Unenclosed Parking with Elevator	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
NaturalGas Mitigated	0.0719	0.6286	0.3650	3.9200e-003		0.0497	0.0497		0.0497	0.0497			784.4908	784.4908	0.0150	0.0144	789.1526
NaturalGas Unmitigated	0.0833	0.7271	0.4173	4.5400e-003		0.0575	0.0575		0.0575	0.0575			908.2358	908.2358	0.0174	0.0167	913.6330

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas 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	lb/day										lb/day					
Apartments Mid Rise	5064.85	0.0546	0.4668	0.1986	2.9800e-003		0.0377	0.0377		0.0377	0.0377		595.8651	595.8651	0.0114	0.0109	599.4060
Fast Food Restaurant w/o Drive Thru	1264.44	0.0136	0.1240	0.1041	7.4000e-004		9.4200e-003	9.4200e-003		9.4200e-003	9.4200e-003		148.7575	148.7575	2.8500e-003	2.7300e-003	149.6414
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
Supermarket	1390.71	0.0150	0.1363	0.1145	8.2000e-004		0.0104	0.0104		0.0104	0.0104		163.6132	163.6132	3.1400e-003	3.0000e-003	164.5855
Unenclosed Parking with Electric	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
Total		0.0833	0.7271	0.4173	4.5400e-003		0.0575	0.0575		0.0575	0.0575		908.2358	908.2358	0.0174	0.0167	913.6330

Mitigated

	Natural Gas 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	lb/day										lb/day					
Apartments Mid Rise	4.2695	0.0460	0.3935	0.1674	2.5100e-003		0.0318	0.0318		0.0318	0.0318		502.2942	502.2942	9.6300e-003	9.2100e-003	505.2790
Fast Food Restaurant w/o Drive Thru	1.19379	0.0129	0.1170	0.0983	7.0000e-004		8.8900e-003	8.8900e-003		8.8900e-003	8.8900e-003		140.4455	140.4455	2.6900e-003	2.5700e-003	141.2800
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
Supermarket	1.20488	0.0130	0.1181	0.0992	7.1000e-004		8.9800e-003	8.9800e-003		8.9800e-003	8.9800e-003		141.7512	141.7512	2.7200e-003	2.6000e-003	142.5935
Unenclosed Parking with Electric	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
Total		0.0719	0.6286	0.3650	3.9200e-003		0.0497	0.0497		0.0497	0.0497		784.4908	784.4908	0.0150	0.0144	789.1526

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.0507	0.1314	11.4031	6.0000e-004		0.0631	0.0631		0.0631	0.0631	0.0000	20.5331	20.5331	0.0198	0.0000	21.0281
Unmitigated	4.0507	0.1314	11.4031	6.0000e-004		0.0631	0.0631		0.0631	0.0631	0.0000	20.5331	20.5331	0.0198	0.0000	21.0281

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	lb/day										lb/day					
Architectural Coating	0.0676					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.6386					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	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	0.3445	0.1314	11.4031	6.0000e-004		0.0631	0.0631		0.0631	0.0631		20.5331	20.5331	0.0198		21.0281
Total	4.0507	0.1314	11.4031	6.0000e-004		0.0631	0.0631		0.0631	0.0631	0.0000	20.5331	20.5331	0.0198	0.0000	21.0281

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0676					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.6386					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	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	0.3445	0.1314	11.4031	6.0000e-004		0.0631	0.0631		0.0631	0.0631		20.5331	20.5331	0.0198		21.0281
Total	4.0507	0.1314	11.4031	6.0000e-004		0.0631	0.0631		0.0631	0.0631	0.0000	20.5331	20.5331	0.0198	0.0000	21.0281

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

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

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

Equipment Type	Number
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11.0 Vegetation

Proposed Project - Los Angeles-South Coast County, Winter

Proposed Project
Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	25.40	1000sqft	0.58	25,398.00	0
Unenclosed Parking with Elevator	99.92	1000sqft	0.43	99,915.00	0
Fast Food Restaurant w/o Drive Thru	2.00	1000sqft	0.05	2,000.00	0
Apartments Mid Rise	138.00	Dwelling Unit	0.00	156,525.00	395
Supermarket	23.00	1000sqft	0.53	23,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	531.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - See assumptions file

Land Use - See assumptions file.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT - See assumptions file.

Demolition -

Architectural Coating - See assumptions file.

Woodstoves - No fireplaces or wood burning stoves.

Area Coating - See assumptions file.

Energy Use -

Water And Wastewater - Assumes 100% aerobic.

Construction Off-road Equipment Mitigation - Per Mid-Town Specific Plan Mitigation Measures AQ-1 and AQ-2

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	7,519.00	5,995.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblArchitecturalCoating	EF_Residential_Exterior	50.00	10.00
tblArchitecturalCoating	EF_Residential_Interior	50.00	10.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	10
tblAreaCoating	Area_EF_Nonresidential_Interior	100	10
tblAreaCoating	Area_EF_Residential_Exterior	50	10
tblAreaCoating	Area_EF_Residential_Interior	50	10
tblAreaCoating	Area_Parking	7519	5995
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9

tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim

tblFireplaces	NumberGas	117.30	0.00
tblFireplaces	NumberNoFireplace	13.80	138.00
tblFireplaces	NumberWood	6.90	0.00
tblFleetMix	HHD	0.03	5.0000e-003
tblFleetMix	LDA	0.55	0.58
tblFleetMix	LDT1	0.04	0.05
tblFleetMix	LDT2	0.21	0.22
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	6.2270e-003	9.4600e-004
tblFleetMix	MCY	5.1840e-003	5.4850e-003
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MH	8.6200e-004	1.3100e-004
tblFleetMix	MHD	0.02	3.1080e-003
tblFleetMix	OBUS	2.5460e-003	3.8700e-004
tblFleetMix	SBUS	6.9200e-004	1.0500e-004
tblFleetMix	UBUS	2.1330e-003	3.2400e-004
tblLandUse	LandUseSquareFeet	25,400.00	25,398.00
tblLandUse	LandUseSquareFeet	99,920.00	99,915.00
tblLandUse	LandUseSquareFeet	138,000.00	156,525.00
tblLandUse	LotAcreage	2.29	0.43
tblLandUse	LotAcreage	3.63	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	531.44
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblVehicleEF	HHD	0.48	0.03
tblVehicleEF	HHD	0.09	0.08

tblVehicleEF	HHD	0.07	1.0000e-006
tblVehicleEF	HHD	1.63	6.71
tblVehicleEF	HHD	1.06	0.46
tblVehicleEF	HHD	3.33	9.5440e-003
tblVehicleEF	HHD	4,465.78	1,125.75
tblVehicleEF	HHD	1,572.96	1,398.54
tblVehicleEF	HHD	10.75	0.08
tblVehicleEF	HHD	14.30	5.75
tblVehicleEF	HHD	2.12	2.71
tblVehicleEF	HHD	19.50	2.35
tblVehicleEF	HHD	0.01	3.1920e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.2960e-003	0.02
tblVehicleEF	HHD	9.1000e-005	1.0000e-006
tblVehicleEF	HHD	9.6000e-003	3.0540e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8400e-003	8.8980e-003
tblVehicleEF	HHD	6.0240e-003	0.02
tblVehicleEF	HHD	8.3000e-005	1.0000e-006
tblVehicleEF	HHD	1.0300e-004	6.0000e-006
tblVehicleEF	HHD	4.5010e-003	2.2900e-004
tblVehicleEF	HHD	0.41	0.45
tblVehicleEF	HHD	7.8000e-005	4.0000e-006
tblVehicleEF	HHD	0.09	0.02
tblVehicleEF	HHD	3.7200e-004	1.1920e-003
tblVehicleEF	HHD	0.08	3.0000e-006

tblVehicleEF	HHD	0.04	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.6200e-004	1.0000e-006
tblVehicleEF	HHD	1.0300e-004	6.0000e-006
tblVehicleEF	HHD	4.5010e-003	2.2900e-004
tblVehicleEF	HHD	0.49	0.52
tblVehicleEF	HHD	7.8000e-005	4.0000e-006
tblVehicleEF	HHD	0.20	0.11
tblVehicleEF	HHD	3.7200e-004	1.1920e-003
tblVehicleEF	HHD	0.08	3.0000e-006
tblVehicleEF	HHD	0.45	0.03
tblVehicleEF	HHD	0.09	0.08
tblVehicleEF	HHD	0.07	1.0000e-006
tblVehicleEF	HHD	1.19	6.61
tblVehicleEF	HHD	1.07	0.46
tblVehicleEF	HHD	3.16	9.0650e-003
tblVehicleEF	HHD	4,731.10	1,113.07
tblVehicleEF	HHD	1,572.96	1,398.54
tblVehicleEF	HHD	10.75	0.08
tblVehicleEF	HHD	14.76	5.50
tblVehicleEF	HHD	2.01	2.56
tblVehicleEF	HHD	19.49	2.35
tblVehicleEF	HHD	8.4600e-003	2.7790e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.2960e-003	0.02
tblVehicleEF	HHD	9.1000e-005	1.0000e-006

tblVehicleEF	HHD	8.0940e-003	2.6590e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8400e-003	8.8980e-003
tblVehicleEF	HHD	6.0240e-003	0.02
tblVehicleEF	HHD	8.3000e-005	1.0000e-006
tblVehicleEF	HHD	1.5600e-004	9.0000e-006
tblVehicleEF	HHD	4.6140e-003	2.3400e-004
tblVehicleEF	HHD	0.39	0.48
tblVehicleEF	HHD	1.1200e-004	6.0000e-006
tblVehicleEF	HHD	0.09	0.02
tblVehicleEF	HHD	3.6000e-004	1.1730e-003
tblVehicleEF	HHD	0.07	3.0000e-006
tblVehicleEF	HHD	0.04	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.5900e-004	1.0000e-006
tblVehicleEF	HHD	1.5600e-004	9.0000e-006
tblVehicleEF	HHD	4.6140e-003	2.3400e-004
tblVehicleEF	HHD	0.46	0.55
tblVehicleEF	HHD	1.1200e-004	6.0000e-006
tblVehicleEF	HHD	0.20	0.11
tblVehicleEF	HHD	3.6000e-004	1.1730e-003
tblVehicleEF	HHD	0.08	3.0000e-006
tblVehicleEF	HHD	0.52	0.02
tblVehicleEF	HHD	0.09	9.8200e-004
tblVehicleEF	HHD	0.07	1.0000e-006
tblVehicleEF	HHD	2.25	6.74
tblVehicleEF	HHD	1.06	0.24

tblVehicleEF	HHD	3.36	9.6390e-003
tblVehicleEF	HHD	4,099.40	1,124.17
tblVehicleEF	HHD	1,572.96	1,344.43
tblVehicleEF	HHD	10.75	0.09
tblVehicleEF	HHD	13.67	5.98
tblVehicleEF	HHD	2.09	2.62
tblVehicleEF	HHD	19.50	2.35
tblVehicleEF	HHD	0.01	3.5320e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.2960e-003	0.02
tblVehicleEF	HHD	9.1000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	3.3800e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8400e-003	8.7530e-003
tblVehicleEF	HHD	6.0240e-003	0.02
tblVehicleEF	HHD	8.3000e-005	1.0000e-006
tblVehicleEF	HHD	1.0000e-004	6.0000e-006
tblVehicleEF	HHD	4.7840e-003	2.5900e-004
tblVehicleEF	HHD	0.45	0.42
tblVehicleEF	HHD	7.6000e-005	4.0000e-006
tblVehicleEF	HHD	0.09	0.02
tblVehicleEF	HHD	4.0500e-004	1.2680e-003
tblVehicleEF	HHD	0.08	3.0000e-006
tblVehicleEF	HHD	0.04	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.6300e-004	1.0000e-006

tblVehicleEF	HHD	1.0000e-004	6.0000e-006
tblVehicleEF	HHD	4.7840e-003	2.5900e-004
tblVehicleEF	HHD	0.53	0.47
tblVehicleEF	HHD	7.6000e-005	4.0000e-006
tblVehicleEF	HHD	0.20	0.02
tblVehicleEF	HHD	4.0500e-004	1.2680e-003
tblVehicleEF	HHD	0.08	3.0000e-006
tblVehicleEF	LDA	4.8310e-003	2.6490e-003
tblVehicleEF	LDA	4.7360e-003	0.05
tblVehicleEF	LDA	0.61	0.67
tblVehicleEF	LDA	1.04	2.04
tblVehicleEF	LDA	263.16	265.54
tblVehicleEF	LDA	54.94	52.30
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.06	0.17
tblVehicleEF	LDA	2.1170e-003	1.7100e-003
tblVehicleEF	LDA	2.2400e-003	1.7590e-003
tblVehicleEF	LDA	1.9520e-003	1.5750e-003
tblVehicleEF	LDA	2.0590e-003	1.6170e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	2.6360e-003	2.5940e-003
tblVehicleEF	LDA	5.6700e-004	5.1100e-004

tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.07	0.22
tblVehicleEF	LDA	5.1340e-003	2.8290e-003
tblVehicleEF	LDA	4.2110e-003	0.04
tblVehicleEF	LDA	0.67	0.73
tblVehicleEF	LDA	0.89	1.74
tblVehicleEF	LDA	275.40	277.14
tblVehicleEF	LDA	54.94	51.75
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.16
tblVehicleEF	LDA	2.1170e-003	1.7100e-003
tblVehicleEF	LDA	2.2400e-003	1.7590e-003
tblVehicleEF	LDA	1.9520e-003	1.5750e-003
tblVehicleEF	LDA	2.0590e-003	1.6170e-003
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.19
tblVehicleEF	LDA	0.06	0.18
tblVehicleEF	LDA	2.7590e-003	2.7080e-003
tblVehicleEF	LDA	5.6400e-004	5.0600e-004
tblVehicleEF	LDA	0.06	0.07

tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.19
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	4.7330e-003	2.5920e-003
tblVehicleEF	LDA	4.8460e-003	0.05
tblVehicleEF	LDA	0.59	0.64
tblVehicleEF	LDA	1.08	2.10
tblVehicleEF	LDA	258.68	261.25
tblVehicleEF	LDA	54.94	52.42
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.06	0.17
tblVehicleEF	LDA	2.1170e-003	1.7100e-003
tblVehicleEF	LDA	2.2400e-003	1.7590e-003
tblVehicleEF	LDA	1.9520e-003	1.5750e-003
tblVehicleEF	LDA	2.0590e-003	1.6170e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	2.5910e-003	2.5520e-003
tblVehicleEF	LDA	5.6700e-004	5.1200e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10

tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDT1	0.01	6.7160e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.52	1.30
tblVehicleEF	LDT1	2.49	2.19
tblVehicleEF	LDT1	330.49	313.30
tblVehicleEF	LDT1	67.47	62.20
tblVehicleEF	LDT1	0.14	0.10
tblVehicleEF	LDT1	0.14	0.24
tblVehicleEF	LDT1	3.3520e-003	2.5020e-003
tblVehicleEF	LDT1	3.2790e-003	2.4470e-003
tblVehicleEF	LDT1	3.0870e-003	2.3020e-003
tblVehicleEF	LDT1	3.0150e-003	2.2500e-003
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.25	0.18
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.16	0.64
tblVehicleEF	LDT1	0.17	0.32
tblVehicleEF	LDT1	3.3240e-003	3.0620e-003
tblVehicleEF	LDT1	7.1800e-004	6.0800e-004
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.25	0.18
tblVehicleEF	LDT1	0.10	0.10

tblVehicleEF	LDT1	0.05	0.04
tblVehicleEF	LDT1	0.16	0.64
tblVehicleEF	LDT1	0.18	0.35
tblVehicleEF	LDT1	0.01	7.1130e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.65	1.41
tblVehicleEF	LDT1	2.11	1.86
tblVehicleEF	LDT1	344.92	325.13
tblVehicleEF	LDT1	67.47	61.56
tblVehicleEF	LDT1	0.12	0.09
tblVehicleEF	LDT1	0.13	0.22
tblVehicleEF	LDT1	3.3520e-003	2.5020e-003
tblVehicleEF	LDT1	3.2790e-003	2.4470e-003
tblVehicleEF	LDT1	3.0870e-003	2.3020e-003
tblVehicleEF	LDT1	3.0150e-003	2.2500e-003
tblVehicleEF	LDT1	0.19	0.18
tblVehicleEF	LDT1	0.26	0.19
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.04	0.03
tblVehicleEF	LDT1	0.15	0.59
tblVehicleEF	LDT1	0.15	0.28
tblVehicleEF	LDT1	3.4700e-003	3.1770e-003
tblVehicleEF	LDT1	7.1200e-004	6.0200e-004
tblVehicleEF	LDT1	0.19	0.18
tblVehicleEF	LDT1	0.26	0.19
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.05	0.05

tblVehicleEF	LDT1	0.15	0.59
tblVehicleEF	LDT1	0.16	0.31
tblVehicleEF	LDT1	0.01	6.5900e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.47	1.26
tblVehicleEF	LDT1	2.57	2.26
tblVehicleEF	LDT1	325.20	308.93
tblVehicleEF	LDT1	67.47	62.34
tblVehicleEF	LDT1	0.14	0.10
tblVehicleEF	LDT1	0.15	0.24
tblVehicleEF	LDT1	3.3520e-003	2.5020e-003
tblVehicleEF	LDT1	3.2790e-003	2.4470e-003
tblVehicleEF	LDT1	3.0870e-003	2.3020e-003
tblVehicleEF	LDT1	3.0150e-003	2.2500e-003
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.28	0.20
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.76
tblVehicleEF	LDT1	0.17	0.33
tblVehicleEF	LDT1	3.2700e-003	3.0190e-003
tblVehicleEF	LDT1	7.1900e-004	6.0900e-004
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.28	0.20
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.05	0.04
tblVehicleEF	LDT1	0.19	0.76

tblVehicleEF	LDT1	0.19	0.36
tblVehicleEF	LDT2	6.6130e-003	4.4260e-003
tblVehicleEF	LDT2	5.6850e-003	0.06
tblVehicleEF	LDT2	0.79	0.94
tblVehicleEF	LDT2	1.23	2.55
tblVehicleEF	LDT2	368.32	332.67
tblVehicleEF	LDT2	75.43	66.53
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.09	0.25
tblVehicleEF	LDT2	2.1490e-003	1.8230e-003
tblVehicleEF	LDT2	2.3760e-003	1.8150e-003
tblVehicleEF	LDT2	1.9770e-003	1.6780e-003
tblVehicleEF	LDT2	2.1840e-003	1.6690e-003
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.09	0.12
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.39
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	3.6890e-003	3.2500e-003
tblVehicleEF	LDT2	7.7500e-004	6.5000e-004
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.09	0.12
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.06	0.39
tblVehicleEF	LDT2	0.08	0.31

tblVehicleEF	LDT2	7.0150e-003	4.7110e-003
tblVehicleEF	LDT2	5.0630e-003	0.06
tblVehicleEF	LDT2	0.87	1.03
tblVehicleEF	LDT2	1.06	2.18
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tblVehicleEF	LDT2	0.06	0.07
tblVehicleEF	LDT2	0.09	0.24
tblVehicleEF	LDT2	2.1490e-003	1.8230e-003
tblVehicleEF	LDT2	2.3760e-003	1.8150e-003
tblVehicleEF	LDT2	1.9770e-003	1.6780e-003
tblVehicleEF	LDT2	2.1840e-003	1.6690e-003
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.36
tblVehicleEF	LDT2	0.07	0.26
tblVehicleEF	LDT2	3.8550e-003	3.3620e-003
tblVehicleEF	LDT2	7.7200e-004	6.4300e-004
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.36
tblVehicleEF	LDT2	0.07	0.28
tblVehicleEF	LDT2	6.4820e-003	4.3360e-003

tblVehicleEF	LDT2	5.8190e-003	0.06
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tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.09	0.26
tblVehicleEF	LDT2	2.1490e-003	1.8230e-003
tblVehicleEF	LDT2	2.3760e-003	1.8150e-003
tblVehicleEF	LDT2	1.9770e-003	1.6780e-003
tblVehicleEF	LDT2	2.1840e-003	1.6690e-003
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.46
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	3.6280e-003	3.2090e-003
tblVehicleEF	LDT2	7.7500e-004	6.5200e-004
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tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.46
tblVehicleEF	LDT2	0.09	0.32
tblVehicleEF	LHD1	5.2860e-003	5.3650e-003
tblVehicleEF	LHD1	0.01	4.9910e-003

tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.75	0.57
tblVehicleEF	LHD1	2.58	1.08
tblVehicleEF	LHD1	8.94	8.81
tblVehicleEF	LHD1	595.21	652.98
tblVehicleEF	LHD1	32.17	12.06
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.86	0.55
tblVehicleEF	LHD1	0.95	0.32
tblVehicleEF	LHD1	8.3300e-004	7.8400e-004
tblVehicleEF	LHD1	0.01	9.7290e-003
tblVehicleEF	LHD1	8.8370e-003	5.9880e-003
tblVehicleEF	LHD1	9.4800e-004	2.6800e-004
tblVehicleEF	LHD1	7.9700e-004	7.5000e-004
tblVehicleEF	LHD1	2.5350e-003	2.4320e-003
tblVehicleEF	LHD1	8.4300e-003	5.7010e-003
tblVehicleEF	LHD1	8.7200e-004	2.4700e-004
tblVehicleEF	LHD1	2.9730e-003	2.3520e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8290e-003	1.4550e-003
tblVehicleEF	LHD1	0.06	0.04
tblVehicleEF	LHD1	0.30	0.51
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.0000e-005	8.6000e-005
tblVehicleEF	LHD1	5.8400e-003	6.3740e-003

tblVehicleEF	LHD1	3.7000e-004	1.1900e-004
tblVehicleEF	LHD1	2.9730e-003	2.3520e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8290e-003	1.4550e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.30	0.51
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.2860e-003	5.3760e-003
tblVehicleEF	LHD1	0.01	5.0880e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.76	0.58
tblVehicleEF	LHD1	2.46	1.03
tblVehicleEF	LHD1	8.94	8.81
tblVehicleEF	LHD1	595.21	653.00
tblVehicleEF	LHD1	32.17	11.97
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.81	0.52
tblVehicleEF	LHD1	0.91	0.30
tblVehicleEF	LHD1	8.3300e-004	7.8400e-004
tblVehicleEF	LHD1	0.01	9.7290e-003
tblVehicleEF	LHD1	8.8370e-003	5.9880e-003
tblVehicleEF	LHD1	9.4800e-004	2.6800e-004
tblVehicleEF	LHD1	7.9700e-004	7.5000e-004
tblVehicleEF	LHD1	2.5350e-003	2.4320e-003
tblVehicleEF	LHD1	8.4300e-003	5.7010e-003

tblVehicleEF	LHD1	8.7200e-004	2.4700e-004
tblVehicleEF	LHD1	4.4450e-003	3.4570e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.5600e-003	2.0040e-003
tblVehicleEF	LHD1	0.06	0.05
tblVehicleEF	LHD1	0.29	0.50
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.0000e-005	8.6000e-005
tblVehicleEF	LHD1	5.8400e-003	6.3740e-003
tblVehicleEF	LHD1	3.6700e-004	1.1800e-004
tblVehicleEF	LHD1	4.4450e-003	3.4570e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.5600e-003	2.0040e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.29	0.50
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	5.2860e-003	5.3620e-003
tblVehicleEF	LHD1	0.01	4.9650e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.74	0.56
tblVehicleEF	LHD1	2.59	1.09
tblVehicleEF	LHD1	8.94	8.81
tblVehicleEF	LHD1	595.21	652.97
tblVehicleEF	LHD1	32.17	12.07

tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.85	0.54
tblVehicleEF	LHD1	0.95	0.32
tblVehicleEF	LHD1	8.3300e-004	7.8400e-004
tblVehicleEF	LHD1	0.01	9.7290e-003
tblVehicleEF	LHD1	8.8370e-003	5.9880e-003
tblVehicleEF	LHD1	9.4800e-004	2.6800e-004
tblVehicleEF	LHD1	7.9700e-004	7.5000e-004
tblVehicleEF	LHD1	2.5350e-003	2.4320e-003
tblVehicleEF	LHD1	8.4300e-003	5.7010e-003
tblVehicleEF	LHD1	8.7200e-004	2.4700e-004
tblVehicleEF	LHD1	3.1110e-003	2.4630e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7990e-003	1.4330e-003
tblVehicleEF	LHD1	0.06	0.04
tblVehicleEF	LHD1	0.32	0.56
tblVehicleEF	LHD1	0.25	0.07
tblVehicleEF	LHD1	9.0000e-005	8.6000e-005
tblVehicleEF	LHD1	5.8400e-003	6.3740e-003
tblVehicleEF	LHD1	3.7000e-004	1.1900e-004
tblVehicleEF	LHD1	3.1110e-003	2.4630e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7990e-003	1.4330e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.32	0.56

tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.7460e-003	3.7400e-003
tblVehicleEF	LHD2	3.7700e-003	3.5360e-003
tblVehicleEF	LHD2	7.4580e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.31	0.39
tblVehicleEF	LHD2	1.26	0.72
tblVehicleEF	LHD2	13.57	13.36
tblVehicleEF	LHD2	610.80	654.07
tblVehicleEF	LHD2	26.97	9.22
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.55	0.71
tblVehicleEF	LHD2	0.50	0.22
tblVehicleEF	LHD2	1.1440e-003	1.2760e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.4330e-003	9.6270e-003
tblVehicleEF	LHD2	4.4100e-004	1.5200e-004
tblVehicleEF	LHD2	1.0950e-003	1.2210e-003
tblVehicleEF	LHD2	2.6630e-003	2.6430e-003
tblVehicleEF	LHD2	8.0540e-003	9.1940e-003
tblVehicleEF	LHD2	4.0500e-004	1.4000e-004
tblVehicleEF	LHD2	1.0290e-003	1.4320e-003
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.8900e-004	9.0800e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.07	0.32

tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	1.3300e-004	1.2800e-004
tblVehicleEF	LHD2	5.9490e-003	6.3290e-003
tblVehicleEF	LHD2	2.9200e-004	9.1000e-005
tblVehicleEF	LHD2	1.0290e-003	1.4320e-003
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.8900e-004	9.0800e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.32
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	3.7460e-003	3.7480e-003
tblVehicleEF	LHD2	3.8180e-003	3.5740e-003
tblVehicleEF	LHD2	7.2080e-003	9.7970e-003
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.31	0.39
tblVehicleEF	LHD2	1.20	0.69
tblVehicleEF	LHD2	13.57	13.36
tblVehicleEF	LHD2	610.80	654.07
tblVehicleEF	LHD2	26.97	9.16
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.52	0.67
tblVehicleEF	LHD2	0.49	0.21
tblVehicleEF	LHD2	1.1440e-003	1.2760e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.4330e-003	9.6270e-003
tblVehicleEF	LHD2	4.4100e-004	1.5200e-004

tblVehicleEF	LHD2	1.0950e-003	1.2210e-003
tblVehicleEF	LHD2	2.6630e-003	2.6430e-003
tblVehicleEF	LHD2	8.0540e-003	9.1940e-003
tblVehicleEF	LHD2	4.0500e-004	1.4000e-004
tblVehicleEF	LHD2	1.5320e-003	2.1080e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	9.5700e-004	1.2530e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.07	0.30
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	1.3300e-004	1.2800e-004
tblVehicleEF	LHD2	5.9490e-003	6.3290e-003
tblVehicleEF	LHD2	2.9100e-004	9.1000e-005
tblVehicleEF	LHD2	1.5320e-003	2.1080e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	9.5700e-004	1.2530e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.30
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	3.7460e-003	3.7380e-003
tblVehicleEF	LHD2	3.7580e-003	3.5260e-003
tblVehicleEF	LHD2	7.5080e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.31	0.38
tblVehicleEF	LHD2	1.27	0.72

tblVehicleEF	LHD2	13.57	13.36
tblVehicleEF	LHD2	610.80	654.06
tblVehicleEF	LHD2	26.97	9.23
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.54	0.69
tblVehicleEF	LHD2	0.51	0.22
tblVehicleEF	LHD2	1.1440e-003	1.2760e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.4330e-003	9.6270e-003
tblVehicleEF	LHD2	4.4100e-004	1.5200e-004
tblVehicleEF	LHD2	1.0950e-003	1.2210e-003
tblVehicleEF	LHD2	2.6630e-003	2.6430e-003
tblVehicleEF	LHD2	8.0540e-003	9.1940e-003
tblVehicleEF	LHD2	4.0500e-004	1.4000e-004
tblVehicleEF	LHD2	1.0410e-003	1.4720e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.6600e-004	8.7900e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.08	0.34
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	1.3300e-004	1.2800e-004
tblVehicleEF	LHD2	5.9490e-003	6.3290e-003
tblVehicleEF	LHD2	2.9200e-004	9.1000e-005
tblVehicleEF	LHD2	1.0410e-003	1.4720e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.02

tblVehicleEF	LHD2	6.6600e-004	8.7900e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.34
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	MCY	0.54	0.38
tblVehicleEF	MCY	0.15	0.23
tblVehicleEF	MCY	18.72	18.86
tblVehicleEF	MCY	9.68	8.54
tblVehicleEF	MCY	189.29	223.65
tblVehicleEF	MCY	44.13	59.21
tblVehicleEF	MCY	1.13	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	2.4730e-003	2.4800e-003
tblVehicleEF	MCY	3.6800e-003	3.1550e-003
tblVehicleEF	MCY	2.3100e-003	2.3160e-003
tblVehicleEF	MCY	3.4590e-003	2.9650e-003
tblVehicleEF	MCY	1.06	1.07
tblVehicleEF	MCY	0.62	0.64
tblVehicleEF	MCY	0.64	0.65
tblVehicleEF	MCY	2.58	2.60
tblVehicleEF	MCY	0.58	1.88
tblVehicleEF	MCY	2.04	1.80
tblVehicleEF	MCY	2.2780e-003	2.2130e-003
tblVehicleEF	MCY	6.5900e-004	5.8600e-004
tblVehicleEF	MCY	1.06	1.07
tblVehicleEF	MCY	0.62	0.64
tblVehicleEF	MCY	0.64	0.65

tblVehicleEF	MCY	3.22	3.23
tblVehicleEF	MCY	0.58	1.88
tblVehicleEF	MCY	2.22	1.96
tblVehicleEF	MCY	0.53	0.37
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	18.05	18.15
tblVehicleEF	MCY	8.84	7.77
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tblVehicleEF	MCY	44.13	57.32
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	2.4730e-003	2.4800e-003
tblVehicleEF	MCY	3.6800e-003	3.1550e-003
tblVehicleEF	MCY	2.3100e-003	2.3160e-003
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tblVehicleEF	MCY	1.72	1.71
tblVehicleEF	MCY	0.68	0.69
tblVehicleEF	MCY	1.06	1.05
tblVehicleEF	MCY	2.52	2.54
tblVehicleEF	MCY	0.54	1.76
tblVehicleEF	MCY	1.82	1.60
tblVehicleEF	MCY	2.2650e-003	2.2000e-003
tblVehicleEF	MCY	6.3900e-004	5.6700e-004
tblVehicleEF	MCY	1.72	1.71
tblVehicleEF	MCY	0.68	0.69
tblVehicleEF	MCY	1.06	1.05
tblVehicleEF	MCY	3.15	3.16

tblVehicleEF	MCY	0.54	1.76
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tblVehicleEF	MCY	0.54	0.38
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.82	19.00
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tblVehicleEF	MCY	189.29	223.92
tblVehicleEF	MCY	44.13	59.59
tblVehicleEF	MCY	1.10	1.10
tblVehicleEF	MCY	0.31	0.27
tblVehicleEF	MCY	2.4730e-003	2.4800e-003
tblVehicleEF	MCY	3.6800e-003	3.1550e-003
tblVehicleEF	MCY	2.3100e-003	2.3160e-003
tblVehicleEF	MCY	3.4590e-003	2.9650e-003
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tblVehicleEF	MCY	0.61	0.63
tblVehicleEF	MCY	2.59	2.61
tblVehicleEF	MCY	0.67	2.18
tblVehicleEF	MCY	2.08	1.85
tblVehicleEF	MCY	2.2800e-003	2.2160e-003
tblVehicleEF	MCY	6.6300e-004	5.9000e-004
tblVehicleEF	MCY	1.15	1.17
tblVehicleEF	MCY	0.80	0.82
tblVehicleEF	MCY	0.61	0.63
tblVehicleEF	MCY	3.23	3.25
tblVehicleEF	MCY	0.67	2.18

tblVehicleEF	MCY	2.26	2.01
tblVehicleEF	MDV	0.01	5.6770e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.21	1.09
tblVehicleEF	MDV	2.22	2.92
tblVehicleEF	MDV	495.22	408.75
tblVehicleEF	MDV	99.91	80.84
tblVehicleEF	MDV	0.13	0.10
tblVehicleEF	MDV	0.19	0.31
tblVehicleEF	MDV	2.2990e-003	1.9550e-003
tblVehicleEF	MDV	2.4650e-003	1.9340e-003
tblVehicleEF	MDV	2.1190e-003	1.8020e-003
tblVehicleEF	MDV	2.2660e-003	1.7790e-003
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.15	0.13
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.09	0.41
tblVehicleEF	MDV	0.17	0.36
tblVehicleEF	MDV	4.9590e-003	3.9920e-003
tblVehicleEF	MDV	1.0380e-003	7.9000e-004
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.15	0.13
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.09	0.41
tblVehicleEF	MDV	0.18	0.39

tblVehicleEF	MDV	0.01	6.0290e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.32	1.19
tblVehicleEF	MDV	1.90	2.49
tblVehicleEF	MDV	516.89	420.70
tblVehicleEF	MDV	99.91	80.01
tblVehicleEF	MDV	0.11	0.08
tblVehicleEF	MDV	0.18	0.29
tblVehicleEF	MDV	2.2990e-003	1.9550e-003
tblVehicleEF	MDV	2.4650e-003	1.9340e-003
tblVehicleEF	MDV	2.1190e-003	1.8020e-003
tblVehicleEF	MDV	2.2660e-003	1.7790e-003
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.09	0.12
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.08	0.38
tblVehicleEF	MDV	0.15	0.32
tblVehicleEF	MDV	5.1770e-003	4.1080e-003
tblVehicleEF	MDV	1.0320e-003	7.8200e-004
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.09	0.12
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.08	0.38
tblVehicleEF	MDV	0.16	0.35
tblVehicleEF	MDV	0.01	5.5640e-003

tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.17	1.05
tblVehicleEF	MDV	2.29	3.02
tblVehicleEF	MDV	487.26	404.33
tblVehicleEF	MDV	99.91	81.03
tblVehicleEF	MDV	0.13	0.09
tblVehicleEF	MDV	0.20	0.31
tblVehicleEF	MDV	2.2990e-003	1.9550e-003
tblVehicleEF	MDV	2.4650e-003	1.9340e-003
tblVehicleEF	MDV	2.1190e-003	1.8020e-003
tblVehicleEF	MDV	2.2660e-003	1.7790e-003
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.10	0.48
tblVehicleEF	MDV	0.17	0.37
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tblVehicleEF	MDV	1.0390e-003	7.9200e-004
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.10	0.48
tblVehicleEF	MDV	0.19	0.40
tblVehicleEF	MH	0.02	2.9970e-003
tblVehicleEF	MH	0.02	0.00

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tblVehicleEF	MH	1,125.05	953.67
tblVehicleEF	MH	59.88	0.00
tblVehicleEF	MH	1.00	3.27
tblVehicleEF	MH	0.75	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	1.0430e-003	0.00
tblVehicleEF	MH	3.2050e-003	4.0000e-003
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	9.5900e-004	0.00
tblVehicleEF	MH	0.84	0.00
tblVehicleEF	MH	0.06	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.30	0.00
tblVehicleEF	MH	0.01	9.0160e-003
tblVehicleEF	MH	6.9000e-004	0.00
tblVehicleEF	MH	0.84	0.00
tblVehicleEF	MH	0.06	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	0.02	2.9970e-003

tblVehicleEF	MH	0.02	0.00
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tblVehicleEF	MH	4.92	0.00
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tblVehicleEF	MH	59.88	0.00
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tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	1.0430e-003	0.00
tblVehicleEF	MH	3.2050e-003	4.0000e-003
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	9.5900e-004	0.00
tblVehicleEF	MH	1.24	0.00
tblVehicleEF	MH	0.06	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.29	0.00
tblVehicleEF	MH	0.01	9.0160e-003
tblVehicleEF	MH	6.8400e-004	0.00
tblVehicleEF	MH	1.24	0.00
tblVehicleEF	MH	0.06	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.31	0.00

tblVehicleEF	MH	0.02	2.9970e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	1.75	0.25
tblVehicleEF	MH	5.28	0.00
tblVehicleEF	MH	1,125.05	953.67
tblVehicleEF	MH	59.88	0.00
tblVehicleEF	MH	0.98	3.21
tblVehicleEF	MH	0.75	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	1.0430e-003	0.00
tblVehicleEF	MH	3.2050e-003	4.0000e-003
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	9.5900e-004	0.00
tblVehicleEF	MH	0.95	0.00
tblVehicleEF	MH	0.07	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.30	0.00
tblVehicleEF	MH	0.01	9.0160e-003
tblVehicleEF	MH	6.9000e-004	0.00
tblVehicleEF	MH	0.95	0.00
tblVehicleEF	MH	0.07	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.00

tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MHD	0.02	4.4300e-003
tblVehicleEF	MHD	3.8910e-003	2.0980e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.36	0.40
tblVehicleEF	MHD	0.32	0.28
tblVehicleEF	MHD	5.63	1.37
tblVehicleEF	MHD	130.55	64.65
tblVehicleEF	MHD	1,141.08	1,030.64
tblVehicleEF	MHD	62.84	12.06
tblVehicleEF	MHD	0.35	0.35
tblVehicleEF	MHD	0.76	1.08
tblVehicleEF	MHD	9.98	1.58
tblVehicleEF	MHD	1.0200e-004	3.2600e-004
tblVehicleEF	MHD	2.8420e-003	6.1300e-003
tblVehicleEF	MHD	8.1400e-004	1.3500e-004
tblVehicleEF	MHD	9.7000e-005	3.1200e-004
tblVehicleEF	MHD	2.7140e-003	5.8580e-003
tblVehicleEF	MHD	7.4900e-004	1.2400e-004
tblVehicleEF	MHD	1.0540e-003	6.2300e-004
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	7.0500e-004	4.1000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.34	0.06
tblVehicleEF	MHD	1.2580e-003	6.1500e-004

tblVehicleEF	MHD	0.01	9.8540e-003
tblVehicleEF	MHD	7.2700e-004	1.1900e-004
tblVehicleEF	MHD	1.0540e-003	6.2300e-004
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.0500e-004	4.1000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.38	0.07
tblVehicleEF	MHD	0.01	4.2040e-003
tblVehicleEF	MHD	3.9490e-003	2.1410e-003
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.26	0.34
tblVehicleEF	MHD	0.32	0.28
tblVehicleEF	MHD	5.34	1.31
tblVehicleEF	MHD	138.27	64.73
tblVehicleEF	MHD	1,141.08	1,030.65
tblVehicleEF	MHD	62.84	11.94
tblVehicleEF	MHD	0.36	0.34
tblVehicleEF	MHD	0.71	1.02
tblVehicleEF	MHD	9.94	1.58
tblVehicleEF	MHD	8.6000e-005	2.7800e-004
tblVehicleEF	MHD	2.8420e-003	6.1300e-003
tblVehicleEF	MHD	8.1400e-004	1.3500e-004
tblVehicleEF	MHD	8.2000e-005	2.6600e-004
tblVehicleEF	MHD	2.7140e-003	5.8580e-003
tblVehicleEF	MHD	7.4900e-004	1.2400e-004

tblVehicleEF	MHD	1.5770e-003	9.2500e-004
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tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	9.9000e-004	5.7300e-004
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tblVehicleEF	MHD	0.02	0.13
tblVehicleEF	MHD	0.33	0.06
tblVehicleEF	MHD	1.3310e-003	6.1500e-004
tblVehicleEF	MHD	0.01	9.8540e-003
tblVehicleEF	MHD	7.2200e-004	1.1800e-004
tblVehicleEF	MHD	1.5770e-003	9.2500e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	9.9000e-004	5.7300e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.13
tblVehicleEF	MHD	0.36	0.07
tblVehicleEF	MHD	0.02	4.7560e-003
tblVehicleEF	MHD	3.8750e-003	2.0850e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.50	0.49
tblVehicleEF	MHD	0.32	0.28
tblVehicleEF	MHD	5.68	1.39
tblVehicleEF	MHD	119.87	64.55
tblVehicleEF	MHD	1,141.08	1,030.64
tblVehicleEF	MHD	62.84	12.08
tblVehicleEF	MHD	0.33	0.36

tblVehicleEF	MHD	0.74	1.06
tblVehicleEF	MHD	9.99	1.58
tblVehicleEF	MHD	1.2400e-004	3.9300e-004
tblVehicleEF	MHD	2.8420e-003	6.1300e-003
tblVehicleEF	MHD	8.1400e-004	1.3500e-004
tblVehicleEF	MHD	1.1800e-004	3.7600e-004
tblVehicleEF	MHD	2.7140e-003	5.8580e-003
tblVehicleEF	MHD	7.4900e-004	1.2400e-004
tblVehicleEF	MHD	1.0750e-003	6.3800e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.8500e-004	4.0000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.15
tblVehicleEF	MHD	0.35	0.06
tblVehicleEF	MHD	1.1580e-003	6.1300e-004
tblVehicleEF	MHD	0.01	9.8540e-003
tblVehicleEF	MHD	7.2800e-004	1.2000e-004
tblVehicleEF	MHD	1.0750e-003	6.3800e-004
tblVehicleEF	MHD	0.05	0.03
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tblVehicleEF	MHD	6.8500e-004	4.0000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.15
tblVehicleEF	MHD	0.38	0.07
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tblVehicleEF	OBUS	6.0280e-003	4.9410e-003

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tblVehicleEF	OBUS	0.45	0.61
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tblVehicleEF	OBUS	1,246.68	1,355.70
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tblVehicleEF	OBUS	2.52	0.84
tblVehicleEF	OBUS	2.0000e-005	1.1800e-004
tblVehicleEF	OBUS	2.6330e-003	7.0870e-003
tblVehicleEF	OBUS	8.2900e-004	2.0000e-004
tblVehicleEF	OBUS	1.9000e-005	1.1300e-004
tblVehicleEF	OBUS	2.5030e-003	6.7660e-003
tblVehicleEF	OBUS	7.6200e-004	1.8400e-004
tblVehicleEF	OBUS	1.4160e-003	1.8400e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	7.6700e-004	9.5000e-004
tblVehicleEF	OBUS	0.04	0.03
tblVehicleEF	OBUS	0.04	0.27
tblVehicleEF	OBUS	0.32	0.11
tblVehicleEF	OBUS	9.8300e-004	8.5800e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.6900e-004	1.8800e-004
tblVehicleEF	OBUS	1.4160e-003	1.8400e-003

tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	7.6700e-004	9.5000e-004
tblVehicleEF	OBUS	0.05	0.04
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tblVehicleEF	OBUS	0.35	0.12
tblVehicleEF	OBUS	0.01	8.4020e-003
tblVehicleEF	OBUS	6.1370e-003	5.0480e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.24	0.61
tblVehicleEF	OBUS	0.45	0.63
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tblVehicleEF	OBUS	106.89	89.14
tblVehicleEF	OBUS	1,246.68	1,355.72
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tblVehicleEF	OBUS	0.64	1.09
tblVehicleEF	OBUS	2.49	0.83
tblVehicleEF	OBUS	1.7000e-005	1.0500e-004
tblVehicleEF	OBUS	2.6330e-003	7.0870e-003
tblVehicleEF	OBUS	8.2900e-004	2.0000e-004
tblVehicleEF	OBUS	1.6000e-005	1.0000e-004
tblVehicleEF	OBUS	2.5030e-003	6.7660e-003
tblVehicleEF	OBUS	7.6200e-004	1.8400e-004
tblVehicleEF	OBUS	2.0710e-003	2.6500e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05

tblVehicleEF	OBUS	1.0770e-003	1.3150e-003
tblVehicleEF	OBUS	0.04	0.03
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.31	0.11
tblVehicleEF	OBUS	1.0320e-003	8.4800e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.6400e-004	1.8600e-004
tblVehicleEF	OBUS	2.0710e-003	2.6500e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.0770e-003	1.3150e-003
tblVehicleEF	OBUS	0.05	0.04
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tblVehicleEF	OBUS	0.34	0.12
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tblVehicleEF	OBUS	5.9990e-003	4.9100e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.62
tblVehicleEF	OBUS	0.45	0.61
tblVehicleEF	OBUS	5.23	2.37
tblVehicleEF	OBUS	94.83	91.59
tblVehicleEF	OBUS	1,246.68	1,355.70
tblVehicleEF	OBUS	67.80	19.07
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tblVehicleEF	OBUS	0.68	1.14
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tblVehicleEF	OBUS	2.6330e-003	7.0870e-003
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tblVehicleEF	OBUS	2.3000e-005	1.3000e-004
tblVehicleEF	OBUS	2.5030e-003	6.7660e-003
tblVehicleEF	OBUS	7.6200e-004	1.8400e-004
tblVehicleEF	OBUS	1.4400e-003	1.9120e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	7.4400e-004	9.3100e-004
tblVehicleEF	OBUS	0.04	0.03
tblVehicleEF	OBUS	0.04	0.29
tblVehicleEF	OBUS	0.33	0.11
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tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.7000e-004	1.8900e-004
tblVehicleEF	OBUS	1.4400e-003	1.9120e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	7.4400e-004	9.3100e-004
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tblVehicleEF	SBUS	0.02	0.03
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tblVehicleEF	SBUS	0.03	8.9740e-003

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tblVehicleEF	SBUS	0.84	0.08
tblVehicleEF	SBUS	0.01	6.7850e-003
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tblVehicleEF	SBUS	0.02	0.03
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tblVehicleEF	SBUS	6.5460e-003	2.9000e-003
tblVehicleEF	SBUS	2.6580e-003	2.6530e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	7.8400e-004	5.5000e-005
tblVehicleEF	SBUS	4.9610e-003	1.4870e-003
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tblVehicleEF	SBUS	0.02	0.03
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tblVehicleEF	SBUS	3.3940e-003	1.0330e-003
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tblVehicleEF	UBUS	0.05	0.01

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tblVehicleEF	UBUS	3.0000e-003	7.9690e-003
tblVehicleEF	UBUS	0.12	3.0640e-003
tblVehicleEF	UBUS	1.0450e-003	5.2000e-005
tblVehicleEF	UBUS	4.1100e-003	5.9300e-004
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tblVehicleEF	UBUS	2.4100e-003	4.3400e-004
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tblVehicleEF	UBUS	0.02	0.05
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tblVehicleEF	UBUS	9.8060e-003	1.4050e-003
tblVehicleEF	UBUS	1.1630e-003	8.3000e-005
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tblVehicleEF	UBUS	3.32	5.97
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tblVehicleEF	UBUS	2.44	5.85
tblVehicleEF	UBUS	0.05	9.9370e-003
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tblVehicleEF	UBUS	1,951.45	1,987.99
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tblVehicleEF	UBUS	15.04	0.08
tblVehicleEF	UBUS	0.60	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.12	3.2070e-003
tblVehicleEF	UBUS	1.1360e-003	5.7000e-005
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tblVehicleEF	UBUS	3.0000e-003	7.9690e-003
tblVehicleEF	UBUS	0.12	3.0640e-003
tblVehicleEF	UBUS	1.0450e-003	5.2000e-005
tblVehicleEF	UBUS	5.8640e-003	8.6100e-004
tblVehicleEF	UBUS	0.07	7.6580e-003
tblVehicleEF	UBUS	3.3120e-003	6.0000e-004
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tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	0.63	0.04
tblVehicleEF	UBUS	9.8070e-003	1.4050e-003
tblVehicleEF	UBUS	1.1430e-003	8.2000e-005
tblVehicleEF	UBUS	5.8640e-003	8.6100e-004
tblVehicleEF	UBUS	0.07	7.6580e-003

tblVehicleEF	UBUS	3.3120e-003	6.0000e-004
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tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	0.69	0.05
tblVehicleEF	UBUS	2.44	5.85
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	10.66	45.42
tblVehicleEF	UBUS	9.05	0.73
tblVehicleEF	UBUS	1,951.45	1,987.99
tblVehicleEF	UBUS	100.38	8.45
tblVehicleEF	UBUS	9.15	0.47
tblVehicleEF	UBUS	15.10	0.08
tblVehicleEF	UBUS	0.60	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.12	3.2070e-003
tblVehicleEF	UBUS	1.1360e-003	5.7000e-005
tblVehicleEF	UBUS	0.26	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9690e-003
tblVehicleEF	UBUS	0.12	3.0640e-003
tblVehicleEF	UBUS	1.0450e-003	5.2000e-005
tblVehicleEF	UBUS	4.6290e-003	5.8300e-004
tblVehicleEF	UBUS	0.08	7.9410e-003
tblVehicleEF	UBUS	2.5090e-003	4.1300e-004
tblVehicleEF	UBUS	0.79	0.09
tblVehicleEF	UBUS	0.03	0.06
tblVehicleEF	UBUS	0.70	0.05
tblVehicleEF	UBUS	9.8060e-003	1.4050e-003

tblVehicleEF	UBUS	1.1670e-003	8.4000e-005
tblVehicleEF	UBUS	4.6290e-003	5.8300e-004
tblVehicleEF	UBUS	0.08	7.9410e-003
tblVehicleEF	UBUS	2.5090e-003	4.1300e-004
tblVehicleEF	UBUS	3.31	5.97
tblVehicleEF	UBUS	0.03	0.06
tblVehicleEF	UBUS	0.76	0.05
tblVehicleTrips	ST_TR	6.39	4.52
tblVehicleTrips	ST_TR	696.00	293.13
tblVehicleTrips	ST_TR	177.59	163.41
tblVehicleTrips	SU_TR	5.86	3.76
tblVehicleTrips	SU_TR	500.00	388.07
tblVehicleTrips	SU_TR	166.44	153.15
tblVehicleTrips	WD_TR	6.65	5.00
tblVehicleTrips	WD_TR	716.00	289.96
tblVehicleTrips	WD_TR	102.24	98.24
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	6.90	0.00
tblWoodstoves	NumberNoncatalytic	6.90	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	2.9932	23.0499	20.8031	0.0497	5.9146	1.1610	6.7383	2.9848	1.0842	3.7427	0.0000	4,823.8835	4,823.8835	0.6425	0.0000	4,836.3236
2021	25.0560	17.9366	19.8865	0.0490	2.0381	0.7068	2.7449	0.5462	0.6818	1.2279	0.0000	4,759.4693	4,759.4693	0.4751	0.0000	4,771.3458
Maximum	25.0560	23.0499	20.8031	0.0497	5.9146	1.1610	6.7383	2.9848	1.0842	3.7427	0.0000	4,823.8835	4,823.8835	0.6425	0.0000	4,836.3236

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	1.3637	14.7201	21.0935	0.0497	2.2551	0.1965	2.2860	1.1233	0.1945	1.1540	0.0000	4,823.8835	4,823.8835	0.6425	0.0000	4,836.3236
2021	24.8915	14.2930	20.4657	0.0490	1.8822	0.1842	2.0663	0.5079	0.1827	0.6906	0.0000	4,759.4693	4,759.4693	0.4751	0.0000	4,771.3458
Maximum	24.8915	14.7201	21.0935	0.0497	2.2551	0.1965	2.2860	1.1233	0.1945	1.1540	0.0000	4,823.8835	4,823.8835	0.6425	0.0000	4,836.3236

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	6.40	29.21	-2.14	0.00	47.98	79.62	54.11	53.80	78.64	62.89	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational
Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.0507	0.1314	11.4031	6.0000e-004		0.0631	0.0631		0.0631	0.0631	0.0000	20.5331	20.5331	0.0198	0.0000	21.0281
Energy	0.0833	0.7271	0.4173	4.5400e-003		0.0575	0.0575		0.0575	0.0575		908.2358	908.2358	0.0174	0.0167	913.6330
Mobile	11.0841	13.7362	77.5368	0.1866	18.4297	0.1507	18.5804	4.9148	0.1402	5.0550		19,348.4952	19,348.4952	1.4154		19,383.8793
Total	15.2180	14.5946	89.3572	0.1917	18.4297	0.2713	18.7010	4.9148	0.2608	5.1756	0.0000	20,277.2641	20,277.2641	1.4526	0.0167	20,318.5404

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.0507	0.1314	11.4031	6.0000e-004		0.0631	0.0631		0.0631	0.0631	0.0000	20.5331	20.5331	0.0198	0.0000	21.0281
Energy	0.0719	0.6286	0.3650	3.9200e-003		0.0497	0.0497		0.0497	0.0497		784.4908	784.4908	0.0150	0.0144	789.1526
Mobile	11.0841	13.7362	77.5368	0.1866	18.4297	0.1507	18.5804	4.9148	0.1402	5.0550		19,348.4952	19,348.4952	1.4154		19,383.8793
Total	15.2067	14.4962	89.3049	0.1911	18.4297	0.2635	18.6932	4.9148	0.2530	5.1678	0.0000	20,153.5191	20,153.5191	1.4502	0.0144	20,194.0600

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.07	0.67	0.06	0.32	0.00	2.89	0.04	0.00	3.01	0.15	0.00	0.61	0.61	0.16	13.63	0.61

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	7/18/2020	8/14/2020	5	20	
2	Site Preparation	Site Preparation	8/15/2020	8/18/2020	5	2	
3	Grading	Grading	8/19/2020	8/24/2020	5	4	
4	Building Construction	Building Construction	8/25/2020	5/31/2021	5	200	
5	Paving	Paving	6/1/2021	6/14/2021	5	10	
6	Architectural Coating	Architectural Coating	6/15/2021	6/28/2021	5	10	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 1.01

Residential Indoor: 316,963; Residential Outdoor: 105,654; Non-Residential Indoor: 37,500; Non-Residential Outdoor: 12,500; Striped

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	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37

Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
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	5	13.00	4.00	112.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	160.00	39.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	32.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.2133	0.0000	1.2133	0.1837	0.0000	0.1837			0.0000			0.0000
Off-Road	2.1262	20.9463	14.6573	0.0241		1.1525	1.1525		1.0761	1.0761		2,322.3127	2,322.3127	0.5970		2,337.2363
Total	2.1262	20.9463	14.6573	0.0241	1.2133	1.1525	2.3658	0.1837	1.0761	1.2599		2,322.3127	2,322.3127	0.5970		2,337.2363

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0501	1.6311	0.3792	4.3500e-003	0.0979	5.2200e-003	0.1031	0.0268	4.9900e-003	0.0318		471.0127	471.0127	0.0338		471.8579
Vendor	0.0149	0.4254	0.1230	1.0100e-003	0.0256	2.0300e-003	0.0276	7.3700e-003	1.9500e-003	9.3200e-003		107.7796	107.7796	7.2100e-003		107.9598
Worker	0.0664	0.0471	0.5213	1.4500e-003	0.1453	1.2100e-003	0.1465	0.0385	1.1200e-003	0.0397		143.9647	143.9647	4.5400e-003		144.0781
Total	0.1314	2.1036	1.0235	6.8100e-003	0.2688	8.4600e-003	0.2773	0.0728	8.0600e-003	0.0808		722.7570	722.7570	0.0456		723.8958

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.4495	0.0000	0.4495	0.0681	0.0000	0.0681			0.0000			0.0000
Off-Road	0.4630	8.5434	15.4154	0.0241		0.0375	0.0375		0.0375	0.0375	0.0000	2,322.3127	2,322.3127	0.5970		2,337.2363
Total	0.4630	8.5434	15.4154	0.0241	0.4495	0.0375	0.4870	0.0681	0.0375	0.1055	0.0000	2,322.3127	2,322.3127	0.5970		2,337.2363

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0501	1.6311	0.3792	4.3500e-003	0.0913	5.2200e-003	0.0965	0.0252	4.9900e-003	0.0302		471.0127	471.0127	0.0338		471.8579
Vendor	0.0149	0.4254	0.1230	1.0100e-003	0.0240	2.0300e-003	0.0260	6.9700e-003	1.9500e-003	8.9200e-003		107.7796	107.7796	7.2100e-003		107.9598
Worker	0.0664	0.0471	0.5213	1.4500e-003	0.1339	1.2100e-003	0.1352	0.0358	1.1200e-003	0.0369		143.9647	143.9647	4.5400e-003		144.0781
Total	0.1314	2.1036	1.0235	6.8100e-003	0.2492	8.4600e-003	0.2576	0.0679	8.0600e-003	0.0760		722.7570	722.7570	0.0456		723.8958

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.7996	0.0000	5.7996	2.9537	0.0000	2.9537			0.0000			0.0000
Off-Road	1.6299	18.3464	7.7093	0.0172		0.8210	0.8210		0.7553	0.7553		1,667.4119	1,667.4119	0.5393		1,680.8937
Total	1.6299	18.3464	7.7093	0.0172	5.7996	0.8210	6.6205	2.9537	0.7553	3.7090		1,667.4119	1,667.4119	0.5393		1,680.8937

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0149	0.4254	0.1230	1.0100e-003	0.0256	2.0300e-003	0.0276	7.3700e-003	1.9500e-003	9.3200e-003		107.7796	107.7796	7.2100e-003		107.9598
Worker	0.0409	0.0290	0.3208	8.9000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		88.5936	88.5936	2.7900e-003		88.6634
Total	0.0558	0.4544	0.4438	1.9000e-003	0.1150	2.7800e-003	0.1178	0.0311	2.6400e-003	0.0337		196.3733	196.3733	0.0100		196.6232

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.1487	0.0000	2.1487	1.0944	0.0000	1.0944			0.0000			0.0000
Off-Road	0.2998	5.0659	9.8221	0.0172		0.0281	0.0281		0.0281	0.0281	0.0000	1,667.4119	1,667.4119	0.5393		1,680.8937
Total	0.2998	5.0659	9.8221	0.0172	2.1487	0.0281	2.1768	1.0944	0.0281	1.1224	0.0000	1,667.4119	1,667.4119	0.5393		1,680.8937

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0149	0.4254	0.1230	1.0100e-003	0.0240	2.0300e-003	0.0260	6.9700e-003	1.9500e-003	8.9200e-003		107.7796	107.7796	7.2100e-003		107.9598
Worker	0.0409	0.0290	0.3208	8.9000e-004	0.0824	7.5000e-004	0.0832	0.0220	6.9000e-004	0.0227		88.5936	88.5936	2.7900e-003		88.6634
Total	0.0558	0.4544	0.4438	1.9000e-003	0.1064	2.7800e-003	0.1092	0.0290	2.6400e-003	0.0316		196.3733	196.3733	0.0100		196.6232

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9143	0.0000	4.9143	2.5256	0.0000	2.5256			0.0000			0.0000
Off-Road	1.3498	15.0854	6.4543	0.0141		0.6844	0.6844		0.6296	0.6296		1,365.7183	1,365.7183	0.4417		1,376.7609
Total	1.3498	15.0854	6.4543	0.0141	4.9143	0.6844	5.5986	2.5256	0.6296	3.1552		1,365.7183	1,365.7183	0.4417		1,376.7609

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0149	0.4254	0.1230	1.0100e-003	0.0256	2.0300e-003	0.0276	7.3700e-003	1.9500e-003	9.3200e-003		107.7796	107.7796	7.2100e-003		107.9598
Worker	0.0409	0.0290	0.3208	8.9000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		88.5936	88.5936	2.7900e-003		88.6634
Total	0.0558	0.4544	0.4438	1.9000e-003	0.1150	2.7800e-003	0.1178	0.0311	2.6400e-003	0.0337		196.3733	196.3733	0.0100		196.6232

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.8207	0.0000	1.8207	0.9357	0.0000	0.9357			0.0000			0.0000
Off-Road	0.2466	4.1795	8.0841	0.0141		0.0230	0.0230		0.0230	0.0230	0.0000	1,365.7183	1,365.7183	0.4417		1,376.7609
Total	0.2466	4.1795	8.0841	0.0141	1.8207	0.0230	1.8437	0.9357	0.0230	0.9587	0.0000	1,365.7183	1,365.7183	0.4417		1,376.7609

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0149	0.4254	0.1230	1.0100e-003	0.0240	2.0300e-003	0.0260	6.9700e-003	1.9500e-003	8.9200e-003		107.7796	107.7796	7.2100e-003		107.9598
Worker	0.0409	0.0290	0.3208	8.9000e-004	0.0824	7.5000e-004	0.0832	0.0220	6.9000e-004	0.0227		88.5936	88.5936	2.7900e-003		88.6634
Total	0.0558	0.4544	0.4438	1.9000e-003	0.1064	2.7800e-003	0.1092	0.0290	2.6400e-003	0.0316		196.3733	196.3733	0.0100		196.6232

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0305	14.7882	13.1881	0.0220		0.7960	0.7960		0.7688	0.7688		2,001.1595	2,001.1595	0.3715		2,010.4467
Total	2.0305	14.7882	13.1881	0.0220		0.7960	0.7960		0.7688	0.7688		2,001.1595	2,001.1595	0.3715		2,010.4467

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1450	4.1477	1.1988	9.8400e-003	0.2497	0.0198	0.2695	0.0719	0.0190	0.0909		1,050.8514	1,050.8514	0.0703		1,052.6081
Worker	0.8176	0.5800	6.4162	0.0178	1.7884	0.0150	1.8034	0.4743	0.0138	0.4881		1,771.8726	1,771.8726	0.0559		1,773.2688
Total	0.9627	4.7276	7.6150	0.0276	2.0381	0.0348	2.0729	0.5462	0.0327	0.5789		2,822.7240	2,822.7240	0.1261		2,825.8769

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4010	9.9925	13.4786	0.0220		0.1617	0.1617		0.1617	0.1617	0.0000	2,001.1595	2,001.1595	0.3715		2,010.4467
Total	0.4010	9.9925	13.4786	0.0220		0.1617	0.1617		0.1617	0.1617	0.0000	2,001.1595	2,001.1595	0.3715		2,010.4467

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1450	4.1477	1.1988	9.8400e-003	0.2337	0.0198	0.2535	0.0680	0.0190	0.0869		1,050.8514	1,050.8514	0.0703		1,052.6081
Worker	0.8176	0.5800	6.4162	0.0178	1.6485	0.0150	1.6634	0.4400	0.0138	0.4537		1,771.8726	1,771.8726	0.0559		1,773.2688
Total	0.9627	4.7276	7.6150	0.0276	1.8822	0.0348	1.9169	0.5079	0.0327	0.5407		2,822.7240	2,822.7240	0.1261		2,825.8769

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	lb/day										lb/day					
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.2200	2,001.2200	0.3573		2,010.1517
Total	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.2200	2,001.2200	0.3573		2,010.1517

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1245	3.7787	1.0950	9.7600e-003	0.2497	7.9900e-003	0.2577	0.0719	7.6400e-003	0.0795		1,042.6476	1,042.6476	0.0673		1,044.3303
Worker	0.7629	0.5218	5.8921	0.0172	1.7884	0.0145	1.8029	0.4743	0.0133	0.4876		1,715.6018	1,715.6018	0.0505		1,716.8638
Total	0.8874	4.3005	6.9871	0.0270	2.0381	0.0224	2.0605	0.5462	0.0210	0.5671		2,758.2493	2,758.2493	0.1178		2,761.1941

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4010	9.9925	13.4786	0.0221		0.1617	0.1617		0.1617	0.1617	0.0000	2,001.2200	2,001.2200	0.3573		2,010.1517
Total	0.4010	9.9925	13.4786	0.0221		0.1617	0.1617		0.1617	0.1617	0.0000	2,001.2200	2,001.2200	0.3573		2,010.1517

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1245	3.7787	1.0950	9.7600e-003	0.2337	7.9900e-003	0.2417	0.0680	7.6400e-003	0.0756		1,042.6476	1,042.6476	0.0673		1,044.3303
Worker	0.7629	0.5218	5.8921	0.0172	1.6485	0.0145	1.6629	0.4400	0.0133	0.4533		1,715.6018	1,715.6018	0.0505		1,716.8638
Total	0.8874	4.3005	6.9871	0.0270	1.8822	0.0224	1.9046	0.5079	0.0210	0.5289		2,758.2493	2,758.2493	0.1178		2,761.1941

3.6 Paving - 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	lb/day										lb/day					
Off-Road	0.7739	7.7422	8.8569	0.0135		0.4153	0.4153		0.3830	0.3830		1,296.8664	1,296.8664	0.4111		1,307.1442
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7739	7.7422	8.8569	0.0135		0.4153	0.4153		0.3830	0.3830		1,296.8664	1,296.8664	0.4111		1,307.1442

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0620	0.0424	0.4787	1.4000e-003	0.1453	1.1700e-003	0.1465	0.0385	1.0800e-003	0.0396		139.3926	139.3926	4.1000e-003		139.4952
Total	0.0620	0.0424	0.4787	1.4000e-003	0.1453	1.1700e-003	0.1465	0.0385	1.0800e-003	0.0396		139.3926	139.3926	4.1000e-003		139.4952

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2149	5.7133	9.8512	0.0135		0.0213	0.0213		0.0213	0.0213	0.0000	1,296.8664	1,296.8664	0.4111		1,307.1442
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.2149	5.7133	9.8512	0.0135		0.0213	0.0213		0.0213	0.0213	0.0000	1,296.8664	1,296.8664	0.4111		1,307.1442

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0620	0.0424	0.4787	1.4000e-003	0.1339	1.1700e-003	0.1351	0.0358	1.0800e-003	0.0368		139.3926	139.3926	4.1000e-003		139.4952
Total	0.0620	0.0424	0.4787	1.4000e-003	0.1339	1.1700e-003	0.1351	0.0358	1.0800e-003	0.0368		139.3926	139.3926	4.1000e-003		139.4952

3.7 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	lb/day										lb/day					
Archit. Coating	24.6845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	24.9034	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1526	0.1044	1.1784	3.4400e-003	0.3577	2.8900e-003	0.3606	0.0949	2.6600e-003	0.0975		343.1204	343.1204	0.0101		343.3728
Total	0.1526	0.1044	1.1784	3.4400e-003	0.3577	2.8900e-003	0.3606	0.0949	2.6600e-003	0.0975		343.1204	343.1204	0.0101		343.3728

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	24.6845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0545	1.0598	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0193		281.9309
Total	24.7390	1.0598	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0193		281.9309

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1526	0.1044	1.1784	3.4400e-003	0.3297	2.8900e-003	0.3326	0.0880	2.6600e-003	0.0907		343.1204	343.1204	0.0101		343.3728
Total	0.1526	0.1044	1.1784	3.4400e-003	0.3297	2.8900e-003	0.3326	0.0880	2.6600e-003	0.0907		343.1204	343.1204	0.0101		343.3728

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	lb/day										lb/day					
Mitigated	11.0841	13.7362	77.5368	0.1866	18.4297	0.1507	18.5804	4.9148	0.1402	5.0550		19,348.49	19,348.495	1.4154		19,383.87
												52	2			93
Unmitigated	11.0841	13.7362	77.5368	0.1866	18.4297	0.1507	18.5804	4.9148	0.1402	5.0550		19,348.49	19,348.495	1.4154		19,383.87
												52	2			93

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	690.00	623.76	518.88	2,241,964	2,241,964
Fast Food Restaurant w/o Drive Thru	579.92	586.26	776.14	1,102,667	1,102,667
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Supermarket	2,259.52	3,758.43	3522.45	3,501,966	3,501,966
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	3,529.44	4,968.45	4,817.47	6,846,597	6,846,597

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Fast Food Restaurant w/o Drive	16.60	8.40	6.90	1.50	79.50	19.00	51	37	12
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Supermarket	16.60	8.40	6.90	6.50	74.50	19.00	34	30	36
Unenclosed Parking with	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.577488	0.047363	0.217190	0.126235	0.016240	0.000946	0.003108	0.005000	0.000387	0.000324	0.005485	0.000105	0.000131
Fast Food Restaurant w/o Drive Thru	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Other Non-Asphalt Surfaces	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Supermarket	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Unenclosed Parking with Elevator	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
NaturalGas Mitigated	0.0719	0.6286	0.3650	3.9200e-003		0.0497	0.0497		0.0497	0.0497			784.4908	784.4908	0.0150	0.0144	789.1526
NaturalGas Unmitigated	0.0833	0.7271	0.4173	4.5400e-003		0.0575	0.0575		0.0575	0.0575			908.2358	908.2358	0.0174	0.0167	913.6330

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas 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	lb/day										lb/day					
Apartments Mid Rise	5064.85	0.0546	0.4668	0.1986	2.9800e-003		0.0377	0.0377		0.0377	0.0377		595.8651	595.8651	0.0114	0.0109	599.4060
Fast Food Restaurant w/o Drive Thru	1264.44	0.0136	0.1240	0.1041	7.4000e-004		9.4200e-003	9.4200e-003		9.4200e-003	9.4200e-003		148.7575	148.7575	2.8500e-003	2.7300e-003	149.6414
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
Supermarket	1390.71	0.0150	0.1363	0.1145	8.2000e-004		0.0104	0.0104		0.0104	0.0104		163.6132	163.6132	3.1400e-003	3.0000e-003	164.5855
Unenclosed Parking with Flowsheet	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
Total		0.0833	0.7271	0.4173	4.5400e-003		0.0575	0.0575		0.0575	0.0575		908.2358	908.2358	0.0174	0.0167	913.6330

Mitigated

	NaturalGas 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	lb/day										lb/day					
Apartments Mid Rise	4.2695	0.0460	0.3935	0.1674	2.5100e-003		0.0318	0.0318		0.0318	0.0318		502.2942	502.2942	9.6300e-003	9.2100e-003	505.2790
Fast Food Restaurant w/o Drive Thru	1.19379	0.0129	0.1170	0.0983	7.0000e-004		8.8900e-003	8.8900e-003		8.8900e-003	8.8900e-003		140.4455	140.4455	2.6900e-003	2.5700e-003	141.2800
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
Supermarket	1.20488	0.0130	0.1181	0.0992	7.1000e-004		8.9800e-003	8.9800e-003		8.9800e-003	8.9800e-003		141.7512	141.7512	2.7200e-003	2.6000e-003	142.5935
Unenclosed Parking with Flowsheet	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
Total		0.0719	0.6286	0.3650	3.9200e-003		0.0497	0.0497		0.0497	0.0497		784.4908	784.4908	0.0150	0.0144	789.1526

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.0507	0.1314	11.4031	6.0000e-004		0.0631	0.0631		0.0631	0.0631	0.0000	20.5331	20.5331	0.0198	0.0000	21.0281
Unmitigated	4.0507	0.1314	11.4031	6.0000e-004		0.0631	0.0631		0.0631	0.0631	0.0000	20.5331	20.5331	0.0198	0.0000	21.0281

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	lb/day										lb/day					
Architectural Coating	0.0676					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.6386					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	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	0.3445	0.1314	11.4031	6.0000e-004		0.0631	0.0631		0.0631	0.0631		20.5331	20.5331	0.0198		21.0281
Total	4.0507	0.1314	11.4031	6.0000e-004		0.0631	0.0631		0.0631	0.0631	0.0000	20.5331	20.5331	0.0198	0.0000	21.0281

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0676					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.6386					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	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	0.3445	0.1314	11.4031	6.0000e-004		0.0631	0.0631		0.0631	0.0631		20.5331	20.5331	0.0198		21.0281
Total	4.0507	0.1314	11.4031	6.0000e-004		0.0631	0.0631		0.0631	0.0631	0.0000	20.5331	20.5331	0.0198	0.0000	21.0281

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

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

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

Equipment Type	Number
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11.0 Vegetation

**Proposed Project
Los Angeles-South Coast County, Mitigation Report**

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.01	0.29	-0.00	0.00	0.94	0.94	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.55	0.22	-0.02	0.00	0.75	0.75	0.00	0.00	0.00	0.00	0.00	0.00
Demolition	0.74	0.54	-0.05	0.00	0.96	0.96	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.79	0.70	-0.24	0.00	0.96	0.96	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.67	0.26	-0.11	0.00	0.94	0.94	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.79	0.71	-0.26	0.00	0.96	0.96	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	Tier 4 Interim	1	1	No Change	0.00
Cement and Mortar Mixers	Diesel	Tier 4 Interim	1	1	No Change	0.00
Concrete/Industrial Saws	Diesel	Tier 4 Interim	1	1	No Change	0.00
Cranes	Diesel	Tier 4 Interim	1	1	No Change	0.00
Forklifts	Diesel	Tier 4 Interim	1	1	No Change	0.00
Generator Sets	Diesel	Tier 4 Interim	1	1	No Change	0.00
Graders	Diesel	Tier 4 Interim	2	2	No Change	0.00
Pavers	Diesel	Tier 4 Interim	1	1	No Change	0.00
Paving Equipment	Diesel	Tier 4 Interim	1	1	No Change	0.00

Rollers	Diesel	Tier 4 Interim	1	1	No Change	0.00
Rubber Tired Dozers	Diesel	Tier 4 Interim	3	3	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	7	7	No Change	0.00
Welders	Diesel	Tier 4 Interim	3	3	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr						Unmitigated mt/yr						
Air Compressors	1.09000E-003	7.63000E-003	9.09000E-003	1.00000E-005	4.70000E-004	4.70000E-004	0.00000E+000	1.27663E+000	1.27663E+000	9.00000E-005	0.00000E+000	1.27882E+000
Cement and Mortar Mixers	2.20000E-004	1.38000E-003	1.16000E-003	0.00000E+000	5.00000E-005	5.00000E-005	0.00000E+000	1.71850E-001	1.71850E-001	2.00000E-005	0.00000E+000	1.72300E-001
Concrete/Industrial Saws	4.18000E-003	3.29900E-002	3.68700E-002	6.00000E-005	1.98000E-003	1.98000E-003	0.00000E+000	5.37656E+000	5.37656E+000	3.40000E-004	0.00000E+000	5.38508E+000
Cranes	3.23800E-002	3.82610E-001	1.53340E-001	4.30000E-004	1.56500E-002	1.44000E-002	0.00000E+000	3.80176E+001	3.80176E+001	1.23000E-002	0.00000E+000	3.83250E+001
Forklifts	1.02100E-002	9.25600E-002	8.80200E-002	1.10000E-004	6.73000E-003	6.19000E-003	0.00000E+000	1.00719E+001	1.00719E+001	3.26000E-003	0.00000E+000	1.01533E+001
Generator Sets	3.76800E-002	3.31140E-001	3.69440E-001	6.60000E-004	1.81000E-002	1.81000E-002	0.00000E+000	5.65208E+001	5.65208E+001	3.02000E-003	0.00000E+000	5.65963E+001
Graders	1.19000E-003	1.58100E-002	4.54000E-003	2.00000E-005	5.10000E-004	4.70000E-004	0.00000E+000	1.45766E+000	1.45766E+000	4.70000E-004	0.00000E+000	1.46945E+000
Pavers	9.20000E-004	9.73000E-003	1.08900E-002	2.00000E-005	4.70000E-004	4.30000E-004	0.00000E+000	1.54809E+000	1.54809E+000	5.00000E-004	0.00000E+000	1.56061E+000
Paving Equipment	9.60000E-004	9.70000E-003	1.27100E-002	2.00000E-005	4.80000E-004	4.40000E-004	0.00000E+000	1.78922E+000	1.78922E+000	5.80000E-004	0.00000E+000	1.80369E+000
Rollers	8.30000E-004	8.42000E-003	8.23000E-003	1.00000E-005	5.10000E-004	4.70000E-004	0.00000E+000	1.00846E+000	1.00846E+000	3.30000E-004	0.00000E+000	1.01662E+000
Rubber Tired Dozers	1.33600E-002	1.40240E-001	5.11300E-002	1.10000E-004	6.87000E-003	6.32000E-003	0.00000E+000	9.28809E+000	9.28809E+000	3.00000E-003	0.00000E+000	9.36319E+000
Tractors/Loaders/Backhoes	2.26200E-002	2.27910E-001	2.56160E-001	3.50000E-004	1.40500E-002	1.29200E-002	0.00000E+000	3.07695E+001	3.07695E+001	9.95000E-003	0.00000E+000	3.10183E+001
Welders	9.63000E-002	4.61380E-001	5.22370E-001	7.70000E-004	2.40200E-002	2.40200E-002	0.00000E+000	5.64662E+001	5.64662E+001	7.81000E-003	0.00000E+000	5.66616E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr						Mitigated mt/yr						
Air Compressors	2.70000E-004	5.30000E-003	9.16000E-003	1.00000E-005	2.00000E-005	2.00000E-005	0.00000E+000	1.27663E+000	1.27663E+000	9.00000E-005	0.00000E+000	1.27882E+000
Cement and Mortar Mixers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.71850E-001	1.71850E-001	2.00000E-005	0.00000E+000	1.72300E-001
Concrete/Industrial Saws	1.15000E-003	2.23200E-002	3.85900E-002	6.00000E-005	8.00000E-005	8.00000E-005	0.00000E+000	5.37656E+000	5.37656E+000	3.40000E-004	0.00000E+000	5.38507E+000
Cranes	7.09000E-003	1.14310E-001	2.30390E-001	4.30000E-004	7.10000E-004	7.10000E-004	0.00000E+000	3.80175E+001	3.80175E+001	1.23000E-002	0.00000E+000	3.83249E+001
Forklifts	2.59000E-003	5.03900E-002	8.71200E-002	1.10000E-004	1.90000E-004	1.90000E-004	0.00000E+000	1.00718E+001	1.00718E+001	3.26000E-003	0.00000E+000	1.01533E+001

Generator Sets	1.20600E-002	2.34610E-001	4.05640E-001	6.60000E-004	8.80000E-004	8.80000E-004	0.00000E+000	5.65207E+001	5.65207E+001	3.02000E-003	0.00000E+000	5.65963E+001
Graders	2.70000E-004	4.36000E-003	8.79000E-003	2.00000E-005	3.00000E-005	3.00000E-005	0.00000E+000	1.45766E+000	1.45766E+000	4.70000E-004	0.00000E+000	1.46945E+000
Pavers	2.20000E-004	7.76000E-003	1.33600E-002	2.00000E-005	3.00000E-005	3.00000E-005	0.00000E+000	1.54809E+000	1.54809E+000	5.00000E-004	0.00000E+000	1.56061E+000
Paving Equipment	2.50000E-004	9.01000E-003	1.55100E-002	2.00000E-005	3.00000E-005	3.00000E-005	0.00000E+000	1.78922E+000	1.78922E+000	5.80000E-004	0.00000E+000	1.80369E+000
Rollers	2.60000E-004	5.02000E-003	8.68000E-003	1.00000E-005	2.00000E-005	2.00000E-005	0.00000E+000	1.00846E+000	1.00846E+000	3.30000E-004	0.00000E+000	1.01661E+000
Rubber Tired Dozers	1.73000E-003	2.78200E-002	5.60700E-002	1.10000E-004	1.70000E-004	1.70000E-004	0.00000E+000	9.28808E+000	9.28808E+000	3.00000E-003	0.00000E+000	9.36317E+000
Tractors/Loaders/Bac khoes	7.85000E-003	1.52730E-001	2.64070E-001	3.50000E-004	5.70000E-004	5.70000E-004	0.00000E+000	3.07695E+001	3.07695E+001	9.95000E-003	0.00000E+000	3.10183E+001
Welders	1.31400E-002	4.98340E-001	4.49050E-001	7.70000E-004	1.40200E-002	1.40200E-002	0.00000E+000	5.64661E+001	5.64661E+001	7.81000E-003	0.00000E+000	5.66615E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	7.52294E-001	3.05374E-001	-7.70077E-003	0.00000E+000	9.57447E-001	9.57447E-001	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Cement and Mortar Mixers	1.00000E+000	1.00000E+000	1.00000E+000	0.00000E+000	1.00000E+000	1.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Concrete/Industrial Saws	7.24880E-001	3.23431E-001	-4.66504E-002	0.00000E+000	9.59596E-001	9.59596E-001	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.85698E-006
Cranes	7.81038E-001	7.01236E-001	-5.02478E-001	0.00000E+000	9.54633E-001	9.50694E-001	0.00000E+000	1.31518E-006	1.31518E-006	0.00000E+000	0.00000E+000	1.30463E-006
Forklifts	7.46327E-001	4.55596E-001	1.02249E-002	0.00000E+000	9.71768E-001	9.69305E-001	0.00000E+000	9.92866E-007	9.92866E-007	0.00000E+000	0.00000E+000	9.84903E-007
Generator Sets	6.79936E-001	2.91508E-001	-9.79861E-002	0.00000E+000	9.51381E-001	9.51381E-001	0.00000E+000	1.23848E-006	1.23848E-006	0.00000E+000	0.00000E+000	1.23683E-006
Graders	7.73109E-001	7.24225E-001	-9.36123E-001	0.00000E+000	9.41176E-001	9.36170E-001	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Pavers	7.60870E-001	2.02467E-001	-2.26814E-001	0.00000E+000	9.36170E-001	9.30233E-001	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Paving Equipment	7.39583E-001	7.11340E-002	-2.20299E-001	0.00000E+000	9.37500E-001	9.31818E-001	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rollers	6.86747E-001	4.03800E-001	-5.46780E-002	0.00000E+000	9.60784E-001	9.57447E-001	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	9.83652E-006
Rubber Tired Dozers	8.70509E-001	8.01626E-001	-9.66165E-002	0.00000E+000	9.75255E-001	9.73101E-001	0.00000E+000	1.07665E-006	1.07665E-006	0.00000E+000	0.00000E+000	2.13602E-006
Tractors/Loaders/Bac khoes	6.52962E-001	3.29867E-001	-3.08791E-002	0.00000E+000	9.59431E-001	9.55882E-001	0.00000E+000	1.29999E-006	1.29999E-006	0.00000E+000	0.00000E+000	9.67171E-007
Welders	8.63551E-001	-8.01075E-002	1.40360E-001	0.00000E+000	4.16320E-001	4.16320E-001	0.00000E+000	1.23968E-006	1.23968E-006	0.00000E+000	0.00000E+000	1.23541E-006

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input	Mitigation Input		
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
Yes	Replace Ground Cover of Area Disturbed	PM10 Reduction	5.00	PM2.5 Reduction	5.00		
Yes	Water Exposed Area	PM10 Reduction	61.00	PM2.5 Reduction	61.00	Frequency (per day)	3.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	15.00		
Yes	Clean Paved Road	% PM Reduction	9.00				

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.00	0.00	0.00	0.00	0.07	0.09
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.20	0.05	0.18	0.05	0.08	0.07
Demolition	Fugitive Dust	0.01	0.00	0.00	0.00	0.63	0.63
Demolition	Roads	0.00	0.00	0.00	0.00	0.07	0.06
Grading	Fugitive Dust	0.01	0.01	0.00	0.00	0.63	0.63
Grading	Roads	0.00	0.00	0.00	0.00	0.09	0.17
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.07	0.05
Site Preparation	Fugitive Dust	0.01	0.00	0.00	0.00	0.63	0.63
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.17	0.00

Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.70	2.70	2.68	2.81	2.70
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	13.68	13.53	12.53	13.25	13.62	13.62	0.00	13.62	13.62	13.54	13.77	13.62
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	20.00	16.05	16.34	19.37	19.74	16.53
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.15	0.40		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			
No	Neighborhood Enhancements	Improve Pedestrian Network				
No	Neighborhood Enhancements	Provide Traffic Calming Measures				
No	Neighborhood Enhancements	Implement NEV Network		0.00		

	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00		
No	Parking Policy Pricing	Limit Parking Supply	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00		
No	Transit Improvements	Expand Transit Network	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.00		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"			
No	Commute	Workplace Parking Charge			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00
No	Commute	Provide Ride Sharing Program			
	Commute	Commute Subtotal	0.00		
No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.00		

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	10.00
No	Use Low VOC Paint (Residential Exterior)	10.00
No	Use Low VOC Paint (Non-residential Interior)	10.00
No	Use Low VOC Paint (Non-residential Exterior)	10.00
No	Use Low VOC Paint (Parking)	100.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
Yes	Exceed Title 24	30.00	
No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy	0.00	0.00
No	Use Reclaimed Water	0.00	0.00
No	Use Grey Water	0.00	
Yes	Install low-flow bathroom faucet	32.00	
Yes	Install low-flow Kitchen faucet	18.00	
Yes	Install low-flow Toilet	20.00	
Yes	Install low-flow Shower	20.00	
No	Turf Reduction	0.00	
Yes	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape	0.00	0.00

Solid Waste Mitigation

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

CalEEMod Output: Existing Operation: Year 2020

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Existing - Los Angeles-South Coast County, Annual

Existing
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	1.31	Acre	1.31	0.00	0
Supermarket	9.10	1000sqft	0.28	9,100.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	531.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - See assumptions file.

Land Use - See assumptions file.

Construction Phase -

Vehicle Trips - See assumptions file

Area Coating - Assumes no striping

Energy Use -

Water And Wastewater - Assumes 100% aerobic.

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	57,063.60	0.00
tblLandUse	LotAcreage	0.21	0.28
tblProjectCharacteristics	CO2IntensityFactor	702.44	531.44
tblSolidWaste	SolidWasteGenerationRate	51.32	47.94
tblVehicleEF	HHD	0.68	0.03
tblVehicleEF	HHD	0.09	0.08
tblVehicleEF	HHD	0.10	1.0000e-006
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tblVehicleEF	HHD	1.17	0.78
tblVehicleEF	HHD	3.50	0.01
tblVehicleEF	HHD	4,770.40	1,146.12
tblVehicleEF	HHD	1,679.50	1,557.30
tblVehicleEF	HHD	10.80	0.11
tblVehicleEF	HHD	22.90	6.45
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tblVehicleEF	HHD	19.58	1.76
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.06
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tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	0.03	0.03

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tblVehicleEF	HHD	0.02	0.06
tblVehicleEF	HHD	9.9000e-005	3.0000e-006
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tblVehicleEF	HHD	5,051.17	1,147.09

tblVehicleEF	HHD	1,679.50	1,557.30
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tblVehicleEF	LDT2	2.3520e-003	2.0990e-003
tblVehicleEF	LDT2	2.0020e-003	1.9680e-003
tblVehicleEF	LDT2	2.1630e-003	1.9300e-003
tblVehicleEF	LDT2	0.08	0.12
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.06	0.41

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tblVehicleEF	LDT2	0.03	0.04
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tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
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tblVehicleEF	LDT2	0.08	0.52
tblVehicleEF	LDT2	0.11	0.39

tblVehicleEF	LDT2	4.0210e-003	3.5890e-003
tblVehicleEF	LDT2	8.6200e-004	7.3100e-004
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.03	0.04
tblVehicleEF	LDT2	0.08	0.52
tblVehicleEF	LDT2	0.13	0.42
tblVehicleEF	LHD1	6.3570e-003	6.1110e-003
tblVehicleEF	LHD1	0.02	7.2760e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.16	0.20
tblVehicleEF	LHD1	1.07	0.85
tblVehicleEF	LHD1	3.29	1.27
tblVehicleEF	LHD1	8.89	8.96
tblVehicleEF	LHD1	622.45	695.35
tblVehicleEF	LHD1	35.85	13.43
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	1.15	0.81
tblVehicleEF	LHD1	1.13	0.38
tblVehicleEF	LHD1	7.9800e-004	6.7500e-004
tblVehicleEF	LHD1	9.8890e-003	9.5180e-003
tblVehicleEF	LHD1	9.6360e-003	6.9410e-003
tblVehicleEF	LHD1	1.1970e-003	3.3400e-004
tblVehicleEF	LHD1	7.6300e-004	6.4600e-004
tblVehicleEF	LHD1	2.4720e-003	2.3800e-003
tblVehicleEF	LHD1	9.1880e-003	6.6080e-003

tblVehicleEF	LHD1	1.1020e-003	3.0700e-004
tblVehicleEF	LHD1	3.4680e-003	2.9780e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.0560e-003	1.7700e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.33	0.64
tblVehicleEF	LHD1	0.32	0.10
tblVehicleEF	LHD1	9.0000e-005	8.7000e-005
tblVehicleEF	LHD1	6.1270e-003	6.8010e-003
tblVehicleEF	LHD1	4.2000e-004	1.3300e-004
tblVehicleEF	LHD1	3.4680e-003	2.9780e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.0560e-003	1.7700e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.33	0.64
tblVehicleEF	LHD1	0.35	0.11
tblVehicleEF	LHD1	6.3570e-003	6.1240e-003
tblVehicleEF	LHD1	0.02	7.4190e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.16	0.20
tblVehicleEF	LHD1	1.08	0.87
tblVehicleEF	LHD1	3.14	1.22
tblVehicleEF	LHD1	8.89	8.96
tblVehicleEF	LHD1	622.45	695.38
tblVehicleEF	LHD1	35.85	13.33

tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	1.07	0.76
tblVehicleEF	LHD1	1.08	0.36
tblVehicleEF	LHD1	7.9800e-004	6.7500e-004
tblVehicleEF	LHD1	9.8890e-003	9.5180e-003
tblVehicleEF	LHD1	9.6360e-003	6.9410e-003
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tblVehicleEF	LHD1	7.6300e-004	6.4600e-004
tblVehicleEF	LHD1	2.4720e-003	2.3800e-003
tblVehicleEF	LHD1	9.1880e-003	6.6080e-003
tblVehicleEF	LHD1	1.1020e-003	3.0700e-004
tblVehicleEF	LHD1	5.2080e-003	4.3920e-003
tblVehicleEF	LHD1	0.12	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.9180e-003	2.4690e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.32	0.62
tblVehicleEF	LHD1	0.31	0.09
tblVehicleEF	LHD1	9.0000e-005	8.7000e-005
tblVehicleEF	LHD1	6.1280e-003	6.8010e-003
tblVehicleEF	LHD1	4.1700e-004	1.3200e-004
tblVehicleEF	LHD1	5.2080e-003	4.3920e-003
tblVehicleEF	LHD1	0.12	0.10
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.9180e-003	2.4690e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.32	0.62

tblVehicleEF	LHD1	0.34	0.10
tblVehicleEF	LHD1	6.3570e-003	6.1080e-003
tblVehicleEF	LHD1	0.02	7.2360e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.16	0.20
tblVehicleEF	LHD1	1.06	0.85
tblVehicleEF	LHD1	3.32	1.28
tblVehicleEF	LHD1	8.89	8.96
tblVehicleEF	LHD1	622.45	695.35
tblVehicleEF	LHD1	35.85	13.45
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	1.13	0.80
tblVehicleEF	LHD1	1.14	0.38
tblVehicleEF	LHD1	7.9800e-004	6.7500e-004
tblVehicleEF	LHD1	9.8890e-003	9.5180e-003
tblVehicleEF	LHD1	9.6360e-003	6.9410e-003
tblVehicleEF	LHD1	1.1970e-003	3.3400e-004
tblVehicleEF	LHD1	7.6300e-004	6.4600e-004
tblVehicleEF	LHD1	2.4720e-003	2.3800e-003
tblVehicleEF	LHD1	9.1880e-003	6.6080e-003
tblVehicleEF	LHD1	1.1020e-003	3.0700e-004
tblVehicleEF	LHD1	3.6860e-003	3.1700e-003
tblVehicleEF	LHD1	0.13	0.11
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.0330e-003	1.7530e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.35	0.70

tblVehicleEF	LHD1	0.32	0.10
tblVehicleEF	LHD1	9.0000e-005	8.7000e-005
tblVehicleEF	LHD1	6.1270e-003	6.8010e-003
tblVehicleEF	LHD1	4.2100e-004	1.3300e-004
tblVehicleEF	LHD1	3.6860e-003	3.1700e-003
tblVehicleEF	LHD1	0.13	0.11
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.0330e-003	1.7530e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.35	0.70
tblVehicleEF	LHD1	0.36	0.11
tblVehicleEF	LHD2	4.6500e-003	4.3800e-003
tblVehicleEF	LHD2	5.8620e-003	5.0500e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.14	0.16
tblVehicleEF	LHD2	0.45	0.57
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tblVehicleEF	LHD2	13.53	13.42
tblVehicleEF	LHD2	634.55	698.02
tblVehicleEF	LHD2	30.01	10.61
tblVehicleEF	LHD2	0.10	0.09
tblVehicleEF	LHD2	0.88	1.08
tblVehicleEF	LHD2	0.66	0.27
tblVehicleEF	LHD2	1.1790e-003	1.1740e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	9.7680e-003	0.01
tblVehicleEF	LHD2	5.5800e-004	1.9100e-004

tblVehicleEF	LHD2	1.1280e-003	1.1230e-003
tblVehicleEF	LHD2	2.6300e-003	2.5990e-003
tblVehicleEF	LHD2	9.3300e-003	0.01
tblVehicleEF	LHD2	5.1400e-004	1.7600e-004
tblVehicleEF	LHD2	1.4140e-003	1.9030e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.8000e-004	1.1330e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.11	0.44
tblVehicleEF	LHD2	0.15	0.07
tblVehicleEF	LHD2	1.3300e-004	1.2900e-004
tblVehicleEF	LHD2	6.1920e-003	6.7670e-003
tblVehicleEF	LHD2	3.3100e-004	1.0500e-004
tblVehicleEF	LHD2	1.4140e-003	1.9030e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	8.8000e-004	1.1330e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.11	0.44
tblVehicleEF	LHD2	0.17	0.07
tblVehicleEF	LHD2	4.6500e-003	4.3900e-003
tblVehicleEF	LHD2	5.9540e-003	5.1160e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.14	0.16
tblVehicleEF	LHD2	0.46	0.58
tblVehicleEF	LHD2	1.60	0.85

tblVehicleEF	LHD2	13.53	13.42
tblVehicleEF	LHD2	634.55	698.03
tblVehicleEF	LHD2	30.01	10.54
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tblVehicleEF	LHD2	0.83	1.02
tblVehicleEF	LHD2	0.63	0.26
tblVehicleEF	LHD2	1.1790e-003	1.1740e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	9.7680e-003	0.01
tblVehicleEF	LHD2	5.5800e-004	1.9100e-004
tblVehicleEF	LHD2	1.1280e-003	1.1230e-003
tblVehicleEF	LHD2	2.6300e-003	2.5990e-003
tblVehicleEF	LHD2	9.3300e-003	0.01
tblVehicleEF	LHD2	5.1400e-004	1.7600e-004
tblVehicleEF	LHD2	2.1090e-003	2.8050e-003
tblVehicleEF	LHD2	0.05	0.07
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.2380e-003	1.5800e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.10	0.42
tblVehicleEF	LHD2	0.15	0.07
tblVehicleEF	LHD2	1.3300e-004	1.2900e-004
tblVehicleEF	LHD2	6.1920e-003	6.7670e-003
tblVehicleEF	LHD2	3.3000e-004	1.0400e-004
tblVehicleEF	LHD2	2.1090e-003	2.8050e-003
tblVehicleEF	LHD2	0.05	0.07
tblVehicleEF	LHD2	0.02	0.03

tblVehicleEF	LHD2	1.2380e-003	1.5800e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.10	0.42
tblVehicleEF	LHD2	0.16	0.07
tblVehicleEF	LHD2	4.6500e-003	4.3790e-003
tblVehicleEF	LHD2	5.8380e-003	5.0320e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.14	0.16
tblVehicleEF	LHD2	0.45	0.57
tblVehicleEF	LHD2	1.68	0.90
tblVehicleEF	LHD2	13.53	13.42
tblVehicleEF	LHD2	634.55	698.01
tblVehicleEF	LHD2	30.01	10.62
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tblVehicleEF	LHD2	0.87	1.06
tblVehicleEF	LHD2	0.67	0.27
tblVehicleEF	LHD2	1.1790e-003	1.1740e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	9.7680e-003	0.01
tblVehicleEF	LHD2	5.5800e-004	1.9100e-004
tblVehicleEF	LHD2	1.1280e-003	1.1230e-003
tblVehicleEF	LHD2	2.6300e-003	2.5990e-003
tblVehicleEF	LHD2	9.3300e-003	0.01
tblVehicleEF	LHD2	5.1400e-004	1.7600e-004
tblVehicleEF	LHD2	1.4720e-003	2.0040e-003
tblVehicleEF	LHD2	0.05	0.07
tblVehicleEF	LHD2	0.02	0.02

tblVehicleEF	LHD2	8.5900e-004	1.1070e-003
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tblVehicleEF	LHD2	0.12	0.48
tblVehicleEF	LHD2	0.16	0.07
tblVehicleEF	LHD2	1.3300e-004	1.2900e-004
tblVehicleEF	LHD2	6.1910e-003	6.7670e-003
tblVehicleEF	LHD2	3.3100e-004	1.0500e-004
tblVehicleEF	LHD2	1.4720e-003	2.0040e-003
tblVehicleEF	LHD2	0.05	0.07
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	8.5900e-004	1.1070e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.12	0.48
tblVehicleEF	LHD2	0.17	0.08
tblVehicleEF	MCY	0.53	0.38
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.48	19.74
tblVehicleEF	MCY	9.63	8.47
tblVehicleEF	MCY	187.52	223.45
tblVehicleEF	MCY	45.30	60.30
tblVehicleEF	MCY	1.13	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	2.3100e-003	2.3150e-003
tblVehicleEF	MCY	4.0640e-003	3.4460e-003
tblVehicleEF	MCY	2.1620e-003	2.1660e-003
tblVehicleEF	MCY	3.8350e-003	3.2510e-003
tblVehicleEF	MCY	1.07	1.10

tblVehicleEF	MCY	0.66	0.69
tblVehicleEF	MCY	0.66	0.68
tblVehicleEF	MCY	2.62	2.65
tblVehicleEF	MCY	0.63	2.16
tblVehicleEF	MCY	2.08	1.84
tblVehicleEF	MCY	2.2730e-003	2.2110e-003
tblVehicleEF	MCY	6.7100e-004	5.9700e-004
tblVehicleEF	MCY	1.07	1.10
tblVehicleEF	MCY	0.66	0.69
tblVehicleEF	MCY	0.66	0.68
tblVehicleEF	MCY	3.25	3.27
tblVehicleEF	MCY	0.63	2.16
tblVehicleEF	MCY	2.26	2.00
tblVehicleEF	MCY	0.52	0.38
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	18.74	18.94
tblVehicleEF	MCY	8.81	7.73
tblVehicleEF	MCY	187.52	221.94
tblVehicleEF	MCY	45.30	58.43
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	2.3100e-003	2.3150e-003
tblVehicleEF	MCY	4.0640e-003	3.4460e-003
tblVehicleEF	MCY	2.1620e-003	2.1660e-003
tblVehicleEF	MCY	3.8350e-003	3.2510e-003
tblVehicleEF	MCY	1.74	1.75
tblVehicleEF	MCY	0.72	0.75

tblVehicleEF	MCY	1.10	1.09
tblVehicleEF	MCY	2.56	2.58
tblVehicleEF	MCY	0.60	2.03
tblVehicleEF	MCY	1.85	1.63
tblVehicleEF	MCY	2.2590e-003	2.1960e-003
tblVehicleEF	MCY	6.5100e-004	5.7800e-004
tblVehicleEF	MCY	1.74	1.75
tblVehicleEF	MCY	0.72	0.75
tblVehicleEF	MCY	1.10	1.09
tblVehicleEF	MCY	3.17	3.18
tblVehicleEF	MCY	0.60	2.03
tblVehicleEF	MCY	2.01	1.77
tblVehicleEF	MCY	0.53	0.39
tblVehicleEF	MCY	0.16	0.24
tblVehicleEF	MCY	19.59	19.90
tblVehicleEF	MCY	9.76	8.61
tblVehicleEF	MCY	187.52	223.76
tblVehicleEF	MCY	45.30	60.68
tblVehicleEF	MCY	1.11	1.11
tblVehicleEF	MCY	0.31	0.27
tblVehicleEF	MCY	2.3100e-003	2.3150e-003
tblVehicleEF	MCY	4.0640e-003	3.4460e-003
tblVehicleEF	MCY	2.1620e-003	2.1660e-003
tblVehicleEF	MCY	3.8350e-003	3.2510e-003
tblVehicleEF	MCY	1.17	1.19
tblVehicleEF	MCY	0.86	0.89
tblVehicleEF	MCY	0.63	0.65

tblVehicleEF	MCY	2.64	2.66
tblVehicleEF	MCY	0.73	2.48
tblVehicleEF	MCY	2.12	1.88
tblVehicleEF	MCY	2.2750e-003	2.2140e-003
tblVehicleEF	MCY	6.7500e-004	6.0000e-004
tblVehicleEF	MCY	1.17	1.19
tblVehicleEF	MCY	0.86	0.89
tblVehicleEF	MCY	0.63	0.65
tblVehicleEF	MCY	3.26	3.29
tblVehicleEF	MCY	0.73	2.48
tblVehicleEF	MCY	2.31	2.05
tblVehicleEF	MDV	0.02	9.2300e-003
tblVehicleEF	MDV	0.02	0.10
tblVehicleEF	MDV	1.77	1.63
tblVehicleEF	MDV	3.11	3.48
tblVehicleEF	MDV	543.27	449.17
tblVehicleEF	MDV	109.34	89.67
tblVehicleEF	MDV	0.19	0.16
tblVehicleEF	MDV	0.29	0.42
tblVehicleEF	MDV	2.4830e-003	2.3870e-003
tblVehicleEF	MDV	2.6470e-003	2.3460e-003
tblVehicleEF	MDV	2.2920e-003	2.2020e-003
tblVehicleEF	MDV	2.4370e-003	2.1600e-003
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.17	0.16
tblVehicleEF	MDV	0.07	0.10
tblVehicleEF	MDV	0.05	0.05

tblVehicleEF	MDV	0.09	0.47
tblVehicleEF	MDV	0.25	0.49
tblVehicleEF	MDV	5.4490e-003	4.4410e-003
tblVehicleEF	MDV	1.1480e-003	8.8700e-004
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.17	0.16
tblVehicleEF	MDV	0.07	0.10
tblVehicleEF	MDV	0.07	0.06
tblVehicleEF	MDV	0.09	0.47
tblVehicleEF	MDV	0.27	0.54
tblVehicleEF	MDV	0.02	9.6790e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.90	1.75
tblVehicleEF	MDV	2.66	2.97
tblVehicleEF	MDV	567.14	462.77
tblVehicleEF	MDV	109.34	88.67
tblVehicleEF	MDV	0.17	0.14
tblVehicleEF	MDV	0.26	0.39
tblVehicleEF	MDV	2.4830e-003	2.3870e-003
tblVehicleEF	MDV	2.6470e-003	2.3460e-003
tblVehicleEF	MDV	2.2920e-003	2.2020e-003
tblVehicleEF	MDV	2.4370e-003	2.1600e-003
tblVehicleEF	MDV	0.11	0.14
tblVehicleEF	MDV	0.17	0.16
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.09	0.44

tblVehicleEF	MDV	0.22	0.44
tblVehicleEF	MDV	5.6890e-003	4.5760e-003
tblVehicleEF	MDV	1.1400e-003	8.7700e-004
tblVehicleEF	MDV	0.11	0.14
tblVehicleEF	MDV	0.17	0.16
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.07	0.06
tblVehicleEF	MDV	0.09	0.44
tblVehicleEF	MDV	0.24	0.48
tblVehicleEF	MDV	0.02	9.0790e-003
tblVehicleEF	MDV	0.02	0.10
tblVehicleEF	MDV	1.72	1.59
tblVehicleEF	MDV	3.20	3.60
tblVehicleEF	MDV	534.52	444.14
tblVehicleEF	MDV	109.34	89.90
tblVehicleEF	MDV	0.19	0.15
tblVehicleEF	MDV	0.29	0.43
tblVehicleEF	MDV	2.4830e-003	2.3870e-003
tblVehicleEF	MDV	2.6470e-003	2.3460e-003
tblVehicleEF	MDV	2.2920e-003	2.2020e-003
tblVehicleEF	MDV	2.4370e-003	2.1600e-003
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.18	0.17
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.55
tblVehicleEF	MDV	0.25	0.50

tblVehicleEF	MDV	5.3610e-003	4.3920e-003
tblVehicleEF	MDV	1.1500e-003	8.9000e-004
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.18	0.17
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.07	0.06
tblVehicleEF	MDV	0.11	0.55
tblVehicleEF	MDV	0.28	0.55
tblVehicleEF	MH	0.04	3.4340e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.53	0.31
tblVehicleEF	MH	7.14	0.00
tblVehicleEF	MH	1,138.98	992.05
tblVehicleEF	MH	63.70	0.00
tblVehicleEF	MH	1.26	3.85
tblVehicleEF	MH	0.90	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.02	0.09
tblVehicleEF	MH	1.5790e-003	0.00
tblVehicleEF	MH	3.1950e-003	4.0000e-003
tblVehicleEF	MH	0.02	0.09
tblVehicleEF	MH	1.4630e-003	0.00
tblVehicleEF	MH	1.18	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.49	0.00
tblVehicleEF	MH	0.13	0.07
tblVehicleEF	MH	0.02	0.00

tblVehicleEF	MH	0.43	0.00
tblVehicleEF	MH	0.01	9.3780e-003
tblVehicleEF	MH	7.6200e-004	0.00
tblVehicleEF	MH	1.18	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.49	0.00
tblVehicleEF	MH	0.18	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.47	0.00
tblVehicleEF	MH	0.04	3.4340e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.59	0.31
tblVehicleEF	MH	6.72	0.00
tblVehicleEF	MH	1,138.98	992.05
tblVehicleEF	MH	63.70	0.00
tblVehicleEF	MH	1.15	3.64
tblVehicleEF	MH	0.86	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.02	0.09
tblVehicleEF	MH	1.5790e-003	0.00
tblVehicleEF	MH	3.1950e-003	4.0000e-003
tblVehicleEF	MH	0.02	0.09
tblVehicleEF	MH	1.4630e-003	0.00
tblVehicleEF	MH	1.74	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.71	0.00
tblVehicleEF	MH	0.13	0.07

tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.41	0.00
tblVehicleEF	MH	0.01	9.3780e-003
tblVehicleEF	MH	7.5500e-004	0.00
tblVehicleEF	MH	1.74	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.71	0.00
tblVehicleEF	MH	0.18	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.45	0.00
tblVehicleEF	MH	0.04	3.4340e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.51	0.31
tblVehicleEF	MH	7.19	0.00
tblVehicleEF	MH	1,138.98	992.05
tblVehicleEF	MH	63.70	0.00
tblVehicleEF	MH	1.23	3.78
tblVehicleEF	MH	0.91	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.02	0.09
tblVehicleEF	MH	1.5790e-003	0.00
tblVehicleEF	MH	3.1950e-003	4.0000e-003
tblVehicleEF	MH	0.02	0.09
tblVehicleEF	MH	1.4630e-003	0.00
tblVehicleEF	MH	1.35	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.51	0.00

tblVehicleEF	MH	0.13	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.43	0.00
tblVehicleEF	MH	0.01	9.3780e-003
tblVehicleEF	MH	7.6300e-004	0.00
tblVehicleEF	MH	1.35	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.18	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.47	0.00
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tblVehicleEF	MHD	0.44	0.40
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tblVehicleEF	MHD	1,158.03	1,130.50
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tblVehicleEF	MHD	2.2420e-003	2.2340e-003
tblVehicleEF	MHD	0.04	0.07
tblVehicleEF	MHD	9.3600e-004	1.5500e-004
tblVehicleEF	MHD	2.1450e-003	2.1380e-003

tblVehicleEF	MHD	0.04	0.07
tblVehicleEF	MHD	8.6100e-004	1.4200e-004
tblVehicleEF	MHD	1.3410e-003	8.0900e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	8.3700e-004	4.9900e-004
tblVehicleEF	MHD	0.09	0.15
tblVehicleEF	MHD	0.03	0.17
tblVehicleEF	MHD	0.46	0.07
tblVehicleEF	MHD	1.2830e-003	6.6600e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.8800e-004	1.2700e-004
tblVehicleEF	MHD	1.3410e-003	8.0900e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	8.3700e-004	4.9900e-004
tblVehicleEF	MHD	0.11	0.17
tblVehicleEF	MHD	0.03	0.17
tblVehicleEF	MHD	0.50	0.08
tblVehicleEF	MHD	0.02	4.2550e-003
tblVehicleEF	MHD	8.7760e-003	9.5510e-003
tblVehicleEF	MHD	0.06	0.01
tblVehicleEF	MHD	0.32	0.32
tblVehicleEF	MHD	0.62	0.88
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tblVehicleEF	MHD	140.97	71.66
tblVehicleEF	MHD	1,158.03	1,130.52

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tblVehicleEF	MHD	1.75	2.58
tblVehicleEF	MHD	9.81	0.99
tblVehicleEF	MHD	1.8900e-003	1.8860e-003
tblVehicleEF	MHD	0.04	0.07
tblVehicleEF	MHD	9.3600e-004	1.5500e-004
tblVehicleEF	MHD	1.8090e-003	1.8040e-003
tblVehicleEF	MHD	0.04	0.07
tblVehicleEF	MHD	8.6100e-004	1.4200e-004
tblVehicleEF	MHD	2.0150e-003	1.2070e-003
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.1980e-003	7.1000e-004
tblVehicleEF	MHD	0.09	0.15
tblVehicleEF	MHD	0.02	0.16
tblVehicleEF	MHD	0.44	0.07
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tblVehicleEF	MHD	2.0150e-003	1.2070e-003
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tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	1.1980e-003	7.1000e-004
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tblVehicleEF	MHD	0.02	0.16
tblVehicleEF	MHD	0.48	0.08

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tblVehicleEF	MHD	8.6270e-003	9.4470e-003
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tblVehicleEF	MHD	0.61	0.51
tblVehicleEF	MHD	0.61	0.87
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tblVehicleEF	MHD	9.87	1.00
tblVehicleEF	MHD	2.7290e-003	2.7160e-003
tblVehicleEF	MHD	0.04	0.07
tblVehicleEF	MHD	9.3600e-004	1.5500e-004
tblVehicleEF	MHD	2.6110e-003	2.5980e-003
tblVehicleEF	MHD	0.04	0.07
tblVehicleEF	MHD	8.6100e-004	1.4200e-004
tblVehicleEF	MHD	1.4110e-003	8.5500e-004
tblVehicleEF	MHD	0.06	0.03
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	8.2400e-004	4.9200e-004
tblVehicleEF	MHD	0.09	0.15
tblVehicleEF	MHD	0.03	0.18
tblVehicleEF	MHD	0.46	0.08
tblVehicleEF	MHD	1.1810e-003	6.4400e-004
tblVehicleEF	MHD	0.01	0.01

tblVehicleEF	MHD	7.8900e-004	1.2800e-004
tblVehicleEF	MHD	1.4110e-003	8.5500e-004
tblVehicleEF	MHD	0.06	0.03
tblVehicleEF	MHD	0.05	0.04
tblVehicleEF	MHD	8.2400e-004	4.9200e-004
tblVehicleEF	MHD	0.11	0.17
tblVehicleEF	MHD	0.03	0.18
tblVehicleEF	MHD	0.51	0.08
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tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.03	0.02
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tblVehicleEF	OBUS	1,273.03	1,457.53
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tblVehicleEF	OBUS	3.0000e-004	3.3600e-003
tblVehicleEF	OBUS	0.01	0.05
tblVehicleEF	OBUS	7.8200e-004	1.9900e-004
tblVehicleEF	OBUS	2.8700e-004	3.2150e-003
tblVehicleEF	OBUS	9.9080e-003	0.05
tblVehicleEF	OBUS	7.2000e-004	1.8300e-004
tblVehicleEF	OBUS	1.4950e-003	1.8640e-003

tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	7.8100e-004	9.3200e-004
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tblVehicleEF	OBUS	2.4200e-004	2.7140e-003
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tblVehicleEF	OBUS	7.8200e-004	1.9900e-004
tblVehicleEF	OBUS	3.4900e-004	3.9050e-003
tblVehicleEF	OBUS	9.9080e-003	0.05
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tblVehicleEF	OBUS	0.04	0.07
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tblVehicleEF	OBUS	0.39	0.12
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tblVehicleEF	OBUS	7.6300e-004	9.2000e-004
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tblVehicleEF	SBUS	2.6880e-003	2.6870e-003
tblVehicleEF	SBUS	0.03	0.03
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tblVehicleEF	SBUS	2.6880e-003	2.6870e-003
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tblVehicleEF	SBUS	2.6880e-003	2.6870e-003
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tblVehicleEF	SBUS	6.8700e-004	4.2000e-005
tblVehicleEF	SBUS	3.6280e-003	9.7000e-004
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tblVehicleEF	SBUS	1.6230e-003	4.5900e-004
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tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.41	0.04
tblVehicleEF	SBUS	0.01	3.2620e-003
tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	6.5700e-004	5.2000e-005
tblVehicleEF	SBUS	3.6280e-003	9.7000e-004
tblVehicleEF	SBUS	0.03	8.6170e-003
tblVehicleEF	SBUS	1.38	0.44
tblVehicleEF	SBUS	1.6230e-003	4.5900e-004
tblVehicleEF	SBUS	0.14	0.12
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.45	0.04
tblVehicleEF	UBUS	2.95	6.22
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	12.36	42.74
tblVehicleEF	UBUS	8.85	0.71
tblVehicleEF	UBUS	2,008.92	1,985.10
tblVehicleEF	UBUS	88.02	8.74
tblVehicleEF	UBUS	11.49	1.21
tblVehicleEF	UBUS	15.98	0.08
tblVehicleEF	UBUS	0.64	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.15	3.6950e-003
tblVehicleEF	UBUS	9.7400e-004	3.6000e-005
tblVehicleEF	UBUS	0.27	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9690e-003
tblVehicleEF	UBUS	0.14	3.5330e-003
tblVehicleEF	UBUS	8.9600e-004	3.3000e-005
tblVehicleEF	UBUS	4.1600e-003	6.1300e-004
tblVehicleEF	UBUS	0.07	7.6310e-003
tblVehicleEF	UBUS	2.3210e-003	4.5000e-004

tblVehicleEF	UBUS	0.96	0.16
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.66	0.05
tblVehicleEF	UBUS	0.01	1.4780e-003
tblVehicleEF	UBUS	1.0390e-003	8.7000e-005
tblVehicleEF	UBUS	4.1600e-003	6.1300e-004
tblVehicleEF	UBUS	0.07	7.6310e-003
tblVehicleEF	UBUS	2.3210e-003	4.5000e-004
tblVehicleEF	UBUS	4.03	6.42
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.72	0.05
tblVehicleEF	UBUS	2.95	6.22
tblVehicleEF	UBUS	0.04	0.01
tblVehicleEF	UBUS	12.41	42.74
tblVehicleEF	UBUS	7.66	0.63
tblVehicleEF	UBUS	2,008.92	1,985.10
tblVehicleEF	UBUS	88.02	8.60
tblVehicleEF	UBUS	10.84	1.20
tblVehicleEF	UBUS	15.93	0.08
tblVehicleEF	UBUS	0.64	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.15	3.6950e-003
tblVehicleEF	UBUS	9.7400e-004	3.6000e-005
tblVehicleEF	UBUS	0.27	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9690e-003
tblVehicleEF	UBUS	0.14	3.5330e-003
tblVehicleEF	UBUS	8.9600e-004	3.3000e-005

tblVehicleEF	UBUS	5.9230e-003	8.9000e-004
tblVehicleEF	UBUS	0.07	7.8710e-003
tblVehicleEF	UBUS	3.1960e-003	6.2100e-004
tblVehicleEF	UBUS	0.97	0.16
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	0.60	0.04
tblVehicleEF	UBUS	0.01	1.4780e-003
tblVehicleEF	UBUS	1.0190e-003	8.5000e-005
tblVehicleEF	UBUS	5.9230e-003	8.9000e-004
tblVehicleEF	UBUS	0.07	7.8710e-003
tblVehicleEF	UBUS	3.1960e-003	6.2100e-004
tblVehicleEF	UBUS	4.04	6.42
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	0.66	0.05
tblVehicleEF	UBUS	2.95	6.22
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	12.34	42.74
tblVehicleEF	UBUS	9.07	0.73
tblVehicleEF	UBUS	2,008.92	1,985.10
tblVehicleEF	UBUS	88.02	8.77
tblVehicleEF	UBUS	11.27	1.20
tblVehicleEF	UBUS	15.99	0.08
tblVehicleEF	UBUS	0.64	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.15	3.6950e-003
tblVehicleEF	UBUS	9.7400e-004	3.6000e-005
tblVehicleEF	UBUS	0.27	0.03

tblVehicleEF	UBUS	3.0000e-003	7.9690e-003
tblVehicleEF	UBUS	0.14	3.5330e-003
tblVehicleEF	UBUS	8.9600e-004	3.3000e-005
tblVehicleEF	UBUS	4.7740e-003	6.0100e-004
tblVehicleEF	UBUS	0.09	8.1480e-003
tblVehicleEF	UBUS	2.4590e-003	4.2800e-004
tblVehicleEF	UBUS	0.96	0.16
tblVehicleEF	UBUS	0.03	0.06
tblVehicleEF	UBUS	0.67	0.05
tblVehicleEF	UBUS	0.01	1.4780e-003
tblVehicleEF	UBUS	1.0430e-003	8.7000e-005
tblVehicleEF	UBUS	4.7740e-003	6.0100e-004
tblVehicleEF	UBUS	0.09	8.1480e-003
tblVehicleEF	UBUS	2.4590e-003	4.2800e-004
tblVehicleEF	UBUS	4.02	6.42
tblVehicleEF	UBUS	0.03	0.06
tblVehicleEF	UBUS	0.74	0.05
tblVehicleTrips	ST_TR	177.59	177.62
tblVehicleTrips	SU_TR	166.44	166.47
tblVehicleTrips	WD_TR	102.24	106.78
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	1,121,740.76	1,047,779.83
tblWater	OutdoorWaterUseRate	34,693.01	32,405.56
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0371	0.0000	1.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6000e-004	2.6000e-004	0.0000	0.0000	2.8000e-004
Energy	1.1400e-003	0.0104	8.7300e-003	6.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004	0.0000	99.2837	99.2837	5.0200e-003	1.2000e-003	99.7670
Mobile	0.5070	0.7576	3.2994	6.7700e-003	0.5695	0.0105	0.5800	0.1523	9.8700e-003	0.1622	0.0000	635.0793	635.0793	0.0645	0.0000	636.6919
Waste						0.0000	0.0000		0.0000	0.0000	9.7314	0.0000	9.7314	0.5751	0.0000	24.1091
Water						0.0000	0.0000		0.0000	0.0000	0.3707	3.3756	3.7463	1.4600e-003	8.4000e-004	4.0344
Total	0.5452	0.7680	3.3082	6.8300e-003	0.5695	0.0113	0.5808	0.1523	0.0107	0.1630	10.1021	737.7389	747.8410	0.6461	2.0400e-003	764.6026

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0371	0.0000	1.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6000e-004	2.6000e-004	0.0000	0.0000	2.8000e-004
Energy	1.1400e-003	0.0104	8.7300e-003	6.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004	0.0000	99.2837	99.2837	5.0200e-003	1.2000e-003	99.7670
Mobile	0.5070	0.7576	3.2994	6.7700e-003	0.5695	0.0105	0.5800	0.1523	9.8700e-003	0.1622	0.0000	635.0793	635.0793	0.0645	0.0000	636.6919
Waste						0.0000	0.0000		0.0000	0.0000	9.7314	0.0000	9.7314	0.5751	0.0000	24.1091
Water						0.0000	0.0000		0.0000	0.0000	0.3707	3.3756	3.7463	1.4600e-003	8.4000e-004	4.0344
Total	0.5452	0.7680	3.3082	6.8300e-003	0.5695	0.0113	0.5808	0.1523	0.0107	0.1630	10.1021	737.7389	747.8410	0.6461	2.0400e-003	764.6026

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	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

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	tons/yr										MT/yr					
Mitigated	0.5070	0.7576	3.2994	6.7700e-003	0.5695	0.0105	0.5800	0.1523	9.8700e-003	0.1622	0.0000	635.0793	635.0793	0.0645	0.0000	636.6919
Unmitigated	0.5070	0.7576	3.2994	6.7700e-003	0.5695	0.0105	0.5800	0.1523	9.8700e-003	0.1622	0.0000	635.0793	635.0793	0.0645	0.0000	636.6919

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Supermarket	971.70	1,616.34	1514.88	1,506,027	1,506,027
Total	971.70	1,616.34	1,514.88	1,506,027	1,506,027

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Supermarket	16.60	8.40	6.90	6.50	74.50	19.00	34	30	36

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907
Supermarket	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907

5.0 Energy Detail

Historical Energy Use: Y

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	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	87.9642	87.9642	4.8000e-003	9.9000e-004	88.3801
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	87.9642	87.9642	4.8000e-003	9.9000e-004	88.3801
NaturalGas Mitigated	1.1400e-003	0.0104	8.7300e-003	6.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004	0.0000	11.3196	11.3196	2.2000e-004	2.1000e-004	11.3869
NaturalGas Unmitigated	1.1400e-003	0.0104	8.7300e-003	6.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004	0.0000	11.3196	11.3196	2.2000e-004	2.1000e-004	11.3869

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas 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	tons/yr										MT/yr					
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
Supermarket	212121	1.1400e-003	0.0104	8.7300e-003	6.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004	0.0000	11.3196	11.3196	2.2000e-004	2.1000e-004	11.3869
Total		1.1400e-003	0.0104	8.7300e-003	6.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004	0.0000	11.3196	11.3196	2.2000e-004	2.1000e-004	11.3869

Mitigated

	Natural Gas 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	tons/yr										MT/yr					
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
Supermarket	212121	1.1400e-003	0.0104	8.7300e-003	6.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004	0.0000	11.3196	11.3196	2.2000e-004	2.1000e-004	11.3869
Total		1.1400e-003	0.0104	8.7300e-003	6.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004	0.0000	11.3196	11.3196	2.2000e-004	2.1000e-004	11.3869

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Supermarket	364910	87.9642	4.8000e-003	9.9000e-004	88.3801
Total		87.9642	4.8000e-003	9.9000e-004	88.3801

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Supermarket	364910	87.9642	4.8000e-003	9.9000e-004	88.3801
Total		87.9642	4.8000e-003	9.9000e-004	88.3801

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0371	0.0000	1.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6000e-004	2.6000e-004	0.0000	0.0000	2.8000e-004
Unmitigated	0.0371	0.0000	1.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6000e-004	2.6000e-004	0.0000	0.0000	2.8000e-004

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					
Architectural Coating	4.2200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0329					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	1.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6000e-004	2.6000e-004	0.0000	0.0000	2.8000e-004
Total	0.0371	0.0000	1.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6000e-004	2.6000e-004	0.0000	0.0000	2.8000e-004

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	tons/yr										MT/yr						
Architectural Coating	4.2200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0329					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	1.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6000e-004	2.6000e-004	0.0000	0.0000	2.8000e-004	
Total	0.0371	0.0000	1.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6000e-004	2.6000e-004	0.0000	0.0000	2.8000e-004	

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	3.7463	1.4600e-003	8.4000e-004	4.0344
Unmitigated	3.7463	1.4600e-003	8.4000e-004	4.0344

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Supermarket	1.04778 / 0.0324056	3.7463	1.4600e-003	8.4000e-004	4.0344
Total		3.7463	1.4600e-003	8.4000e-004	4.0344

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Supermarket	1.04778 / 0.0324056	3.7463	1.4600e-003	8.4000e-004	4.0344
Total		3.7463	1.4600e-003	8.4000e-004	4.0344

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	9.7314	0.5751	0.0000	24.1091
Unmitigated	9.7314	0.5751	0.0000	24.1091

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Supermarket	47.94	9.7314	0.5751	0.0000	24.1091
Total		9.7314	0.5751	0.0000	24.1091

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Supermarket	47.94	9.7314	0.5751	0.0000	24.1091
Total		9.7314	0.5751	0.0000	24.1091

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
----------------	--------	-----------	------------	-------------	-------------	-----------

Boilers

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

Equipment Type	Number
----------------	--------

11.0 Vegetation

CalEEMod Output: Existing Operation: Year 2023

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Existing_Year 2023 - Los Angeles-South Coast County, Summer

Existing_Year 2023
Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	1.31	Acre	1.31	0.00	0
Supermarket	9.10	1000sqft	0.28	9,100.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	531.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - See assumptions file.

Land Use - See assumptions file.

Construction Phase -

Vehicle Trips - See assumptions file

Area Coating - Assumes no striping

Energy Use -

Water And Wastewater - Assumes 100% aerobic.

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	57,063.60	0.00
tblLandUse	LotAcreage	0.21	0.28
tblProjectCharacteristics	CO2IntensityFactor	702.44	531.44
tblSolidWaste	SolidWasteGenerationRate	51.32	47.94
tblVehicleEF	HHD	0.48	0.03
tblVehicleEF	HHD	0.09	0.08
tblVehicleEF	HHD	0.07	5.3770e-007
tblVehicleEF	HHD	1.63	6.71
tblVehicleEF	HHD	1.06	0.46
tblVehicleEF	HHD	3.33	9.5442e-003
tblVehicleEF	HHD	4,465.78	1,125.75
tblVehicleEF	HHD	1,572.96	1,398.54
tblVehicleEF	HHD	10.75	0.08
tblVehicleEF	HHD	14.30	5.75
tblVehicleEF	HHD	2.12	2.71
tblVehicleEF	HHD	19.50	2.35
tblVehicleEF	HHD	0.01	3.1921e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.2960e-003	0.02
tblVehicleEF	HHD	9.1000e-005	1.3513e-006
tblVehicleEF	HHD	9.6000e-003	3.0540e-003
tblVehicleEF	HHD	0.03	0.03

tblVehicleEF	HHD	8.8400e-003	8.8984e-003
tblVehicleEF	HHD	6.0240e-003	0.02
tblVehicleEF	HHD	8.3000e-005	1.2425e-006
tblVehicleEF	HHD	1.0300e-004	5.8985e-006
tblVehicleEF	HHD	4.5010e-003	2.2896e-004
tblVehicleEF	HHD	0.41	0.45
tblVehicleEF	HHD	7.8000e-005	4.1733e-006
tblVehicleEF	HHD	0.09	0.02
tblVehicleEF	HHD	3.7200e-004	1.1922e-003
tblVehicleEF	HHD	0.08	2.8340e-006
tblVehicleEF	HHD	0.04	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.6200e-004	8.4026e-007
tblVehicleEF	HHD	1.0300e-004	5.8985e-006
tblVehicleEF	HHD	4.5010e-003	2.2896e-004
tblVehicleEF	HHD	0.49	0.52
tblVehicleEF	HHD	7.8000e-005	4.1733e-006
tblVehicleEF	HHD	0.20	0.11
tblVehicleEF	HHD	3.7200e-004	1.1922e-003
tblVehicleEF	HHD	0.08	3.1029e-006
tblVehicleEF	HHD	0.45	0.03
tblVehicleEF	HHD	0.09	0.08
tblVehicleEF	HHD	0.07	5.1512e-007
tblVehicleEF	HHD	1.19	6.61
tblVehicleEF	HHD	1.07	0.46
tblVehicleEF	HHD	3.16	9.0653e-003
tblVehicleEF	HHD	4,731.10	1,113.07

tblVehicleEF	HHD	1,572.96	1,398.54
tblVehicleEF	HHD	10.75	0.08
tblVehicleEF	HHD	14.76	5.50
tblVehicleEF	HHD	2.01	2.56
tblVehicleEF	HHD	19.49	2.35
tblVehicleEF	HHD	8.4600e-003	2.7790e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.2960e-003	0.02
tblVehicleEF	HHD	9.1000e-005	1.3513e-006
tblVehicleEF	HHD	8.0940e-003	2.6588e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8400e-003	8.8984e-003
tblVehicleEF	HHD	6.0240e-003	0.02
tblVehicleEF	HHD	8.3000e-005	1.2425e-006
tblVehicleEF	HHD	1.5600e-004	9.2271e-006
tblVehicleEF	HHD	4.6140e-003	2.3361e-004
tblVehicleEF	HHD	0.39	0.48
tblVehicleEF	HHD	1.1200e-004	6.2951e-006
tblVehicleEF	HHD	0.09	0.02
tblVehicleEF	HHD	3.6000e-004	1.1727e-003
tblVehicleEF	HHD	0.07	2.7227e-006
tblVehicleEF	HHD	0.04	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.5900e-004	8.3274e-007
tblVehicleEF	HHD	1.5600e-004	9.2271e-006
tblVehicleEF	HHD	4.6140e-003	2.3361e-004

tblVehicleEF	HHD	0.46	0.55
tblVehicleEF	HHD	1.1200e-004	6.2951e-006
tblVehicleEF	HHD	0.20	0.11
tblVehicleEF	HHD	3.6000e-004	1.1727e-003
tblVehicleEF	HHD	0.08	2.9810e-006
tblVehicleEF	HHD	0.52	0.02
tblVehicleEF	HHD	0.09	9.8236e-004
tblVehicleEF	HHD	0.07	5.4302e-007
tblVehicleEF	HHD	2.25	6.74
tblVehicleEF	HHD	1.06	0.24
tblVehicleEF	HHD	3.36	9.6392e-003
tblVehicleEF	HHD	4,099.40	1,124.17
tblVehicleEF	HHD	1,572.96	1,344.43
tblVehicleEF	HHD	10.75	0.09
tblVehicleEF	HHD	13.67	5.98
tblVehicleEF	HHD	2.09	2.62
tblVehicleEF	HHD	19.50	2.35
tblVehicleEF	HHD	0.01	3.5325e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.2960e-003	0.02
tblVehicleEF	HHD	9.1000e-005	1.3513e-006
tblVehicleEF	HHD	0.01	3.3797e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8400e-003	8.7534e-003
tblVehicleEF	HHD	6.0240e-003	0.02
tblVehicleEF	HHD	8.3000e-005	1.2425e-006

tblVehicleEF	HHD	1.0000e-004	6.1295e-006
tblVehicleEF	HHD	4.7840e-003	2.5916e-004
tblVehicleEF	HHD	0.45	0.42
tblVehicleEF	HHD	7.6000e-005	4.1548e-006
tblVehicleEF	HHD	0.09	0.02
tblVehicleEF	HHD	4.0500e-004	1.2682e-003
tblVehicleEF	HHD	0.08	2.8597e-006
tblVehicleEF	HHD	0.04	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.6300e-004	8.4175e-007
tblVehicleEF	HHD	1.0000e-004	6.1295e-006
tblVehicleEF	HHD	4.7840e-003	2.5916e-004
tblVehicleEF	HHD	0.53	0.47
tblVehicleEF	HHD	7.6000e-005	4.1548e-006
tblVehicleEF	HHD	0.20	0.02
tblVehicleEF	HHD	4.0500e-004	1.2682e-003
tblVehicleEF	HHD	0.08	3.1310e-006
tblVehicleEF	LDA	4.8310e-003	2.6488e-003
tblVehicleEF	LDA	4.7360e-003	0.05
tblVehicleEF	LDA	0.61	0.67
tblVehicleEF	LDA	1.04	2.04
tblVehicleEF	LDA	263.16	265.54
tblVehicleEF	LDA	54.94	52.30
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.06	0.17
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003

tblVehicleEF	LDA	2.1170e-003	1.7096e-003
tblVehicleEF	LDA	2.2400e-003	1.7590e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	1.9520e-003	1.5748e-003
tblVehicleEF	LDA	2.0590e-003	1.6174e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	2.6360e-003	2.5944e-003
tblVehicleEF	LDA	5.6700e-004	5.1108e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.07	0.22
tblVehicleEF	LDA	5.1340e-003	2.8292e-003
tblVehicleEF	LDA	4.2110e-003	0.04
tblVehicleEF	LDA	0.67	0.73
tblVehicleEF	LDA	0.89	1.74
tblVehicleEF	LDA	275.40	277.14
tblVehicleEF	LDA	54.94	51.75
tblVehicleEF	LDA	0.04	0.03

tblVehicleEF	LDA	0.06	0.16
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	2.1170e-003	1.7096e-003
tblVehicleEF	LDA	2.2400e-003	1.7590e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	1.9520e-003	1.5748e-003
tblVehicleEF	LDA	2.0590e-003	1.6174e-003
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.19
tblVehicleEF	LDA	0.06	0.18
tblVehicleEF	LDA	2.7590e-003	2.7078e-003
tblVehicleEF	LDA	5.6400e-004	5.0571e-004
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.19
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	4.7330e-003	2.5922e-003
tblVehicleEF	LDA	4.8460e-003	0.05
tblVehicleEF	LDA	0.59	0.64
tblVehicleEF	LDA	1.08	2.10

tblVehicleEF	LDA	258.68	261.25
tblVehicleEF	LDA	54.94	52.42
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.06	0.17
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	2.1170e-003	1.7096e-003
tblVehicleEF	LDA	2.2400e-003	1.7590e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	1.9520e-003	1.5748e-003
tblVehicleEF	LDA	2.0590e-003	1.6174e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	2.5910e-003	2.5525e-003
tblVehicleEF	LDA	5.6700e-004	5.1232e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDT1	0.01	6.7162e-003

tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.52	1.30
tblVehicleEF	LDT1	2.49	2.19
tblVehicleEF	LDT1	330.49	313.30
tblVehicleEF	LDT1	67.47	62.20
tblVehicleEF	LDT1	0.14	0.10
tblVehicleEF	LDT1	0.14	0.24
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	3.3520e-003	2.5018e-003
tblVehicleEF	LDT1	3.2790e-003	2.4475e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	3.0870e-003	2.3022e-003
tblVehicleEF	LDT1	3.0150e-003	2.2505e-003
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.25	0.18
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.16	0.64
tblVehicleEF	LDT1	0.17	0.32
tblVehicleEF	LDT1	3.3240e-003	3.0617e-003
tblVehicleEF	LDT1	7.1800e-004	6.0783e-004
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.25	0.18
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.05	0.04

tblVehicleEF	LDT1	0.16	0.64
tblVehicleEF	LDT1	0.18	0.35
tblVehicleEF	LDT1	0.01	7.1128e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.65	1.41
tblVehicleEF	LDT1	2.11	1.86
tblVehicleEF	LDT1	344.92	325.13
tblVehicleEF	LDT1	67.47	61.56
tblVehicleEF	LDT1	0.12	0.09
tblVehicleEF	LDT1	0.13	0.22
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	3.3520e-003	2.5018e-003
tblVehicleEF	LDT1	3.2790e-003	2.4475e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	3.0870e-003	2.3022e-003
tblVehicleEF	LDT1	3.0150e-003	2.2505e-003
tblVehicleEF	LDT1	0.19	0.18
tblVehicleEF	LDT1	0.26	0.19
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.04	0.03
tblVehicleEF	LDT1	0.15	0.59
tblVehicleEF	LDT1	0.15	0.28
tblVehicleEF	LDT1	3.4700e-003	3.1774e-003
tblVehicleEF	LDT1	7.1200e-004	6.0161e-004
tblVehicleEF	LDT1	0.19	0.18

tblVehicleEF	LDT1	0.26	0.19
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.15	0.59
tblVehicleEF	LDT1	0.16	0.31
tblVehicleEF	LDT1	0.01	6.5898e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.47	1.26
tblVehicleEF	LDT1	2.57	2.26
tblVehicleEF	LDT1	325.20	308.93
tblVehicleEF	LDT1	67.47	62.34
tblVehicleEF	LDT1	0.14	0.10
tblVehicleEF	LDT1	0.15	0.24
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	3.3520e-003	2.5018e-003
tblVehicleEF	LDT1	3.2790e-003	2.4475e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	3.0870e-003	2.3022e-003
tblVehicleEF	LDT1	3.0150e-003	2.2505e-003
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.28	0.20
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.76
tblVehicleEF	LDT1	0.17	0.33

tblVehicleEF	LDT1	3.2700e-003	3.0190e-003
tblVehicleEF	LDT1	7.1900e-004	6.0927e-004
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.28	0.20
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.05	0.04
tblVehicleEF	LDT1	0.19	0.76
tblVehicleEF	LDT1	0.19	0.36
tblVehicleEF	LDT2	6.6130e-003	4.4259e-003
tblVehicleEF	LDT2	5.6850e-003	0.06
tblVehicleEF	LDT2	0.79	0.94
tblVehicleEF	LDT2	1.23	2.55
tblVehicleEF	LDT2	368.32	332.67
tblVehicleEF	LDT2	75.43	66.53
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.09	0.25
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	2.1490e-003	1.8228e-003
tblVehicleEF	LDT2	2.3760e-003	1.8152e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.9770e-003	1.6777e-003
tblVehicleEF	LDT2	2.1840e-003	1.6691e-003
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.09	0.12
tblVehicleEF	LDT2	0.04	0.07

tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.39
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	3.6890e-003	3.2504e-003
tblVehicleEF	LDT2	7.7500e-004	6.5019e-004
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.09	0.12
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.06	0.39
tblVehicleEF	LDT2	0.08	0.31
tblVehicleEF	LDT2	7.0150e-003	4.7109e-003
tblVehicleEF	LDT2	5.0630e-003	0.06
tblVehicleEF	LDT2	0.87	1.03
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tblVehicleEF	LDT2	0.06	0.07
tblVehicleEF	LDT2	0.09	0.24
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	2.1490e-003	1.8228e-003
tblVehicleEF	LDT2	2.3760e-003	1.8152e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.9770e-003	1.6777e-003
tblVehicleEF	LDT2	2.1840e-003	1.6691e-003

tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.36
tblVehicleEF	LDT2	0.07	0.26
tblVehicleEF	LDT2	3.8550e-003	3.3624e-003
tblVehicleEF	LDT2	7.7200e-004	6.4329e-004
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.36
tblVehicleEF	LDT2	0.07	0.28
tblVehicleEF	LDT2	6.4820e-003	4.3362e-003
tblVehicleEF	LDT2	5.8190e-003	0.06
tblVehicleEF	LDT2	0.76	0.91
tblVehicleEF	LDT2	1.27	2.64
tblVehicleEF	LDT2	362.26	328.44
tblVehicleEF	LDT2	75.43	66.69
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.09	0.26
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	2.1490e-003	1.8228e-003
tblVehicleEF	LDT2	2.3760e-003	1.8152e-003
tblVehicleEF	LDT2	0.02	0.02

tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.9770e-003	1.6777e-003
tblVehicleEF	LDT2	2.1840e-003	1.6691e-003
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.46
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	3.6280e-003	3.2090e-003
tblVehicleEF	LDT2	7.7500e-004	6.5178e-004
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.46
tblVehicleEF	LDT2	0.09	0.32
tblVehicleEF	LHD1	5.2860e-003	5.3646e-003
tblVehicleEF	LHD1	0.01	4.9911e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.75	0.57
tblVehicleEF	LHD1	2.58	1.08
tblVehicleEF	LHD1	8.94	8.81
tblVehicleEF	LHD1	595.21	652.98
tblVehicleEF	LHD1	32.17	12.06
tblVehicleEF	LHD1	0.07	0.05

tblVehicleEF	LHD1	0.86	0.55
tblVehicleEF	LHD1	0.95	0.32
tblVehicleEF	LHD1	8.3300e-004	7.8359e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.7291e-003
tblVehicleEF	LHD1	8.8370e-003	5.9884e-003
tblVehicleEF	LHD1	9.4800e-004	2.6819e-004
tblVehicleEF	LHD1	7.9700e-004	7.4969e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5350e-003	2.4323e-003
tblVehicleEF	LHD1	8.4300e-003	5.7009e-003
tblVehicleEF	LHD1	8.7200e-004	2.4659e-004
tblVehicleEF	LHD1	2.9730e-003	2.3517e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8290e-003	1.4551e-003
tblVehicleEF	LHD1	0.06	0.04
tblVehicleEF	LHD1	0.30	0.51
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.0000e-005	8.5605e-005
tblVehicleEF	LHD1	5.8400e-003	6.3743e-003
tblVehicleEF	LHD1	3.7000e-004	1.1931e-004
tblVehicleEF	LHD1	2.9730e-003	2.3517e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8290e-003	1.4551e-003
tblVehicleEF	LHD1	0.07	0.06

tblVehicleEF	LHD1	0.30	0.51
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.2860e-003	5.3761e-003
tblVehicleEF	LHD1	0.01	5.0878e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.76	0.58
tblVehicleEF	LHD1	2.46	1.03
tblVehicleEF	LHD1	8.94	8.81
tblVehicleEF	LHD1	595.21	653.00
tblVehicleEF	LHD1	32.17	11.97
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.81	0.52
tblVehicleEF	LHD1	0.91	0.30
tblVehicleEF	LHD1	8.3300e-004	7.8359e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.7291e-003
tblVehicleEF	LHD1	8.8370e-003	5.9884e-003
tblVehicleEF	LHD1	9.4800e-004	2.6819e-004
tblVehicleEF	LHD1	7.9700e-004	7.4969e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5350e-003	2.4323e-003
tblVehicleEF	LHD1	8.4300e-003	5.7009e-003
tblVehicleEF	LHD1	8.7200e-004	2.4659e-004
tblVehicleEF	LHD1	4.4450e-003	3.4572e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02

tblVehicleEF	LHD1	2.5600e-003	2.0042e-003
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tblVehicleEF	LHD1	0.29	0.50
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.0000e-005	8.5605e-005
tblVehicleEF	LHD1	5.8400e-003	6.3745e-003
tblVehicleEF	LHD1	3.6700e-004	1.1848e-004
tblVehicleEF	LHD1	4.4450e-003	3.4572e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.5600e-003	2.0042e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.29	0.50
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	5.2860e-003	5.3623e-003
tblVehicleEF	LHD1	0.01	4.9648e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.74	0.56
tblVehicleEF	LHD1	2.59	1.09
tblVehicleEF	LHD1	8.94	8.81
tblVehicleEF	LHD1	595.21	652.97
tblVehicleEF	LHD1	32.17	12.07
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.85	0.54
tblVehicleEF	LHD1	0.95	0.32
tblVehicleEF	LHD1	8.3300e-004	7.8359e-004

tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.7291e-003
tblVehicleEF	LHD1	8.8370e-003	5.9884e-003
tblVehicleEF	LHD1	9.4800e-004	2.6819e-004
tblVehicleEF	LHD1	7.9700e-004	7.4969e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5350e-003	2.4323e-003
tblVehicleEF	LHD1	8.4300e-003	5.7009e-003
tblVehicleEF	LHD1	8.7200e-004	2.4659e-004
tblVehicleEF	LHD1	3.1110e-003	2.4634e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7990e-003	1.4332e-003
tblVehicleEF	LHD1	0.06	0.04
tblVehicleEF	LHD1	0.32	0.56
tblVehicleEF	LHD1	0.25	0.07
tblVehicleEF	LHD1	9.0000e-005	8.5605e-005
tblVehicleEF	LHD1	5.8400e-003	6.3742e-003
tblVehicleEF	LHD1	3.7000e-004	1.1947e-004
tblVehicleEF	LHD1	3.1110e-003	2.4634e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7990e-003	1.4332e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.32	0.56
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.7460e-003	3.7399e-003

tblVehicleEF	LHD2	3.7700e-003	3.5361e-003
tblVehicleEF	LHD2	7.4580e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.31	0.39
tblVehicleEF	LHD2	1.26	0.72
tblVehicleEF	LHD2	13.57	13.36
tblVehicleEF	LHD2	610.80	654.07
tblVehicleEF	LHD2	26.97	9.22
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.55	0.71
tblVehicleEF	LHD2	0.50	0.22
tblVehicleEF	LHD2	1.1440e-003	1.2759e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.4330e-003	9.6267e-003
tblVehicleEF	LHD2	4.4100e-004	1.5202e-004
tblVehicleEF	LHD2	1.0950e-003	1.2207e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6630e-003	2.6429e-003
tblVehicleEF	LHD2	8.0540e-003	9.1939e-003
tblVehicleEF	LHD2	4.0500e-004	1.3978e-004
tblVehicleEF	LHD2	1.0290e-003	1.4322e-003
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.8900e-004	9.0786e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.07	0.32

tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	1.3300e-004	1.2803e-004
tblVehicleEF	LHD2	5.9490e-003	6.3286e-003
tblVehicleEF	LHD2	2.9200e-004	9.1193e-005
tblVehicleEF	LHD2	1.0290e-003	1.4322e-003
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.8900e-004	9.0786e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.32
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	3.7460e-003	3.7479e-003
tblVehicleEF	LHD2	3.8180e-003	3.5743e-003
tblVehicleEF	LHD2	7.2080e-003	9.7971e-003
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.31	0.39
tblVehicleEF	LHD2	1.20	0.69
tblVehicleEF	LHD2	13.57	13.36
tblVehicleEF	LHD2	610.80	654.07
tblVehicleEF	LHD2	26.97	9.16
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.52	0.67
tblVehicleEF	LHD2	0.49	0.21
tblVehicleEF	LHD2	1.1440e-003	1.2759e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.4330e-003	9.6267e-003

tblVehicleEF	LHD2	4.4100e-004	1.5202e-004
tblVehicleEF	LHD2	1.0950e-003	1.2207e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6630e-003	2.6429e-003
tblVehicleEF	LHD2	8.0540e-003	9.1939e-003
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tblVehicleEF	LHD2	1.5320e-003	2.1079e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	9.5700e-004	1.2531e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.07	0.30
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	1.3300e-004	1.2803e-004
tblVehicleEF	LHD2	5.9490e-003	6.3287e-003
tblVehicleEF	LHD2	2.9100e-004	9.0638e-005
tblVehicleEF	LHD2	1.5320e-003	2.1079e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	9.5700e-004	1.2531e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.30
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	3.7460e-003	3.7382e-003
tblVehicleEF	LHD2	3.7580e-003	3.5259e-003
tblVehicleEF	LHD2	7.5080e-003	0.01
tblVehicleEF	LHD2	0.13	0.15

tblVehicleEF	LHD2	0.31	0.38
tblVehicleEF	LHD2	1.27	0.72
tblVehicleEF	LHD2	13.57	13.36
tblVehicleEF	LHD2	610.80	654.06
tblVehicleEF	LHD2	26.97	9.23
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.54	0.69
tblVehicleEF	LHD2	0.51	0.22
tblVehicleEF	LHD2	1.1440e-003	1.2759e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.4330e-003	9.6267e-003
tblVehicleEF	LHD2	4.4100e-004	1.5202e-004
tblVehicleEF	LHD2	1.0950e-003	1.2207e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6630e-003	2.6429e-003
tblVehicleEF	LHD2	8.0540e-003	9.1939e-003
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tblVehicleEF	LHD2	1.0410e-003	1.4722e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.6600e-004	8.7944e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.08	0.34
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	1.3300e-004	1.2803e-004
tblVehicleEF	LHD2	5.9490e-003	6.3286e-003

tblVehicleEF	LHD2	2.9200e-004	9.1296e-005
tblVehicleEF	LHD2	1.0410e-003	1.4722e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.6600e-004	8.7944e-004
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tblVehicleEF	LHD2	0.08	0.34
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	MCY	0.54	0.38
tblVehicleEF	MCY	0.15	0.23
tblVehicleEF	MCY	18.72	18.86
tblVehicleEF	MCY	9.68	8.54
tblVehicleEF	MCY	189.29	223.65
tblVehicleEF	MCY	44.13	59.21
tblVehicleEF	MCY	1.13	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.4730e-003	2.4798e-003
tblVehicleEF	MCY	3.6800e-003	3.1545e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	2.3100e-003	2.3160e-003
tblVehicleEF	MCY	3.4590e-003	2.9646e-003
tblVehicleEF	MCY	1.06	1.07
tblVehicleEF	MCY	0.62	0.64
tblVehicleEF	MCY	0.64	0.65

tblVehicleEF	MCY	2.58	2.60
tblVehicleEF	MCY	0.58	1.88
tblVehicleEF	MCY	2.04	1.80
tblVehicleEF	MCY	2.2780e-003	2.2132e-003
tblVehicleEF	MCY	6.5900e-004	5.8591e-004
tblVehicleEF	MCY	1.06	1.07
tblVehicleEF	MCY	0.62	0.64
tblVehicleEF	MCY	0.64	0.65
tblVehicleEF	MCY	3.22	3.23
tblVehicleEF	MCY	0.58	1.88
tblVehicleEF	MCY	2.22	1.96
tblVehicleEF	MCY	0.53	0.37
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	18.05	18.15
tblVehicleEF	MCY	8.84	7.77
tblVehicleEF	MCY	189.29	222.30
tblVehicleEF	MCY	44.13	57.32
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.4730e-003	2.4798e-003
tblVehicleEF	MCY	3.6800e-003	3.1545e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	2.3100e-003	2.3160e-003
tblVehicleEF	MCY	3.4590e-003	2.9646e-003

tblVehicleEF	MCY	1.72	1.71
tblVehicleEF	MCY	0.68	0.69
tblVehicleEF	MCY	1.06	1.05
tblVehicleEF	MCY	2.52	2.54
tblVehicleEF	MCY	0.54	1.76
tblVehicleEF	MCY	1.82	1.60
tblVehicleEF	MCY	2.2650e-003	2.1999e-003
tblVehicleEF	MCY	6.3900e-004	5.6721e-004
tblVehicleEF	MCY	1.72	1.71
tblVehicleEF	MCY	0.68	0.69
tblVehicleEF	MCY	1.06	1.05
tblVehicleEF	MCY	3.15	3.16
tblVehicleEF	MCY	0.54	1.76
tblVehicleEF	MCY	1.98	1.74
tblVehicleEF	MCY	0.54	0.38
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.82	19.00
tblVehicleEF	MCY	9.83	8.69
tblVehicleEF	MCY	189.29	223.92
tblVehicleEF	MCY	44.13	59.59
tblVehicleEF	MCY	1.10	1.10
tblVehicleEF	MCY	0.31	0.27
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.4730e-003	2.4798e-003
tblVehicleEF	MCY	3.6800e-003	3.1545e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003

tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	2.3100e-003	2.3160e-003
tblVehicleEF	MCY	3.4590e-003	2.9646e-003
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tblVehicleEF	MCY	0.61	0.63
tblVehicleEF	MCY	2.59	2.61
tblVehicleEF	MCY	0.67	2.18
tblVehicleEF	MCY	2.08	1.85
tblVehicleEF	MCY	2.2800e-003	2.2159e-003
tblVehicleEF	MCY	6.6300e-004	5.8968e-004
tblVehicleEF	MCY	1.15	1.17
tblVehicleEF	MCY	0.80	0.82
tblVehicleEF	MCY	0.61	0.63
tblVehicleEF	MCY	3.23	3.25
tblVehicleEF	MCY	0.67	2.18
tblVehicleEF	MCY	2.26	2.01
tblVehicleEF	MDV	0.01	5.6774e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.21	1.09
tblVehicleEF	MDV	2.22	2.92
tblVehicleEF	MDV	495.22	408.75
tblVehicleEF	MDV	99.91	80.84
tblVehicleEF	MDV	0.13	0.10
tblVehicleEF	MDV	0.19	0.31
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003

tblVehicleEF	MDV	2.2990e-003	1.9552e-003
tblVehicleEF	MDV	2.4650e-003	1.9340e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	2.1190e-003	1.8024e-003
tblVehicleEF	MDV	2.2660e-003	1.7785e-003
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.15	0.13
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.09	0.41
tblVehicleEF	MDV	0.17	0.36
tblVehicleEF	MDV	4.9590e-003	3.9917e-003
tblVehicleEF	MDV	1.0380e-003	7.9003e-004
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.15	0.13
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.09	0.41
tblVehicleEF	MDV	0.18	0.39
tblVehicleEF	MDV	0.01	6.0286e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.32	1.19
tblVehicleEF	MDV	1.90	2.49
tblVehicleEF	MDV	516.89	420.70
tblVehicleEF	MDV	99.91	80.01
tblVehicleEF	MDV	0.11	0.08

tblVehicleEF	MDV	0.18	0.29
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	2.2990e-003	1.9552e-003
tblVehicleEF	MDV	2.4650e-003	1.9340e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	2.1190e-003	1.8024e-003
tblVehicleEF	MDV	2.2660e-003	1.7785e-003
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.09	0.12
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.08	0.38
tblVehicleEF	MDV	0.15	0.32
tblVehicleEF	MDV	5.1770e-003	4.1085e-003
tblVehicleEF	MDV	1.0320e-003	7.8193e-004
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.09	0.12
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.08	0.38
tblVehicleEF	MDV	0.16	0.35
tblVehicleEF	MDV	0.01	5.5643e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.17	1.05
tblVehicleEF	MDV	2.29	3.02

tblVehicleEF	MDV	487.26	404.33
tblVehicleEF	MDV	99.91	81.03
tblVehicleEF	MDV	0.13	0.09
tblVehicleEF	MDV	0.20	0.31
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	2.2990e-003	1.9552e-003
tblVehicleEF	MDV	2.4650e-003	1.9340e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	2.1190e-003	1.8024e-003
tblVehicleEF	MDV	2.2660e-003	1.7785e-003
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.10	0.48
tblVehicleEF	MDV	0.17	0.37
tblVehicleEF	MDV	4.8790e-003	3.9485e-003
tblVehicleEF	MDV	1.0390e-003	7.9190e-004
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.10	0.48
tblVehicleEF	MDV	0.19	0.40
tblVehicleEF	MH	0.02	2.9973e-003

tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	1.76	0.25
tblVehicleEF	MH	5.23	0.00
tblVehicleEF	MH	1,125.05	953.67
tblVehicleEF	MH	59.88	0.00
tblVehicleEF	MH	1.00	3.27
tblVehicleEF	MH	0.75	0.00
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	1.0430e-003	0.00
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2050e-003	4.0000e-003
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	9.5900e-004	0.00
tblVehicleEF	MH	0.84	0.00
tblVehicleEF	MH	0.06	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.30	0.00
tblVehicleEF	MH	0.01	9.0156e-003
tblVehicleEF	MH	6.9000e-004	0.00
tblVehicleEF	MH	0.84	0.00
tblVehicleEF	MH	0.06	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MH	0.10	0.07

tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	0.02	2.9973e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	1.81	0.25
tblVehicleEF	MH	4.92	0.00
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tblVehicleEF	MH	59.88	0.00
tblVehicleEF	MH	0.92	3.09
tblVehicleEF	MH	0.71	0.00
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	1.0430e-003	0.00
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2050e-003	4.0000e-003
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	9.5900e-004	0.00
tblVehicleEF	MH	1.24	0.00
tblVehicleEF	MH	0.06	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.29	0.00
tblVehicleEF	MH	0.01	9.0156e-003
tblVehicleEF	MH	6.8400e-004	0.00
tblVehicleEF	MH	1.24	0.00

tblVehicleEF	MH	0.06	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	0.02	2.9973e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	1.75	0.25
tblVehicleEF	MH	5.28	0.00
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tblVehicleEF	MH	0.98	3.21
tblVehicleEF	MH	0.75	0.00
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	1.0430e-003	0.00
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2050e-003	4.0000e-003
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	9.5900e-004	0.00
tblVehicleEF	MH	0.95	0.00
tblVehicleEF	MH	0.07	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.30	0.00

tblVehicleEF	MH	0.01	9.0156e-003
tblVehicleEF	MH	6.9000e-004	0.00
tblVehicleEF	MH	0.95	0.00
tblVehicleEF	MH	0.07	0.00
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tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.33	0.00
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tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	2.8420e-003	6.1299e-003
tblVehicleEF	MHD	8.1400e-004	1.3466e-004
tblVehicleEF	MHD	9.7000e-005	3.1218e-004
tblVehicleEF	MHD	0.06	0.06

tblVehicleEF	MHD	3.0000e-003	3.0000e-003
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tblVehicleEF	MHD	1.0540e-003	6.2271e-004
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tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	7.0500e-004	4.1013e-004
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tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.34	0.06
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tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.0500e-004	4.1013e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.14
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tblVehicleEF	MHD	0.32	0.28
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tblVehicleEF	MHD	138.27	64.73

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tblVehicleEF	MHD	0.71	1.02
tblVehicleEF	MHD	9.94	1.58
tblVehicleEF	MHD	8.6000e-005	2.7779e-004
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tblVehicleEF	MHD	0.01	0.01
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tblVehicleEF	MHD	8.2000e-005	2.6577e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0000e-003	3.0000e-003
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tblVehicleEF	MHD	1.5770e-003	9.2475e-004
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tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	9.9000e-004	5.7330e-004
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tblVehicleEF	MHD	0.02	0.13
tblVehicleEF	MHD	0.33	0.06
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tblVehicleEF	MHD	7.2200e-004	1.1815e-004
tblVehicleEF	MHD	1.5770e-003	9.2475e-004
tblVehicleEF	MHD	0.05	0.03

tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	9.9000e-004	5.7330e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.13
tblVehicleEF	MHD	0.36	0.07
tblVehicleEF	MHD	0.02	4.7556e-003
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tblVehicleEF	MHD	0.50	0.49
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tblVehicleEF	MHD	119.87	64.55
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tblVehicleEF	MHD	1.2400e-004	3.9328e-004
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tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	2.8420e-003	6.1299e-003
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tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0000e-003	3.0000e-003
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tblVehicleEF	OBUS	1,246.68	1,355.70
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tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	2.6330e-003	7.0871e-003
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tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
tblVehicleEF	OBUS	2.5030e-003	6.7657e-003
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tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03

tblVehicleEF	SBUS	8.5300e-004	6.0241e-005
tblVehicleEF	SBUS	6.5460e-003	2.9000e-003
tblVehicleEF	SBUS	0.32	0.32
tblVehicleEF	SBUS	2.6580e-003	2.6525e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	7.8400e-004	5.5389e-005
tblVehicleEF	SBUS	4.9610e-003	1.4874e-003
tblVehicleEF	SBUS	0.03	9.1168e-003
tblVehicleEF	SBUS	0.98	0.36
tblVehicleEF	SBUS	2.5750e-003	7.7378e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.34	0.04
tblVehicleEF	SBUS	0.01	3.4522e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.6600e-004	5.6163e-005
tblVehicleEF	SBUS	4.9610e-003	1.4874e-003
tblVehicleEF	SBUS	0.03	9.1168e-003
tblVehicleEF	SBUS	1.42	0.52
tblVehicleEF	SBUS	2.5750e-003	7.7378e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.37	0.04
tblVehicleEF	SBUS	0.84	0.08
tblVehicleEF	SBUS	0.01	6.6841e-003
tblVehicleEF	SBUS	0.06	7.2391e-003
tblVehicleEF	SBUS	8.43	3.19

tblVehicleEF	SBUS	0.66	0.57
tblVehicleEF	SBUS	7.40	1.00
tblVehicleEF	SBUS	1,037.46	344.71
tblVehicleEF	SBUS	1,070.53	1,085.99
tblVehicleEF	SBUS	56.44	6.03
tblVehicleEF	SBUS	8.13	2.95
tblVehicleEF	SBUS	3.74	4.30
tblVehicleEF	SBUS	11.85	0.96
tblVehicleEF	SBUS	9.8760e-003	4.3531e-003
tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	8.5300e-004	6.0241e-005
tblVehicleEF	SBUS	9.4480e-003	4.1648e-003
tblVehicleEF	SBUS	0.32	0.32
tblVehicleEF	SBUS	2.6580e-003	2.6525e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	7.8400e-004	5.5389e-005
tblVehicleEF	SBUS	3.3940e-003	1.0334e-003
tblVehicleEF	SBUS	0.03	9.3494e-003
tblVehicleEF	SBUS	0.99	0.36
tblVehicleEF	SBUS	1.7490e-003	5.3556e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.39	0.04
tblVehicleEF	SBUS	0.01	3.2934e-003
tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	6.9200e-004	5.9658e-005
tblVehicleEF	SBUS	3.3940e-003	1.0334e-003
tblVehicleEF	SBUS	0.03	9.3494e-003
tblVehicleEF	SBUS	1.43	0.52
tblVehicleEF	SBUS	1.7490e-003	5.3556e-004
tblVehicleEF	SBUS	0.12	0.10
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.42	0.05
tblVehicleEF	UBUS	2.44	5.85
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	10.68	45.42
tblVehicleEF	UBUS	8.84	0.71
tblVehicleEF	UBUS	1,951.45	1,987.99
tblVehicleEF	UBUS	100.38	8.42
tblVehicleEF	UBUS	9.33	0.47
tblVehicleEF	UBUS	15.09	0.08
tblVehicleEF	UBUS	0.60	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.12	3.2067e-003
tblVehicleEF	UBUS	1.1360e-003	5.6569e-005
tblVehicleEF	UBUS	0.26	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9689e-003
tblVehicleEF	UBUS	0.12	3.0642e-003
tblVehicleEF	UBUS	1.0450e-003	5.2013e-005
tblVehicleEF	UBUS	4.1100e-003	5.9331e-004
tblVehicleEF	UBUS	0.07	7.4130e-003
tblVehicleEF	UBUS	2.4100e-003	4.3392e-004

tblVehicleEF	UBUS	0.79	0.09
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.68	0.05
tblVehicleEF	UBUS	9.8060e-003	1.4048e-003
tblVehicleEF	UBUS	1.1630e-003	8.3318e-005
tblVehicleEF	UBUS	4.1100e-003	5.9331e-004
tblVehicleEF	UBUS	0.07	7.4130e-003
tblVehicleEF	UBUS	2.4100e-003	4.3392e-004
tblVehicleEF	UBUS	3.32	5.97
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.75	0.05
tblVehicleEF	UBUS	2.44	5.85
tblVehicleEF	UBUS	0.05	9.9367e-003
tblVehicleEF	UBUS	10.72	45.42
tblVehicleEF	UBUS	7.66	0.63
tblVehicleEF	UBUS	1,951.45	1,987.99
tblVehicleEF	UBUS	100.38	8.27
tblVehicleEF	UBUS	8.79	0.47
tblVehicleEF	UBUS	15.04	0.08
tblVehicleEF	UBUS	0.60	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.12	3.2067e-003
tblVehicleEF	UBUS	1.1360e-003	5.6569e-005
tblVehicleEF	UBUS	0.26	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9689e-003
tblVehicleEF	UBUS	0.12	3.0642e-003
tblVehicleEF	UBUS	1.0450e-003	5.2013e-005

tblVehicleEF	UBUS	5.8640e-003	8.6079e-004
tblVehicleEF	UBUS	0.07	7.6581e-003
tblVehicleEF	UBUS	3.3120e-003	5.9984e-004
tblVehicleEF	UBUS	0.80	0.09
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	0.63	0.04
tblVehicleEF	UBUS	9.8070e-003	1.4048e-003
tblVehicleEF	UBUS	1.1430e-003	8.1863e-005
tblVehicleEF	UBUS	5.8640e-003	8.6079e-004
tblVehicleEF	UBUS	0.07	7.6581e-003
tblVehicleEF	UBUS	3.3120e-003	5.9984e-004
tblVehicleEF	UBUS	3.33	5.97
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	0.69	0.05
tblVehicleEF	UBUS	2.44	5.85
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	10.66	45.42
tblVehicleEF	UBUS	9.05	0.73
tblVehicleEF	UBUS	1,951.45	1,987.99
tblVehicleEF	UBUS	100.38	8.45
tblVehicleEF	UBUS	9.15	0.47
tblVehicleEF	UBUS	15.10	0.08
tblVehicleEF	UBUS	0.60	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.12	3.2067e-003
tblVehicleEF	UBUS	1.1360e-003	5.6569e-005
tblVehicleEF	UBUS	0.26	0.03

tblVehicleEF	UBUS	3.0000e-003	7.9689e-003
tblVehicleEF	UBUS	0.12	3.0642e-003
tblVehicleEF	UBUS	1.0450e-003	5.2013e-005
tblVehicleEF	UBUS	4.6290e-003	5.8312e-004
tblVehicleEF	UBUS	0.08	7.9413e-003
tblVehicleEF	UBUS	2.5090e-003	4.1273e-004
tblVehicleEF	UBUS	0.79	0.09
tblVehicleEF	UBUS	0.03	0.06
tblVehicleEF	UBUS	0.70	0.05
tblVehicleEF	UBUS	9.8060e-003	1.4048e-003
tblVehicleEF	UBUS	1.1670e-003	8.3611e-005
tblVehicleEF	UBUS	4.6290e-003	5.8312e-004
tblVehicleEF	UBUS	0.08	7.9413e-003
tblVehicleEF	UBUS	2.5090e-003	4.1273e-004
tblVehicleEF	UBUS	3.31	5.97
tblVehicleEF	UBUS	0.03	0.06
tblVehicleEF	UBUS	0.76	0.05
tblVehicleTrips	ST_TR	177.59	177.62
tblVehicleTrips	SU_TR	166.44	166.47
tblVehicleTrips	WD_TR	102.24	106.78
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	1,121,740.76	1,047,779.83
tblWater	OutdoorWaterUseRate	34,693.01	32,405.56
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	2.1860	20.9889	15.2265	0.0256	0.1453	1.1537	1.2990	0.0385	1.0773	1.1158	0.0000	2,475.2073	2,475.2073	0.6018	0.0000	2,490.2515
Maximum	2.1860	20.9889	15.2265	0.0256	0.1453	1.1537	1.2990	0.0385	1.0773	1.1158	0.0000	2,475.2073	2,475.2073	0.6018	0.0000	2,490.2515

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.2034	1.0000e-005	1.0600e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.2800e-003	2.2800e-003	1.0000e-005		2.4300e-003
Energy	6.2700e-003	0.0570	0.0479	3.4000e-004		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003		68.3710	68.3710	1.3100e-003	1.2500e-003	68.7773
Mobile	3.1867	3.9324	20.8865	0.0496	4.5211	0.0404	4.5614	1.2075	0.0376	1.2451		5,185.2340	5,185.2340	0.4355		5,196.1226
Total	3.3964	3.9894	20.9355	0.0500	4.5211	0.0447	4.5658	1.2075	0.0419	1.2495		5,253.6073	5,253.6073	0.4369	1.2500e-003	5,264.9023

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.2034	1.0000e-005	1.0600e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.2800e-003	2.2800e-003	1.0000e-005		2.4300e-003
Energy	6.2700e-003	0.0570	0.0479	3.4000e-004		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003		68.3710	68.3710	1.3100e-003	1.2500e-003	68.7773
Mobile	3.1867	3.9324	20.8865	0.0496	4.5211	0.0404	4.5614	1.2075	0.0376	1.2451		5,185.2340	5,185.2340	0.4355		5,196.1226
Total	3.3964	3.9894	20.9355	0.0500	4.5211	0.0447	4.5658	1.2075	0.0419	1.2495		5,253.6073	5,253.6073	0.4369	1.2500e-003	5,264.9023

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	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

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	lb/day										lb/day					
Mitigated	3.1867	3.9324	20.8865	0.0496	4.5211	0.0404	4.5614	1.2075	0.0376	1.2451		5,185.2340	5,185.2340	0.4355		5,196.1226
Unmitigated	3.1867	3.9324	20.8865	0.0496	4.5211	0.0404	4.5614	1.2075	0.0376	1.2451		5,185.2340	5,185.2340	0.4355		5,196.1226

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Supermarket	971.70	1,616.34	1514.88	1,506,027	1,506,027
Total	971.70	1,616.34	1,514.88	1,506,027	1,506,027

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Supermarket	16.60	8.40	6.90	6.50	74.50	19.00	34	30	36

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Supermarket	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	6.2700e-003	0.0570	0.0479	3.4000e-004		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003		68.3710	68.3710	1.3100e-003	1.2500e-003	68.7773
NaturalGas Unmitigated	6.2700e-003	0.0570	0.0479	3.4000e-004		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003		68.3710	68.3710	1.3100e-003	1.2500e-003	68.7773

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas 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	lb/day										lb/day					
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
Supermarket	581.153	6.2700e-003	0.0570	0.0479	3.4000e-004		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003		68.3710	68.3710	1.3100e-003	1.2500e-003	68.7773
Total		6.2700e-003	0.0570	0.0479	3.4000e-004		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003		68.3710	68.3710	1.3100e-003	1.2500e-003	68.7773

Mitigated

	NaturalGas 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	lb/day										lb/day					
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
Supermarket	0.581153	6.2700e-003	0.0570	0.0479	3.4000e-004		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003		68.3710	68.3710	1.3100e-003	1.2500e-003	68.7773
Total		6.2700e-003	0.0570	0.0479	3.4000e-004		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003		68.3710	68.3710	1.3100e-003	1.2500e-003	68.7773

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2034	1.0000e-005	1.0600e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.2800e-003	2.2800e-003	1.0000e-005		2.4300e-003
Unmitigated	0.2034	1.0000e-005	1.0600e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.2800e-003	2.2800e-003	1.0000e-005		2.4300e-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	lb/day										lb/day					
Architectural Coating	0.0231					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1802					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-004	1.0000e-005	1.0600e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.2800e-003	2.2800e-003	1.0000e-005		2.4300e-003
Total	0.2034	1.0000e-005	1.0600e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.2800e-003	2.2800e-003	1.0000e-005		2.4300e-003

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0231					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1802					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-004	1.0000e-005	1.0600e-003	0.0000		0.0000	0.0000		0.0000	0.0000			2.2800e-003	2.2800e-003	1.0000e-005	2.4300e-003
Total	0.2034	1.0000e-005	1.0600e-003	0.0000		0.0000	0.0000		0.0000	0.0000			2.2800e-003	2.2800e-003	1.0000e-005	2.4300e-003

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

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

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

Equipment Type	Number
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11.0 Vegetation

Existing_Year 2023 - Los Angeles-South Coast County, Winter

Existing_Year 2023
Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	1.31	Acre	1.31	0.00	0
Supermarket	9.10	1000sqft	0.28	9,100.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	531.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - See assumptions file.

Land Use - See assumptions file.

Construction Phase -

Vehicle Trips - See assumptions file

Area Coating - Assumes no striping

Energy Use -

Water And Wastewater - Assumes 100% aerobic.

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	57,063.60	0.00
tblLandUse	LotAcreage	0.21	0.28
tblProjectCharacteristics	CO2IntensityFactor	702.44	531.44
tblSolidWaste	SolidWasteGenerationRate	51.32	47.94
tblVehicleEF	HHD	0.48	0.03
tblVehicleEF	HHD	0.09	0.08
tblVehicleEF	HHD	0.07	5.3770e-007
tblVehicleEF	HHD	1.63	6.71
tblVehicleEF	HHD	1.06	0.46
tblVehicleEF	HHD	3.33	9.5442e-003
tblVehicleEF	HHD	4,465.78	1,125.75
tblVehicleEF	HHD	1,572.96	1,398.54
tblVehicleEF	HHD	10.75	0.08
tblVehicleEF	HHD	14.30	5.75
tblVehicleEF	HHD	2.12	2.71
tblVehicleEF	HHD	19.50	2.35
tblVehicleEF	HHD	0.01	3.1921e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.2960e-003	0.02
tblVehicleEF	HHD	9.1000e-005	1.3513e-006
tblVehicleEF	HHD	9.6000e-003	3.0540e-003
tblVehicleEF	HHD	0.03	0.03

tblVehicleEF	HHD	8.8400e-003	8.8984e-003
tblVehicleEF	HHD	6.0240e-003	0.02
tblVehicleEF	HHD	8.3000e-005	1.2425e-006
tblVehicleEF	HHD	1.0300e-004	5.8985e-006
tblVehicleEF	HHD	4.5010e-003	2.2896e-004
tblVehicleEF	HHD	0.41	0.45
tblVehicleEF	HHD	7.8000e-005	4.1733e-006
tblVehicleEF	HHD	0.09	0.02
tblVehicleEF	HHD	3.7200e-004	1.1922e-003
tblVehicleEF	HHD	0.08	2.8340e-006
tblVehicleEF	HHD	0.04	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.6200e-004	8.4026e-007
tblVehicleEF	HHD	1.0300e-004	5.8985e-006
tblVehicleEF	HHD	4.5010e-003	2.2896e-004
tblVehicleEF	HHD	0.49	0.52
tblVehicleEF	HHD	7.8000e-005	4.1733e-006
tblVehicleEF	HHD	0.20	0.11
tblVehicleEF	HHD	3.7200e-004	1.1922e-003
tblVehicleEF	HHD	0.08	3.1029e-006
tblVehicleEF	HHD	0.45	0.03
tblVehicleEF	HHD	0.09	0.08
tblVehicleEF	HHD	0.07	5.1512e-007
tblVehicleEF	HHD	1.19	6.61
tblVehicleEF	HHD	1.07	0.46
tblVehicleEF	HHD	3.16	9.0653e-003
tblVehicleEF	HHD	4,731.10	1,113.07

tblVehicleEF	HHD	1,572.96	1,398.54
tblVehicleEF	HHD	10.75	0.08
tblVehicleEF	HHD	14.76	5.50
tblVehicleEF	HHD	2.01	2.56
tblVehicleEF	HHD	19.49	2.35
tblVehicleEF	HHD	8.4600e-003	2.7790e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.2960e-003	0.02
tblVehicleEF	HHD	9.1000e-005	1.3513e-006
tblVehicleEF	HHD	8.0940e-003	2.6588e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8400e-003	8.8984e-003
tblVehicleEF	HHD	6.0240e-003	0.02
tblVehicleEF	HHD	8.3000e-005	1.2425e-006
tblVehicleEF	HHD	1.5600e-004	9.2271e-006
tblVehicleEF	HHD	4.6140e-003	2.3361e-004
tblVehicleEF	HHD	0.39	0.48
tblVehicleEF	HHD	1.1200e-004	6.2951e-006
tblVehicleEF	HHD	0.09	0.02
tblVehicleEF	HHD	3.6000e-004	1.1727e-003
tblVehicleEF	HHD	0.07	2.7227e-006
tblVehicleEF	HHD	0.04	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.5900e-004	8.3274e-007
tblVehicleEF	HHD	1.5600e-004	9.2271e-006
tblVehicleEF	HHD	4.6140e-003	2.3361e-004

tblVehicleEF	HHD	0.46	0.55
tblVehicleEF	HHD	1.1200e-004	6.2951e-006
tblVehicleEF	HHD	0.20	0.11
tblVehicleEF	HHD	3.6000e-004	1.1727e-003
tblVehicleEF	HHD	0.08	2.9810e-006
tblVehicleEF	HHD	0.52	0.02
tblVehicleEF	HHD	0.09	9.8236e-004
tblVehicleEF	HHD	0.07	5.4302e-007
tblVehicleEF	HHD	2.25	6.74
tblVehicleEF	HHD	1.06	0.24
tblVehicleEF	HHD	3.36	9.6392e-003
tblVehicleEF	HHD	4,099.40	1,124.17
tblVehicleEF	HHD	1,572.96	1,344.43
tblVehicleEF	HHD	10.75	0.09
tblVehicleEF	HHD	13.67	5.98
tblVehicleEF	HHD	2.09	2.62
tblVehicleEF	HHD	19.50	2.35
tblVehicleEF	HHD	0.01	3.5325e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.2960e-003	0.02
tblVehicleEF	HHD	9.1000e-005	1.3513e-006
tblVehicleEF	HHD	0.01	3.3797e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8400e-003	8.7534e-003
tblVehicleEF	HHD	6.0240e-003	0.02
tblVehicleEF	HHD	8.3000e-005	1.2425e-006

tblVehicleEF	HHD	1.0000e-004	6.1295e-006
tblVehicleEF	HHD	4.7840e-003	2.5916e-004
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tblVehicleEF	HHD	7.6000e-005	4.1548e-006
tblVehicleEF	HHD	0.09	0.02
tblVehicleEF	HHD	4.0500e-004	1.2682e-003
tblVehicleEF	HHD	0.08	2.8597e-006
tblVehicleEF	HHD	0.04	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.6300e-004	8.4175e-007
tblVehicleEF	HHD	1.0000e-004	6.1295e-006
tblVehicleEF	HHD	4.7840e-003	2.5916e-004
tblVehicleEF	HHD	0.53	0.47
tblVehicleEF	HHD	7.6000e-005	4.1548e-006
tblVehicleEF	HHD	0.20	0.02
tblVehicleEF	HHD	4.0500e-004	1.2682e-003
tblVehicleEF	HHD	0.08	3.1310e-006
tblVehicleEF	LDA	4.8310e-003	2.6488e-003
tblVehicleEF	LDA	4.7360e-003	0.05
tblVehicleEF	LDA	0.61	0.67
tblVehicleEF	LDA	1.04	2.04
tblVehicleEF	LDA	263.16	265.54
tblVehicleEF	LDA	54.94	52.30
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.06	0.17
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003

tblVehicleEF	LDA	2.1170e-003	1.7096e-003
tblVehicleEF	LDA	2.2400e-003	1.7590e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	1.9520e-003	1.5748e-003
tblVehicleEF	LDA	2.0590e-003	1.6174e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	2.6360e-003	2.5944e-003
tblVehicleEF	LDA	5.6700e-004	5.1108e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.07	0.22
tblVehicleEF	LDA	5.1340e-003	2.8292e-003
tblVehicleEF	LDA	4.2110e-003	0.04
tblVehicleEF	LDA	0.67	0.73
tblVehicleEF	LDA	0.89	1.74
tblVehicleEF	LDA	275.40	277.14
tblVehicleEF	LDA	54.94	51.75
tblVehicleEF	LDA	0.04	0.03

tblVehicleEF	LDA	0.06	0.16
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	2.1170e-003	1.7096e-003
tblVehicleEF	LDA	2.2400e-003	1.7590e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	1.9520e-003	1.5748e-003
tblVehicleEF	LDA	2.0590e-003	1.6174e-003
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.19
tblVehicleEF	LDA	0.06	0.18
tblVehicleEF	LDA	2.7590e-003	2.7078e-003
tblVehicleEF	LDA	5.6400e-004	5.0571e-004
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.19
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	4.7330e-003	2.5922e-003
tblVehicleEF	LDA	4.8460e-003	0.05
tblVehicleEF	LDA	0.59	0.64
tblVehicleEF	LDA	1.08	2.10

tblVehicleEF	LDA	258.68	261.25
tblVehicleEF	LDA	54.94	52.42
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.06	0.17
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	2.1170e-003	1.7096e-003
tblVehicleEF	LDA	2.2400e-003	1.7590e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	1.9520e-003	1.5748e-003
tblVehicleEF	LDA	2.0590e-003	1.6174e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	2.5910e-003	2.5525e-003
tblVehicleEF	LDA	5.6700e-004	5.1232e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDT1	0.01	6.7162e-003

tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.52	1.30
tblVehicleEF	LDT1	2.49	2.19
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tblVehicleEF	LDT1	67.47	62.20
tblVehicleEF	LDT1	0.14	0.10
tblVehicleEF	LDT1	0.14	0.24
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	3.3520e-003	2.5018e-003
tblVehicleEF	LDT1	3.2790e-003	2.4475e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	3.0870e-003	2.3022e-003
tblVehicleEF	LDT1	3.0150e-003	2.2505e-003
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.25	0.18
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.16	0.64
tblVehicleEF	LDT1	0.17	0.32
tblVehicleEF	LDT1	3.3240e-003	3.0617e-003
tblVehicleEF	LDT1	7.1800e-004	6.0783e-004
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.25	0.18
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.05	0.04

tblVehicleEF	LDT1	0.16	0.64
tblVehicleEF	LDT1	0.18	0.35
tblVehicleEF	LDT1	0.01	7.1128e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.65	1.41
tblVehicleEF	LDT1	2.11	1.86
tblVehicleEF	LDT1	344.92	325.13
tblVehicleEF	LDT1	67.47	61.56
tblVehicleEF	LDT1	0.12	0.09
tblVehicleEF	LDT1	0.13	0.22
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	3.3520e-003	2.5018e-003
tblVehicleEF	LDT1	3.2790e-003	2.4475e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	3.0870e-003	2.3022e-003
tblVehicleEF	LDT1	3.0150e-003	2.2505e-003
tblVehicleEF	LDT1	0.19	0.18
tblVehicleEF	LDT1	0.26	0.19
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.04	0.03
tblVehicleEF	LDT1	0.15	0.59
tblVehicleEF	LDT1	0.15	0.28
tblVehicleEF	LDT1	3.4700e-003	3.1774e-003
tblVehicleEF	LDT1	7.1200e-004	6.0161e-004
tblVehicleEF	LDT1	0.19	0.18

tblVehicleEF	LDT1	0.26	0.19
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.15	0.59
tblVehicleEF	LDT1	0.16	0.31
tblVehicleEF	LDT1	0.01	6.5898e-003
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tblVehicleEF	LDT1	325.20	308.93
tblVehicleEF	LDT1	67.47	62.34
tblVehicleEF	LDT1	0.14	0.10
tblVehicleEF	LDT1	0.15	0.24
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	3.3520e-003	2.5018e-003
tblVehicleEF	LDT1	3.2790e-003	2.4475e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	3.0870e-003	2.3022e-003
tblVehicleEF	LDT1	3.0150e-003	2.2505e-003
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.28	0.20
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.76
tblVehicleEF	LDT1	0.17	0.33

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tblVehicleEF	LDT1	7.1900e-004	6.0927e-004
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tblVehicleEF	LDT1	0.28	0.20
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.05	0.04
tblVehicleEF	LDT1	0.19	0.76
tblVehicleEF	LDT1	0.19	0.36
tblVehicleEF	LDT2	6.6130e-003	4.4259e-003
tblVehicleEF	LDT2	5.6850e-003	0.06
tblVehicleEF	LDT2	0.79	0.94
tblVehicleEF	LDT2	1.23	2.55
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tblVehicleEF	LDT2	75.43	66.53
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.09	0.25
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	2.1490e-003	1.8228e-003
tblVehicleEF	LDT2	2.3760e-003	1.8152e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.9770e-003	1.6777e-003
tblVehicleEF	LDT2	2.1840e-003	1.6691e-003
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.09	0.12
tblVehicleEF	LDT2	0.04	0.07

tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.39
tblVehicleEF	LDT2	0.08	0.29
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tblVehicleEF	LDT2	7.7500e-004	6.5019e-004
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tblVehicleEF	LDT2	0.09	0.12
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.06	0.39
tblVehicleEF	LDT2	0.08	0.31
tblVehicleEF	LDT2	7.0150e-003	4.7109e-003
tblVehicleEF	LDT2	5.0630e-003	0.06
tblVehicleEF	LDT2	0.87	1.03
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tblVehicleEF	LDT2	0.06	0.07
tblVehicleEF	LDT2	0.09	0.24
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	2.1490e-003	1.8228e-003
tblVehicleEF	LDT2	2.3760e-003	1.8152e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.9770e-003	1.6777e-003
tblVehicleEF	LDT2	2.1840e-003	1.6691e-003

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tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.36
tblVehicleEF	LDT2	0.07	0.26
tblVehicleEF	LDT2	3.8550e-003	3.3624e-003
tblVehicleEF	LDT2	7.7200e-004	6.4329e-004
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.36
tblVehicleEF	LDT2	0.07	0.28
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tblVehicleEF	LDT2	5.8190e-003	0.06
tblVehicleEF	LDT2	0.76	0.91
tblVehicleEF	LDT2	1.27	2.64
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tblVehicleEF	LDT2	75.43	66.69
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.09	0.26
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	2.1490e-003	1.8228e-003
tblVehicleEF	LDT2	2.3760e-003	1.8152e-003
tblVehicleEF	LDT2	0.02	0.02

tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.9770e-003	1.6777e-003
tblVehicleEF	LDT2	2.1840e-003	1.6691e-003
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.46
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	3.6280e-003	3.2090e-003
tblVehicleEF	LDT2	7.7500e-004	6.5178e-004
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.46
tblVehicleEF	LDT2	0.09	0.32
tblVehicleEF	LHD1	5.2860e-003	5.3646e-003
tblVehicleEF	LHD1	0.01	4.9911e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.75	0.57
tblVehicleEF	LHD1	2.58	1.08
tblVehicleEF	LHD1	8.94	8.81
tblVehicleEF	LHD1	595.21	652.98
tblVehicleEF	LHD1	32.17	12.06
tblVehicleEF	LHD1	0.07	0.05

tblVehicleEF	LHD1	0.86	0.55
tblVehicleEF	LHD1	0.95	0.32
tblVehicleEF	LHD1	8.3300e-004	7.8359e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.7291e-003
tblVehicleEF	LHD1	8.8370e-003	5.9884e-003
tblVehicleEF	LHD1	9.4800e-004	2.6819e-004
tblVehicleEF	LHD1	7.9700e-004	7.4969e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5350e-003	2.4323e-003
tblVehicleEF	LHD1	8.4300e-003	5.7009e-003
tblVehicleEF	LHD1	8.7200e-004	2.4659e-004
tblVehicleEF	LHD1	2.9730e-003	2.3517e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8290e-003	1.4551e-003
tblVehicleEF	LHD1	0.06	0.04
tblVehicleEF	LHD1	0.30	0.51
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.0000e-005	8.5605e-005
tblVehicleEF	LHD1	5.8400e-003	6.3743e-003
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tblVehicleEF	LHD1	2.9730e-003	2.3517e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8290e-003	1.4551e-003
tblVehicleEF	LHD1	0.07	0.06

tblVehicleEF	LHD1	0.30	0.51
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.2860e-003	5.3761e-003
tblVehicleEF	LHD1	0.01	5.0878e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.76	0.58
tblVehicleEF	LHD1	2.46	1.03
tblVehicleEF	LHD1	8.94	8.81
tblVehicleEF	LHD1	595.21	653.00
tblVehicleEF	LHD1	32.17	11.97
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.81	0.52
tblVehicleEF	LHD1	0.91	0.30
tblVehicleEF	LHD1	8.3300e-004	7.8359e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.7291e-003
tblVehicleEF	LHD1	8.8370e-003	5.9884e-003
tblVehicleEF	LHD1	9.4800e-004	2.6819e-004
tblVehicleEF	LHD1	7.9700e-004	7.4969e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5350e-003	2.4323e-003
tblVehicleEF	LHD1	8.4300e-003	5.7009e-003
tblVehicleEF	LHD1	8.7200e-004	2.4659e-004
tblVehicleEF	LHD1	4.4450e-003	3.4572e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02

tblVehicleEF	LHD1	2.5600e-003	2.0042e-003
tblVehicleEF	LHD1	0.06	0.05
tblVehicleEF	LHD1	0.29	0.50
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.0000e-005	8.5605e-005
tblVehicleEF	LHD1	5.8400e-003	6.3745e-003
tblVehicleEF	LHD1	3.6700e-004	1.1848e-004
tblVehicleEF	LHD1	4.4450e-003	3.4572e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.5600e-003	2.0042e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.29	0.50
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	5.2860e-003	5.3623e-003
tblVehicleEF	LHD1	0.01	4.9648e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.74	0.56
tblVehicleEF	LHD1	2.59	1.09
tblVehicleEF	LHD1	8.94	8.81
tblVehicleEF	LHD1	595.21	652.97
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tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.85	0.54
tblVehicleEF	LHD1	0.95	0.32
tblVehicleEF	LHD1	8.3300e-004	7.8359e-004

tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.7291e-003
tblVehicleEF	LHD1	8.8370e-003	5.9884e-003
tblVehicleEF	LHD1	9.4800e-004	2.6819e-004
tblVehicleEF	LHD1	7.9700e-004	7.4969e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5350e-003	2.4323e-003
tblVehicleEF	LHD1	8.4300e-003	5.7009e-003
tblVehicleEF	LHD1	8.7200e-004	2.4659e-004
tblVehicleEF	LHD1	3.1110e-003	2.4634e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7990e-003	1.4332e-003
tblVehicleEF	LHD1	0.06	0.04
tblVehicleEF	LHD1	0.32	0.56
tblVehicleEF	LHD1	0.25	0.07
tblVehicleEF	LHD1	9.0000e-005	8.5605e-005
tblVehicleEF	LHD1	5.8400e-003	6.3742e-003
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tblVehicleEF	LHD1	3.1110e-003	2.4634e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7990e-003	1.4332e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.32	0.56
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.7460e-003	3.7399e-003

tblVehicleEF	LHD2	3.7700e-003	3.5361e-003
tblVehicleEF	LHD2	7.4580e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.31	0.39
tblVehicleEF	LHD2	1.26	0.72
tblVehicleEF	LHD2	13.57	13.36
tblVehicleEF	LHD2	610.80	654.07
tblVehicleEF	LHD2	26.97	9.22
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.55	0.71
tblVehicleEF	LHD2	0.50	0.22
tblVehicleEF	LHD2	1.1440e-003	1.2759e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.4330e-003	9.6267e-003
tblVehicleEF	LHD2	4.4100e-004	1.5202e-004
tblVehicleEF	LHD2	1.0950e-003	1.2207e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6630e-003	2.6429e-003
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tblVehicleEF	LHD2	4.0500e-004	1.3978e-004
tblVehicleEF	LHD2	1.0290e-003	1.4322e-003
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.8900e-004	9.0786e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.07	0.32

tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	1.3300e-004	1.2803e-004
tblVehicleEF	LHD2	5.9490e-003	6.3286e-003
tblVehicleEF	LHD2	2.9200e-004	9.1193e-005
tblVehicleEF	LHD2	1.0290e-003	1.4322e-003
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.8900e-004	9.0786e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.32
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	3.7460e-003	3.7479e-003
tblVehicleEF	LHD2	3.8180e-003	3.5743e-003
tblVehicleEF	LHD2	7.2080e-003	9.7971e-003
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.31	0.39
tblVehicleEF	LHD2	1.20	0.69
tblVehicleEF	LHD2	13.57	13.36
tblVehicleEF	LHD2	610.80	654.07
tblVehicleEF	LHD2	26.97	9.16
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.52	0.67
tblVehicleEF	LHD2	0.49	0.21
tblVehicleEF	LHD2	1.1440e-003	1.2759e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.4330e-003	9.6267e-003

tblVehicleEF	LHD2	4.4100e-004	1.5202e-004
tblVehicleEF	LHD2	1.0950e-003	1.2207e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6630e-003	2.6429e-003
tblVehicleEF	LHD2	8.0540e-003	9.1939e-003
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tblVehicleEF	LHD2	1.5320e-003	2.1079e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	9.5700e-004	1.2531e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.07	0.30
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	1.3300e-004	1.2803e-004
tblVehicleEF	LHD2	5.9490e-003	6.3287e-003
tblVehicleEF	LHD2	2.9100e-004	9.0638e-005
tblVehicleEF	LHD2	1.5320e-003	2.1079e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	9.5700e-004	1.2531e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.30
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	3.7460e-003	3.7382e-003
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tblVehicleEF	LHD2	7.5080e-003	0.01
tblVehicleEF	LHD2	0.13	0.15

tblVehicleEF	LHD2	0.31	0.38
tblVehicleEF	LHD2	1.27	0.72
tblVehicleEF	LHD2	13.57	13.36
tblVehicleEF	LHD2	610.80	654.06
tblVehicleEF	LHD2	26.97	9.23
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.54	0.69
tblVehicleEF	LHD2	0.51	0.22
tblVehicleEF	LHD2	1.1440e-003	1.2759e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.4330e-003	9.6267e-003
tblVehicleEF	LHD2	4.4100e-004	1.5202e-004
tblVehicleEF	LHD2	1.0950e-003	1.2207e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6630e-003	2.6429e-003
tblVehicleEF	LHD2	8.0540e-003	9.1939e-003
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tblVehicleEF	LHD2	1.0410e-003	1.4722e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.6600e-004	8.7944e-004
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tblVehicleEF	LHD2	0.08	0.34
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	1.3300e-004	1.2803e-004
tblVehicleEF	LHD2	5.9490e-003	6.3286e-003

tblVehicleEF	LHD2	2.9200e-004	9.1296e-005
tblVehicleEF	LHD2	1.0410e-003	1.4722e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.6600e-004	8.7944e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.34
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	MCY	0.54	0.38
tblVehicleEF	MCY	0.15	0.23
tblVehicleEF	MCY	18.72	18.86
tblVehicleEF	MCY	9.68	8.54
tblVehicleEF	MCY	189.29	223.65
tblVehicleEF	MCY	44.13	59.21
tblVehicleEF	MCY	1.13	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.4730e-003	2.4798e-003
tblVehicleEF	MCY	3.6800e-003	3.1545e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	2.3100e-003	2.3160e-003
tblVehicleEF	MCY	3.4590e-003	2.9646e-003
tblVehicleEF	MCY	1.06	1.07
tblVehicleEF	MCY	0.62	0.64
tblVehicleEF	MCY	0.64	0.65

tblVehicleEF	MCY	2.58	2.60
tblVehicleEF	MCY	0.58	1.88
tblVehicleEF	MCY	2.04	1.80
tblVehicleEF	MCY	2.2780e-003	2.2132e-003
tblVehicleEF	MCY	6.5900e-004	5.8591e-004
tblVehicleEF	MCY	1.06	1.07
tblVehicleEF	MCY	0.62	0.64
tblVehicleEF	MCY	0.64	0.65
tblVehicleEF	MCY	3.22	3.23
tblVehicleEF	MCY	0.58	1.88
tblVehicleEF	MCY	2.22	1.96
tblVehicleEF	MCY	0.53	0.37
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	18.05	18.15
tblVehicleEF	MCY	8.84	7.77
tblVehicleEF	MCY	189.29	222.30
tblVehicleEF	MCY	44.13	57.32
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.4730e-003	2.4798e-003
tblVehicleEF	MCY	3.6800e-003	3.1545e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	2.3100e-003	2.3160e-003
tblVehicleEF	MCY	3.4590e-003	2.9646e-003

tblVehicleEF	MCY	1.72	1.71
tblVehicleEF	MCY	0.68	0.69
tblVehicleEF	MCY	1.06	1.05
tblVehicleEF	MCY	2.52	2.54
tblVehicleEF	MCY	0.54	1.76
tblVehicleEF	MCY	1.82	1.60
tblVehicleEF	MCY	2.2650e-003	2.1999e-003
tblVehicleEF	MCY	6.3900e-004	5.6721e-004
tblVehicleEF	MCY	1.72	1.71
tblVehicleEF	MCY	0.68	0.69
tblVehicleEF	MCY	1.06	1.05
tblVehicleEF	MCY	3.15	3.16
tblVehicleEF	MCY	0.54	1.76
tblVehicleEF	MCY	1.98	1.74
tblVehicleEF	MCY	0.54	0.38
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.82	19.00
tblVehicleEF	MCY	9.83	8.69
tblVehicleEF	MCY	189.29	223.92
tblVehicleEF	MCY	44.13	59.59
tblVehicleEF	MCY	1.10	1.10
tblVehicleEF	MCY	0.31	0.27
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.4730e-003	2.4798e-003
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tblVehicleEF	MCY	5.0400e-003	5.0400e-003

tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	2.3100e-003	2.3160e-003
tblVehicleEF	MCY	3.4590e-003	2.9646e-003
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tblVehicleEF	MCY	0.61	0.63
tblVehicleEF	MCY	2.59	2.61
tblVehicleEF	MCY	0.67	2.18
tblVehicleEF	MCY	2.08	1.85
tblVehicleEF	MCY	2.2800e-003	2.2159e-003
tblVehicleEF	MCY	6.6300e-004	5.8968e-004
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tblVehicleEF	MCY	0.80	0.82
tblVehicleEF	MCY	0.61	0.63
tblVehicleEF	MCY	3.23	3.25
tblVehicleEF	MCY	0.67	2.18
tblVehicleEF	MCY	2.26	2.01
tblVehicleEF	MDV	0.01	5.6774e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.21	1.09
tblVehicleEF	MDV	2.22	2.92
tblVehicleEF	MDV	495.22	408.75
tblVehicleEF	MDV	99.91	80.84
tblVehicleEF	MDV	0.13	0.10
tblVehicleEF	MDV	0.19	0.31
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003

tblVehicleEF	MDV	2.2990e-003	1.9552e-003
tblVehicleEF	MDV	2.4650e-003	1.9340e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	2.1190e-003	1.8024e-003
tblVehicleEF	MDV	2.2660e-003	1.7785e-003
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.15	0.13
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.09	0.41
tblVehicleEF	MDV	0.17	0.36
tblVehicleEF	MDV	4.9590e-003	3.9917e-003
tblVehicleEF	MDV	1.0380e-003	7.9003e-004
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.15	0.13
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.09	0.41
tblVehicleEF	MDV	0.18	0.39
tblVehicleEF	MDV	0.01	6.0286e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.32	1.19
tblVehicleEF	MDV	1.90	2.49
tblVehicleEF	MDV	516.89	420.70
tblVehicleEF	MDV	99.91	80.01
tblVehicleEF	MDV	0.11	0.08

tblVehicleEF	MDV	0.18	0.29
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	2.2990e-003	1.9552e-003
tblVehicleEF	MDV	2.4650e-003	1.9340e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	2.1190e-003	1.8024e-003
tblVehicleEF	MDV	2.2660e-003	1.7785e-003
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.09	0.12
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.08	0.38
tblVehicleEF	MDV	0.15	0.32
tblVehicleEF	MDV	5.1770e-003	4.1085e-003
tblVehicleEF	MDV	1.0320e-003	7.8193e-004
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.09	0.12
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.08	0.38
tblVehicleEF	MDV	0.16	0.35
tblVehicleEF	MDV	0.01	5.5643e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.17	1.05
tblVehicleEF	MDV	2.29	3.02

tblVehicleEF	MDV	487.26	404.33
tblVehicleEF	MDV	99.91	81.03
tblVehicleEF	MDV	0.13	0.09
tblVehicleEF	MDV	0.20	0.31
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	2.2990e-003	1.9552e-003
tblVehicleEF	MDV	2.4650e-003	1.9340e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	2.1190e-003	1.8024e-003
tblVehicleEF	MDV	2.2660e-003	1.7785e-003
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.10	0.48
tblVehicleEF	MDV	0.17	0.37
tblVehicleEF	MDV	4.8790e-003	3.9485e-003
tblVehicleEF	MDV	1.0390e-003	7.9190e-004
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.10	0.48
tblVehicleEF	MDV	0.19	0.40
tblVehicleEF	MH	0.02	2.9973e-003

tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	1.76	0.25
tblVehicleEF	MH	5.23	0.00
tblVehicleEF	MH	1,125.05	953.67
tblVehicleEF	MH	59.88	0.00
tblVehicleEF	MH	1.00	3.27
tblVehicleEF	MH	0.75	0.00
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	1.0430e-003	0.00
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2050e-003	4.0000e-003
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	9.5900e-004	0.00
tblVehicleEF	MH	0.84	0.00
tblVehicleEF	MH	0.06	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.30	0.00
tblVehicleEF	MH	0.01	9.0156e-003
tblVehicleEF	MH	6.9000e-004	0.00
tblVehicleEF	MH	0.84	0.00
tblVehicleEF	MH	0.06	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MH	0.10	0.07

tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	0.02	2.9973e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	1.81	0.25
tblVehicleEF	MH	4.92	0.00
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tblVehicleEF	MH	59.88	0.00
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tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	1.0430e-003	0.00
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2050e-003	4.0000e-003
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	9.5900e-004	0.00
tblVehicleEF	MH	1.24	0.00
tblVehicleEF	MH	0.06	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.29	0.00
tblVehicleEF	MH	0.01	9.0156e-003
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tblVehicleEF	MH	1.24	0.00

tblVehicleEF	MH	0.06	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	0.02	2.9973e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	1.75	0.25
tblVehicleEF	MH	5.28	0.00
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tblVehicleEF	MH	0.98	3.21
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tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.02	0.07
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tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2050e-003	4.0000e-003
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	9.5900e-004	0.00
tblVehicleEF	MH	0.95	0.00
tblVehicleEF	MH	0.07	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.30	0.00

tblVehicleEF	MH	0.01	9.0156e-003
tblVehicleEF	MH	6.9000e-004	0.00
tblVehicleEF	MH	0.95	0.00
tblVehicleEF	MH	0.07	0.00
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tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.33	0.00
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tblVehicleEF	MHD	3.8910e-003	2.0984e-003
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tblVehicleEF	MHD	0.36	0.40
tblVehicleEF	MHD	0.32	0.28
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tblVehicleEF	MHD	130.55	64.65
tblVehicleEF	MHD	1,141.08	1,030.64
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tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	2.8420e-003	6.1299e-003
tblVehicleEF	MHD	8.1400e-004	1.3466e-004
tblVehicleEF	MHD	9.7000e-005	3.1218e-004
tblVehicleEF	MHD	0.06	0.06

tblVehicleEF	MHD	3.0000e-003	3.0000e-003
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tblVehicleEF	MHD	1.0540e-003	6.2271e-004
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tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	7.0500e-004	4.1013e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.34	0.06
tblVehicleEF	MHD	1.2580e-003	6.1463e-004
tblVehicleEF	MHD	0.01	9.8543e-003
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tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.0500e-004	4.1013e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.38	0.07
tblVehicleEF	MHD	0.01	4.2036e-003
tblVehicleEF	MHD	3.9490e-003	2.1413e-003
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.26	0.34
tblVehicleEF	MHD	0.32	0.28
tblVehicleEF	MHD	5.34	1.31
tblVehicleEF	MHD	138.27	64.73

tblVehicleEF	MHD	1,141.08	1,030.65
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tblVehicleEF	MHD	0.71	1.02
tblVehicleEF	MHD	9.94	1.58
tblVehicleEF	MHD	8.6000e-005	2.7779e-004
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	2.8420e-003	6.1299e-003
tblVehicleEF	MHD	8.1400e-004	1.3466e-004
tblVehicleEF	MHD	8.2000e-005	2.6577e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	2.7140e-003	5.8582e-003
tblVehicleEF	MHD	7.4900e-004	1.2382e-004
tblVehicleEF	MHD	1.5770e-003	9.2475e-004
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tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	9.9000e-004	5.7330e-004
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tblVehicleEF	MHD	0.02	0.13
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tblVehicleEF	MHD	0.01	9.8544e-003
tblVehicleEF	MHD	7.2200e-004	1.1815e-004
tblVehicleEF	MHD	1.5770e-003	9.2475e-004
tblVehicleEF	MHD	0.05	0.03

tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	9.9000e-004	5.7330e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.13
tblVehicleEF	MHD	0.36	0.07
tblVehicleEF	MHD	0.02	4.7556e-003
tblVehicleEF	MHD	3.8750e-003	2.0848e-003
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tblVehicleEF	MHD	0.50	0.49
tblVehicleEF	MHD	0.32	0.28
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tblVehicleEF	MHD	0.74	1.06
tblVehicleEF	MHD	9.99	1.58
tblVehicleEF	MHD	1.2400e-004	3.9328e-004
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tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	2.8420e-003	6.1299e-003
tblVehicleEF	MHD	8.1400e-004	1.3466e-004
tblVehicleEF	MHD	1.1800e-004	3.7627e-004
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tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	2.7140e-003	5.8582e-003
tblVehicleEF	MHD	7.4900e-004	1.2382e-004

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tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.8500e-004	3.9956e-004
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tblVehicleEF	OBUS	5.18	2.34
tblVehicleEF	OBUS	101.82	90.17
tblVehicleEF	OBUS	1,246.68	1,355.70
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tblVehicleEF	OBUS	2.0000e-005	1.1818e-004
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tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	2.6330e-003	7.0871e-003
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tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
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tblVehicleEF	SBUS	7.8400e-004	5.5389e-005
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tblVehicleEF	SBUS	0.01	3.3855e-003
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tblVehicleEF	SBUS	6.8800e-004	5.9097e-005
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tblVehicleEF	SBUS	0.84	0.08
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tblVehicleEF	SBUS	1,070.53	1,086.01
tblVehicleEF	SBUS	56.44	5.68
tblVehicleEF	SBUS	8.77	3.09
tblVehicleEF	SBUS	3.59	4.13
tblVehicleEF	SBUS	11.81	0.95
tblVehicleEF	SBUS	6.8420e-003	3.0311e-003
tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03

tblVehicleEF	SBUS	8.5300e-004	6.0241e-005
tblVehicleEF	SBUS	6.5460e-003	2.9000e-003
tblVehicleEF	SBUS	0.32	0.32
tblVehicleEF	SBUS	2.6580e-003	2.6525e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	7.8400e-004	5.5389e-005
tblVehicleEF	SBUS	4.9610e-003	1.4874e-003
tblVehicleEF	SBUS	0.03	9.1168e-003
tblVehicleEF	SBUS	0.98	0.36
tblVehicleEF	SBUS	2.5750e-003	7.7378e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.34	0.04
tblVehicleEF	SBUS	0.01	3.4522e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.6600e-004	5.6163e-005
tblVehicleEF	SBUS	4.9610e-003	1.4874e-003
tblVehicleEF	SBUS	0.03	9.1168e-003
tblVehicleEF	SBUS	1.42	0.52
tblVehicleEF	SBUS	2.5750e-003	7.7378e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.37	0.04
tblVehicleEF	SBUS	0.84	0.08
tblVehicleEF	SBUS	0.01	6.6841e-003
tblVehicleEF	SBUS	0.06	7.2391e-003
tblVehicleEF	SBUS	8.43	3.19

tblVehicleEF	SBUS	0.66	0.57
tblVehicleEF	SBUS	7.40	1.00
tblVehicleEF	SBUS	1,037.46	344.71
tblVehicleEF	SBUS	1,070.53	1,085.99
tblVehicleEF	SBUS	56.44	6.03
tblVehicleEF	SBUS	8.13	2.95
tblVehicleEF	SBUS	3.74	4.30
tblVehicleEF	SBUS	11.85	0.96
tblVehicleEF	SBUS	9.8760e-003	4.3531e-003
tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	8.5300e-004	6.0241e-005
tblVehicleEF	SBUS	9.4480e-003	4.1648e-003
tblVehicleEF	SBUS	0.32	0.32
tblVehicleEF	SBUS	2.6580e-003	2.6525e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	7.8400e-004	5.5389e-005
tblVehicleEF	SBUS	3.3940e-003	1.0334e-003
tblVehicleEF	SBUS	0.03	9.3494e-003
tblVehicleEF	SBUS	0.99	0.36
tblVehicleEF	SBUS	1.7490e-003	5.3556e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.39	0.04
tblVehicleEF	SBUS	0.01	3.2934e-003
tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	6.9200e-004	5.9658e-005
tblVehicleEF	SBUS	3.3940e-003	1.0334e-003
tblVehicleEF	SBUS	0.03	9.3494e-003
tblVehicleEF	SBUS	1.43	0.52
tblVehicleEF	SBUS	1.7490e-003	5.3556e-004
tblVehicleEF	SBUS	0.12	0.10
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.42	0.05
tblVehicleEF	UBUS	2.44	5.85
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	10.68	45.42
tblVehicleEF	UBUS	8.84	0.71
tblVehicleEF	UBUS	1,951.45	1,987.99
tblVehicleEF	UBUS	100.38	8.42
tblVehicleEF	UBUS	9.33	0.47
tblVehicleEF	UBUS	15.09	0.08
tblVehicleEF	UBUS	0.60	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.12	3.2067e-003
tblVehicleEF	UBUS	1.1360e-003	5.6569e-005
tblVehicleEF	UBUS	0.26	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9689e-003
tblVehicleEF	UBUS	0.12	3.0642e-003
tblVehicleEF	UBUS	1.0450e-003	5.2013e-005
tblVehicleEF	UBUS	4.1100e-003	5.9331e-004
tblVehicleEF	UBUS	0.07	7.4130e-003
tblVehicleEF	UBUS	2.4100e-003	4.3392e-004

tblVehicleEF	UBUS	0.79	0.09
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.68	0.05
tblVehicleEF	UBUS	9.8060e-003	1.4048e-003
tblVehicleEF	UBUS	1.1630e-003	8.3318e-005
tblVehicleEF	UBUS	4.1100e-003	5.9331e-004
tblVehicleEF	UBUS	0.07	7.4130e-003
tblVehicleEF	UBUS	2.4100e-003	4.3392e-004
tblVehicleEF	UBUS	3.32	5.97
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.75	0.05
tblVehicleEF	UBUS	2.44	5.85
tblVehicleEF	UBUS	0.05	9.9367e-003
tblVehicleEF	UBUS	10.72	45.42
tblVehicleEF	UBUS	7.66	0.63
tblVehicleEF	UBUS	1,951.45	1,987.99
tblVehicleEF	UBUS	100.38	8.27
tblVehicleEF	UBUS	8.79	0.47
tblVehicleEF	UBUS	15.04	0.08
tblVehicleEF	UBUS	0.60	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.12	3.2067e-003
tblVehicleEF	UBUS	1.1360e-003	5.6569e-005
tblVehicleEF	UBUS	0.26	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9689e-003
tblVehicleEF	UBUS	0.12	3.0642e-003
tblVehicleEF	UBUS	1.0450e-003	5.2013e-005

tblVehicleEF	UBUS	5.8640e-003	8.6079e-004
tblVehicleEF	UBUS	0.07	7.6581e-003
tblVehicleEF	UBUS	3.3120e-003	5.9984e-004
tblVehicleEF	UBUS	0.80	0.09
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	0.63	0.04
tblVehicleEF	UBUS	9.8070e-003	1.4048e-003
tblVehicleEF	UBUS	1.1430e-003	8.1863e-005
tblVehicleEF	UBUS	5.8640e-003	8.6079e-004
tblVehicleEF	UBUS	0.07	7.6581e-003
tblVehicleEF	UBUS	3.3120e-003	5.9984e-004
tblVehicleEF	UBUS	3.33	5.97
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	0.69	0.05
tblVehicleEF	UBUS	2.44	5.85
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	10.66	45.42
tblVehicleEF	UBUS	9.05	0.73
tblVehicleEF	UBUS	1,951.45	1,987.99
tblVehicleEF	UBUS	100.38	8.45
tblVehicleEF	UBUS	9.15	0.47
tblVehicleEF	UBUS	15.10	0.08
tblVehicleEF	UBUS	0.60	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.12	3.2067e-003
tblVehicleEF	UBUS	1.1360e-003	5.6569e-005
tblVehicleEF	UBUS	0.26	0.03

tblVehicleEF	UBUS	3.0000e-003	7.9689e-003
tblVehicleEF	UBUS	0.12	3.0642e-003
tblVehicleEF	UBUS	1.0450e-003	5.2013e-005
tblVehicleEF	UBUS	4.6290e-003	5.8312e-004
tblVehicleEF	UBUS	0.08	7.9413e-003
tblVehicleEF	UBUS	2.5090e-003	4.1273e-004
tblVehicleEF	UBUS	0.79	0.09
tblVehicleEF	UBUS	0.03	0.06
tblVehicleEF	UBUS	0.70	0.05
tblVehicleEF	UBUS	9.8060e-003	1.4048e-003
tblVehicleEF	UBUS	1.1670e-003	8.3611e-005
tblVehicleEF	UBUS	4.6290e-003	5.8312e-004
tblVehicleEF	UBUS	0.08	7.9413e-003
tblVehicleEF	UBUS	2.5090e-003	4.1273e-004
tblVehicleEF	UBUS	3.31	5.97
tblVehicleEF	UBUS	0.03	0.06
tblVehicleEF	UBUS	0.76	0.05
tblVehicleTrips	ST_TR	177.59	177.62
tblVehicleTrips	SU_TR	166.44	166.47
tblVehicleTrips	WD_TR	102.24	106.78
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	1,121,740.76	1,047,779.83
tblWater	OutdoorWaterUseRate	34,693.01	32,405.56
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.2034	1.0000e-005	1.0600e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.2800e-003	2.2800e-003	1.0000e-005		2.4300e-003
Energy	6.2700e-003	0.0570	0.0479	3.4000e-004		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003		68.3710	68.3710	1.3100e-003	1.2500e-003	68.7773
Mobile	3.3158	4.1670	21.0226	0.0479	4.5204	0.0404	4.5609	1.2073	0.0377	1.2449		4,978.9264	4,978.9264	0.4214		4,989.4610
Total	3.5254	4.2240	21.0716	0.0482	4.5204	0.0447	4.5652	1.2073	0.0420	1.2493		5,047.2997	5,047.2997	0.4227	1.2500e-003	5,058.2407

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.2034	1.0000e-005	1.0600e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.2800e-003	2.2800e-003	1.0000e-005		2.4300e-003
Energy	6.2700e-003	0.0570	0.0479	3.4000e-004		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003		68.3710	68.3710	1.3100e-003	1.2500e-003	68.7773
Mobile	3.3158	4.1670	21.0226	0.0479	4.5204	0.0404	4.5609	1.2073	0.0377	1.2449		4,978.9264	4,978.9264	0.4214		4,989.4610
Total	3.5254	4.2240	21.0716	0.0482	4.5204	0.0447	4.5652	1.2073	0.0420	1.2493		5,047.2997	5,047.2997	0.4227	1.2500e-003	5,058.2407

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	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

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	lb/day										lb/day					
Mitigated	3.3158	4.1670	21.0226	0.0479	4.5204	0.0404	4.5609	1.2073	0.0377	1.2449		4,978.9264	4,978.9264	0.4214		4,989.4610
Unmitigated	3.3158	4.1670	21.0226	0.0479	4.5204	0.0404	4.5609	1.2073	0.0377	1.2449		4,978.9264	4,978.9264	0.4214		4,989.4610

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Supermarket	971.70	1,616.34	1514.88	1,506,027	1,506,027
Total	971.70	1,616.34	1,514.88	1,506,027	1,506,027

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Supermarket	16.60	8.40	6.90	6.50	74.50	19.00	34	30	36

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Supermarket	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862

5.0 Energy Detail

Historical Energy Use: Y

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	lb/day										lb/day					
NaturalGas Mitigated	6.2700e-003	0.0570	0.0479	3.4000e-004		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003		68.3710	68.3710	1.3100e-003	1.2500e-003	68.7773
NaturalGas Unmitigated	6.2700e-003	0.0570	0.0479	3.4000e-004		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003		68.3710	68.3710	1.3100e-003	1.2500e-003	68.7773

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas 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	lb/day										lb/day					
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
Supermarket	581.153	6.2700e-003	0.0570	0.0479	3.4000e-004		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003		68.3710	68.3710	1.3100e-003	1.2500e-003	68.7773
Total		6.2700e-003	0.0570	0.0479	3.4000e-004		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003		68.3710	68.3710	1.3100e-003	1.2500e-003	68.7773

Mitigated

	Natural Gas 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	lb/day										lb/day					
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
Supermarket	0.581153	6.2700e-003	0.0570	0.0479	3.4000e-004		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003		68.3710	68.3710	1.3100e-003	1.2500e-003	68.7773
Total		6.2700e-003	0.0570	0.0479	3.4000e-004		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003		68.3710	68.3710	1.3100e-003	1.2500e-003	68.7773

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2034	1.0000e-005	1.0600e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.2800e-003	2.2800e-003	1.0000e-005		2.4300e-003
Unmitigated	0.2034	1.0000e-005	1.0600e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.2800e-003	2.2800e-003	1.0000e-005		2.4300e-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	lb/day										lb/day					
Architectural Coating	0.0231					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1802					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-004	1.0000e-005	1.0600e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.2800e-003	2.2800e-003	1.0000e-005		2.4300e-003
Total	0.2034	1.0000e-005	1.0600e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.2800e-003	2.2800e-003	1.0000e-005		2.4300e-003

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0231					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1802					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-004	1.0000e-005	1.0600e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.2800e-003	2.2800e-003	1.0000e-005		2.4300e-003
Total	0.2034	1.0000e-005	1.0600e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.2800e-003	2.2800e-003	1.0000e-005		2.4300e-003

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

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

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

Equipment Type	Number
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11.0 Vegetation

4. Screening-Level Construction Localized Significance Thresholds Worksheets

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Construction Localized Significance Thresholds: Demolition

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
4	1.59	25	82	1.59

Source Receptor Distance (meters)	South Coastal LA County	Equipment	Acres/8-hr Day	Equipment Used	Daily Hours	Acres
	25	Tractors	0.5	3	8	1.5
NOx	72	Graders	0.5			0
CO	737	Dozers	0.5	1	8	0.5
PM10	5.77	Scrapers	1			0
PM2.5	4.18				Acres	2.00

	Acres	25	50	100	200	500
NOx	1	57	58	68	90	142
	2	82	80	87	106	151
		72	71	79	99	147
CO	1	585	789	1180	2296	7558
	2	842	1158	1611	2869	8253
		737	1007	1434	2634	7968
PM10	1	4	13	29	61	158
	2	7	21	37	70	167
		6	18	34	66	163
PM2.5	1	3	5	10	26	93
	2	5	7	13	30	101
		4	6	12	28	98

South Coastal LA County

	1.59 Acres	25	50	100	200	500
NOx	72	71	79	99	147	
CO	737	1007	1434	2634	7968	
PM10	6	18	34	66	163	
PM2.5	4	6	12	28	98	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
4	1	4	2
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Site Preparation

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
4	1.44	25	82	1.59

Source Receptor Distance (meters)	South Coastal LA County	Equipment	Acres/8-hr Day	Equipment Used	Daily hours	Acres
	25	Tractors	0.5	1	8	0.5
NOx	68	Graders	0.5	1	7	0.4375
CO	697	Dozers	0.5	1	8	0.5
PM10	5.31	Scrapers	1			0
PM2.5	3.87				Acres	1.44

	Acres	25	50	100	200	500
NOx	1	57	58	68	90	142
	2	82	80	87	106	151
		68	68	76	97	146
CO	1	585	789	1180	2296	7558
	2	842	1158	1611	2869	8253
		697	950	1369	2547	7862
PM10	1	4	13	29	61	158
	2	7	21	37	70	167
		5	17	33	65	162
PM2.5	1	3	5	10	26	93
	2	5	7	13	30	101
		4	6	11	28	97

South Coastal LA County						
1.44 Acres						
	25	50	100	200	500	
NOx	68	68	76	97	146	
CO	697	950	1369	2547	7862	
PM10	5	17	33	65	162	
PM2.5	4	6	11	28	97	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
4	1	4	2
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Grading

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
4	1.19	25	82	1.59

Source Receptor Distance (meters)	South Coastal LA County	Equipment	Acres/8-hr Day	Equipment Used	Daily hours	Acres
	25	Tractors	0.5	1	7	0.4375
NOx	62	Graders	0.5	1	6	0.375
CO	633	Dozers	0.5	1	6	0.375
PM10	4.56	Scrapers	1			0
PM2.5	3.37				Acres	1.19

	Acres	25	50	100	200	500
NOx	1	57	58	68	90	142
	2	82	80	87	106	151
		62	62	72	93	144
CO	1	585	789	1180	2296	7558
	2	842	1158	1611	2869	8253
		633	858	1261	2403	7688
PM10	1	4	13	29	61	158
	2	7	21	37	70	167
		5	15	31	63	160
PM2.5	1	3	5	10	26	93
	2	5	7	13	30	101
		3	5	11	27	95

South Coastal LA County

	1.19 Acres	25	50	100	200	500
NOx	62	62	72	93	144	
CO	633	858	1261	2403	7688	
PM10	5	15	31	63	160	
PM2.5	3	5	11	27	95	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
4	1	4	2
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Building Construction

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
4	0.38	25	82	1.59

Source Receptor Distance (meters)	South Coastal LA County	Equipment	Acres/8-hr Day	Equipment Used	Daily Hours	Acres
	25	Tractors	0.5	1	6	0.375
NOx	57	Graders	0.5			0
CO	585	Dozers	0.5			0
PM10	4.00	Scrapers	1			0
PM2.5	3.00				Acres	0.38

	Acres	25	50	100	200	500
NOx	1	57	58	68	90	142
	1	57	58	68	90	142
CO	1	585	789	1180	2296	7558
	1	585	789	1180	2296	7558
PM10	1	4	13	29	61	158
	1	4	13	29	61	158
PM2.5	1	3	5	10	26	93
	1	3	5	10	26	93
		3	5	10	26	93

South Coastal LA County

0.38 Acres		25	50	100	200	500
NOx	57	58	68	90	142	
CO	585	789	1180	2296	7558	
PM10	4	13	29	61	158	
PM2.5	3	5	10	26	93	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
4	1	4	1
Distance Increment Below		Distance Increment Above	
25		25	

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Asphalt Paving

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
4	0.50	25	82	1.59

Source Receptor Distance (meters)	South Coastal LA County	Equipment	Acres/8-hr Day	Equipment U	Daily hours	Acres	
	25	Tractors	0.5	0.0625	1	8	0.5
NOx	57	Graders	0.5	0.0625			0
CO	585	Dozers	0.5	0.0625			0
PM10	4.00	Scrapers	1	0.125			0
PM2.5	3.00						0.50

	Acres	25	50	100	200	500
NOx	1	57	58	68	90	142
	1	57	58	68	90	142
CO	1	585	789	1180	2296	7558
	1	585	789	1180	2296	7558
PM10	1	4	13	29	61	158
	1	4	13	29	61	158
PM2.5	1	3	5	10	26	93
	1	3	5	10	26	93

South Coastal LA County

0.50 Acres

	25	50	100	200	500
NOx	57	58	68	90	142
CO	585	789	1180	2296	7558
PM10	4	13	29	61	158
PM2.5	3	5	10	26	93

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
4	1	4	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Architectural Coating

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
4	0.00	25	82	1.59

Source Receptor	South Coastal LA County	Equipment	Acres/8-hr Day	Daily hours	Equipment Used	Acres
Distance (meters)	25	Tractors	0.5	0.0625		0
NOx	57	Graders	0.5	0.0625		0
CO	585	Dozers	0.5	0.0625		0
PM10	4.00	Scrapers	1	0.125		0
PM2.5	3.00				Acres	0.00

	Acres	25	50	100	200	500
NOx	1	57	58	68	90	142
	1	57	58	68	90	142
CO	1	585	789	1180	2296	7558
	1	585	789	1180	2296	7558
PM10	1	4	13	29	61	158
	1	4	13	29	61	158
PM2.5	1	3	5	10	26	93
	1	3	5	10	26	93

South Coastal LA County

	0.00 Acres	25	50	100	200	500
NOx	57	58	68	90	142	
CO	585	789	1180	2296	7558	
PM10	4	13	29	61	158	
PM2.5	3	5	10	26	93	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
4	1	4	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Appendix B Traffic Assessment

Appendix

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TECHNICAL MEMORANDUM

Date: June 17, 2020
To: William Halligan, Placeworks
From: Paul Herrmann, PE and Delia Votsch, PE
Subject: 201 W. Pacific Coast Highway Traffic Assessment

LB20-0013

This technical memorandum presents the traffic assessment for the proposed redevelopment project at 201 Pacific Coast Highway in Long Beach, California. The project site is bordered by Cedar Avenue to the west, Pacific Coast Highway to the south, Pacific Avenue to the east, and existing residences to the north. The proposed project consists of apartments and commercial space. The existing site includes three parcels, two of which are vacant. The third parcel currently includes an approximately 9,100 square foot grocery store and surface parking.

This memorandum presents the trip generation of the existing and proposed site, an assessment of Vehicle Miles Traveled (VMT), and a site access analysis.

Trip Generation

The proposed project consists of 138 apartment units and approximately 25,000 square feet of commercial. The commercial space will include approximately 23,000 square feet of grocery store and approximately 2,000 square feet of café.

The existing site includes three parcels, two of which are vacant. The third parcel currently includes an approximately 9,100 square foot grocery store and surface parking.

Trip generation rates from *Trip Generation, 10th Edition* (Institute of Transportation Engineers [ITE], 2017) were used to estimate the number of trips associated with the Project. The Environmental Protection Agency (EPA), in corporation with Institute of Transportation Engineers (ITE), has developed a methodology to more accurately calculate trip generation for mixed use sites. The methodology developed trip internalization estimates. These internalization estimates are based on a series of factors related to built environment variables including demographics, project specifics, and the projects ability to internally capture trips. This methodology was utilized to better assess the mixed used nature of the development of the Project.

The trip generation of the existing site and proposed site are presented in **Table 1**. As noted below, the project is expected to generate a net increase of 2,554 daily trips.

TABLE 1 – 201 W. PCH Trip Generation Estimates

Land Use	Units	ITE Code	Quantity	Daily	AM Peak Hour			PM Peak Hour		
					In	Out	Total	In	Out	Total
<i>Existing Site</i>										
Grocery Store	KSF	850	9.1	970	21	14	35	43	41	84
<i>Proposed Site</i>										
Apartments	DUs	221	138	750	13	37	50	37	24	61
Grocery Store	KSF	850	23	2,450	53	35	88	108	105	213
Cafe	KSF	930	2	630	3	1	4	15	13	28
Total				3,830	69	73	142	160	142	302
Internal Capture Reductions (Daily 8%, AM 11%, PM 11%)				-306	-8	-8	-16	-18	-15	-33
Existing Project Site Reductions				-970	-21	-14	-35	-43	-41	-84
Net New Trips				2,554	40	51	91	99	86	185

Notes:

1. KSF = 1,000 square feet, DUs = Dwelling Units

Source: Fehr & Peers, 2020

VMT Assessment

SB 743, signed by the Governor in 2013, has directed the Office of Planning and Research (OPR) to look at different metrics for identifying transportation impacts under CEQA. The Final OPR Technical Advisory was released in December 2018 and identified vehicle miles of travel (VMT) as the preferred metric moving forward. The Natural Resources Agency completed the rule making process to modify the CEQA guidelines in December of 2018. The CEQA Guidelines identify that, by July of 2020 all lead agencies must use VMT as the new transportation metric for identifying impacts for land use projects.

The City of Long Beach has not yet adopted local guidelines for VMT assessment. However, Draft Traffic Impact Analysis Guidelines were released in June 2020. This assessment assumes that the City will adopt screening criteria consistent with the information in those draft guidelines. However, this assessment should be confirmed once the City’s finalized guidelines have been released.

Since the proposed Project is a mixed-use project, the draft City guidelines indicate the land uses should be evaluated separately, or predominant land use should be used to evaluate the potential VMT impacts of the Project. For the purposes of this evaluation the land uses were evaluated separately. The draft City guidelines includes a list of screening criteria that screen projects from project-level assessment under the presumption that those projects will result in a less-than-significant impact. The following is from the draft City guidelines regarding residential project screening:

“The OPR Technical Advisory on Evaluating Transportation Impacts in CEQA states that residential and office projects that have similar density, mix of uses, and transit accessibility as surrounding similar uses will likely have similar VMT generation as those uses. Therefore, maps showing VMT-efficient areas can be used to screen residential and office projects from further analysis. Figure 2 presents a map of VMT per capita for all existing Long Beach residential areas. These data were obtained from the 2016 Southern California Association of Governments (SCAG) Regional

Transportation Plan/Sustainable Communities Strategy (RTP/SCS) travel demand model... In these green areas, projects with similar characteristics to the surrounding development would be presumed to have a less than significant transportation impact.”

The Project is located in a “green” area for VMT per capita, which indicate that the apartments would be eligible for screening in a VMT efficient area as projects in those areas are assumed to generate VMT per capita more than 15% below the regional average.

The following is from the draft City guidelines regarding retail project screening:

“Retail development that is 50,000 square feet (sf) or less is likely to be local-serving and tends to shorten trips within Long Beach. Therefore, any retail project 50,000 sf or less will be presumed to have a less than significant transportation impact related to CEQA Guidelines Section 15064.3, subdivision (b).”

The grocery store and cafe would qualify as local-serving retail under 50,000 square feet.

Projects located within a Transit Priority Area (TPA) may also be screened from a full VMT assessment. A TPA is defined as a half mile area around an existing major transit stop or an existing stop along a high-quality transit corridor per the definitions below¹. The project site is located within a half mile of a high-quality transit corridor and within a half mile of a major transit stop. There is an existing bus stop on the Project frontage. Torrance Transit Route 3 (12-minute headways) stops at this bus stop and along Pacific Coast Highway, making this a high-quality transit corridor. Furthermore, approximately 1/3 mile from the project site is the Pacific Coast Highway stop for the Metro A Line light rail service.

Given that the retail land use is local-serving retail under 50,000 square feet, the location of the project is within identified VMT-efficient areas for VMT per population, and the project is located in a TPA, this project should be screened from a full VMT assessment under the presumption that it will result in a less-than-significant impact. As noted above, this conclusion should be confirmed once the City of Long Beach has finalized their screening criteria and guidance.

Site Plan Review

Site Access Analysis

Vehicle access to the proposed site will be provided through the existing alley between Pacific Coast Highway and 19th Street, a driveway on Cedar Avenue, and a driveway on Pacific Avenue. The site’s loading

¹ Pub. Resources Code, § 21064.3 - ‘Major transit stop’ means a site containing an existing rail transit station, a ferry terminal served by either a bus or rail transit service, or the intersection of two or more major bus routes with a frequency of service interval of 15 minutes or less during the morning and afternoon peak commute periods.

Pub. Resources Code, § 21155 - For purposes of this section, a ‘high-quality transit corridor’ means a corridor with fixed route bus service with service intervals no longer than 15 minutes during peak commute hours.

areas will be accessible through the alley. The vehicle entrances on Cedar Avenue and through the alley will provide access to parking for the retail portion of the site, while the driveway on Pacific Avenue will provide access to the residential portion of the site. The existing grocery store site includes vehicle access driveways on Pacific Coast Highway and Cedar Avenue, the Pacific Coast Highway driveway will be removed, and the Cedar Avenue driveway will remain with the proposed buildout of the site.

Parking Assessment

Table 3-5 in the Midtown Specific Plan lists that for residential uses 1 parking space is required for units with 0-1 bedrooms, 1.25 spaces for units with 2 bedrooms, 1.5 spaces for units with 3 or more bedrooms, and 1 guest space is required per four units.

The project would construct 9 studio units, 89 one-bedroom units, 32 units with 2 bedrooms, and 8 units with 3 bedrooms. Per the specific plan, the project would be required to provide 150 stalls of parking for residents, and 35 spaces for guests.

Table 3-5 in the Midtown Specific Plan lists that non-residential uses should provide 2 spaces per 1,000 square feet.

The project would construct approximately 23,000 square feet of grocery store and approximately 2,000 square feet of café. Per the specific plan, the project would be required to provide 4 spaces for the café and 46 parking spaces for the grocery store.

The project site will provide a total of 258 parking stalls, including 20 tandem stalls, 52 stalls for retail uses, 35 stalls of guest parking, and 151 stalls for the apartments. The Project would provide adequate site access, and the provided parking is consistent with the requirements of the Midtown Specific Plan.