APPENDICES

Appendix A NOP Scoping Letters Received

Cervantes, Alexandra

From: Cervantes, Alexandra
Sent: Wednesday, December 10, 2025 7:37 AM
To: AT&T ONLINE SERVICE
Subject: RE: New construction of Fresno Courthouse

Hello,

The Judicial Council of California acknowledges receipt of your comment on the Notice of Preparation of an Environmental Impact Report (EIR) for the New Fresno Courthouse and will consider all information and comments received in preparing the draft EIR.

Thank you,

Facility Services
Judicial Council of California
2860 Gateway Oaks Drive, Suite 400, Sacramento, CA 95833
https://courts.ca.gov/facilities/fresno-county-new-fresno-courthouse

---

From: AT&T ONLINE SERVICE <josephpulido@att.net>
Sent: Tuesday, December 9, 2025 6:29 PM
To: Cervantes, Alexandra <alexandra.cervantes@jud.ca.gov>
Subject: New construction of Fresno Courthouse

EXTERNAL EMAIL

I would like to comment regarding the new construction of the Fresno courthouse. In 1966 I witnessed the demolition of our beloved majestic courthouse in downtown Fresno. As someone who grew up in Fresno it was devastating to see it torn down. Fresno never preserves our historic buildings, homes and avenues. Our Historic Society is in name only; they never preserve anything. For example:

1. Historic Courthouse demolished
2. Armenian homes that burned down, they were going to be preserved but the Historic Society did not take enough steps to care for them.
3. Names of major avenues changed which were historically valuable, all avenues over 100 years old. All changed to Cesar Chavez Avenue.
   - King Canyon Avenue to National Park
   - California Avenue
   - Ventura Avenue

I am sure there are many more demolitions of historic sites in Fresno I am not aware of. Years ago, there was a news article regarding the dome/copula from the old courthouse still in the Fresno area. I do not know the location.
Would it be possible to build a new courthouse and incorporate and use the historic dome/copula? If this is included it would look historic on the outside and modern on the inside. This would enhance the downtown area. The current courthouse in the 60s era design is so unattractive it should have been torn down years ago. We need something to enhance our downtown area, and individuals would go downtown more often. I definitely would go if there was something nice to look at, just like the historic courthouse in Sacramento, so majestic, beautiful and wonderful for the Sacramento downtown area which I have toured. Hopefully, Fresno would have the same.
Thank you and hopefully you would consider my thought regarding the new construction of the Fresno courthouse.
Margaret

Cervantes, Alexandra

From: Jeffrey Whitaker <Jeffbsn@outlook.com>
Sent: Friday, December 12, 2025 10:22 AM
To: Cervantes, Alexandra
Subject: Fresno Courthouse

EXTERNAL EMAIL

I'm sure you will design this new courthouse to be ADA compliant; this is my major promotion. Me being in a wheelchair the current courthouse is very hard to navigate due to it being on a 'hill' and once I'm in the courthouse level 6th, 5th, 3rd, and B1 are hard to enter through the dble wooden doors.

Cervantes, Alexandra

From: Rod McNeely <rmcneely@ppeng.com>
Sent: Friday, December 12, 2025 5:03 PM
To: Cervantes, Alexandra
Cc: Brayden Lovik
Subject: RE: New Fresno County Courthouse EIR - site plan comments
Attachments: JCC Fresno Courthouse_NOP Site Plan with Easement notes.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

EXTERNAL EMAIL

Hi Alexandra,
It was nice to meet you last night. Based on review of the preliminary NOP site plans, I have a few comments that could be beneficial to JCC and the Criteria Architect team. These are not necessarily EIR scoping comments as they related more to the JCC's Site Acquisition study.

My firm has been involved in various projects at Courthouse Park, so we have good understanding of the campus. As I reviewed one of our files related to a City bus stop improvement project, I came across a 2014 preliminary title report and a bus stop easement document associated with the Fresno Street bus shelter improvements.

First, the title report documented a public right of vacation associated with the Fresno Street frontage near the proposed courthouse site. I know the NOP Site Plan are very preliminary, but I am concerned that the plan may not correctly reference the Fresno Street right of way based on the data that I have from 2014..

Second, based on our involvement with a Fresno Street bus shelter project, we have copies of the City's easement documents for the Fresno Street bus shelters. One of these documents refers to a 1989 unrecorded agreement between City and County for bus stop shelters. This area is in addition to a 35' wide street easement area along the Fresno Street frontage.

Both comments are graphically illustrated on the attached exhibit. You are welcome to share this with a JCC PM for the Site Acquisition and Criteria Architect phase.
We have more information, if JCC finds this helpful.

Rod McNeely, P.E.
Office: (559) 449-2700

From: Cervantes, Alexandra <Alexandra.Cervantes@jud.ca.gov>
Sent: Tuesday, December 9, 2025 1:11 PM
To: Rod McNeely <rmcneely@ppeng.com>
Cc: Brayden Lovik <BLovik@ppeng.com>
Subject: RE: New Fresno County Courthouse EIR - error in listed

Hello,

Thank you for informing us of the incorrect date. We are working on revising the notice and updating our documents to reflect Thursday.

Respectfully,

Alexandra Cervantes, Senior Facilities Analyst
Environmental Health & Safety
Judicial Council of California
2860 Gateway Oaks Drive, Suite 400, Sacramento, CA 95833
alexandra.cervantes@jud.ca.gov, www.courts.ca.gov

From: Rod McNeely <rmcneely@ppeng.com>
Sent: Monday, December 8, 2025 8:59 AM
To: Cervantes, Alexandra <Alexandra.Cervantes@jud.ca.gov>
Cc: Brayden Lovik <BLovik@ppeng.com>
Subject: New Fresno County Courthouse EIR - error in listed

EXTERNAL EMAIL

Hello Alexandra,
I reviewed the NOP for the New Fresno County Courthouse EIR. Unfortunately, the NOP includes *an incorrect reference* to the date of the public scoping meeting. The meeting is identified as Wednesday, December 11, 2025 at the Fresno Courthouse, Jury Assembly Room. Given that Wednesday is December 10th, this notice is not clear if the meeting is on Wednesday or Thursday. I also see this incorrect data referenced on the SCH website.

As you are aware, correct public noticing of a public scoping meeting within the NOP timeframe is important process to follow. There are several ways to remedy this clerical error, which should be addressed immediately.

I'm glad to discuss if you have any questions.

Rod McNeely, P.E.
Principal Engineer
PROVOST & PRITCHARD CONSULTING GROUP
455 W Fir Ave, Clovis, CA 93611
Office: (559) 449-2700
Mobile: (559) 824-0688
www.provostandpritchard.com | LinkedIn

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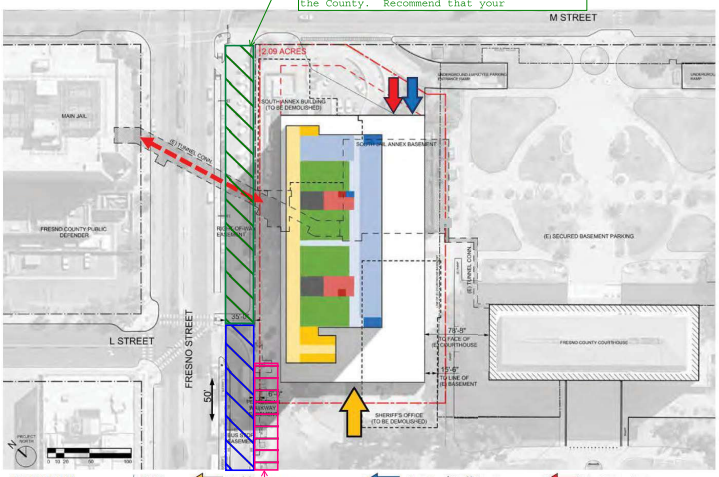
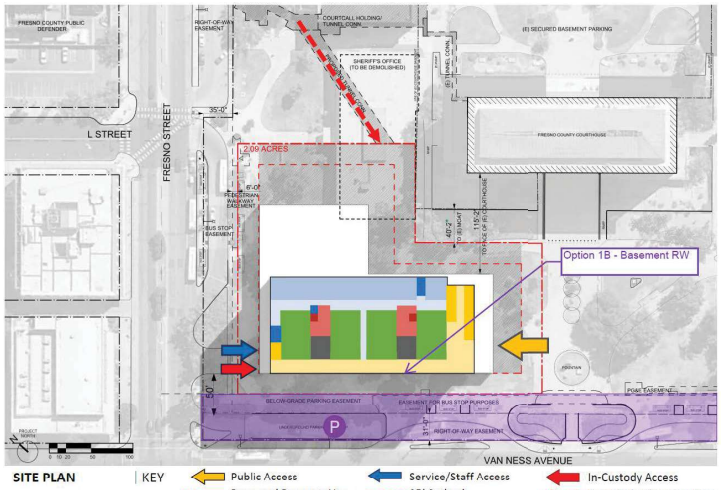
Site 1A - Preferred

This parallel parking frontage area was dedicated for public street purposes in 1956, then subsequently vacated in 1965. This acquisition area does not include the area, which would remain under control of the County. Recommend that your



The area possibly identified as a Bus Stop Easement is a 1952 Public Street Easement. Additionally, there is an unrecorded Agreement from 1989 between City and County for City bus stop facilities over a 26' wide x 139.50' long area conceptually illustrated here.

Site 1B - Alternative



Notes
1. Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
2. Data Sources: Stantec 2025. Judicial Council of California - PREFERRED 1A. COURTHOUSE PARK, Fresno St. | Pg. 17 | Sept. 25, 2023. ALTERNATE 1B. COURTHOUSE PARK, Van Ness Ave. | Pg. 15 | Sept. 14, 2023.
3. Background: Sources: Esri, GEBCO, NOAA, National Geographic, Garmin, HERE, Geonames.org, and other contributors
Esri, Garmin, GEBCO, NOAA NGDC, and other contributors

Stantec

Project Location	Prepared by DL on 2025-04-30
City of Fresno	TR by SET on 2025-04-30
Fresno County, California	IR by SR on 2025-04-30
Client/Project	185806843

Judicial Council of California
New Fresno Courthouse Project

Figure No.
3

Title
Proposed Site Plan

Disclaimer: This document has been prepared based on information provided by others as cited in the Notes section. Stantec has not verified the accuracy and/or completeness of this information and shall not be responsible for any errors or omissions which may be incorporated herein as a result. Stantec assumes no responsibility for data supplied in electronic format, and the recipient accepts full responsibility for verifying the accuracy and completeness of the data.

V:\185\Active\185806843_JCC_Fresno_Courthouse\02_data\gis_cad\arcFigure3_ProposedCourthouseLayout_20250430.mxd Revised: 2025-04-30 By: rallaw

December 24, 2025

Alexandra Cervantes, Senior Facilities Analyst
Environmental Health and Safety
Judicial Council of California
2860 Gateway Oaks Drive, Suite 400
Sacramento, CA 95833
Sent via email: Alexandra.Cervantes@jud.ca.gov

Dear Ms. Cervantes:

Thank you for the opportunity to comment on the scope of the environmental review for the New Fresno Courthouse Project of the Judicial Council of California.

The Downtown Fresno Partnership (DFP) is a §501(c)(6) nonprofit association whose purpose is to improve and promote the economic well-being of Downtown Fresno. DFP operates the public-private Downtown Fresno Property and Business Improvement District whose 352 assessed properties include the Courthouse and Courthouse Park. DFP's board is mostly elected by property owners in addition to seats for County and City of Fresno officials.

DFP supports construction of a new Superior Courthouse at the current site of the Sheriff's Department headquarters and Jail Annex, within Courthouse Park. DFP supports maximizing the value of Courthouse Park as high-quality green space for the Downtown community, both before and after construction of the new Courthouse and removal of the current Courthouse. DFP is committed to working actively with the County, State, and other agencies and community partners to help secure funding for and facilitate park planning, community engagement, event activation, and built improvements.

The New Courthouse Project has the potential to greatly impact not only the project site, but life in Downtown Fresno. The Courthouse drives activity and value in commercial real estate in nearby blocks, while Courthouse Park is Downtown's most important green space, and the site of significant cultural resources. Considering this, the Project's Environmental Impact Report (EIR) should consider impacts and benefits to:

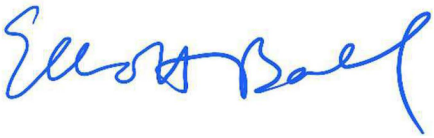
- Urban decay, by keeping the Courthouse in Courthouse Park, the location best accessible by a short walk to the most surrounding commercial office space as well as restaurants, cafes, and other retail, which help these locations remain economically viable.
- Active transportation/walkability, by ensuring high-quality pedestrian paths of travel on major routes along the park's perimeter as well as to/from the Courthouse, with a minimum of pedestrian/automobile conflicts.
- The quality of park space, in Courthouse Park as it will appear after the project is built, benefited by the proposed replacement of existing buildings that consume valuable park space.
- Cultural resources, both in the design quality of the new Courthouse and in potential reorganization of the monument locations affected by the project.

The "Project Objectives" section of the Notice of Preparation states that the project "would replace a seismically deficient facility that is non-compliant with contemporary fire, life, safety, and ADA codes." If the current facility is obsolete and should be removed, then it seems its demolition should be part of the scope of the project for environmental review purposes. Though it is unclear whether the demolition is part of currently appropriated funding, it is reasonably foreseeable consequence of the project if the building is obsolete.

Indeed the demolition, if anticipated, is integrally related to the project. The current facility's future absence should inform the siting and design of the new building. The opening of the current site would create an opportunity to plan upfront for the park space created, and the optimal siting of affected historical markers and monuments.

Thank you again for the opportunity to comment. DFP looks forward to remaining engaged in the planning and environmental review processes for the New Courthouse Project, and if possible, being a resource to help facilitate community engagement as well.

Sincerely,



Elliott Balch
President & CEO
Downtown Fresno Partnership

Cervantes, Alexandra

From: Elliott Balch <elliott@downtownfresno.org>
Sent: Wednesday, December 24, 2025 2:18 PM
To: Cervantes, Alexandra
Subject: EIR scoping comment letter
Attachments: Courthouse project scoping letter - 2025-12-24.pdf

EXTERNAL EMAIL

Alexandra,

Please find comments on the New Fresno Courthouse Project from our organization attached.

We look forward to remaining engaged with you on this exciting project.

Thank you and Merry Christmas!

Elliott Balch *he/him/él*
President & CEO
DOWNTOWN FRESNO PARTNERSHIP
2020 Tulare Street, Fresno, California 93721
Office (559) 490-9966 x106 | Cell (559) 977-5372

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DFP is proud to be the 31st Assembly District Nonprofit of the Year!

RECEIVED
JAN - 7 2025

Alexandra Cervantes, Senior Facilities Analyst
Environmental Health & Safety
Judicial Council of California
2860 Gateway Oaks Drive, Suite 400
Sacramento. CA 95833

Please fold, staple, stamp, and mail

Comment Card

New Fresno Courthouse
Scoping Meeting for Environmental Impact Report

Written comments can be submitted at the comment meeting, mailed to the Judicial Council (mailing address is on the back of this card), or emailed to Alexandra.Cervantes@jud.ca.gov by close of business on Monday, December 29, 2025. Information related to this Project is available for review on the Judicial Council's website at: https://courts.ca.gov/facilities/fresno-county-new-fresno-courthouse
(Please print clearly)

Name: BILL PARKER Date: 12-29-2025

Organization / Address:

Phone: (559) 930-1722 Email: bparker732@aol.com

I SUGGEST THAT THE NEW COURTHOUSE BE LOCATED ON THE 'M STREET' PLAZA AND ALIGNED WITH THE EXISTING GOVERNMENT BUILDINGS ON THE MARIPOSA STREET CORRIDOR. (NOT THE PROPOSED SITE AT THE CORNER OF M & FRESNO STREETS)

THIS LOCATION WOULD BE VISUALLY PLEASING AND FURTHER CREATE THE M STREET CORRIDOR OF EXISTING MID & HIGH RISE BUILDINGS - AND WOULD CENTER THE NEW COURTHOUSE BUILDING ON THE COURTHOUSE PARK - AND AT THE SITE OF THE ORIGINAL HISTORIC (DEMOLISHED) COURTHOUSE.

All comments become part of the public record.

SUGGESTED NEW FRESNO COUNTY SUPERIOR COURT HOUSE LOCATION. THIS PLAZA AREA WAS THE SITE OF THE HISTORIC FRESNO COURTHOUSE AND WOULD BE IN ALIGNMENT WITH THE CIVIC CENTER / MARIPOSA STREET GOVERNMENT CORRIDOR PLAN.

Appendix B Air Quality and Greenhouse Gas Impact Assessment

New Fresno Courthouse Project

Air Quality and Greenhouse Gas Technical Study

Stantec

Prepared for:
Judicial Council of California
2860 Gateway Oaks Dr., Suite 400
Sacramento, CA 95833

Prepared by:
Stantec Consulting Services Inc.
300 North Lake Ave, Suite 400
Pasadena, California 91101

July 2, 2026

Project/File:
185806843

Stantec Consulting Services Inc.

Disclaimer

The conclusions in the Report titled Fresno Courthouse Project Air Quality and Greenhouse Gas Technical Study are Stantec's professional opinion, as of the time of the Report, and concerning the scope described in the Report. The opinions in the document are based on conditions and information existing at the time the scope of work was conducted and do not take into account any subsequent changes. The Report relates solely to the specific project for which Stantec was retained and the stated purpose for which the Report was prepared. The Report is not to be used or relied on for any variation or extension of the project, or for any other project or purpose, and any unauthorized use or reliance is at the recipient's own risk.

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Prepared by: Matthew McPherson

Signature

Matthew McPherson

Reviewed by: Kaitlyn Heck

Signature

Kaitlyn Heck

Approved by: Crystahl Taylor

Signature

Crystahl Taylor

Table of Contents

Acronyms / Abbreviations ..... **iii**
1 Introduction **1**
1.1 Purpose of Analysis 1
1.2 Project Description 1
1.2.1 Demolition , Site Preparation, and Grading 1
1.2.2 Building Program and Design 1
1.2.3 Access and Parking 2
1.2.4 Construction Schedule and Staging 2
2 Air Quality **4**
2.1 Environmental Setting 4
2.1.1 Climate, Topography, Wind, and Meteorology 4
2.1.2 Criteria Air Pollutants 5
2.1.3 Attainment Status 8
2.1.4 Ambient Air Quality 11
2.1.5 Odors 12
2.1.6 Toxic Air Contaminants 12
2.1.7 Valley Fever 14
2.1.8 Sensitive Receptors 15
2.2 Regulatory Setting 15
2.2.1 Federal 15
2.2.2 State 16
2.2.3 Regional 19
2.2.4 Local 23
3 Greenhouse Gas **24**
3.1 Environmental Setting 24
3.1.1 Greenhouse Gases 24
3.1.2 Global Warming Potential 26
3.1.3 Sources of Greenhouse Gas Emissions 26
3.2 Regulatory Setting 27
3.2.1 Federal 27
3.2.2 State 28
3.2.3 Regional 33
3.2.4 Local 33
4 Methodology **34**
4.1 Criteria Air Pollutant and GHG Model Selection 34
4.2 Construction Modeling Assumptions 34
4.2.1 Land Use 34
4.2.2 Construction Schedule 34
4.2.3 Construction Equipment 35
4.2.4 Vehicle Trips 36
4.3 Project Operational Modeling Assumptions 36
4.4 Health Risk Assessment Methods 37
4.4.1 Modeling Assumptions 37
5 Air Quality Impact Analysis **38**
5.1 CEQA Guidelines 38
5.2 Thresholds of Significance 38
5.3 Air Impact Analysis 39
5.3.1 Contribution to Air Quality Violations 40
5.3.2 Consistency with Assumptions in Air Quality Plans 40

5.3.3 Control Measures 41
5.3.4 Conclusion 41
5.3.5 Construction Emissions 41
5.3.6 Operation and Maintenance Emissions 42
5.3.7 Conclusion 43
5.3.8 Construction 43
5.3.9 Operation 47
5.3.10 Conclusion 48
5.3.11 Construction 48
5.3.12 Operation 49
5.3.13 Conclusion 49
6 Greenhouse Gas Impact Analysis 50
6.1 CEQA Guidelines 50
6.1.1 Thresholds 50
6.1.2 Project Threshold of Significance 51
6.2 GHG Impact Analysis 53
6.2.1 Constructions Emission Inventory 53
6.2.2 Operational Emission Inventory 54
6.2.3 Conclusion 56
6.2.4 Consistency with State GHG Reduction Strategies 56
6.2.5 Conclusion 57
7 References 58

List of Tables

Table 1. California and National Ambient Air Quality Standards 9
Table 2. SJVAPCD Area Attainment Status 10
Table 3. Fresno-Drummond Street Monitoring Station Air Quality Data 11
Table 4. Estimated Statewide Greenhouse Gas Emissions Reductions in the 2022 Scoping Plan 30
Table 5. Anticipated Project Construction Schedule 35
Table 6. Anticipated Project Construction Equipment 35
Table 7. SJVAPCD Criteria Pollutant Thresholds of Significance 39
Table 8. Construction Emissions 42
Table 9. Operational Emissions 42
Table 10. Localized Concentrations of Emissions for Construction 44
Table 11: Health Risks from Project Construction at the Maximally Exposed Sensitive Receptor 47
Table 12. Localized Concentrations of Emissions for Operations 47
Table 13. GHG Efficiency Threshold 52
Table 14. Construction Greenhouse Gas Emissions 53
Table 15. Operational Greenhouse Gas Emissions 54
Table 16. Mitigated Operational Greenhouse Gas Emissions 55
Table 17. Project Consistency with 2022 Scoping Plan Greenhouse Gas Reduction Strategies 57

List of Figures

Figure 1 Project Location 3

List of Appendices

Appendix A Air Quality and GHG Emission Output Files
Appendix B AERMOD and HARP Output Files

Acronyms / Abbreviations

Acronym / Abbreviation	Full Name
2022 Scoping Plan	Final 2022 Scoping Plan for Achieving Carbon Neutrality
µg/m^3	Micrograms Per Cubic Meter
AB	Assembly Bill
ACBMs	Asbestos-Containing Building Materials
ACC	Advanced Clean Cars
AERMOD	AMS/EPA Regulatory Model
AQMP	Air Quality Management Plan
ASFs	Age sensitivity factors
BAU	Business as Usual
BMPs	Best Management Practices
BPS	Best Performance Standards
CAAQS	California Ambient Air Quality Standards
CAFE	Corporate Average Fuel Economy
CalEEMod	California Emissions Estimator Model
California DOJ	California Department of Justice
CALGreen	California Green Building Standards Code
CalRecycle	Department of Resources Recycling and Recovery
CARB	California Air Resources Board
CCAA	California Clean Air Act
CCAP	Climate Change Action Plan
CCR	California Code of Regulations
CDC	Centers for Disease Control
CEQA	California Environmental Quality Act
CFR	Code of Federal Regulations
CH_4	Methane
City	City of Fresno
CO	Carbon Monoxide
CO_2	Carbon Dioxide
CRC	California Resources Corporation

Acronym / Abbreviation	Full Name
CY	Cubic Yards
DPM	Diesel Particulate Matter
DRRP	Diesel Risk Reduction Plan
EISA	Energy Independence & Security Act
EO	Executive Order
EPCA	Energy Policy & Conservation Act
FCAA	Federal Clean Air Act
GAMAQI	Guidance for Assessing and Mitigating Air Quality Impacts
GHG	Greenhouse Gases
GWP	Global Warming Potential
HARP 2	Hotspot Analysis Reporting Program Version 2
HAP	Hazardous Air Pollutants
HFC	Hydrofluorocarbons
HHDT	Heavy heavy duty trucks
L/kg-day	Liters per kilogram of body weight per day
LCFS	Low Carbon Fuel Standard
LEV	Low-Emission Vehicle
MEIR	Maximally Exposed Individual Receptor
mg/m^3	Milligrams per cubic meter
MMT	Million Metric Tons
mph	Miles per hour
MSL	Mean Sea Level
$MTCO_2e$	Metric Tons of Carbon Dioxide Equivalents
MW	Megawatt
N_2O	Nitrous Oxide
NAAQS	National Ambient Air Quality Standards
NESHAP	National Emissions Standards for Hazardous Air Pollutants
NOA	Naturally Occurring Asbestos
NF_3	Nitrogen Trifluoride
NO_X	Oxides of Nitrogen
NO_2	Nitrogen Dioxide
O_3	Ozone

Acronym / Abbreviation	Full Name
OEHHA	Office of Environmental Health Hazard Assessment
Pb	Lead
PCFs	Perfluorocarbons
PG&E	Pacific Gas & Electric
PM	Particulate Matter
$PM_{2.5}$	Fine particulate matter; particulate matter 2.5 microns or smaller
PM_{10}	Particulate matter; particulate matter 10 microns or smaller
ppb	Parts per billion
ppm	Parts per million
Project	New Fresno City Courthouse Project
Project Site	2200 Fresno Street, Fresno, California
Pvc	Polyvinyl chloride
RAST	Risk Assessment Standalone Tool
ROG	Reactive Organic Gases
RPS	Renewable Portfolio Standard
RTP/SCS	Regional Transportation Plan/Sustainable Communities Strategy
SB	Senate Bill
SCFM	Standard Cubic Feet per Minute
SF	Square Feet
SF_6	Sulfur Hexafluoride
SJVAB	San Joaquin Valley Air Basin
SJVAPCD	San Joaquin Valley Air Pollution Control District
SIP	State Implementation Plan
SO_2	Sulfur Dioxide
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey
TAC	Toxic Air Contaminants
VDE	Visible Dust Emissions
VOC	Volatile Organic Compounds
ZEV	Zero Emission Vehicle

1 Introduction

1.1 Purpose of Analysis

The purpose of this Air Quality and Greenhouse Gas Impact Assessment is to provide a discussion of air pollutants, health risks posed to nearby sensitive receptors, and greenhouse gas (GHG) emissions from construction and operation of the Fresno Courthouse Project (Project). This evaluation relies on guidance and thresholds established by the United States Environmental Protection Agency (USEPA), the California Air Resources Board (CARB), and the San Joaquin Valley Air Pollution Control District (SJVAPCD).

1.2 Project Description

The Project would involve demolition of the existing Sheriff Administration Building and South Annex Jail buildings and construction of a modern, 36-courtroom, approximately 413,000-square-foot courthouse (Project) on the 2.09 acres of the 7.6-acre L-shaped Site 1 at 2200 Fresno Street, Fresno, California (Project Site), Figure 1. The building would be delivered through a design-build process, with separate secure and public access, and secure parking for judicial officers and law enforcement. The new courthouse would consolidate Superior Court operations currently split across multiple facilities, improving efficiency, security, and public service. It would include all case types and filings, judicial chambers, jury services, clerk and administrative offices, and dedicated secure circulation pathways. Specific Project components are detailed below.

1.2.1 Demolition , Site Preparation, and Grading

The Project would demolish the existing Sheriff Administration Building and South Annex Jail buildings (approximately 87,000 square feet) and 40,000 square feet of existing paving. It is anticipated that site preparations and grading would require the export of approximately 1,000,000 cubic yards (CY) of material and import of approximately 1,000 CY of fill material.

1.2.2 Building Program and Design

The Project would construct a new, approximately 413,000 square foot, 36 courtroom courthouse, up to 11 stories in height, delivered via a design-build method. The proposed building design would organize public functions on the ground level, with courtrooms and support spaces on upper floors. Circulation would be separated for the public, staff/judicial officers, and in-custody defendants, with secure holding and transport pathways and a sallyport (controlled entryway) providing direct access to holding areas.

1.2.3 Access and Parking

Local vehicular access to the Project Site would be provided via Fresno Street, M Street, Tulare Street, and Van Ness Avenue. Pedestrian access to the new courthouse is proposed along the west side of the building, which is adjacent to Bus Shelter L of the Downtown Courthouse Park Transit Center off of Fresno Street. Secured parking for judges and officers, as well as a sallyport for in-custody transport vehicles, are proposed within the basement level of the new courthouse building. Vehicular access to the secured parking area would be provided via a proposed driveway along M Street. Visitors to the new courthouse would utilize available off-site public parking owned by the City in the surrounding area.

1.2.4 Construction Schedule and Staging

Construction is planned to occur over 48 months with an anticipated start date in October 2029 and construction completion in October 2033. Construction laydown and staging would occur within the Project Site to the extent feasible. However, due to property line limits, the construction contractor will likely need to lease office space close to the Project Site, as well as a nearby empty lot for storage. It is assumed that the emissions from travel between the office space, storage lot, and Project site would be negligible and therefore were not included within the modeling.

Figure 1 Project Location

2 Air Quality

2.1 Environmental Setting

The Project is located within the San Joaquin Valley Air Basin (SJVAB) and within the jurisdiction of the SJVAPCD. Air pollution in the SJVAB can be attributed to both anthropogenic (i.e., human-related) and non-anthropogenic (i.e., natural) activities that can produce emissions. Air pollution from significant anthropogenic activities in the SJVAB include a variety of industrial-based sources and on- and off-road mobile sources (SJVAPCD 2015).

2.1.1 Climate, Topography, Wind, and Meteorology

The SJVAB has an "inland Mediterranean" climate and is characterized by long, hot, dry summers and short, foggy winters. Sunlight can be a catalyst in the formation of some air pollutants (such as ozone [O_3]), and the SJVAB averages over 260 sunny days per year. The SJVAB is generally shaped like a bowl: it is open in the north and is surrounded by mountain ranges on all other sides. The Sierra Nevada are along the eastern boundary and rise 8,000–14,000 feet in elevation; the Coast Ranges are along the western boundary, rising to 3,000 feet; and the Tehachapi Mountains are along the southern boundary at 6,000–8,000 feet in elevation (SJVAPCD 2015).

Dominant airflows provide the driving mechanism for transport and dispersion of air pollution. The mountains surrounding the SJVAB form natural horizontal barriers to the dispersion of air contaminants. The wind generally flows south-southeast through the valley, through the Tehachapi Pass and into the Southeast Desert Air Basin portion of Kern County. As the wind moves through the SJVAB, it mixes with the air pollution generated locally, transporting air pollutants from the north to the south in the summer and in a reverse flow in the winter (SJVAPCD 2015).

Strong temperature inversions occur throughout the SJVAB in the summer, fall, and winter. The result is a relatively high concentration of air pollution in the valley during inversion episodes. These inversions cause haziness, which in addition to moisture may include suspended dust, a variety of chemical aerosols emitted from vehicles, particulates from wood stoves, and other pollutants. In the winter, these conditions can lead to carbon monoxide hotspots along heavily traveled roads and at busy intersections. During summer's longer daylight hours, stagnant air, high temperatures, and plentiful sunshine provide the conditions and energy for the photochemical reaction between reactive organic gases (ROG) and oxides of nitrogen (NOx), which results in the formation of O_3 (SJVAPCD 2015).

Because of the prevailing daytime winds and time-delayed nature of O_3, concentrations are highest in the southern portion of the SJVAB. Summers often have periods of hazy visibility and occasionally unhealthful air. Winter air quality impacts tend to be localized and can consist of, but are not exclusive to, odors from agricultural operations; soot or smoke around residential, agricultural, and hazard-reduction wood burning; or dust near mineral resource recovery operations (SJVAPCD 2015).

2.1.2 Criteria Air Pollutants

Criteria air pollutants include O_3, CO, nitrogen dioxide (NO_2), sulfur dioxide (SO_2), lead (Pb), and particulate matter (PM) measured both in units of smaller than 2.5 microns in diameter ($PM_{2.5}$) and in units smaller than 10 microns in diameter (PM_{10}) (USEPA 2025a). In addition, sulfates (SO_4), H_2S, vinyl chloride, and visibility reducing particles, are not considered criteria pollutants by the Federal Clean Air Act (FCAA) but are pollutants of concern for the state.

2.1.2.1 Ozone (O_3)

Most ground-level O_3 is formed as a result of complex photochemical reactions in the atmosphere between ROGs, NOx, and oxygen. ROGs and NOx are considered precursors to the formation of O_3, a highly reactive gas that can damage lung tissue and affect respiratory function (USEPA 2025b). O_3 can damage the respiratory tract, causing inflammation and irritation, and it can induce symptoms, such as coughing, chest tightness, shortness of breath, and worsening of asthmatic symptoms. O_3 in sufficient doses increases the permeability of lung cells, rendering them more susceptible to toxins and microorganisms. Exposure to high concentrations of O_3 (above the current ambient air quality standard) leads to lung inflammation, lung tissue damage, and a reduction in the amount of air inhaled into the lungs. Health effects include potential increased susceptibility to respiratory infections and reduced ability to exercise. Health effects are more severe in people with asthma and other respiratory ailments. People who work or play outdoors are at a greater risk for harmful health effects from O_3. Children and adolescents are also at greater risk because they are more likely than adults to spend time engaged in vigorous activities (USEPA 2025c). While O_3 in the lower atmosphere is considered a damaging air pollutant, O_3 in the upper atmosphere is beneficial, as it protects Earth from harmful ultraviolet radiation. However, atmospheric processes preclude ground-level O_3 from reaching the upper atmosphere (USEPA 2025b).

2.1.2.2 Carbon Monoxide (CO)

CO is a colorless, odorless, poisonous gas produced by the incomplete combustion of fossil fuels. Elevated levels of CO can result in harmful health effects, especially for the young and elderly, and can also contribute to global climate change (USEPA 2025d). When inhaled, CO enters the bloodstream and binds more readily to hemoglobin, the oxygen-carrying protein in blood, than oxygen, thereby reducing the oxygen-carrying capacity of blood and reducing oxygen delivery to organs and tissues. The health threat from CO is most serious for those who suffer from cardiovascular disease. Healthy individuals are also affected, but only at higher levels of exposure. Exposure to CO can cause chest pain, headaches, and reduced mental alertness. At high concentrations, CO can cause heart difficulties in people with chronic diseases and can impair mental abilities. Exposure to elevated CO levels is associated with visual impairment, reduced work capacity, reduced manual dexterity, poor learning ability, difficulty performing complex tasks, and, with prolonged enclosed exposure, death.

2.1.2.3 Nitrogen Dioxide (NO_2)

NO_2 is a brownish, highly reactive gas primarily produced as a result of the burning of fossil fuels. NO_2 can also lead to the formation of O_3 in the lower atmosphere. NO_2 can cause respiratory ailments, especially in the young and elderly, and can lead to degradations in the health of aquatic and terrestrial ecosystems (USEPA 2025e). Direct inhalation of NO_2 can cause a wide range of health effects, including irritation of the lungs, lung damage, and lowered resistance to respiratory infections, such as influenza. Short-term exposures (e.g., less than 3 hours) to low levels of NO_2 may lead to changes in airway responsiveness and lung function in individuals with preexisting respiratory illnesses. These exposures may also increase respiratory illnesses in children. Long-term exposures to NO_2 may lead to increased susceptibility to respiratory infection and may cause irreversible lung damage. Other health effects associated with NO_2 include an increase in the incidence of chronic bronchitis and lung irritation.

2.1.2.4 Sulfur Dioxide (SO_2)

SO_2 is primarily emitted from the combustion of coal and oil by steel mills, pulp and paper mills, and non-ferrous smelters. High concentrations of SO_2 can aggravate existing respiratory and cardiovascular diseases in asthmatics and others who suffer from emphysema or bronchitis. High concentrations of SO_2 can result in temporary breathing impairment for asthmatic children and adults who are active outdoors. Health effects from exposure to emissions of SO_2 include aggravation of lung diseases, especially bronchitis, and constricting of breathing passages, especially in asthmatics and people involved in moderate to heavy exercise. Short-term exposures of individuals to elevated SO_2 levels during moderate activity may result in health effects, including breathing difficulties that can be accompanied by symptoms, such as wheezing, chest tightness, or shortness of breath. Other health effects that have been associated with longer-term exposures to high concentrations of SO_2, in conjunction with high levels of particulate matter, include aggravation of existing cardiovascular disease, respiratory illness, and alterations in the lungs' defenses. SO_2 also contributes to acid rain, which in turn, can lead to the acidification of lakes and streams (USEPA 2025f, CARB 2025a).

2.1.2.5 Lead (Pb)

Sources of Pb include pipes, fuel, and paint, although the use of Pb in these materials has declined dramatically over the years. Historically, the main source of Pb was automobile emissions. Pb can be inhaled directly or ingested by consuming Pb-contaminated food, water, or dust. Fetuses and children are most susceptible to Pb poisoning, which can result in heart disease and nervous system damage (USEPA 2025g). Through regulations, the USEPA has gradually reduced the Pb content of gasoline. This program has essentially eliminated violations of the Pb standard in urban areas except those areas with Pb point sources. Exposure to Pb occurs mainly through inhalation of air and ingestion of Pb in food, water, soil, or dust. It accumulates in the blood, bones, and soft tissues and can adversely affect the kidneys, liver, nervous system, and other organs. Excessive exposure to Pb may cause neurological impairments, such as seizures, mental retardation, and behavioral disorders. Even at low doses, Pb exposure is associated with damage to the nervous systems of fetuses and young children, resulting in learning deficits and lowered IQ. Recent studies also show that Pb may be a factor in high blood pressure

and subsequent heart disease. Pb can also be deposited on the leaves of plants, presenting a hazard to grazing animals and humans through ingestion (USEPA 2025g).

2.1.2.6 Particulate Matter (PM)

Airborne PM is not a single pollutant, but rather is a mixture of many chemical species. PM is a complex mixture of solids and aerosols composed of small droplets of liquid, dry solid fragments, and solid cores with liquid coatings. Particles vary widely in size, shape, and chemical composition; and they may contain inorganic ions, metallic compounds, elemental carbon, organic compounds, and compounds from Earth's crust. Particles are defined by their diameter for air quality regulatory purposes. Those with a diameter of 10 microns or less (PM_{10}) are inhalable into the lungs and can induce adverse health effects. Fine particulate matter is defined as particles that are 2.5 microns or less in diameter ($PM_{2.5}$) and is a portion of PM_{10}. Emissions from combustion of gasoline, oil, diesel fuel, or wood produce much of the $PM_{2.5}$ pollution found in outdoor air and a significant proportion of PM_{10}. PM_{10} also includes dust from construction sites, landfills and agriculture, wildfires and brush or waste burning, industrial sources, wind-blown dust from open lands, pollen, and fragments of bacteria.

PM may be either directly emitted from sources (primarily particles) or formed in the atmosphere through chemical reactions of gases (secondary particles) such as SO_2, NOx, and certain organic compounds (USEPA 2025h).

PM_{10} and $PM_{2.5}$ particles are small enough—about one-seventh the thickness of a human hair or smaller—to be inhaled and lodged in the deepest parts of the lung, where they evade the respiratory system's natural defenses and can be trapped in the nose, throat, and upper respiratory tract. Health effects from exposure to PM_{10} and $PM_{2.5}$ occur when the body reacts to these foreign particles. Acute and chronic health effects associated with high particulate levels include the aggravation of chronic respiratory diseases; heart and lung disease; and coughing, bronchitis, and respiratory illnesses in children. Recent mortality studies have shown a statistically significant direct association between mortality and daily concentrations of PM in the air. PM_{10} and $PM_{2.5}$ can aggravate respiratory disease and cause lung damage, cancer, and premature death. Sensitive populations, including children, the elderly, exercising adults, and those suffering from chronic lung disease, such as asthma or bronchitis, are especially vulnerable to the effects of PM. Of greatest concern are recent studies that link PM exposure to the premature death of people who already have heart and lung disease, especially the elderly. Acidic PM can also damage humanmade materials and is a major cause of reduced visibility in many parts of the United States. Non-health-related effects include reduced visibility and soiling of buildings (CARB 2025b).

2.1.2.7 Sulfates

Sulfates are a category of chemicals that contain the fully oxidized ionic form of sulfur (SO_4^{2-}) in combination with metal or hydrogen ions. In California, emissions of sulfur compounds occur primarily from the combustion of petroleum-derived fuels (e.g., gasoline and diesel fuel) that contain sulfur.

CARB's sulfate standard is designed to prevent aggravation of respiratory symptoms. Effects of sulfate exposure at levels above the standard include a decrease in oxygen intake, aggravation of asthmatic symptoms, and an increased risk of cardio-pulmonary disease. When acidic pollutants and particulates are also present, SO_2 tends to have an even more toxic effect. Sulfate particles are usually acidic and contribute to acid rain (CARB 2025c). There are currently no adopted National Ambient Air Quality Standards (NAAQS) for sulfates.

2.1.2.8 Hydrogen Sulfide (H_2S)

H_2S is associated with geothermal activity, oil and gas production, refining, sewage treatment plants, and confined animal feeding operations. H_2S in the atmosphere would likely oxidize into SO_2 that can cause acid rain. At low concentrations, H_2S, which has a characteristic "rotten egg" smell, may cause irritation to the eyes, mucous membranes, and respiratory system, dizziness, and headaches. At high concentrations, H_2S is extremely hazardous, especially in enclosed spaces (CARB 2025d). There are currently no adopted NAAQS for H_2S.

2.1.2.9 Vinyl Chloride

Vinyl chloride is a sweet-smelling colorless gas at ambient temperature. Landfills, publicly owned treatment works, and polyvinyl chloride (PVC) production are the major identified sources of vinyl chloride emissions in California. PVC can be fabricated into several products, such as PVC pipes, pipe fittings, and plastics. In humans, epidemiological studies of occupationally exposed workers have linked vinyl chloride exposure to development of liver angiosarcoma, which is a rare cancer, and have suggested a relationship between exposure cancers of the lung and brain (CARB 2025e). There are currently no adopted NAAQS for vinyl chloride.

2.1.2.10 Visibility Reducing Particles

Visibility reducing particles consist of suspended particulate matter, which is a complex mixture of tiny particles that consists of dry solid fragments, solid cores with liquid coatings, and small droplets of liquid. Except for Lake County, which is designated to be in attainment, California's attainment status with respect to visibility reducing particles is currently designated as unclassified (CARB 2025f). There are currently no adopted NAAQS for visibility reducing particles.

2.1.3 Attainment Status

The USEPA and CARB designate air basins where ambient air quality standards are exceeded as "non-attainment" areas. If standards are met, the area is designated as an "attainment" area. If there is inadequate or inconclusive data to make a definitive attainment designation, they are considered "unclassified." National non-attainment areas are further designated as marginal, moderate, serious, severe, or extreme as a function of deviation from standards. Attainment status is based on the NAAQS and the California Ambient Air Quality Standards (CAAQS). Non-attainment-Transitional is a designation given by the state to indicate exceedance of the state standard no more than three times at any monitoring location within the district in a single calendar year. Each standard has a different definition, or

"form" of what constitutes attainment, based on specific air quality statistics. For example, the federal 8-hour CO standard is not to be exceeded more than once per year; therefore, an area is in attainment of the CO standard if no more than one 8-hour ambient air monitoring value exceeds the threshold per year. In contrast, the federal annual standard for $PM_{2.5}$ is met if the three-year average of the annual average $PM_{2.5}$ concentration is less than or equal to the standard.

The FCAA identifies two types of NAAQS. Primary standards provide public health protection, including protecting the health of sensitive populations such as asthmatics, children, and the elderly. Secondary standards provide public welfare protection, including protection against decreased visibility and damage to animals, crops, vegetation, and buildings (CARB 2024a). The CAAQS are equal to or more stringent than the NAAQS and include pollutants for which national standards do not exist. Table 1 presents the applicable CAAQS and NAAQS.

Table 1. California and National Ambient Air Quality Standards

Pollutant	Averaging Time	California Standards[1]	National Standards[2]	
			Primary	Secondary
Ozone (O_3)	8-hour	0.070 ppm (137 µg/m^3)	0.070 ppm (137 µg/m^3)	Same as Primary Standards
	1-hour	0.09 ppm (180 µg/m^3)	--	
Carbon monoxide (CO)	8-hour	9.0 ppm (10 mg/m^3)	9 ppm (10 mg/m^3)	--
	1-hour	20 ppm (23 mg/m^3)	35 ppm (40 mg/m^3)	
Nitrogen dioxide (NO_2)	Annual arithmetic mean	0.030 ppm (57 µg/m^3)	0.053 ppm (100 µg/m^3)	
	1-hour	0.18 ppm (339 µg/m^3)	100 ppb (188 µg/m^3)	Same as Primary Standard
Sulfur dioxide (SO_2)	24-hour	0.04 ppm (105 µg/m^3)		--
	3-hour	--	--	0.5 ppm (1300 µg/m^3)
	1-hour	0.25 ppm (655 µg/m^3)	75 ppb	--
Respirable Particulate Matter Smaller than 10 Microns in Diameter (PM_{10})	Annual arithmetic mean	20 µg/m^3	--	Same as Primary Standards
	24-hour	50 µg/m^3	150 µg/m^3	
Respirable Particulate Matter Smaller than 2.5 Microns in Diameter ($PM_{2.5}$)	Annual arithmetic mean	12 µg/m^3	9.0 µg/m^3	15 µg/m^3
	24-hour	No separate standard	35 µg/m^3	Same as Primary Standards
Sulfates	24-hour	25 µg/m^3	--	--
Lead (Pb)	30-day average	1.5 µg/m^3	--	--
	Rolling 3-month average	--	0.15 µg/m^3	Same as Primary Standard
Hydrogen sulfide (H_2S)	1-hour	0.03 ppm (42 µg/m^3)	--	--
Vinyl chloride (chloroethene)	24-hour	0.01 ppm (26 µg/m^3)	--	--

Pollutant	Averaging Time	California Standards[1]	National Standards[2]	
			Primary	Secondary
Visibility reducing particles	8-hour	In 1989, the Air Resources Board converted the general statewide 10-mile visibility standard to instrumental equivalents, which are extinction of 0.23 per kilometer.	--	--

Notes:
[1] CO, SO_2 (1- and 24-hour), NO_2, O_3, PM_{10}, and visibility reducing particles standards are not to be exceeded.
[2] Not to be exceeded more than once a year except for annual standards.
-- = no standard established
$\mu g/m^3$ = micrograms per cubic meter
mg/m^3 = milligrams per cubic meter
ppm = parts per million
Source: CARB 2024a.

The current attainment designations for the SJVAPCD are shown in Table 2. The SJVAPCD is designated as non-attainment for state and federal eight-hour O_3, state one-hour O_3, state PM_{10}, and federal and state $PM_{2.5}$.

Table 2. SJVAPCD Area Attainment Status

Pollutant	Designation/Classification of Federal Standards	Designation/Classification of State Standards
Ozone – One hour	No Federal Standard	Non-attainment
Ozone – Eight Hour	Non-attainment[1]	Non-attainment
PM_{10}	Attainment	Non-attainment
$PM_{2.5}$	Non-attainment	Non-attainment
Carbon Monoxide	Unclassifiable/Attainment	Unclassified/Attainment
Nitrogen Dioxide	Unclassifiable/Attainment	Attainment
Sulfur Dioxide	Unclassifiable/Attainment	Attainment
Lead	Unclassifiable/Attainment	Attainment
Hydrogen Sulfide	No Federal Standard	Unclassified
Sulfates	No Federal Standard	Attainment
Visibility Reducing Particles	No Federal Standard	Unclassified
Vinyl Chloride	No Federal Standard	Attainment

Source: SJVAPCD 2025.

2.1.4 Ambient Air Quality

SJVAPCD operates a regional monitoring network that measures the ambient concentrations of criteria pollutants. Local air quality can be evaluated by reviewing relevant air pollution concentrations near the Project. Table 3 summarizes published monitoring data from the Fresno-Drummond Street Monitoring Station at 4706 E Drummond Ave, Fresno, California, for the years 2022 to 2024 from CARB's Air Quality Data Statistics for O_3, PM_{10}, and NO_2. Additionally, data from the Fresno-2482 Foundry Park Avenue Monitoring Station at 2482 Foundry Park Ave, Fresno, California for $PM_{2.5}$ is presented (CARB 2025g). Other monitoring stations in Fresno County do not measure CO or SO_2; therefore, CO and SO_2 ambient concentrations are not included in the table.

Table 3. Fresno-Drummond Street Monitoring Station Air Quality Data

Air Pollutant	Averaging Time	Item	2022	2023	2024
Ozone	1 Hour	Max 1 hour (ppm)	0.111	0.102	0.109
		Days above state standard (0.09 ppm)	3	3	8
	8 Hour	Max 8 hour (ppm)	0.089	0.088	0.086
		Days above state standard (0.070 ppm)	8	24	35
		Days above national standard (0.070 ppm)	8	20	35
		Days above national standard (0.075 ppm)	4	12	18
PM_{10}	24-Hour	Federal max 24 hours (µg/m^3)	73.4	131.1	181.9
		Measured days above federal 24-hour standard	0	0	1
		State max 24 hours (µg/m^3)	166.5	130.0	151.3
		Measured days above state 24-hour standard	133	120	113
		Annual average	31.2	42.7	45.4
$PM_{2.5}$	24-Hour	Max 24 hours (µg/m^3)	54.6	51.3	57.2
		Measured days above 24-hour standard	21	7	8
		Annual average	14.7	12.5	13.5
NO_2	1-hour	Max 1 hour (ppb)	58.3	58.1	58.9
		Annual average	12	10	9
		Days above state standard (180 ppb)	0	0	0
		Days above national standard (100 ppb)	0	0	0

Source: California Air Resources Board. 2025g. iADAM: Air Quality Data Statistics.
Key:
µg/m^3 = micrograms per liter
$PM_{2.5}$ = particulate matter less than 2.5 microns in aerodynamic diameter
PM_{10} = particulate matter between 2.5 and 10 microns in aerodynamic diameter
ppm = parts per million

2.1.5 Odors

Typically, odors are regarded as an annoyance rather than a health hazard. However, manifestations of a person's reaction to foul odors can range from the psychological (i.e., irritation, anger, or anxiety) to the physiological (i.e., circulatory and respiratory effects, nausea, vomiting, and headache).

The ability to detect odors varies considerably among the population and is subjective. Some individuals can smell very minute quantities of specific substances; others have varying sensitivities to odors; and people may have different reactions to the same odor (e.g., bakery, gasoline). It is important to note that an unfamiliar odor is more easily detected and is more likely to cause complaints than a familiar one. This is because of the phenomenon known as odor fatigue, in which a person can become desensitized to almost any odor and recognition only occurs with an alteration in the intensity.

Quality and intensity are two properties present in any odor. The quality of an odor indicates the nature of the smell experience; e.g., a description of flowery or sweet. Intensity refers to the strength of the odor and depends on the odorant concentration in the air. When an odorous sample is progressively diluted, the odorant concentration decreases, the odor intensity weakens, and it eventually becomes so low that the detection or recognition of the odor is quite difficult. At some point during dilution, the concentration of the odorant drops below a human's detection threshold.

Neither the state nor the federal governments have adopted rules or regulations for the control of odor sources. Potential odors may be subject to SJVAPCD Rule 4102, Nuisance.

2.1.6 Toxic Air Contaminants

Toxic Air Contaminants (TACs) are air pollutants that may cause or contribute to an increase in mortality or serious illness, or which may pose a hazard to human health. TACs are usually present in minute quantities in the ambient air; but due to their high toxicity, they may pose a threat to public health even at very low concentrations. Because there is no threshold level below which adverse health impacts are not expected to occur, TACs differ from criteria pollutants for which acceptable levels of exposure can be determined and for which state and federal governments have set ambient air quality standards. TACs, therefore, are not considered "criteria pollutants" under either the FCAA or the California Clean Air Act (CCAA) and are not subject to NAAQS or CAAQS ambient air quality standards. Instead, USEPA and CARB regulate hazardous air pollutants (HAPs) and TACs, respectively, through statutes and regulations that generally require the use of the maximum or best available control technology to limit emissions. In conjunction with SJVAPCD rules, these federal and state statutes and regulations establish the regulatory framework for TACs. At the national level, USEPA has established national emission standards for hazardous air pollutants (NESHAP) in accordance with the requirements of the federal CAA and subsequent amendments. These are technology-based, source-specific regulations that limit allowable emissions of HAPs.

Within California, TACs are regulated primarily through the Tanner Air Toxics Act (Assembly Bill [AB] 1807) and the Air Toxics Hot Spots Information and Assessment Act of 1987 (AB 2588). AB 1807 sets forth a formal procedure for CARB to designate substances as TACs. The following provides a summary of the primary TACs of concern within the state of California and related health effects.

2.1.6.1 Diesel Particulate Matter

Diesel particulate matter (DPM) was identified as a TAC by CARB in August 1998. DPM is emitted from both mobile and stationary sources. In California, on-road diesel-fueled vehicles contribute approximately 42 percent of the statewide total, with an additional 55 percent attributed to other mobile sources such as construction and mining equipment, agricultural equipment, and transport refrigeration units. Stationary sources, contributing about three percent of emissions, include shipyards, warehouses, heavy equipment repair yards, and oil and gas production operations. Emissions from these sources are from diesel-fueled internal combustion engines. Stationary sources that report DPM emissions also include heavy construction, manufacturers of asphalt paving materials and blocks, and diesel-fueled electrical generation facilities (CARB 2025b).

In October 2000, CARB issued a report entitled *Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-Fueled Engines and Vehicles*, which is commonly referred to as the Diesel Risk Reduction Plan (DRRP). The DRRP provides a mechanism for combating the DPM problem. The goal of the DRRP is to reduce concentrations of DPM. The key elements of the DRRP are to clean up existing engines through engine retrofit emission control devices, to adopt stringent standards for new diesel engines, and to lower the sulfur content of diesel fuel through advanced technology emission control devices on diesel engines. When fully implemented, the DRRP will significantly reduce emissions from both old and new diesel-fueled motor vehicles and from stationary sources that burn diesel fuel. In addition to these strategies, CARB continues to promote the use of alternative fuels and electrification. As a result of these actions, DPM concentrations and associated health risks in future years are projected to decline (CARB 2025b). In comparison to year 2010 inventory of statewide DPM emissions, CARB estimates that emissions of DPM in 2035 will be reduced by more than 50 percent.

DPM is typically composed of carbon particles (also called “soot” or “black carbon”) and numerous organic compounds, including over 40 known cancer-causing organic substances. Examples of these chemicals include polycyclic aromatic hydrocarbons, benzene, formaldehyde, acetaldehyde, acrolein, and 1,3-butadiene. Diesel exhaust also contains gaseous pollutants, including volatile organic compounds and NOx. NOx emissions from diesel engines are important because they can undergo chemical reactions in the atmosphere leading to formation of $PM_{2.5}$ and O_3.

In California, diesel exhaust particles have been identified as a carcinogen accounting for an estimated 70 percent of the total known cancer risks in California. DPM is estimated to increase statewide cancer risk by 520 cancer occurrences per million residents exposed over an estimated 70-year lifetime. Non-cancer health effects associated with exposure to DPM include premature death, exacerbated chronic heart and lung disease, including asthma, and decreased lung function in children. Short-term exposure to diesel exhaust can also have immediate health effects. Diesel exhaust can irritate the eyes, nose, throat and lungs, and it can cause coughs, headaches, lightheadedness, and nausea. In studies with

human volunteers, diesel exhaust particles made people with allergies more susceptible to the materials to which they are allergic, such as dust and pollen. Exposure to diesel exhaust also causes inflammation in the lungs, which may aggravate chronic respiratory symptoms and increase the frequency or intensity of asthma attacks (CARB 2025b).

Individuals most vulnerable to non-cancer health effects of DPM are children whose lungs are still developing and the elderly who often have chronic health problems. The elderly and people with emphysema, asthma, and chronic heart and lung disease are especially sensitive to DPM (CARB 2025b). In addition to its health effects, DPM significantly contributes to haze and reduced visibility.

2.1.6.2 Asbestos

Asbestos is the name given to a number of naturally occurring fibrous silicate minerals with useful properties such as thermal insulation, chemical and thermal stability, and high tensile strength. The three most common types of asbestos are chrysotile, amosite, and crocidolite. Chrysotile, also known as white asbestos, is the most common type of asbestos found in buildings. Chrysotile makes up approximately 90 to 95 percent of all asbestos contained in buildings in the United States. Exposure to asbestos fibers may result in health issues such as lung cancer, mesothelioma (a rare cancer of the thin membranes lining the lungs, chest, and abdominal cavity), and asbestosis (a non-cancerous lung disease that causes scarring of the lungs). Exposure to asbestos can occur during demolition or remodeling of buildings constructed prior to 1977 when it was banned for use in buildings. Exposure to naturally occurring asbestos (NOA) can occur during soil disturbing activities in areas with deposits present (USEPA 2025i).

2.1.7 Valley Fever

Valley Fever is an infection caused by a fungus that lives in the soil. About 10,000 U.S. cases are reported each year, mostly from Arizona and California. Valley fever can be misdiagnosed because its symptoms are like those of other illnesses.

The fungus that causes Valley fever, *Coccidioides*, grows naturally and is found in the southwestern United States, parts of Mexico and Central America, and parts of South America. The fungus is endemic in many areas within the SJVAB. People can get this infection by breathing in fungal spores from the air, especially when the wind blows or when dirt with the fungal spores is moved by human activity. About 40 percent of the people who come into contact with the fungal spores will develop symptoms that may require medical treatment and the symptoms will not go away on their own. Some people may develop a more severe infection, especially those with compromised immune systems (Centers for Disease Control [CDC] 2020).

2.1.8 Sensitive Receptors

Some land uses are considered more sensitive to air pollution than others due to the types of population groups or activities involved. Sensitive population groups include children, the elderly, the acutely ill, and the chronically ill, especially those with cardiovascular diseases. Examples of sensitive receptors include hospitals, residences, convalescent facilities, and schools. The nearest sensitive receptors to the Project Site include the residential units to the north of the Project Site, along M Street, and to the east, along Tulare Street. The closest residential unit is an apartment approximately 750 feet from the Project's eastern boundary.

2.2 Regulatory Setting

Air quality within the Project area is regulated by several jurisdictions, including the USEPA, CARB, and SJVAPCD. Each of these jurisdictions develops rules, regulations, and policies to attain the goals or directives imposed upon them through legislation. Although USEPA regulations may not be superseded, both state and local regulations may be more stringent.

2.2.1 Federal

2.2.1.1 United States Environmental Protection Agency

At the federal level, the USEPA has been charged with implementing national air quality programs. The USEPA's air quality mandates are drawn primarily from the FCAA, which was signed into law in 1970. Congress substantially amended the FCAA in 1977 and again in 1990.

2.2.1.1.1 Federal Clean Air Act

The FCAA required the USEPA to establish NAAQS, and also set deadlines for their attainment. Two types of NAAQS have been established: primary standards, which protect public health, and secondary standards, which protect public welfare from non-health-related adverse effects, such as visibility restrictions. NAAQS are summarized in Table 1.

2.2.1.1.2 National Emission Standards for Hazardous Air Pollutants

Pursuant to the FCAA of 1970, the USEPA established the National Emission Standards for Hazardous Air Pollutants (NESHAPs). These are technology-based source-specific regulations that limit allowable emissions of HAPs. Among these sources include asbestos-containing building materials (ACBMs). NESHAPs include requirements pertaining to the inspection, notification, handling, and disposal of ACBMs associated with the demolition and renovation of structures.

2.2.1.1.3 Non-Road Diesel Rule

The USEPA has established a series of increasingly strict emissions standards for new off-road diesel equipment, on-road diesel trucks, and locomotives. New construction equipment used for the Project, including heavy-duty trucks and off-road construction equipment, would be required to comply with the emissions standards.

2.2.2 State

2.2.2.1 California Air Resources Board

The CARB is the agency responsible for coordination and oversight of state and local air pollution control programs in California and for implementing the CCAA of 1988. Other CARB duties include monitoring air quality (in conjunction with air monitoring networks maintained by air pollution control districts and air quality management districts), establishing CAAQS, which in many cases are more stringent than the NAAQS, and setting emissions standards for new motor vehicles. The emission standards established for motor vehicles differ depending on various factors including the model year, and the type of vehicle, fuel and engine used. The CAAQS are summarized in Table 1.

2.2.2.2 California Clean Air Act

The CCAA requires that all air districts in the state endeavor to achieve and maintain CAAQS for O_3, CO, SO_2, and NO_2 by the earliest practical date. The CCAA specifies that districts focus attention on reducing the emissions from transportation and area-wide emission sources, and the act provides districts with authority to regulate indirect sources. Each district plan is required to either (1) achieve a 5 percent annual reduction, averaged over consecutive three-year periods, in district-wide emissions of each non-attainment pollutant or its precursors, or (2) to provide for implementation of all feasible measures to reduce emissions. Any planning effort for air quality attainment would thus need to consider both state and federal planning requirements.

2.2.2.3 Assembly Bills 1807 & 2588 - Toxic Air Contaminants

Within California, TACs are regulated primarily through AB 1807 (Tanner Air Toxics Act) and AB 2588 (Air Toxics Hot Spots Information and Assessment Act of 1987). The Tanner Air Toxics Act sets forth a formal procedure for CARB to designate substances as TACs. This includes research, public participation, and scientific peer review before CARB designates a substance as a TAC.

Existing sources of TACs that are subject to the Air Toxics Hot Spots Information and Assessment Act are required to: (1) prepare a toxic emissions inventory; (2) prepare a risk assessment if emissions are significant; (3) notify the public of significant risk levels; and (4) prepare and implement risk reduction measures.

2.2.2.4 Regulatory Attainment Designations

Under the CCAA, CARB is required to designate areas of the state as attainment, nonattainment, or unclassified with respect to applicable standards. An “attainment” designation for an area signifies that pollutant concentrations did not violate the applicable standard in that area. A “nonattainment” designation indicates that a pollutant concentration violated the applicable standard at least once, excluding those occasions when a violation was caused by an exceptional event, as defined in the criteria. Depending on the frequency and severity of pollutants exceeding applicable standards, the nonattainment designation can be further classified as serious nonattainment, severe nonattainment, or extreme nonattainment, with extreme nonattainment being the most severe of the classifications. An “unclassified” designation signifies that the data does not support either an attainment or nonattainment designation. The CCAA divides districts into moderate, serious, and severe air pollution categories, with increasingly stringent control requirements mandated for each category.

The USEPA designates areas for O_3, CO, and NO_2 as “does not meet the primary standards,” “cannot be classified,” or “better than national standards.” For SO_2, areas are designated as “does not meet the primary standards,” “does not meet the secondary standards,” “cannot be classified,” or “better than national standards.” However, CARB terminology of attainment, nonattainment, and unclassified is more frequently used. The USEPA uses the same sub-categories for nonattainment status: serious, severe, and extreme. In 1991, USEPA assigned new nonattainment designations to areas that had previously been classified as Group I, II, or III for PM_{10} based on the likelihood that they would violate national PM_{10} standards. All other areas are designated “unclassified.”

2.2.2.5 Low-Emission Vehicle Program and Zero-Emission Vehicle Program

The CARB first adopted Low-Emission Vehicle (LEV) program standards in 1990. These first LEV standards ran from 1994 through 2003. LEV II regulations, running from 2004 through 2010, represent continuing progress in emission reductions. As the state’s passenger vehicle fleet continues to grow and more sport utility vehicles and pickup trucks are used as passenger cars rather than work vehicles, the more stringent LEV II standards were adopted to provide reductions necessary for California to meet federally mandated clean air goals outlined in the 1994 State Implementation Plan (SIP). In 2012, CARB adopted the LEV III amendments to California’s LEV regulations. These amendments include more stringent emission standards for both criteria pollutants and GHGs for new passenger vehicles.

The Advanced Clean Cars II (ACC II) regulation builds on the Advanced Clean Cars (ACC) rule adopted in 2012. ACC II decreases emissions by increasing electric vehicle (EV) sales via two programs. First, the Zero-Emission Vehicle (ZEV) program requires ZEVs, defined as battery-electric vehicles (BEVs) or fuel-cell-electric vehicles (FCEVs), to comprise an increasing portion of annual vehicle sales. Under the ZEV program, original equipment manufacturers must increase sales of ZEVs from 35 percent in 2026 to 100 percent in 2035. Second, ACC II further strengthened the LEV program discussed above, with more stringent emission standards beginning with model year 2025.

2.2.2.6 On-Road Heavy-Duty Vehicle Program

The CARB has adopted standards for emissions from various types of new on-road heavy-duty vehicles. Section 1956.8, Title 13, California Code of Regulations (CCR) contains California's emission standards for on-road heavy-duty engines and vehicles, and test procedures. CARB has also adopted programs to reduce emissions from in-use heavy-duty vehicles including the Heavy-Duty Diesel Vehicle Idling Reduction Program, the Heavy-Duty Diesel In-Use Compliance Program, the Public Bus Fleet Rule and Engine Standards, and the School Bus Program and others.

In addition, the CARB's Truck and Bus regulation was established to meet federal attainment standards. This regulation requires heavy-duty diesel vehicles that operate in California to reduce TAC emissions from their exhaust. Therefore, as of January 1, 2023, nearly all trucks and buses are required to have 2010 or newer model year engines to reduce PM and NOx emissions. To help ensure that the benefits of this regulation are achieved, only vehicles compliant with this regulation are registered by the California Department of Motor Vehicles.

2.2.2.7 In-Use Off-Road Diesel-Fueled Fleets Regulation

CARB has adopted the In-Use Off-Road Diesel-Fueled Fleets Regulation with the intent to reduce PM and NOx emissions from existing off-road heavy-duty diesel vehicles in California. In general, the regulation imposes limits on vehicle idling; requires all vehicle usage to be reported to CARB; restricts the addition of older vehicles into fleets; requires the phase-out of the oldest and least efficient engines; and, starting in 2024, requires the procurement and use of renewable diesel.

2.2.2.8 Advanced Clean Truck Act

To reduce emissions, the Advanced Clean Truck Act (ACT) requires original equipment manufacturers of medium- and heavy-duty vehicles to sell ZEVs or near-zero-emissions vehicles (NZEVs), such as plug-in electric hybrids, at an increasing percentage of their annual sales from 2024 to 2035. A ZEV is a vehicle that produces zero tail-pipe emissions, including BEVs and hydrogen fuel cell vehicles. A NZEV is a vehicle with an internal combustion engine and an electric energy storage system, including plug-in hybrid vehicles and hydrogen internal combustion engine vehicles. The ACT includes a cap-and-trade system, capping the number of fossil fuel vehicles sold by stipulating annual sales percentage requirements. Manufacturers can comply with the ACT by generating compliance credits through the sale of ZEVs or NZEVs or through the trading of compliance credits.

2.2.2.9 California State Implementation Plan

The FCAA (and its subsequent amendments) requires each state to prepare an air quality control plan referred to as the SIP. The SIP is a living document that is periodically modified to reflect the latest emissions inventories, plans, and rules and regulations of air basins as reported by the agencies with jurisdiction over them. The CAA Amendments dictate that states containing areas violating the NAAQS revise their SIPs to include extra control measures to reduce air pollution. The SIP includes strategies and control measures to attain the NAAQS by deadlines established by the FCAA. The USEPA has the

responsibility to review all SIPs to determine if they conform to the requirements of the CAA. State law makes CARB the lead agency for all purposes related to the SIP. Local air districts and other agencies prepare SIP elements and submit them to CARB for review and approval. CARB then forwards SIP revisions to the USEPA for approval and publication in the Federal Register.

2.2.2.10 California Renewables Portfolio Standard Program

Established in 2002 under SB 1078 and accelerated by SB 107 (2006) and SB 2 (2011), California's Renewable Portfolio Standard (RPS) required investor-owned utilities, energy service providers, and community choice aggregators to procure 33 percent of their electricity from renewable energy sources by 2020. In 2015, SB 350 further increased the RPS to 50 percent by 2030. The legislation also included interim targets of 40 percent by 2024 and 45 percent by 2027. The California Public Utilities Commission (CPUC) and the California Energy Commission (CEC) are jointly responsible for implementing the program. Pacific Gas & Electric (PG&E) is on track to meeting these obligations, and currently delivers 93 percent greenhouse gas emissions free clean energy with the plan to be net zero by 2040 and climate positive (carbon negative) by 2050. SB 100, signed into law in September 2018, requires California utilities to increase the percentages of renewable energy sold to retail customers. The new targets are for 50 percent renewable resources by December 31, 2026, 60 percent by December 31, 2030, and 100 percent from eligible renewable energy resources and zero-carbon resources by 2045.

2.2.2.11 Judicial Council Policy on Asbestos Management for Court Facilities

In 2018, the Judicial Council adopted a policy with requirements to manage asbestos hazards related to renovation or demolition in court facilities. The policy generally requires compliance with applicable federal and state statutes, as well as notification of all Facilities Services staff and employees that may be affected (Judicial Council 2018).

2.2.3 Regional

2.2.3.1 San Joaquin Valley Air Pollution Control District

Although the Judicial Council is not generally subject to regional or local land use plans and regulations, it is subject to plans and regulations implementing delegated federal authority. SJVAPCD is the agency primarily responsible for helping ensure that NAAQS and CAAQS are not exceeded, and that air quality conditions are maintained in the SJVAB, within which the Project is located. Responsibilities of the SJVAPCD include, but are not limited to, preparing plans for the attainment of ambient air quality standards, adopting and enforcing rules and regulations concerning sources of air pollution, issuing permits for stationary sources of air pollution, inspecting stationary sources of air pollution and responding to citizen complaints, monitoring ambient air quality and meteorological conditions, and implementing programs and regulations required by the CAA and the CCAA.

2.2.3.1.1 Current Air Quality Plans

The SJVAPCD is responsible for formulating and implementing the Air Quality Management Plan (AQMP) for the SJVAB. The main purpose of an AQMP is to bring the area into compliance with federal and state air quality standards. The SJVAPCD does not have one single AQMP for criteria pollutants; rather, the SJVAPCD addresses each criteria pollutant with its own Plan. The SJVAPCD has the following AQMPs:

- 2004 Revision to the California State Implementation Plan for Carbon Monoxide
- 2007 PM_{10} Maintenance Plan
- 2013 Plan for the Revoked 1-Hour Ozone Standard
- 2018 Plan for the 1997, 2006, and 2012 $PM_{2.5}$ Standards
- 2022 Plan for the 2015 8-Hour Ozone Standard
- 2023 Maintenance Plan and Redesignation Request for the Revoked 1-Hour Ozone Standard
- 2024 Plan for the 2012 $PM_{2.5}$ Standard

The SJVAPCD's AQMPs incorporate the latest scientific and technological information and planning assumptions, including updated emission inventory methodologies for various source categories. The SJVAPCD's AQMPs included the integrated strategies and measures needed to meet the NAAQS, implementation of new technology measures, and demonstrations of attainment of the 1-hour and 8-hour ozone NAAQS as well as the latest 24-hour and annual $PM_{2.5}$ standards.

The SJVAPCD's current air quality plans are discussed below.

Carbon Monoxide Plans. CARB approved the 2004 Revision to the California State Implementation Plan (SIP) for Carbon Monoxide on July 22, 2004 to demonstrate how ten areas of the state, including SJVAB, would maintain CO standards.

Ozone Plans. The SJVAPCD adopted the 2022 Plan for the 2015 8-Hour Ozone standard in December 2022 to meet CAA requirements and ensure attainment of the USEPA's 8-hour ozone threshold of 70 ppb. In June 2023, SJVAPCD adopted the 2023 Maintenance Plan and Redesignation Request for the Revoked 1-Hour Ozone Standard to request redesignation of the SJVAB to attainment for the 1-hour federal O_3 standard and demonstrate a maintenance plan to ensure attainment through 2036.

SJVAPCD's Governing Board approved the 2016 Plan for the 2008 8-Hour Ozone Standard on June 16, 2016. The comprehensive strategy in this plan will reduce NO_X emissions by over 60 percent between 2012 and 2031 and will bring the San Joaquin Valley into attainment of USEPA's 2008 8-hour O_3 standard as expeditiously as practicable, no later than December 31, 2031.

Particulate Matter Plans. The USEPA designated the SJVAB as an attainment/maintenance area for PM_{10} and non-attainment for $PM_{2.5}$. SJVAPCD adopted the 2007 PM_{10} Maintenance Plan in September 2007 to help ensure SJVAB's continued attainment of the USEPA's PM_{10} standard. The 2018 Plan for the 1997, 2006, and 2012 $PM_{2.5}$ Standards was adopted in 2018 and addresses the USEPA federal 1997 annual $PM_{2.5}$ standard of 15 µg/m³ and 24-hour $PM_{2.5}$ standard of 65 µg/m³; the 2006 24-hour $PM_{2.5}$ standard of 35 µg/m³; and the 2012 annual $PM_{2.5}$ standard of 12 µg/m³. This plan demonstrates attainment of the federal $PM_{2.5}$ standards as expeditiously as practicable. The most recent $PM_{2.5}$ plan is

the 2024 Plan for the 2012 $PM_{2.5}$ Standard and was adopted in 2024. This plan addresses the 2012 annual $PM_{2.5}$ standard of 12 µg/m³ and demonstrates expeditious attainment of the 2012 $PM_{2.5}$ standard by 2030.

2.2.3.1.2 Rules and Regulations

SJVAPCD rules and regulations that may apply to projects that will occur during buildout of the Project include, but are not limited to, the following:

Rule 2010 – Permits Required. The purpose of this rule is to require any person constructing, altering, replacing or operating any source operation which emits, may emit, or may reduce emissions to obtain an Authority to Construct or a Permit to Operate. This rule also explains the posting requirements for a Permit to Operate and the illegality of a person willfully altering, defacing, forging, counterfeiting, or falsifying any Permit to Operate.

Rule 2201 – New and Modified Stationary Source Review Rule. The purpose of this rule is to provide for the following:

- The review of new and modified Stationary Sources of air pollution and to provide mechanisms including emission trade-offs by which Authorities to Construct such sources may be granted, without interfering with the attainment or maintenance of Ambient Air Quality Standards; and
- No net increase in emissions above specified thresholds from new and modified Stationary Sources of all non-attainment pollutants and their precursors.

Rule 2280 – Portable Equipment Registration. Portable equipment used at project sites for less than six consecutive months must be registered with the SJVAPCD. The SJVAPCD will issue the registrations 30 days after receipt of the application.

Rule 4002 – National Emission Standards for Hazardous Air Pollutants. This rule incorporates the National Emission Standards for Hazardous Air Pollutants from Part 61, Chapter I, Subchapter C, Title 40, Code of Federal Regulations (CFR) and the National Emission Standards for Hazardous Air Pollutants for Source Categories from Part 63, Chapter I, Subchapter C, Title 40, CFR.

Rule 4102 – Nuisance. The purpose of this rule is to protect the health and safety of the public and applies to any source operation that emits or may emit air contaminants or other materials.

Rule 4601 – Architectural Coatings. The purpose of this rule is to limit ROG emissions (also called Volatile Organic Compounds [VOC] emissions) from architectural coatings. Emissions are reduced by limits on ROG content and providing requirements on coatings storage, cleanup, and labeling.

Rule 4623 – Storage of Organic Liquids. The purpose of this rule is to limit ROG emissions from the storage of organic liquids.

Rule 4624 – Transfer of Organic Liquids. The purpose of this rule is to limit ROG emissions from the transfer of organic liquids.

Rule 4641 – Cutback, Slow Cure, and Emulsified Asphalt, Paving and Maintenance Operations. The purpose of this rule is to limit ROG emissions from asphalt paving and maintenance operations. If asphalt paving will be used, then the paving operations may be subject to Rule 4641.

Rule 8011 – General Requirements. Fugitive Dust Emission Sources. Fugitive dust regulations are applicable to outdoor fugitive dust sources. Operations, including construction operations, must control fugitive dust emissions in accordance with SJVAPCD Regulation VIII. According to Rule 8011, the SJVAPCD requires the implementation of control measures for fugitive dust emission sources. For projects in which construction-related activities would disturb equal to or greater than 1 acre of surface area, the SJVAPCD recommends that demonstration of receipt of an SJVAPCD-approved Dust Control Plan or Construction Notification Form, before issuance of the first grading permit, be made a condition of approval.

Rule 8021 – Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities. The purpose of this rule is to limit fugitive dust emissions from construction, demolition, excavation, extraction, and other earthmoving activities. The following best management practices (BMPs) are included:

- Pre-water site sufficient to limit visible dust emissions (VDE) to 20% opacity.
- Phase work to reduce the amount of disturbed surface area at any one time.
- Apply water or chemical/organic stabilizers/suppressants sufficient to limit VDE to 20% opacity
- Construct and maintain wind barriers sufficient to limit VDE to 20% opacity.
- Apply water or chemical/organic stabilizers/suppressants, sufficient to comply with the conditions of a stabilized surface. If an area having 0.5 acres or more of disturbed surface area remains unused for seven or more days, the area must comply with the conditions for a stabilized surface area as defined in section 3.58 of Rule 8011.
- An owner/operator shall limit the speed of vehicles traveling on uncontrolled unpaved access/haul roads within construction sites to a maximum of 15 miles per hour.
- Cease outdoor construction, excavation, extraction, and other earthmoving activities that disturb the soil whenever VDE exceeds 20% opacity.

Rule 9510 – New Source Review. Rule 9510 requires certain development projects to mitigate exhaust emissions from construction equipment greater than 50 horsepower to 20 percent below statewide average NOx emissions and 45 percent below statewide average PM_{10} exhaust emissions. This rule also requires applicants to reduce baseline emissions of NOx and PM_{10} emissions associated with operations by 33.3 percent and 50 percent, respectively, over a period of 10 years.

Regulation VIII – Fugitive PM_{10} Prohibitions. Rules 8011-8081 are designed to reduce PM_{10} emissions (e.g., dust or dirt) generated by human activity, including construction and demolition activities, road construction, bulk materials storage, paved and unpaved roads, carryout and track out, etc. All

development projects that involve soil disturbance are subject to at least one provision of the Regulation VIII series of rules.

2.2.3.1.3 SJVAPCD California Environmental Quality Act (CEQA) Guidance and Thresholds

SJVAPCD also provides guidance and thresholds for CEQA air quality and GHG analyses. In particular, SJVAPCD's 2015 Guidance for Assessing and Mitigating Air Quality Impacts (GAMAQI) states the following:

> *The District's Air Quality Attainment Plans include measures to promote air quality elements in county and city general plans as one of the primary indirect source programs. The general plan is the primary long-range planning document used by cities and counties to direct development. Since air districts have no authority over land use decisions, it is up to cities and counties to ensure that their general plans help achieve air quality goals. Section 65302.1 of the California Government Code requires cities and counties in the San Joaquin Valley to amend appropriate elements of their general plans to include data, analysis, comprehensive goals, policies, and feasible implementation strategies to improve air quality in their next housing element revisions.*
>
> *The Air Quality Guidelines for General Plans (AQGGP), adopted by the District in 1994 and amended in 2005, is a guidance document containing goals and policy examples that cities and counties may want to incorporate into their general plans to satisfy Section 65302.1. When adopted in a general plan and implemented, the suggestions in the AQGGP can reduce vehicle trips and miles traveled and improve air quality. The specific suggestions in the AQGGP are voluntary. The District strongly encourages cities and counties to use their land use and transportation planning authority to help achieve air quality goals by adopting the suggested policies and programs.*

2.2.4 Local

Because the Judicial Council is the CEQA lead agency for the Project, and is acting for the State of California, local government regulations do not apply to the Project. However, the Judicial Council considers local policies and guidelines, as appropriate.

3 Greenhouse Gas

3.1 Environmental Setting

To fully understand global climate change, it is important to recognize the naturally occurring "greenhouse effect" and to define the GHGs that contribute to this phenomenon. Various gases in the earth's atmosphere, classified as atmospheric GHGs, play a critical role in determining the earth's surface temperature. Solar radiation enters the earth's atmosphere from space and a portion of the radiation is absorbed by the earth's surface. The earth emits this radiation back toward space, but the properties of the radiation change from high-frequency solar radiation to lower-frequency infrared radiation. GHGs, which are transparent to solar radiation, are effective in absorbing infrared radiation. As a result, this radiation that otherwise would have escaped back into space is now retained, resulting in a warming of the atmosphere. This phenomenon is known as the greenhouse effect.

3.1.1 Greenhouse Gases

Among the prominent GHGs contributing to the greenhouse effect are carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), nitrogen trifluoride (NF_3), and sulfur hexafluoride (SF_6). Primary GHGs attributed to global climate change are discussed in the following subsections.

3.1.1.1 Carbon Dioxide

CO_2 is a colorless, odorless gas. CO_2 is emitted in a number of ways, both naturally and through human activities. The largest source of CO_2 emissions globally is the combustion of fossil fuels such as coal, oil, and gas in power plants, automobiles, industrial facilities, and other sources. A number of specialized industrial production processes and product uses such as mineral production, metal production, and the use of petroleum-based products can also lead to CO_2 emissions. The atmospheric lifetime of CO_2 is variable because it is so readily exchanged in the atmosphere (USEPA 2025j).

3.1.1.2 Methane

CH_4 is a colorless, odorless gas, and is the major component of natural gas, about 87 percent by volume. It is also formed and released to the atmosphere by biological processes occurring in anaerobic environments. CH_4 is emitted from a variety of both human-related and natural sources. Human-related sources include fossil fuel production, animal husbandry (enteric fermentation in livestock and manure management), rice cultivation, biomass burning, and waste management. These activities release significant quantities of CH_4 to the atmosphere. Natural sources of CH_4 include wetlands, gas hydrates, permafrost, termites, oceans, freshwater bodies, non-wetland soils, and other sources such as wildfires. The atmospheric lifetime of CH_4 is about 12 years (USEPA 2025k).

3.1.1.3 Nitrous Oxide

N_2O is a clear, colorless gas with a slightly sweet odor. N_2O is produced by both natural and human-related sources. Primary human-related sources of N_2O are agricultural soil management, animal manure management, sewage treatment, mobile and stationary combustion of fossil fuels, adipic acid production, and nitric acid production. N_2O is also produced naturally from a wide variety of biological sources in soil and water, particularly microbial action in wet tropical forests. The atmospheric lifetime of N_2O is approximately 120 years (USEPA 2025l).

3.1.1.4 Hydrofluorocarbons

HFCs are man-made chemicals, many of which have been developed as alternatives to ozone-depleting substances for industrial, commercial, and consumer products. The only significant emissions of HFCs before 1990 were of the chemical HFC-23, which is generated as a byproduct of the production of HCFC-22 (or Freon 22, used in air conditioning applications). The atmospheric lifetime for HFCs varies from just over a year for HFC-152a to 260 years for HFC-23. Most of the commercially used HFCs have atmospheric lifetimes of less than 15 years (e.g., HFC-134a, which is used in automobile air conditioning and refrigeration, has an atmospheric life of 14 years) (USEPA 2025m).

3.1.1.5 Perfluorocarbons

PFCs are colorless, highly dense, chemically inert, and nontoxic. There are seven PFC gases: perfluoromethane (CF_4), perfluoroethane (C_2F_6), perfluoropropane (C_3F_8), perfluorobutane (C_4F_{10}), perfluorocyclobutane (C_4F_8), perfluoropentane (C_5F_{12}), and perfluorohexane (C_6F_{14}). Natural geological emissions have been responsible for the PFCs that have accumulated in the atmosphere in the past; however, the largest current source is aluminum production, which releases CF_4 and C_2F_6 as byproducts. The estimated atmospheric lifetimes for CF_4 and C_2F_6 are 50,000 and 10,000 years, respectively (USEPA 2025m).

3.1.1.6 Nitrogen Trifluoride

NF_3 is an inorganic, colorless, odorless, toxic, nonflammable gas used as an etchant in microelectronics. NF_3 is predominantly employed in the cleaning of the plasma-enhanced chemical vapor deposition chambers in the production of liquid crystal displays and silicon-based thin film solar cells. In 2009, NF_3 was listed by California as a potential GHG to be listed and regulated under AB 32 (Section 38505 Health and Safety Code).

3.1.1.7 Sulfur Hexafluoride

SF_6 is an inorganic compound that is colorless, odorless, nontoxic, and generally nonflammable. SF_6 is primarily used as an electrical insulator in high voltage equipment. The electric power industry uses roughly 80 percent of all SF_6 produced worldwide. Leaks of SF_6 occur from aging equipment and during equipment maintenance and servicing. SF_6 has an atmospheric life of 3,200 years (USEPA 2025n).

3.1.1.8 Black Carbon

Black carbon is the most strongly light-absorbing component of PM emitted from burning fuels such as coal, diesel, and biomass. Black carbon contributes to climate change both directly by absorbing sunlight and indirectly by depositing on snow and by interacting with clouds and affecting cloud formation. Black carbon is considered a short-lived species, which can vary spatially and, consequently, it is very difficult to quantify associated global-warming potentials. The main sources of black carbon in California are wildfires, off-road vehicles (locomotives, marine vessels, tractors, excavators, dozers, etc.), on-road vehicles (cars, trucks, and buses), fireplaces, agricultural waste burning, and prescribed burning (planned burns of forest or wildlands). California has been an international leader in reducing emissions of black carbon, including programs that target reducing PM from diesel engines and burning activities (CARB 2025h).

3.1.2 Global Warming Potential

Each GHG differs in its ability to absorb heat in the atmosphere based on the lifetime, or persistence, of the gas molecule in the atmosphere. Often, estimates of GHG emissions are presented in carbon dioxide equivalents (CO_2e), which weigh each gas by its global warming potential (GWP).

Expressing GHG emissions in carbon dioxide equivalents takes the contribution of all GHG emissions to the greenhouse effect and converts them to a single unit equivalent to the effect that would occur if only CO_2 were being emitted. Based on a 100-year time horizon, CH_4 traps over 25 times more heat per molecule than CO_2, and N_2O absorbs roughly 298 times more heat per molecule than CO_2. Additional GHGs with high GWP include NF_3, SF_6, PFCs, and black carbon.

3.1.3 Sources of Greenhouse Gas Emissions

On a global scale, GHG emissions are predominantly associated with activities related to energy production; changes in land use, such as deforestation and land clearing; industrial sources; agricultural activities; transportation; waste and wastewater generation; and commercial and residential land uses. World-wide, energy production including the burning of coal, natural gas, and oil for electricity and heat is the largest single source of global GHG emissions.

3.1.3.1 United States of America

In 2022, GHG emissions in the United States. totaled 6,343 million metric tons (MMT) of CO_2e. Within the United States, the largest contributor to GHG emissions is the transportation sector (28 percent). The next largest contributors are from electricity production (25 percent) and industry (23 percent), followed by the commercial and residential sectors (13 percent) and the agricultural sector (10 percent). Transportation emissions primarily come from burning fossil fuels for our cars, trucks, ships, trains, and planes. Over 90 percent of the fuel used for transportation is petroleum-based, which includes primarily gasoline and diesel. The bulk of emissions generated from energy production come from burning fossil fuels, mostly coal and natural gas. Industry emissions are also primarily generated from fossil fuels burned for heat, the use of certain products that contain GHGs, and the handling of waste. Similar to industry sector

emissions, commercial and residential uses arise primarily from fossil fuels for heat, the use of certain products that contain GHGs, and the handling of waste. Agricultural emissions come from livestock such as cows, agricultural soil, and rice production. The land use and forestry sector within the United States serves as a carbon sink. Carbon sinks absorb CO_2 from the atmosphere. Land areas across the United States absorbed approximately 13 percent of the 2022 GHG emissions (USEPA 2025o). In 2023, GHG emissions in the United States totaled 6,197 $MMTCO_2e$, while this data has been released via a Freedom of Information request, the USEPA has not formally adopted the 2023 emissions report (USEPA 2025p).

3.1.3.2 California

In 2022, GHG emissions within California totaled 371.1 MMT of CO_2e. Similar to national emissions, in California, the transportation sector is the largest contributor. Transportation emissions account for approximately 39 percent of the total statewide GHG emissions. The majority of transportation emissions are derived from passenger vehicles and heavy-duty trucks. Emissions associated with industrial uses are the second largest contributor, totaling roughly 23 percent. Industrial emissions are driven by fuel combustion from sources that include refineries, oil and gas extraction, cement plants, and the portion of cogeneration emissions attribution to thermal energy output. Electricity generation (in state and imports) totaled roughly 16 percent. Emissions from the electricity generation sector have declined over the years due to the increase in renewable generation that continues to replace fossil power (CARB 2024b).

3.2 Regulatory Setting

There are considerable regulatory actions regarding GHGs and climate change at the federal, state, regional, and local level. The following includes the key regulations that may be relevant to the Project. As noted previously, although the Judicial Council is not generally subject to regional or local land use plans and regulations, it is subject to plans and regulations implementing delegated federal authority.

3.2.1 Federal

3.2.1.1 Federal Clean Air Act

As noted previously, the principal air quality regulatory mechanism at the federal level is the FCAA and, in particular, the 1990 amendments to the FCAA and the NAAQS that it establishes. The FCAA does not specifically regulate GHG emissions; however, the U.S. Supreme Court has determined that GHGs are pollutants that can be regulated under the CAA. There are currently no federal regulations that set ambient air quality standards for GHGs.

The USEPA is responsible for implementing federal policy to address GHGs. The federal government administers a wide array of public-private partnerships to reduce the GHG intensity generated in the United States. These programs focus on energy efficiency, renewable energy, methane and other non-CO_2 gases, agricultural practices, and implementation of technologies to achieve GHG reductions. USEPA implements numerous voluntary programs that contribute to the reduction of GHG emissions. These programs (e.g., the Green Power Partnership program for encouraging the use of renewable

energy) play a significant role in encouraging voluntary reductions from large corporations, consumers, industrial and commercial buildings, and many major industrial sectors.

In 2009, the USEPA Administrator signed two distinct findings regarding GHGs under Section 202(a) of the federal CAA. USEPA adopted a Final Endangerment Finding for six defined GHGs (CO_2, CH_4, N_2O, HFCs, PFCs, and SF_6). The Endangerment Finding was required before USEPA could regulate GHG emissions under Section 202(a)(1) of the FCAA. USEPA also adopted a Cause or Contribute Finding in which the USEPA Administrator found that GHG emissions from new motor vehicles and motor vehicle engines are contributing to air pollution, which is endangering public health and welfare. These findings do not themselves impose any requirements on industry or other entities. However, these actions were a prerequisite for implementing GHG emissions standards for vehicles.

3.2.2 State

3.2.2.1 Executive Order S-3-05

Executive Order S-3-05 was established by Governor Arnold Schwarzenegger in June 2006; the order establishes statewide emission reduction targets through the year 2050, as follows:

- By 2010, reduce GHG emissions to 2000 levels.
- By 2020, reduce GHG emissions to 1990 levels.
- By 2050, reduce GHG emissions to 80 percent below 1990 levels.

The EO does not include any specific requirements that pertain to the Project; however, future actions taken by the state to implement these goals may affect the Project depending on the specific implementation measures that are developed. The 2050 reduction target has not been codified, and the California Supreme Court has ruled that CEQA lead agencies are not required to use it as a significance threshold.

3.2.2.2 Assembly Bill 32 and Senate Bill 32

AB 32, the California Global Warming Solutions Act of 2006, requires that GHGs emitted in California be reduced to 1990 levels by the year 2020. GHGs, as defined under AB 32, include CO_2, CH_4, NO_X, HFCs, PFCs, and SF_6. Since AB 32 was enacted, a seventh chemical, NF_3, has also been added to the list of GHGs. CARB is the state agency charged with monitoring and regulating sources of GHGs. AB 32 states the following:

> *Global warming poses a serious threat to the economic well-being, public health, natural resources, and the environment of California. The potential adverse impacts of global warming include the exacerbation of air quality problems, a reduction in the quality and supply of water to the state from the Sierra snowpack, a rise in sea levels resulting in the displacement of thousands of coastal businesses and residences, damage to marine ecosystems and the natural environment, and an increase in the incidences of infectious diseases, asthma, and other human health-related problems.*

CARB approved the 1990 GHG emissions level of 427 $MMTCO_2e$ on December 6, 2007 (CARB 2007). Therefore, to meet the state's target, emissions generated in California in 2020 are required to be equal to or less than 427 $MMTCO_2e$. In order to set a framework for the state to meet this target, CARB was tasked with creating a Scoping Plan (as described below). California announced in July 2018 that the state emitted 427 $MMTCO_2e$ in 2016 and achieved AB 32 goals (CARB 2018).

SB 32 was signed into law on September 8, 2016. SB 32 states that "In adopting rules and regulations to achieve the maximum technologically feasible and cost-effective GHG emissions reductions authorized by this division, the state [air resources] board shall ensure that statewide GHG emissions are reduced to at least 40 percent below the statewide GHG emissions limit no later than December 31, 2030."

3.2.2.3 Assembly Bill 1279: The California Climate Crisis

AB 1279 was signed into law in 2022 and establishes the policy of the state to achieve carbon neutrality as soon as possible, but no later than 2045 and maintain net negative GHG emissions thereafter. AB 1279 requires that by 2045 the statewide anthropogenic GHG emissions are reduced by at least 85 percent below 1990 levels. The bill also requires CARB to ensure that an updated Scoping Plan identifies and recommends measures to achieve carbon neutrality, and to identify and implement policies and strategies that enable CO_2 removal and carbon capture, utilization, and storage technologies to complement AB 1279's emissions reduction requirements.

3.2.2.4 Climate Change Scoping Plans

The Scoping Plan is a blueprint for how the state plans to meet the required GHG reductions under AB 32, SB 32, and AB 1279. CARB is required under AB 32 to update the Scoping Plan at least once every five years. The most recent Scoping Plan is the Final 2022 Scoping Plan for Achieving Carbon Neutrality (2022 Scoping Plan) that was adopted in December 2022 and serves as the third update to the initial plan adopted in 2008 (2008 Scoping Plan). The 2008 Scoping Plan addressed how the state can achieve the AB 32 reduction targets by 2020. An updated plan was adopted in 2014 (2013 Scoping Plan) to assess progress towards the 2020 reduction goal and address short-lived climate pollutants (SLCPs). The 2017 Scoping Plan also addressed progress towards the 2020 reduction goal and created a pathway for the state to meet the 2030 reduction goal set under SB 32.

Finally, the 2022 Scoping Plan assesses progress toward achieving the SB 32 2030 target and laying out a path to achieve carbon neutrality no later than 2045. The 2022 Scoping Plan focuses on outcomes needed to achieve carbon neutrality by assessing paths for clean technology, energy deployment, natural and working lands, and others, and is designed to meet the state's long-term climate objectives and support a range of economic, environmental, energy security, environmental justice, and public health priorities (CARB 2022). The 2022 Scoping Plan also includes a discussion about the use of natural and working land use sectors for sequestration, carbon storage, and potential emission sources during wildfires. The estimated GHG emission reductions from the 2022 Scoping Plan are provided in Table 4.

Table 4. Estimated Statewide Greenhouse Gas Emissions Reductions in the 2022 Scoping Plan

Emissions Scenario	GHG Emissions (MMT CO_2e)
2019	
2019 State GHG Emissions	404
2030	
2030 Business-As-Usual (BAU) Forecast	312
2030 GHG Emissions without Carbon Removal and Capture	233
2030 GHG Emissions with Carbon Removal and Capture	226
2030 Emissions Target Set by SB 32 (1990 levels by 2030)	260
Reduction below BAU necessary to Schieve 1990 levels by 2030	52
2045	
2045 BAU Forecast	266
2045 GHG Emissions without Carbon Removal and Capture	72
2045 GHG Emissions with Carbon Removal and Capture	-3

Source: CARB 2022.

The 2022 Scoping Plan accounts for existing and recent direction in EOs and State Statutes, which identify policies, strategies, and regulations in support of and implementation of the 2022 Scoping Plan. These EOs and State Statutes include AB 1279, SB 100, SB 905, and EO N-79-20 (see below). Ultimately, achieving the targets set by SB 32 and AB 1279 will require continued commitment to and successful implementation of existing policies and programs as well as new policy tools and technical solutions to further reduce GHG emissions.

3.2.2.5 Senate Bill 375: The Sustainable Communities and Climate Protection Act of 2008

SB 375 was signed into law on September 30, 2008. According to SB 375, the transportation sector is the largest contributor of GHG emissions, which emits more than 40 percent of the total GHG emissions in California. SB 375 states, “Without improved land use and transportation policy, California will not be able to achieve the goals of AB 32.” SB 375 does the following: (1) requires metropolitan planning organizations to include sustainable community strategies in their regional transportation plans for reducing GHG emissions, (2) aligns planning for transportation and housing, and (3) creates specified incentives for the implementation of the strategies.

CARB prepared a Proposed Update to the SB 375 Greenhouse Gas Emission Reduction Targets in 2018 which set updated GHG reduction targets for metropolitan planning organizations for 2020 and 2035 (CARB 2025i).

3.2.2.6 Senate Bill 1368: Emission Performance Standards

Enacted in 2006, SB 1368 directs the California Public Utilities Commission to adopt a performance standard for GHG emissions for the future power purchases of California utilities. SB 1368 seeks to limit carbon emissions associated with electrical energy consumed in California by forbidding procurement arrangements for energy longer than five years from resources that exceed the emissions of a relatively clean, combined cycle natural gas power plant.

Because of the carbon content of its fuel source, a coal-fired plant cannot meet this standard because such plants emit roughly twice as much carbon as natural gas, combined cycle plants. Accordingly, the law effectively prevents California's utilities from investing in, otherwise financially supporting, or purchasing power from new coal plants located in or out of the state. The California Public Utilities Commission adopted the regulations required by SB 1368 on August 29, 2007. The regulations implementing SB 1368 establish a standard for baseload generation owned by, or under long-term contract to publicly owned utilities, of 1,100 pounds of CO_2 per megawatt-hour.

3.2.2.7 Senate Bill 1078: Renewable Electricity Standards

SB 1078 (September 12, 2002) required California to generate 20 percent of its electricity from renewable energy by 2017. SB 107 changed the due date to 2010 instead of 2017. On November 17, 2008, the governor signed Executive Order (EO) S-14-08, which established the Renewable Portfolio Standard (RPS) target for California requiring that all retail sellers of electricity serve 33 percent of their load with renewable energy by 2020. EO S-21-09 directed CARB to adopt a regulation by July 31, 2010, requiring the state's load serving entities to meet a 33 percent renewable energy target by 2020. CARB approved the Renewable Electricity Standard on September 23, 2010, by Resolution 10-23. In 2011, the state legislature adopted this higher standard in SB X1-2. Renewable sources of electricity include wind, small hydropower, solar, geothermal, biomass, and biogas.

3.2.2.8 Senate Bill 350: Clean Energy and Pollution Reduction Act of 2015

SB 350 (October 7, 2015) reaffirms California's commitment to reducing its GHG emissions and addressing climate change. Key provisions include an increase in the RPS, higher energy efficiency requirements for buildings, initial strategies toward a regional electricity grid, and improved infrastructure for electric vehicle charging stations.

3.2.2.9 Senate Bill 100: California Renewables Portfolio Standard Program

SB 100 (September 10, 2018) revised the RPS goals to achieve the 50 percent renewable resources target by December 31, 2026, and to achieve a 60 percent target by December 31, 2030. The bill requires that retail sellers and local publicly owned electric utilities procure a minimum quantity of electricity products from eligible renewable energy resources so that the total kilowatt hours of those products sold to their retail end-use customers achieve 44 percent of retail sales by December 31, 2024; 52 percent by December 31, 2027; and 60 percent by December 31, 2030. The bill also establishes a state policy that eligible renewable energy resources and zero-carbon resources supply 100 percent of all retail sales of electricity to California end-use customers and 100 percent of electricity procured to serve all state agencies by December 31, 2045. Under the bill, the state cannot increase carbon emissions elsewhere in the western grid or allow resource shuffling to achieve the 100 percent carbon-free electricity target.

3.2.2.10 Senate Bill 1383: California Short-Lived Climate Pollutant Reduction Strategy

SB 1383 (September 19, 2016) required California to reduce methane and other short-lived climate pollutants from landfills. The bill sets targets of 75 percent less organic waste sent to landfills and 20 percent of unsold, still-edible food sent to food recovery organizations by 2025. The bill also requires cities and counties to annually procure a quantity of recovered organic waste products to meet their annual procurement target. Jurisdictions can fulfill their target by procuring any combination of the following recovered organic waste products: compost, mulch, and renewable energy (transportation fuel, heat, and electricity) from anaerobic digestion and electricity from biomass conversion. Jurisdictions are also required to report on project implementation.

3.2.2.11 Executive Order S-3-05: Global Warming Impacts

EO S-3-05 was signed on June 1, 2005. The EO sets the following GHG emission reduction targets: (1) by 2010, California shall reduce GHG emissions to 2000 levels; (2) by 2020, California shall reduce GHG emissions to 1990 levels; and (3) by 2050, California shall reduce GHG emissions to 80 percent below 1990 levels.

3.2.2.12 Executive Order B-30-15

EO B-30-15 was signed on April 29, 2015. The EO established a new interim statewide reduction target to reduce GHG emissions to 40 percent below 1990 levels by 2030. Additionally, the EO ordered all state agencies with jurisdiction over GHG sources to implement measures to achieve these GHG emissions reductions and it directed CARB to update the Scoping Plan to meet the 2030 goal.

3.2.2.13 California Green Building Standards Code

The California Green Building Standards Code (CALGreen), CCR Part 11, Title 24, includes standards for energy efficiency, water efficiency, material conservation, and environmental quality in new residential and nonresidential structures. CALGreen was created in 2008 under SB 1473 in order to support California's GHG reduction goals under AB 32. CALGreen is updated on a triennial basis with minor revisions every 18 months.

3.2.2.14 Judicial Council's Water Conservation Policy

Adopted in 2015, the Judicial Council's Water Conservation Policy identifies best practices to encourage water conservation in all capital projects and courthouse facilities. The best practices that may be applicable to the Project include using non-potable water for dust control during construction, installing efficient indoor plumbing fixtures, and requiring climate-appropriate landscape planning (Judicial Council 2015).

3.2.3 Regional

Because the Judicial Council is the CEQA lead agency for the Project, and is acting for the State of California, local government regulations do not apply to the Project. However, the Judicial Council considers local policies and guidelines, as appropriate.

3.2.3.1 San Joaquin Valley Air Pollution Control District

In August 2008, SJVAPCD's governing board adopted the Climate Change Action Plan (CCAP). The CCAP directed the SJVAPCD Air Pollution Control Officer to develop guidance to assist lead agencies, project proponents, permit applicants, and interested parties in assessing and reducing the impacts of project-specific GHG emissions on global climate change.

On December 17, 2009, the SJVAPCD governing board adopted *Guidance for Valley Land-use Agencies in Addressing GHG Emission Impacts for New Projects under CEQA*, and the *District Policy—Addressing GHG Emission Impacts for Stationary Source Projects Under CEQA When Serving as the Lead Agency*. SJVAPCD concluded that the existing science is inadequate to support quantification of the impacts that project-specific GHG emissions have on global climate change. SJVAPCD found the effects of project-specific emissions to be cumulative; and without mitigation, their incremental contribution to global climate change could be considered cumulatively considerable. SJVAPCD found that this cumulative impact is best addressed by requiring all projects to reduce their GHG emissions, whether through project design elements or mitigation.

3.2.4 Local

Because the Judicial Council is the CEQA lead agency for the Project, and is acting for the State of California, local government regulations do not apply to the Project. However, the Judicial Council considers local policies and guidelines, as appropriate.

4 Methodology

The following modeling parameters and assumptions will be used to generate criteria air pollutant and GHG emissions for the Project.

4.1 Criteria Air Pollutant and GHG Model Selection

The California Emissions Estimator Model (CalEEMod) is a statewide land use emissions computer model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify potential criteria pollutant and GHG emissions associated with both construction and operation from a variety of land use projects. CalEEMod quantifies direct GHG emissions, such as construction and operational activities and vehicle use, and indirect emissions, such as energy use, solid waste disposal, vegetation planting and/or removal, and water use. Further, CalEEMod identifies mitigation measures to reduce criteria pollutant and GHG emissions along with calculating the benefits achieved from measures chosen by the user.

CalEEMod was developed for the California Air Pollution Control Officers Association in collaboration with the California Air Districts. Default data (e.g., emission factors, trip lengths, meteorology, source inventory) have been provided by the various California Air Districts to account for local requirements and conditions.

CalEEMod is a comprehensive tool for quantifying air quality impacts from land use projects located throughout California. The model can be used for a variety of situations where an air quality analysis is necessary or desirable, such as preparing CEQA or National Environmental Policy Act documents, conducting pre-project planning, and, verifying compliance with local air quality rules and regulations, etc.

CalEEMod version 2022.1.1.41 was used to estimate construction and operational impacts of the Project.

4.2 Construction Modeling Assumptions

4.2.1 Land Use

The Project would involve demolition of the existing Sheriff Administration Building and South Annex Jail buildings (approximately 87,000 SF) and 40,000 SF of existing paving. The Project would construct a new 413,000 SF courthouse and secure parking. The entire Project (courthouse and parking) was modeled as a Government Office Building within CalEEMod.

4.2.2 Construction Schedule

The Project would require construction tasks including demolition, site preparation, grading, building construction, paving, architectural coating. It is assumed that construction would take place 5 days per week for 8 hours per day.

Table 5 shows the anticipated construction schedule. The construction schedule presents a "worst-case" analysis scenario since emission factors for construction equipment decrease as the analysis year increases due to improvements in technology and more stringent regulatory requirements. Therefore, construction emissions would decrease if the construction schedule moved to later years or is phased over multiple years.

Table 5. Anticipated Project Construction Schedule

Construction Task	Start Date	End Date	Workdays
Demolition	10/1/2029	10/27/2029	20
Site Preparation	10/28/2029	12/1/2029	25
Grading	12/2/2029	2/10/2030	50
Building Construction	2/11/2030	10/15/2033	960
Paving	9/1/2033	10/15/2033	32
Architectural Coating	6/1/2033	10/15/2033	98

Source: CalEEMod Output (Appendix A).

4.2.3 Construction Equipment

The off-road equipment fleet for construction was generated using default values from CalEEMod. CalEEMod generates construction fleets for construction activities based on the size of the construction areas. CalEEMod default horsepower and load factors were used for this analysis. Table 6 provides a breakdown of the anticipated equipment required for the Project.

Table 6. Anticipated Project Construction Equipment

Construction Task	Equipment Modeled[1]	Pieces of Equipment	Average Daily Usage (hours/day)	Horsepower	Load Factor
Demolition	Concrete/Industrial Saw	1	8	33	0.73
	Rubber Tired Dozers	1	8	367	0.40
	Tractors/Loaders/Backhoes	3	8	84	0.37
Site Preparation	Graders	1	8	148	0.41
	Scrapes	1	8	423	0.48
	Tractors/Loaders/Backhoes	1	8	84	0.37
Grading	Graders	1	8	148	0.41
	Rubber Tired Dozers	1	8	367	0.40
	Tractors/Loaders/Backhoes	2	7	84	0.37
Building Construction	Cranes	1	7	367	0.29
	Forklifts	2	8	82	0.20
	Generator Sets	1	8	14	0.74

Construction Task	Equipment Modeled[1]	Pieces of Equipment	Average Daily Usage (hours/day)	Horsepower	Load Factor
	Tractors/Loaders/Backhoes	1	7	84	0.37
	Welders	3	8	46	0.45
Paving	Cement and Mortar Mixers	1	8	10	0.56
	Pavers	1	8	81	0.42
	Rollers	2	8	36	0.38
	Paving Equipment	1	8	89	0.36
	Tractors/Loaders/Backhoes	1	7	84	0.37
Architectural Coating	Air Compressor	1	6	37	0.48

Notes:
[1] Equipment modeled is based on CalEEMod defaults for a 2.09-acre construction site.

4.2.4 Vehicle Trips

Off-site construction emissions are caused by motor vehicle exhaust from delivery vehicles, hauling trucks, worker traffic, and road dust. The number of daily vehicle trips during construction was based on CalEEMod defaults and calculated using EMFAC 2021 with EPA approved adjustment factors. Project construction is expected to generate a maximum of 132 passenger car trips per day from construction workers going to and from the Project site. The fleet mix for worker trips is light duty passenger vehicles to light duty trucks. The vendor trips fleet mix comprises medium duty and heavy-duty diesel trucks. The Project is located in Fresno, California, and it was assumed that workers would travel from nearby to the Project Site. CalEEMod defaults were used for worker and vendor trip lengths.

In addition, the Project would require hauling truck trips to transport demolition materials and grading materials. During construction, approximately 10,000 tons of demolition debris (from the Sheriff Administration, South Annex Jail, and pavement) and 1,000,000 cubic yards of soil would be hauled off-site. CalEEMod assumes haul trucks have a carrying capacity of 20 tons or 16 cubic yards per truckbed. Therefore, construction would generate 1,000 truck trips during demolition and 125,000 truck trips during grading to account for truck travel to and from the Project Site. The default trip length of 20 miles was assumed for all haul truck trips.

4.3 Project Operational Modeling Assumptions

Long-term operational emissions of criteria air pollutants and precursors were also calculated using CalEEMod for both the Project and the existing site to determine the net operational impact. As discussed above, the Project Site is currently developed and operates with the Sheriff Administration Building and South Annex Jail buildings (approximately 87,000 square feet). For both operational CalEEMod models, the default vehicle trips, fleet mix, energy consumption, and all other inputs were assumed. Mobile emissions were calculated using EMFAC 2021 with EPA approved adjustment factors. The Project CalEEMod model assumed a buildout year of 2033, the earliest possible year for operation while the

existing operational CalEEMod model calculates the emissions for the year 2025. Additionally, GHG emissions were calculated for the Project in 2050. CalEEMod defaults were utilized for all inputs.

4.4 Health Risk Assessment Methods

An air dispersion model is a mathematical formulation used to estimate the air quality impacts at specific locations (receptors) surrounding a source of emissions given the rate of emissions and prevailing meteorological conditions. This assessment relied on the USEPA's AMS/EPA Regulatory Model (AERMOD) Version 22112 air dispersion model applied in the Lakes Software AERMOD View Version 13.0.0 interface. The AERMOD model was used to estimate the concentration of PM_{10} at sensitive receptor locations from potential sources of project-generated TACs. The AERMOD model provides a refined methodology for estimating health impacts by utilizing long-term, measured representative meteorological data for the Project Site.

The modeling analysis considers the spatial distribution and elevation of each emitting source in relation to the sensitive receptors. Direction-dependent calculations were obtained by identifying the Universal Transverse Mercator coordinates for each source location. Terrain elevations were obtained for the Project Site using the AERMAP model, which is the AERMOD terrain data pre-processor. The air dispersion model assessment used meteorological data recorded from the Fresno Station, which is located approximately 4.7 miles northeast of the Project Site. The meteorological data used was preprocessed for use with AERMOD and included data for the years 2018-2023.

After using AERMOD to determine the concentration of PM at sensitive receptor locations, the associated health risks were calculated using the CARB's Hotspot Analysis Reporting Program Version 2 (HARP 2) Risk Assessment Standalone Tool (RAST), which calculates the cancer and non-cancer health impacts using the Office of Environmental Health Hazard Assessment's (OEHHA) Guidance Manual for Preparation of Health Risk Assessments (OEHHA 2015).

4.4.1 Modeling Assumptions

The estimated concentration of exhaust PM_{10} was used as a proxy to represent emissions of DPM. The PM_{10} emissions from construction were determined using the results of the CalEEMod modeling conducted for the Project. Construction emissions were assumed to be distributed evenly over the Project Site by applying an area source in AERMOD. The concentration of the PM_{10} was calculated at the maximally exposed residential receptor which was then input into CARB's HARP 2 RAST model to calculate the health risks. The exposure period was set to four years to encompass the entire construction period. Consistent OEHHA guidance, exposure was assumed to occur during the third trimester, infant, and child stages of life. Detailed parameters and complete calculations are contained in Appendix B.

5 Air Quality Impact Analysis

5.1 CEQA Guidelines

According to the CEQA Guidelines' Appendix G Environmental Checklist, the following questions are analyzed and evaluated to determine whether impacts related to air quality are considered to be significant environmental effects.

Where available and determined to be appropriate for the Project, the Judicial Council may reference the significance criteria established by the applicable air quality management or air pollution district to make the following determinations.

Would the Project:

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

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?

c) Expose sensitive receptors to substantial pollutant concentrations?

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

5.2 Thresholds of Significance

The final determination of whether a project is significant is within the purview of the lead agency pursuant to Section 15064(b) of the CEQA Guidelines. If the lead agency finds that the project has the potential to exceed its established air pollution thresholds, the project should be considered to have potentially significant air quality impacts. The SJVAPCD has adopted quantitative air pollution thresholds to assist lead agencies in determining the significance of project emissions. The SJVAPCD thresholds are presented in Table 7.

To address the potential for air pollutant hotspots, SJVAPCD has provided guidance for screening localized impacts in the GAMAQI that establishes a screening threshold of 100 pounds per day of any criteria pollutant. If a project exceeds 100 pounds per day of any criteria pollutant, then ambient air quality modeling would be necessary. If the project does not exceed 100 pounds per day of any criteria pollutant, then it can be assumed that it would not cause a violation of an ambient air quality standard. SJVAPCD also has adopted thresholds of significance for health risks from exposure to TACs. A project would result in a significant impact if the project would increase the cancer risk for the person with maximum exposure potential by 20 in a million or result in a non-cancer hazard index greater than 1.

Table 7. SJVAPCD Criteria Pollutant Thresholds of Significance

Pollutant	Construction Emissions (tons/year)	Operational Emission (tons/year)
Carbon monoxide (CO)	100	100
Oxides of nitrogen (NOx)	10	10
Reactive organic gas (ROG)	10	10
Sulfur oxides (SO_X)	27	27
Particulate matter 10 microns diameter or less (PM_{10})	15	15
Fine particulate matter 2.5 microns diameter or less ($PM_{2.5}$)	15	15

Source: SJVAPCD 2015.

5.3 Air Impact Analysis

Impact AIR-1 Conflict with or obstruct implementation of the applicable air quality plan?

The CEQA Guidelines indicate that a significant impact would occur if a project would conflict with or obstruct implementation of the applicable air quality plan. The SJVAPCD GAMAQI proposes the following criteria for determining project consistency with the current AQMPs:

- Will the project result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations, or delay timely attainment of air quality standards or the interim emissions reductions specified in the AQMPs?
- Will the project conform to the assumptions in the AQMPs?
- Will the project comply with applicable control measures in the AQMPs?

The use of criteria listed above is a standard approach for CEQA analysis of projects in the SJVAPCD's jurisdictions and other air districts for the following reasons:

- Significant contribution to existing or new exceedances of the air quality standards would be inconsistent with the goal of attaining the air quality standards.
- AQMP emissions inventories and attainment modeling are based on growth assumptions for the area within the SJVAPCD's jurisdiction.
- AQMPs rely on a set or air district-initiated control measures and implementation of federal and state measures to reduce emissions within their jurisdictions, with the goal of attaining the air quality standards.

The Judicial Council finds the SJVAPCD analysis persuasive and adopts the SJVAPCD thresholds of significance for the purposes of determining air quality impacts for this Project.

AQMPs are plans for reaching attainment of the NAAQS and CAAQS. The assumptions, inputs, and control measures are analyzed to determine whether the SJVAB can reach attainment for the ambient air quality standards. To show attainment of the standards, SJVAPCD analyzes the growth projections in the valley, contributing factors in air pollutant emissions and formations, and existing and adopted emissions controls. The SJVAPCD then formulates a control strategy to reach attainment that includes both state and SJVAPCD regulations and other local programs and measures. The applicable AQMPs include the 2004 Carbon Monoxide Plan, the 2022 8-Hour Ozone Plan, the 2023 1-Hour Ozone Maintenance Plan, the 2007 PM_{10} Maintenance Plan, the 2018 $PM_{2.5}$ Plan, and 2024 $PM_{2.5}$ Plan.

5.3.1 Contribution to Air Quality Violations

A measure of determining whether a project is inconsistent with the AQMPs is whether the project would result in increased frequency or severity of existing air quality violations, cause or contribute to new violations, or delay timely attainment of air quality standards or the interim emission reductions specified in the air quality plans. Because of the region's non-attainment status for O_3, $PM_{2.5}$, and PM_{10}, if Project-generated emissions of either of the O_3 precursor pollutants (ROG and NOx), PM_{10}, or $PM_{2.5}$ would exceed the SJVAPCD's significance thresholds, then the Project would be considered to conflict with the attainment plans.

As shown in Impact AIR-2, emissions of ROG, NOx, PM_{10}, and $PM_{2.5}$ from construction and operation of the Project would not exceed the SJVAPCD's significance thresholds. As shown in Impact AIR-3, the Project would not expose sensitive receptors to a substantial pollutant concentration. Therefore, the Project would not contribute to air quality violations.

5.3.2 Consistency with Assumptions in Air Quality Plans

The primary way of determining consistency with the AQMPs' assumptions is determining consistency with the applicable general plan to see that the Project's population density and land use are consistent with the growth assumptions used in the AQMPs for the SJVAB.

As required by California law, general plans contain a land use element that details the types and quantities of land uses that the city or county estimates will be needed for future growth and designates locations for land uses to regulate growth. The Fresno Council of Governments uses the growth projections and land use information in adopted general plans and other sources to estimate future average daily trips and vehicles miles traveled, which are then provided to SJVAPCD to estimate future emissions in the AQMPs. Existing and future pollutant emissions computed in the AQMPs are based on land uses from area general plans. AQMPs detail the control measures and emission reductions required for reaching attainment of the air standards based on these growth and emission estimates.

The applicable general plan for the area around the Project Site is the Fresno General Plan, which was adopted in 2014, prior to the SJVAPCD's adoption of the applicable AQMPs. Per the Fresno General Plan, the land use designation for the area around the Project Site is Downtown General. The Downtown General designation allows for the development of courthouses, therefore the Project is consistent with the Fresno General Plan. Operational staff and associated vehicle trips would be limited and most of the

operational labor force is expected to be from surrounding local communities. The Project would employ up to 390 full-time employees and 14 part-time employees daily, which falls within the Fresno General Plan's employment projections of 108,000 by 2035 (City of Fresno 2014). Accordingly, long-term emissions associated with operational vehicle trips would be negligible and would not conflict with any assumptions of the applicable AQMPs. For example, the AQMPs assumes the regional fleet will trend towards cleaner technology with CARB incentive programs like the Low Emission Vehicle Program and Zero-Emission Vehicle Program. Therefore, the Project would be consistent with the buildout assumptions included in the County's General Plan and, therefore, the Project would also be consistent with the modeling used to prepare the AQMPs. The impact would be less than significant.

5.3.3 Control Measures

The AQMP contains several control measures that are enforceable requirements through the adoption of rules and regulations. A detailed description of rules and regulations that apply to the Project is provided in Section 2.2. The Project would not conflict with or obstruct implementation of the applicable AQMP. For example, construction and decommissioning activities would be consistent with Regulation VIII and the BMPs disclosed within Rule 8021.

5.3.4 Conclusion

As a result, the Project would not conflict with or obstruct implementation of the applicable air quality plan.

Impact AIR-2	**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?**

In developing thresholds of significance for air pollutants, the SJVAPCD considered the emission levels for which a project's individual emissions would be cumulatively considerable. If a project exceeds the identified significance thresholds, its emissions would be cumulatively considerable, resulting in significant adverse air quality impacts to the region's existing air quality conditions. If emissions fall below thresholds, then a project's impacts are not considered cumulative considerable and would not result in an adverse air quality impact (SJVAPCD 2015).

The SJVAPCD GAMAQI adopted in 2015 contains thresholds for ROG and NOx, SOx, CO, PM_{10}, and $PM_{2.5}$ (Table 7).

5.3.5 Construction Emissions

Project emissions during construction are generated from off-road construction equipment, worker vehicle trips, and hauling trips. As shown in Table 8, the emissions from construction fall below SJVAPCD thresholds, and impacts would be less than significant.

Table 8. Construction Emissions

Emissions Source		Emissions (tons/year)					
		ROG	NOx	CO	SOx	PM_{10}	$PM_{2.5}$
Project Construction	Year 2029	0.04	0.33	0.42	<0.01	0.13	0.04
	Year 2030	0.14	1.16	1.54	<0.01	0.08	0.05
	Year 2031	0.13	1.10	1.50	<0.01	0.03	0.03
	Year 2032	0.13	1.07	1.50	<0.01	0.03	0.02
	Year 2033	1.07	0.94	1.36	<0.01	0.02	0.02
	Mobile (2029-2033)[1]	0.67	8.78	5.75	0.05	1.72	0.51
Thresholds		**10**	**10**	**100**	**27**	**15**	**15**
Any Year Exceed Thresholds?		**No**	**No**	**No**	**No**	**No**	**No**

Notes:
[1] Mobile emissions were calculated using emission factors for 2029 with EMFAC 2021 with EPA approved adjustment factors.
Source of Emissions: CalEEMod Output (Appendix A).
Source of Thresholds: SJVAPCD 2015.

5.3.6 Operation and Maintenance Emissions

Emissions during operation of the Project would be generated during routine site maintenance, including landscaping and repainting, and employee, jurors, defendants, and the public's trips to and from the Project Site. As shown in Table 9, the net operational emissions fall below SJVAPCD thresholds; therefore, the Project impacts would be less than significant.

Table 9. Operational Emissions

Source	Emissions (tons/year)					
	ROG	NOx	CO	SO_X	PM_{10}	$PM_{2.5}$
Mobile	4.17	5.22	22.97	0.06	5.94	1.54
Area	1.97	0.01	1.62	<0.01	<0.01	<0.01
Energy	0.04	0.81	0.68	<0.01	0.06	**0.06**
Project Total	6.18	6.04	25.27	0.07	6.00	1.60
Existing Total	(1.64)	(1.56)	(7.22)	(0.02)	(1.26)	(0.34)
Net Total	**4.54**	**4.48**	**18.05**	**0.05**	**4.74**	**1.26**
Thresholds	**10**	**10**	**100**	**27**	**15**	**15**
Any Year Exceed Thresholds?	**No**	**No**	**No**	**No**	**No**	**No**

Source: CalEEMod Output (Appendix A).
Source of Thresholds: SJVAPCD 2015.
Notes:
Emissions were quantified using CalEEMod based on Project details and estimated operating year for the Project. Totals may not sum exactly due to rounding.

5.3.7 Conclusion

As shown in Table 9 and Table 10, criteria pollutant emissions would not exceed any threshold of significance during Project construction or long-term operation. The Project would not result in a cumulatively considerable net increase of any criteria pollutant for which the Project region is non-attainment under applicable federal or state ambient air quality standards. The impact would be less than significant.

Impact AIR-3	**Expose sensitive receptors to substantial pollutant concentrations?**

This discussion addresses whether the Project would expose sensitive receptors to localized concentrations of air pollutants or TACs during construction or operation. According to CARB, some land uses are considered more sensitive to air pollution than others due to the types of population groups or activities involved. Heightened sensitivity may be caused by health problems, proximity to the emissions source, or duration of exposure to air pollutants. Children, pregnant women, the elderly, and those with existing health problems are especially vulnerable to the effects of air pollution. Accordingly, land uses that are typically considered to be sensitive receptors include residences, schools, childcare centers, playgrounds, retirement homes, convalescent homes, hospitals, and medical clinics.

As depicted in Figure 1, Project Location, the closest sensitive receptors are residences located approximately 750 feet east of the Project site.

5.3.8 Construction

During construction activities associated with the Project, the potential exists for sensitive receptors in the Project area to be exposed to localized impacts from criteria pollutants (i.e., CO, NO_2, PM), asbestos, fugitive dust, Valley Fever, and DPM. The potential impacts are evaluated below.

5.3.8.1 Localized Impacts

Emissions occurring at or near the Project have the potential to create a localized impact, also referred to as an air pollutant hotspot. Localized emissions are considered significant when, combined with background emissions, they would result in exceedance of any health-based air quality standard. In locations that already exceed standards for these pollutants, significance is based on a significant impact level that represents the amount that is considered a cumulatively considerable contribution to an existing violation of an air quality standard.

SJVAPCD has provided guidance for screening localized impacts in the GAMAQI that establishes a screening threshold of 100 pounds per day of any criteria pollutant. If a project exceeds 100 pounds per day of any criteria pollutant, then ambient air quality modeling would be necessary. If the project does not exceed 100 pounds per day of any criteria pollutant, then it can be assumed that it would not cause a violation of an ambient air quality standard.

It should be noted that localized impacts only account for on-site emissions. Most on-road mobile sources from construction worker trips, vendor trips, and hauling trips would be generated off-site on existing roadways. Therefore, the localized emissions account for all on-site sources (off-road construction equipment, architectural coating) and mobile source emissions generated within 0.25 miles of the Project site to account for any on-site vehicle movement and idling. As shown in Table 10, on-site construction emissions would be less than 100 pounds per day for each of the criteria pollutants. Based on SJVAPCD's guidance, the construction emissions would not cause an ambient air quality standard violation. Impacts would be less than significant.

Table 10. Localized Concentrations of Emissions for Construction

Emissions Source	Emissions (pounds per day)			
	NOx[1]	CO	PM_{10}	$PM_{2.5}$
Construction Maximum	84.20	80.60	4.34	2.05
Significance Thresholds	**100**	**100**	**100**	**100**
Any Year Exceed Significance Thresholds?	**No**	**No**	**No**	**No**

Source of Emissions: CalEEMod Output (Attachment A).
Source of Thresholds: SJVAPCD 2015.
Notes:
[1] NOx emissions used as a proxy for NO_2.

5.3.8.2 Asbestos

According to the United States Geological Survey (USGS), no NOA is present within the Project area (USGS 2011). Therefore, development of the Project is not anticipated to expose receptors to NOA. Impacts would be less than significant.

Exposure to asbestos can occur during demolition or remodeling of buildings constructed prior to 1977, when asbestos was banned for use in buildings. The existing on-site buildings were constructed between 1942 and 1970 and, as a result, have the potential to include ACBMs. The Project would be required to comply with the provisions in the Judicial Council's Policy on Asbestos Management for Court Facilities (Judicial Council 2018). Provisions of this policy include:

- Informing all entities of the potential hazard.
- A written program that complies with applicable federal, state, and local laws and regulations, as well as asbestos-related labor and business laws, and regulations regarding asbestos management, storage, and disposal.
- Fugitive dust control measures.
- Work conducted must follow the written program.
- All entities must follow the Asbestos Notification Requirements.

Compliance with Judicial Council's Policy on Asbestos Management for Court Facilities would minimize sensitive receptors' exposure to substantial concentrations of asbestos including worker safety and fugitive dust measures, and the impact would be less than significant.

5.3.8.3 Fugitive Dust

The potential for localized PM_{10} and $PM_{2.5}$ health impacts is a concern for sensitive receptors. The closest sensitive receptor is located approximately 750 feet east of the Project Site. Most of this fugitive dust would remain localized and would be deposited near the Project Site. However, the potential for impacts from fugitive dust exists unless control measures are implemented to reduce the emissions from the Project Site. The Project would comply with SJVAPCD's Regulation VIII by preparing and complying with a Dust Control Plan that incorporates BMPs for reducing fugitive dust. BMPs required under SJVAPCD Rule 8021 are listed above. With implementation of these BMPs, potential impacts to sensitive receptors resulting from fugitive dust would be less than significant.

5.3.8.4 Valley Fever

Valley fever, or *coccidioidomycosis*, is an infection caused by inhalation of the spores of the fungus *Coccidioides immitis* (*C. immitis*). The spores live in soil and can live for an extended time in harsh environmental conditions. Activities or conditions that increase the amount of fugitive dust contribute to greater exposure, and they include dust storms, grading, and recreational off-road activities. The San Joaquin Valley is considered an endemic area for Valley fever.

Construction activities would generate fugitive dust that could contain *C. immitis* spores. The Project would minimize the generation of fugitive dust during construction activities by complying with SJVAPCD's Regulation VIII and implementing the BMPs contained therein. BMPs include using water or chemical stabilizers to reduce opacity to less than 20 percent to prevent airborne dust that carries valley fever. Additionally, construction contractors would be subject to the Occupational Safety and Health Administration's (OSHA) standards for worker protection, including Construction Standard for Personal Protective Equipment (29 CFR 1926 Subpart E) (OSHA 2026). With implementation of these BMPs and OSHA standards, potential impacts to sensitive receptors resulting from Valley Fever would be less than significant.

5.3.8.5 Diesel Particulate Matter

Construction activities have the potential to generate DPM emissions related to the number and types of diesel-powered equipment typically associated with construction. Off-road, heavy-duty diesel equipment used for site grading and other construction activities result in the generation of DPM, which is a primary pollutant of concern when evaluating the health risk posed to sensitive receptors. According to CARB, the concentration of DPM is a factor of distance from the source of emissions. Because of the proximity of sensitive receptors there is the potential for DPM emissions to result in a health impact. Accordingly, a construction HRA was prepared to determine if a potential health risk would occur as a result of Project construction.

The construction HRA evaluated DPM (represent as exhaust PM_{10}) emissions generated during construction of the Project and the related health risk impacts for sensitive receptors located within 1,000 feet of the Project boundary. A project would result in a significant impact if it would individually expose sensitive receptors to TACs resulting in an increased cancer risk greater than 20 in one million or an increased non-cancer risk of greater than 1.0 on the hazard index (SJVAPCD 2015).

The nearest sensitive receptors are residents occupying an apartment complex approximately 750 feet east of the Project Site. To estimate the potential cancer risk associated with construction of the Project from equipment exhaust (including DPM), a dispersion model was used to translate an emission rate from the source location to concentrations at the receptor locations of interest (i.e., receptors at nearby residences).

As discussed above, AERMOD dispersion model was used to predict concentrations of DPM at sensitive receptors within 1,000 feet of the Project Site. To model emissions, a release height of three meters was chosen to represent the release height of construction equipment. Emissions from off-road construction equipment and on-road vehicle travel were distributed throughout the modeled area source. AERMOD modeling was performed to assess the risks posed to nearby receptors from the on-site construction. On-site modeling was assumed to occur as an area source.

The current OEHHA guidance recommends that cancer risks be calculated by age groups to account for different breathing rates and sensitivity to TACs. Specifically, it recommends evaluating the risks for the third trimester of pregnancy to age zero (third trimester exposure), ages zero to less than two (infant exposure), ages two to less than 16 (child exposure), and ages 16 to 70 (adult exposure). Age sensitivity factors (ASFs) associated with the different types of exposure are an ASF of 10 for the third trimester and infant exposure, an ASF of three for child exposure, and an ASF of one for an adult exposure. Also associated with each exposure type are different breathing rates, expressed as liters per kilograms of body weight per day (L/kg-day). As recommended, 95th percentile breathing rates are used for the third trimester and infant exposure, and 80th percentile breathing rates are used for child and adult exposure. These age-specific breathing rates are 361 L/kg-day for the third trimester receptor, 1,090 L/kg-day for the infant receptors, 572 L/kg-day for child receptors, and 233 L/kg-day for adult receptors (OEHHA 2015). According to OEHHA, the cancer risk for a residential receptor is assumed to start in the third trimester of life. Project construction would occur over approximately 4.04 years and would include the third trimester, the infant, and the first 1.79 years of the child stages of life to account for the entire construction period.

Results of the construction health risk analysis are summarized in Table 11. The calculations and AERMOD output data used in the assessment are included in Appendix B.

Table 11: Health Risks from Project Construction at the Maximally Exposed Sensitive Receptor

Health Impact Metric	Carcinogenic Inhalation Health Risk in One Million	Chronic Inhalation Hazard Index (construction)[1]
Closest Sensitive Receptor	8.9	0.004
Threshold	20	1
Exceeds Threshold?	**No**	**No**

Notes:
[1] Chronic non-cancer hazard index was estimated by dividing the annual DPM concentration (as PM10 exhaust) by the REL of 5 µg/m3.
Source: Appendix B.

As shown in Table 11, construction of the Project would not expose nearby receptors to cancer and noncancer risks that exceed the SJVAPCD's threshold of significance. Therefore, the impact related to DPM exposure during construction would be less than significant.

5.3.9 Operation

The potential for sensitive receptors in the Project area to be exposed to localized impacts from criteria pollutants (i.e., CO, NO_2, PM), fugitive dust, Valley Fever, and DPM are evaluated below.

5.3.9.1 Localized Impacts

Localized impacts could occur in areas with a single large source of emissions, such as a fuel power plant, or with multiple sources concentrated in a small area, such as a distribution center. The Project proposes to develop a courthouse. Table 13 demonstrates the daily operational emissions from the Project and demonstrates that during operation, the Project would not exceed localized concentrations.

Table 12. Localized Concentrations of Emissions for Operations

Emissions Source	Emissions (pounds per day)			
	NOx[1]	**CO**	**PM_{10}**	**$PM_{2.5}$**
Operation Maximum	30.35	97.26	2.06	0.83
Significance Thresholds	**100**	**100**	**100**	**100**
Any Year Exceed Significance Thresholds?	**No**	**No**	**No**	**No**

Source of Emissions: CalEEMod Output (Attachment A).
Source of Thresholds: SJVAPCD 2015.
Notes:
[1] NOx emissions used as a proxy for NO_2.

5.3.9.2 Fugitive Dust and Valley Fever

During operation, dust emissions are anticipated to be negligible because most of the Project area would be occupied by buildings, landscaping, and pathways. Thus, the potential for the Project to generate fugitive dust, including dust that may expose sensitive receptors to Valley Fever, during operations would be similar to existing conditions and less than significant.

5.3.9.3 Diesel Particulate Matter

The greatest potential during long-term operations for exposure to TACs is from the use of heavy-duty diesel trucks and stationary generators that use diesel fuel. Given the nature of the Project, vehicle trips to and from the Project Site during operations would primarily be from courthouse staff and members of the public. As a result, the Project would attract very few diesel-fueled truck trips. Additionally, the Project may include an emergency, back-up stationary generator on-site. However, the generator would only operate during routine testing and maintenance operations and, as a result, would not generate DPM that would impact nearby sensitive receptors. The back-up generator would be permitted by SJVAPCD prior to installation. For these reasons, once operational, the Project would not be expected to expose nearby sensitive receptors to substantial amounts of DPM.

5.3.10 Conclusion

The Project would not expose sensitive receptors to substantial pollutant concentrations during construction or operation, therefore, the impact would be less than significant.

Impact AIR-4	**Result in other emissions (such as those leading to odors) affecting a substantial number of people?**

While offensive odors rarely cause any physical harm, they can still be unpleasant, leading to considerable distress among the public and often generating citizen complaints to local governments and SJVAPCD. The occurrence and severity of odor impacts depends on numerous factors, including nature, frequency, and intensity of the source, the wind speed and direction, and the sensitivity of the receptor. The nearest sensitive receptors to the Project Site are the residents occupying an apartment complex approximately 750 feet to the east.

5.3.11 Construction

Construction activities associated with the Project could result in short-term odorous emissions from diesel exhaust associated with diesel-fueled equipment. However, these emissions would be intermittent and would dissipate rapidly from the source. In addition, this diesel-powered equipment would only be present on-site temporarily during construction activities. In general, construction activities would not create objectionable odors affecting a substantial number of people, and the impact would be less than significant.

5.3.12 Operation

Land uses typically considered as associated with the production of odors during operations include wastewater treatment facilities, waste disposal facilities, and agricultural operations. The Project does not include any land uses that are typically associated with emitting objectionable odors. In the unlikely event that the Project emits an objectionable odor, the SJVAPCD receives complaints about nuisance odors through its Rule 4102 process, and SJVAPCD may coordinate with the Judicial Council if a complaint is received.

5.3.13 Conclusion

The Project would not result in other emissions (such as those leading to odors) affecting a substantial number of people, therefore, impacts would be less than significant.

6 Greenhouse Gas Impact Analysis

6.1 CEQA Guidelines

According to the CEQA Guidelines' Appendix G Environmental Checklist, the following questions are analyzed and evaluated to determine whether impacts related to GHGs are considered to be significant environmental effects.

Where available and determined to be appropriate for the Project, the Judicial Council may reference the significance criteria established by the applicable air quality management or air pollution district to make the following determinations.

Would the Project:

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

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

6.1.1 Thresholds

The SJVAPCD's guidance for valley land use agencies in addressing GHG emission impacts for new projects under CEQA presents a tiered approach to analyzing project significance with respect to GHG emissions. On November 20, 2015, the California Supreme Court issued its decision on the *Center for Biological Diversity v. California Department of Fish and Wildlife* on the Newhall Ranch project case. The Court determined that there is no substantial evidence to link a specific project's achievement of CARB's scoping plan's statewide average reduction below BAU to the conclusion that the project's reduction would meet AB 32's 2020 goals. Furthermore, since the release of SJVAPCD's guidance, SB 32 was enacted, which requires the state to further reduce GHG emissions beyond the goals established in AB 32. As a result, the SJVAPCD's 29 percent reduction in emissions as compared to a BAU standard is outdated and was not used for this analysis.

CEQA Guidelines Section 15064.4 provides guidance for determining the significance of impacts from GHGs as follows:

> (a) The determination of the significance of greenhouse gas emissions calls for a careful judgment by the lead agency consistent with the provisions in Section 15064. A lead agency shall make a good-faith effort, based to the extent possible on scientific and factual data, to describe, calculate or estimate the amount of greenhouse gas emissions resulting from a project. A lead agency shall have discretion to determine, in the context of a particular project, whether to:
>
> (1) Quantify greenhouse gas emissions resulting from a project; and/or

(2) Rely on a qualitative analysis or performance-based standards.

(b) In determining the significance of a project's greenhouse gas emissions, the lead agency should focus its analysis on the reasonably foreseeable incremental contribution of the project's emissions to the effects of climate change. A project's incremental contribution may be cumulatively considerable even if it appears relatively small compared to statewide, national or global emissions. The agency's analysis should consider a timeframe that is appropriate for the project. The agency's analysis also must reasonably reflect evolving scientific knowledge and state regulatory schemes. A lead agency should consider the following factors, among others, when determining the significance of impacts from greenhouse gas emissions on the environment:

(1) The extent to which the project may increase or reduce greenhouse gas emissions as compared to the existing environmental setting;

(2) Whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project.

(3) The extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of greenhouse gas emissions (see, e.g., Section 15183.5(b)). Such requirements must be adopted by the relevant public agency through a public review process and must reduce or mitigate the project's incremental contribution of greenhouse gas emissions. If there is substantial evidence that the possible effects of a particular project are still cumulatively considerable notwithstanding compliance with the adopted regulations or requirements, an EIR must be prepared for the project. In determining the significance of impacts, the lead agency may consider a project's consistency with the state's long-term climate goals or strategies, provided that substantial evidence supports the agency's analysis of how those goals or strategies address the project's incremental contribution to climate change and its conclusion that the project's incremental contribution is not cumulatively considerable.

(c) A lead agency may use a model or methodology to estimate greenhouse gas emissions resulting from a project. The lead agency has discretion to select the model or methodology it considers most appropriate to enable decision makers to intelligently take into account the project's incremental contribution to climate change. The lead agency must support its selection of a model or methodology with substantial evidence. The lead agency should explain the limitations of the particular model or methodology selected for use.

6.1.2 Project Threshold of Significance

For development projects, an effective way to evaluate the project's generation of GHG emissions is to evaluate whether a subject project "incorporates efficiency and conservation measures sufficient to contribute its portion of the overall GHG reductions necessary" for the State to achieve its own mandates (*Center for Biological Diversity, et al. v. Department of Fish and Wildlife* (2015) 62 Cal.4th 204).

The intent of the 2022 Scoping Plan, and the State legislation on which it is built, is to decouple the State's population and economic growth from carbon emissions, thereby accommodating continued growth in California but in a way that achieves a lower rate of GHG emissions (CARB 2022). With a reduced rate of emissions per resident and employee, California can accommodate expected population growth and achieve economic development objectives, while also achieving legislative emissions targets. An efficiency target can be developed that mirrors statewide emissions reduction legislation and applicable EOs for the target year. To create an efficiency target, the statewide emissions target for a specified target year can be divided by the forecast population and employment statewide for the same year. This yields an emissions "budget" for each California resident/employee and allows a community to assess whether or not its emissions rate is consistent with the statewide emissions budget.

If a project or plan demonstrates that the rate of GHG emissions is efficient enough to provide its share of State emissions reduction targets, the impact is not cumulatively considerable (*Center for Biological Diversity, et al. v. Department of Fish and Wildlife*, *supra*). Therefore, for evaluation of the Project's generation of GHG emissions, this analysis uses a GHG efficiency metric that is tailored for new development, to the proposed Project, and to the proposed Project location to assess the GHG efficiency of the Project, and whether the Project provides for its share of emissions reductions embodied within SB 32 in the short-term and EO S-3-05 for the consideration of the State's long-term emissions reductions goals.

Table 13 presents the land use-related statewide emissions and employment figures and calculates the proposed 2030 and 2050 GHG efficiency targets to quantitatively evaluate the proposed Project's GHG emissions. Adjusted emissions remove GHG emissions associated with residential land uses as the Project does not include any residential land uses. For the purposes of analysis in this EIR, the 2030 GHG efficiency threshold was calculated to be 11.63 MT CO2e per employee and the 2050 GHG efficiency threshold was calculated to be 3.31 MT CO2e per employee; additional calculations and inputs provided in Table 13.

Table 13. GHG Efficiency Threshold

Metric	**1990 State Inventory**	**2030 Project-specific GHG Efficiency Threshold**	**2050 Project-specific GHG Efficiency Threshold**
Statewide Emissions (MMT CO_2e/yr)	431	258	86
Adjusted Land Use-Related Emissions (MMT CO_2e/yr)[1]	401	241	80
Percent Mass Emissions Reduction	n/a	40 percent below 1990	80 percent below 1990
Statewide Employment[2] (service population)	n/a	20,715,080	24,153,880
Per Employee Emissions Efficiency Threshold ($MTCO_2e$/SP)	**n/a**	**11.63**	**3.31**

Sources: CARB 2007 and Employment Development Department (EDD) 2025.
Notes:
[1] GHG emissions associated with residential uses were removed.
[2] Employment projections for 2030 and 2050 are calculated using a linear forecast from 2023 (19,511,500 employees) and 2033 (21,230,900 employees) data.

Additionally, the Project would be required to comply with CARB's 2022 Scoping Plan. To determine whether the Project would conflict with an applicable plan, policy, or regulation adopted for the purposes of reducing GHG emissions, the Project was evaluated for consistency with the applicable state plan. While SJVAPCD has a CAAP, SB 32 was issued after the CAAP was adopted, which requires the state to further reduce GHG emissions beyond the goals laid out in AB 32 and therefore the CAAP is outdated.

6.2 GHG Impact Analysis

Impact GHG-1	**Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?**

The following emissions estimate is consistent with CEQA Guidelines Section 15064.4(a). CalEEMod was used to estimate the Project's GHG emissions during construction and operation. Modeling assumptions are described in Section 4.

6.2.1 Constructions Emission Inventory

Construction GHGs would be emitted temporarily by off-road construction equipment, vehicle travel by workers, material hauling from the Project Site, and material deliveries to the Project Site. The estimated construction GHG emissions are shown in Table 14. Because construction GHG emissions are temporary, they are typically amortized over the life of the Project and added to operational emissions. The Project is anticipated to have a lifetime of 30 years.

Table 14. Construction Greenhouse Gas Emissions

Construction Year	Metric Tons of Carbon Dioxide Equivalents (MT CO2e)
Construction—2029	77.52
Construction—2030	264.56
Construction—2031	261.18
Construction—2032	261.90
Construction—2033	230.15
Construction—Mobile (2029-2033)	5,379.39
Total	**6,477.70**
Amortized over 30 years[1]	**215.92**

Source: CalEEMod Output (Appendix A).

Notes:

[1] GHG emissions are amortized over the 30-year life of the Project.

6.2.2 Operational Emission Inventory

Operational or long-term emissions occur over the life of the Project. Operational activities of the Project would generate GHG emissions primarily from employees, jurors, defendants, and the public's trips to and from the Project Site, energy usage, landscaping equipment, handling of solid waste, and emissions associated with water and wastewater. Net operational GHG emissions associated with the Project are shown in Table 15 and demonstrate that implementation of the Project would result in an increase of GHG emissions and would exceed the Project's 2030 GHG efficiency threshold in 2033 (Project buildout) and the Project's 2050 GHG efficiency threshold in 2050. Therefore, the impact is potentially significant.

Table 15. Operational Greenhouse Gas Emissions

Source	Emissions of Metric Tons of Carbon Dioxide Equivalents (MT CO_2e) Per Year (2033)	Emissions of Metric Tons of Carbon Dioxide Equivalents (MT CO_2e) Per Year (2050)
Mobile	6,012.82	5,666.72[1]
Area	6.05	6.05
Energy	947.92	877.64
Water	114.00	111.65
Waste	119.90	119.90
Refrigerants	0.17	0.17
Total Operational Emissions	*7,200.86*	*6,782.13*
Amortized Construction Emissions	215.92	215.92
Project Total	7,416.78	6,998.05
Existing Total	**(1,723.30)**	**(1,723.30)**
Net Project Total	5,693.48	5,274.75
Project Service Population	404	**404**
Project GHG Efficiency (MT CO_2e per service population)	**14.09**	**13.06**
GHG Efficiency Threshold (MT CO_2e per service population)[2]	**11.63**	**3.31**
Exceed Threshold?	**Yes**	**Yes**

Source: CalEEMod Output (Appendix A).Notes:

[1] Increased electricity use from EV charging would not increase GHG emissions in 2050, as RPS requires 100 percent renewables by 2045.

[2] The 2030 GHG efficiency threshold is applied to 2032 (Project buildout).

The Project would implement the following mitigation measures:

Mitigation Measure GHG-1: The Judicial Council shall not include natural gas infrastructure to or within the Project site and Project operations shall not use natural gas.

Mitigation Measure GHG-2: The Judicial Council shall include the following TDM measures:

- Provide cyclists end-of-trip facilities (i.e., showers, lockers, and similar features) in the project design and operational maintenance.
- Provide transit-oriented design.
- Implement commute trip reduction marketing.
- Provide ridesharing program.

As shown in Table 16, with implementation of the Mitigation Measures GHG-1 and GHG-2 GHG emissions would reduce long term operational GHG emissions below the 2030 GHG efficiency threshold, however, GHG emissions would remain above the 2050 GHG efficiency threshold.

Table 16. Mitigated Operational Greenhouse Gas Emissions

Source	Emissions of Metric Tons of Carbon Dioxide Equivalents (MT CO_2e) Per Year (2033)	Emissions of Metric Tons of Carbon Dioxide Equivalents (MT CO_2e) Per Year (2050)
Mobile	4,311.38	4,063.21[1]
Area	6.05	6.05
Energy	70.28	0
Water	114.00	111.65
Waste	119.90	119.90
Refrigerants	0.17	0.17
Total Operational Emissions	*4,621.78*	*4,300.98*
Amortized Construction Emissions	215.92	**215.92**
Project Total	4,837.70	4,516.90
Existing Total	(1,723.30)	(**1,723.30**)
Net Project Total	3,114.40	2,793.60
Project Service Population	404	404
Project GHG Efficiency (MT CO_2e per service population)	**7.71**	**6.91**
GHG Efficiency Threshold (MT CO_2e per service population)[2]	**11.63**	**3.31**
Exceed Threshold?	**No**	**Yes**

Source: CalEEMod Output (Appendix A).

Notes:

[1] Increased electricity use from EV charging would not increase GHG emissions in 2050, as RPS requires 100 percent renewables by 2045.

[2] The 2030 GHG efficiency threshold is applied to 2033 (Project buildout).

It should be noted that, operational emissions may be further reduced by the following Project attributes that cannot be quantified at this time:

- The Project would be designed and constructed to a LEED silver rating, at a minimum, which would include additional energy and resource efficiency measures that could reduce related GHG emissions.
- The Judicial Council shall offer jurors public transportation passes at no cost to the juror, to support increased use of public transit as a mode of travel by visitors to and from the Project site, thereby reducing VMT and related mobile-source GHG emissions.

6.2.3 Conclusion

As shown in Table 16, the Project's GHG emissions, would be reduced below the 2030 GHG efficiency threshold with implementation of Mitigation Measures GHG-1 and GHG-2. However, GHG emissions would remain above the 2050 GHG efficiency threshold. Thus, impacts would be significant and unavoidable.

Impact GHG-2	**Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?**

A project would have a significant impact with respect to GHG emissions and global climate change if it would substantially conflict with the provisions of CEQA Guidelines Section 15064.4(b). Pursuant to CEQA Guidelines Appendix G, a significant GHG impact is identified if the project could conflict with applicable GHG reduction plans, policies, or regulations.

6.2.4 Consistency with State GHG Reduction Strategies

CARB's 2022 Scoping Plan sets a framework for California to meet the reduction targets of SB 32 and AB 1279. The 2022 Scoping Plan builds upon previous iterations of state scoping plans to achieve carbon neutrality and reduce anthropogenic GHG emissions by 85 percent of year 1990 levels no later than 2045, as directed by AB 1279. Table 17 evaluates Project consistency with the GHG reduction strategies identified in the 2022 Scoping Plan. As shown therein, the Project would be consistent with all applicable measures and, as a result, would support the overall carbon neutrality goal established by the 2022 Scoping Plan.

Table 17. Project Consistency with 2022 Scoping Plan Greenhouse Gas Reduction Strategies

Measure	Consistency Determination
Deploy ZEVs and reduce driving demand	**Consistent.** The Project is in close proximity to Fresno Area Express bus lines. Additionally, the Project Site is easily accessible by pedestrians. Moreover, the Project would consolidate courts from several different courthouses in one centralized location, reducing vehicle trips associated with multiple facilities. The Project would not directly deploy ZEVs, however consistent with the 2025 California Green Building Standards (CALGreen), or applicable code at the time of construction, the proposed secure parking would include electric vehicle (EV)-capable spaces and EV chargers. Additionally, the Project would implement Mitigation Measure GHG-2.
Generate clean electricity	**Consistent.** The Project would not directly generate clean electricity. However, the Project would purchase electricity from PG&E, which is subject to the RPS. The RPS would require utilities to provide 100% GHG free sources of electricity to consumers by 2045. PG&E offers 100% GHG free electricity via two plans, 100% solar choice and Green Saver, according to their 2024 power content label. Additionally, PG&E's base plan provides 98% GHG free electricity (PG&E 2025).
Decarbonize Buildings	**Consistent.** The Project would be constructed in compliance with the applicable CALGreen standards and would meet at least LEED Silver certification. Moreover, the Project would replace older, less efficient buildings and consolidate functions reducing energy consumption associated with multiple facilities. Additionally, with implementation of Mitigation Measure GHG -1, the Project would be all-electric and would not include any natural gas connections.
Reduce non-combustion emissions (Methane)	**Consistent.** The Project would not include any land uses that generate significant levels of methane, such as landfills or dairy farms.
Reduce non-combustion emissions (Hydrofluorocarbons [HFCs])	**Consistent.** The Project would comply with all applicable SJVAPCD and state regulations governing short-lived climate pollutants (SLCPs), including HFCs.
Compensate for remaining emissions	**Not Applicable.** This measure is aimed at the state government to reduce statewide emissions to meet AB 1279 goals.

Source: CARB 2022b.

This analysis finds that the Project would be consistent with the applicable strategies recommended in the 2022 Scoping Plan.

6.2.5 Conclusion

The Project would not conflict with an applicable plan adopted for the purposes of reducing GHG emissions, and impacts would be considered less than significant.

7 References

CARB. 2025a. Sulfur Dioxide & Health. Available online at: https://ww2.arb.ca.gov/resources/sulfur-dioxide-and-health. Accessed November 2025.

_____. 2025b. Overview: Diesel Exhaust & Health. Available online at: https://ww2.arb.ca.gov/resources/overview-diesel-exhaust-and-health. Accessed November 2025.

_____. 2025c. Sulfate & Health. Available online at: https://ww2.arb.ca.gov/resources/sulfate-and-health. Accessed November 2025.

_____. 2025d. Hydrogen Sulfide & Health. Available online at: https://ww2.arb.ca.gov/resources/hydrogen-sulfide-and-health. Accessed November 2025.

_____. 2025e. Vinyl Chloride & Health. Available online at: https://ww2.arb.ca.gov/resources/vinyl-chloride-and-health. Accessed November 2025.

_____. 2025f. Visibility-Reducing Particles & Health. Available online at: https://ww2.arb.ca.gov/resources/visibility-reducing-particles-and-health. Accessed November 2025.

_____. 2025g. iADAM: Air Quality Data Statistics. Available online at: https://www.arb.ca.gov/adam/index.html. Accessed November 2025.

_____. 2025h. GHG Short-Lived Climate Pollutant Inventory. Available online at: https://ww2.arb.ca.gov/ghg-slcp-inventory. Accessed November 2025.

_____. 2025i. SB 375 Regional Plan Climate Targets. Available online at: https://ww2.arb.ca.gov/our-work/programs/sustainable-communities-program/regional-plan-targets. Accessed November 2025.

———. 2024a. Table of Ambient Air Quality Standards. Available online at: https://ww2.arb.ca.gov/sites/default/files/2024-08/AAQS%20Table_ADA_FINAL_07222024.pdf. Accessed November 2025.

_____. 2024b. California Greenhouse Gas Emissions from 2000 to 2022: Trends of Emissions and Other Indicators. Available online at: https://ww2.arb.ca.gov/sites/default/files/2024-09/nc-2000_2022_ghg_inventory_trends.pdf. Accessed November 2025.

_____. 2022. 2022 Scoping Plan. Available online at: https://ww2.arb.ca.gov/sites/default/files/2022-12/2022-sp_1.pdf. Accessed November 2025.

_____. 2018. Climate Pollutants Fall Below 1990 Levels for the First Time. Available online at: https://ww2.arb.ca.gov/news/climate-pollutants-fall-below-1990-levels-first-time. Accessed November 2025.

_____. 2007. Staff Report California 1990 Greenhouse Gas Emissions Level and 2020 Emissions Limit. Available online at: https://ww2.arb.ca.gov/sites/default/files/classic/cc/inventory/pubs/reports/staff_report_1990_level.pdf. Accessed November 2025.

_____. 2005. Air Quality and Land Use Handbook: A Community Health Perspective. Available online at: https://ww2.arb.ca.gov/sites/default/files/2023-05/Land%20Use%20Handbook_0.pdf. Accessed November 2025.

CDC. 2020. Coccidioidomycosis. Available online at: https://www.cdc.gov/fungal/diseases/coccidioidomycosis/index.html. Accessed September 22, 2022.

City of Fresno. 2014. Fresno General Plan. Available online at: https://www.fresno.gov/wp-content/uploads/2023/03/upload_temp_Consolidated-GP-10-13-2022_compressed.pdf. Accessed November 2025.

Judicial Council. 2018. Judicial Council Policy on Asbestos Management for Court Facilities. Available online at: https://courts.ca.gov/system/files/jcc_policy_asbestos_mgmt_for_court_facilities.pdf. Accessed November 2025.

_____. 2015. Water Conservation Policy. Available online at: https://www.courts.ca.gov/documents/jc-20150626-itemK.pdf. Accessed November 2025.

NASA. 2025. Wildfires and Climate Change. Available online at: https://science.nasa.gov/wildfires-and-climate-change/. Accessed November 2025.

National Centers for Environmental Information. 2025. County Time Series. Available online at: https://www.ncei.noaa.gov/access/monitoring/climate-at-a-glance/county/time-series/CA-029/tmin/all/2/1895-2023. Accessed November 2025.

PG&E. 2025. Power Content Label. Available online at: https://www.pge.com/assets/pge/docs/about/corporate-responsibility-and-sustainability/2024-pcl-pacific-gas-and-electric-company.pdf. Accessed November 2025.

OSHA. 2026. Valley Fever (Coccidioidomycosis) Standards. Available online at: Valley Fever (Coccidioidomycosis) - Standards | Occupational Safety and Health Administration. Accessed January 2026.

SJVAPCD. 2025. Ambient Air Quality Standards & Valley Attainment Status. Available online at: https://www.valleyair.org/air-quality-information/ambient-air-quality-standards-valley-attainmnet-status/. Accessed November 2025.

_____. 2015. Guidance for Assessing and Mitigating Air Quality Impacts. Available online at: https://www.valleyair.org/transportation/GAMAQI.pdf. Accessed November 2025.

USEPA. 2025a. Criteria Air Pollutants. Available online at: https://www.epa.gov/criteria-air-pollutants?msclkid=402121eaa62811ec9f3a5e32e281714a. Accessed November 2025.

_____. 2025b. Ground-Level Ozone Basics. Available online at: https://www.epa.gov/ground-level-ozone-pollution/ground-level-ozone-basics#wwh. Accessed November 2025.

_____. 2025c. Health Effects of Ozone Pollution. Available online at: https://www.epa.gov/ground-level-ozone-pollution/health-effects-ozone-pollution. Accessed November 2025.

_____. 2025d. Basic Information about Carbon Monoxide (CO) Outdoor Air Pollution. Available online at: https://www.epa.gov/co-pollution/basic-information-about-carbon-monoxide-co-outdoor-air-pollution#What%20is%20CO. Accessed November 2025.

_____. 2024e. Basic Information about NO2. Available online at: https://www.epa.gov/no2-pollution/basic-information-about-no2#What%20is%20NO2. Accessed November 2025.

_____. 2025f. Sulfur Dioxide Basics. Available online at: https://www.epa.gov/so2-pollution/sulfur-dioxide-basics#what%20is%20so2. Accessed November 2025.

_____. 2025g. Learn About Lead. Available online at: https://www.epa.gov/lead/learn-about-lead. Accessed November 2025.

_____. 2025h. Particulate Matter (PM) Basics. Available online at: https://www.epa.gov/pm-pollution/particulate-matter-pm-basics#PM. Accessed November 2025.

_____. 2025i. Learn About Asbestos. Available online at: https://www.epa.gov/asbestos/learn-about-asbestos#asbestos. Accessed November 2025.

_____. 2025j. Carbon Dioxide Emissions. Available online at: https://www.epa.gov/ghgemissions/carbon-dioxide-emissions. Accessed November 2025.

_____. 2025k. Methane Emissions. Available online at: https://www.epa.gov/ghgemissions/methane-emissions. Accessed November 2025.

_____. 2025l. Nitrous Oxide Emissions. Available online at: https://www.epa.gov/ghgemissions/nitrous-oxide-emissions. Accessed November 2025.

_____. 2025m. Fluorinated Gas Emissions. Available online at: https://www.epa.gov/ghgemissions/fluorinated-gas-emissions. Accessed November 2025.

_____. 2025n. Sulfur Hexafluoride (SF6) Basics. Available online at: https://www.epa.gov/eps-partnership/sulfur-hexafluoride-sf6-basics. Accessed November 2025.

_____. 2025o. Inventory of U.S. Greenhouse Gas Emissions and Sinks. Available online at: https://www.epa.gov/ghgemissions/inventory-us-greenhouse-gas-emissions-and-sinks. Accessed November 2025.

_____. 2025p. Inventory of U.S. Greenhouse Gas Emissions and Sinks 1990-2023. Available online at: https://library.edf.org/AssetLink/145ky510ew61fk1tq5c2klp5kq5yp33j.pdf. Accessed November 2025.

USGS. 2011. Reported Historic Asbestos Mines, Historic Asbestos Prospects, and Other Natural Occurrences of Asbestos in California. Available online at: https://pubs.usgs.gov/of/2011/1188/. Accessed November 2025.

Appendices

Appendix A Air Quality and GHG Emission Output Files

New Fresno Courthouse Project Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

1.2. Land Use Types

1.3. User-Selected Emission Reduction Measures by Emissions Sector

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

2.2. Construction Emissions by Year

2.2.1. Total Construction Emissions by Year, Unmitigated

2.2.2. Onsite Construction Emissions by Year, Unmitigated

2.2.3. Offsite Construction Emissions by Year, Unmitigated

2.2.4. Total Construction Emissions by Year, Mitigated

2.2.5. Onsite Construction Emissions by Year, Mitigated

2.2.6. Offsite Construction Emissions by Year, Mitigated

2.3. Operations Emissions Compared Against Thresholds

2.4. Operations Emissions by Sector, Unmitigated

2.5. Operations Emissions by Sector, Mitigated

3. Construction Emissions Details

3.1. Demolition (2029)

3.1.1. Onsite - Unmitigated

3.1.2. Offsite - Unmitigated

3.1.3. Onsite - Mitigated

3.1.4. Offsite - Mitigated

3.2. Site Preparation (2029)

3.2.1. Onsite - Unmitigated

3.2.2. Offsite - Unmitigated

3.2.3. Onsite - Mitigated

3.2.4. Offsite - Mitigated

3.3. Grading (2029)

3.3.1. Onsite - Unmitigated

3.3.2. Offsite - Unmitigated

3.3.3. Onsite - Mitigated

3.3.4. Offsite - Mitigated

3.4. Grading (2030)

3.4.1. Onsite - Unmitigated

3.4.2. Offsite - Unmitigated

3.4.3. Onsite - Mitigated

3.4.4. Offsite - Mitigated

3.5. Building Construction (2030)

3.5.1. Onsite - Unmitigated

3.5.2. Offsite - Unmitigated

3.5.3. Onsite - Mitigated

3.5.4. Offsite - Mitigated

3.6. Building Construction (2031)

3.6.1. Onsite - Unmitigated

3.6.2. Offsite - Unmitigated

3.6.3. Onsite - Mitigated

3.6.4. Offsite - Mitigated

3.7. Building Construction (2032)

3.7.1. Onsite - Unmitigated

3.7.2. Offsite - Unmitigated

3.7.3. Onsite - Mitigated

3.7.4. Offsite - Mitigated

3.8. Building Construction (2033)

3.8.1. Onsite - Unmitigated

3.8.2. Offsite - Unmitigated

3.8.3. Onsite - Mitigated

3.8.4. Offsite - Mitigated

3.9. Paving (2033)

3.9.1. Onsite - Unmitigated

3.9.2. Offsite - Unmitigated

3.9.3. Onsite - Mitigated

3.9.4. Offsite - Mitigated

3.10. Architectural Coating (2033)

3.10.1. Onsite - Unmitigated

3.10.2. Offsite - Unmitigated

3.10.3. Onsite - Mitigated

3.10.4. Offsite - Mitigated

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.1.2. Mitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.2. Electricity Emissions By Land Use - Mitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.2.4. Natural Gas Emissions By Land Use - Mitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.3.2. Mitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.4.2. Mitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.5.2. Mitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.6.2. Mitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.7.2. Mitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.8.2. Mitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.9.2. Mitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.2.2. Mitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.3.2. Mitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.9.2. Mitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.10.4. Landscape Equipment - Mitigated

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.11.2. Mitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.12.2. Mitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.13.2. Mitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.14.2. Mitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

8.1. Justifications

8.2. Project Characteristics

8.2.2. Utility Information

8.3. Land Use

8.4. Construction

8.4.1. Construction Phases

8.4.6. Trips and VMT

8.5. Operations

8.5.1. Mobile Sources

8.5.1.1. Vehicle Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	New Fresno Courthouse Project
Construction Start Date	10/1/2029
Operational Year	2033
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.70000
Precipitation (days)	25.4000
Location	2200 Fresno St, Fresno, CA 93721, USA
County	Fresno
City	Fresno
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2400
EDFZ	5
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.43

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Government Office Building	413.000	1000sqft	2.09000	413,000	0.00000	0.00000	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Transportation	T-3	Provide Transit-Oriented Development
Transportation	T-7	Implement Commute Trip Reduction Marketing
Transportation	T-8	Provide Ridesharing Program
Transportation	T-10	Provide End-of-Trip Bicycle Facilities
Transportation	T-42*	Implement Telecommute and/or Alternative Work Schedule Program
Energy	E-15	Require All-Electric Development

* Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	21.4064	21.0977	13.8383	20.6595	0.03665	0.34069	0.00000	0.34069	0.31343	0.00000	0.31343	—	3,577.97	3,577.97	0.14514	0.02903	0.00000	3,590.25
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	21.4064	21.0977	13.8383	20.6595	0.03665	0.48306	6.95417	7.37730	0.44441	1.40454	1.84895	—	3,577.97	3,577.97	0.14514	0.02903	0.00000	3,590.25
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.96471	5.84497	6.37569	8.45962	0.01656	0.19182	0.61242	0.68636	0.17647	0.14475	0.28917	—	1,592.51	1,592.51	0.06460	0.01292	0.00000	1,597.97
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.08856	1.06671	1.16356	1.54388	0.00302	0.03501	0.11177	0.12526	0.03221	0.02642	0.05277	—	263.657	263.657	0.01070	0.00214	0.00000	264.562

2.2. Construction Emissions by Year

2.2.1. Total Construction Emissions by Year, Unmitigated

Includes both onsite and offsite emissions.

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2030	1.21101	1.00914	8.70495	11.5787	0.02312	0.24315	0.00000	0.24315	0.22369	0.00000	0.22369	—	2,201.04	2,201.04	0.08928	0.01786	0.00000	2,208.60
2031	1.18047	0.98371	8.45577	11.5283	0.02312	0.22711	0.00000	0.22711	0.20894	0.00000	0.20894	—	2,201.04	2,201.04	0.08928	0.01786	0.00000	2,208.60
2032	1.14816	0.95674	8.21410	11.4575	0.02312	0.20641	0.00000	0.20641	0.18990	0.00000	0.18990	—	2,201.05	2,201.05	0.08928	0.01786	0.00000	2,208.60
2033	21.4064	21.0977	13.8383	20.6595	0.03665	0.34069	0.00000	0.34069	0.31343	0.00000	0.31343	—	3,577.97	3,577.97	0.14514	0.02903	0.00000	3,590.25
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2029	1.56315	1.31348	11.6034	14.3673	0.02507	0.48306	6.95417	7.37730	0.44441	1.40454	1.84895	—	2,714.83	2,714.83	0.11013	0.02203	0.00000	2,724.14
2030	1.52791	1.28387	10.6725	13.9358	0.02312	0.46928	3.21716	3.68645	0.43174	1.40454	1.83628	—	2,454.44	2,454.44	0.09956	0.01991	0.00000	2,462.86
2031	1.18047	0.98371	8.45577	11.5283	0.02312	0.22711	0.00000	0.22711	0.20894	0.00000	0.20894	—	2,201.04	2,201.04	0.08928	0.01786	0.00000	2,208.60
2032	1.14816	0.95674	8.21410	11.4575	0.02312	0.20641	0.00000	0.20641	0.18990	0.00000	0.18990	—	2,201.05	2,201.05	0.08928	0.01786	0.00000	2,208.60
2033	21.4064	21.0977	13.8383	20.6595	0.03665	0.34069	0.00000	0.34069	0.31343	0.00000	0.31343	—	3,577.97	3,577.97	0.14514	0.02903	0.00000	3,590.25
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2029	0.25864	0.21719	1.81672	2.32547	0.00436	0.07394	0.61242	0.68636	0.06802	0.14475	0.21277	—	466.650	466.650	0.01893	0.00379	0.00000	468.251
2030	0.89043	0.74286	6.37569	8.45962	0.01648	0.19182	0.25813	0.44995	0.17647	0.11269	0.28917	—	1,592.51	1,592.51	0.06460	0.01292	0.00000	1,597.97
2031	0.84319	0.70265	6.03983	8.23448	0.01651	0.16222	0.00000	0.16222	0.14925	0.00000	0.14925	—	1,572.17	1,572.17	0.06377	0.01275	0.00000	1,577.57
2032	0.82236	0.68526	5.88329	8.20632	0.01656	0.14784	0.00000	0.14784	0.13602	0.00000	0.13602	—	1,576.48	1,576.48	0.06395	0.01279	0.00000	1,581.89
2033	5.96471	5.84497	5.16605	7.45763	0.01453	0.11978	0.00000	0.11978	0.11020	0.00000	0.11020	—	1,385.37	1,385.37	0.05620	0.01124	0.00000	1,390.13
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2029	0.04720	0.03964	0.33155	0.42440	0.00080	0.01349	0.11177	0.12526	0.01241	0.02642	0.03883	—	77.2592	77.2592	0.00313	0.00063	0.00000	77.5243

2030	0.16250	0.13557	1.16356	1.54388	0.00301	0.03501	0.04711	0.08212	0.03221	0.02057	0.05277	—	263.657	263.657	0.01070	0.00214	0.00000	264.562
2031	0.15388	0.12823	1.10227	1.50279	0.00301	0.02961	0.00000	0.02961	0.02724	0.00000	0.02724	—	260.291	260.291	0.01056	0.00211	0.00000	261.185
2032	0.15008	0.12506	1.07370	1.49765	0.00302	0.02698	0.00000	0.02698	0.02482	0.00000	0.02482	—	261.005	261.005	0.01059	0.00212	0.00000	261.901
2033	1.08856	1.06671	0.94280	1.36102	0.00265	0.02186	0.00000	0.02186	0.02011	0.00000	0.02011	—	229.364	229.364	0.00930	0.00186	0.00000	230.151

2.2.2. Onsite Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2030	1.21101	1.00914	8.70495	11.5787	0.02312	0.24315	0.00000	0.24315	0.22369	0.00000	0.22369	—	2,201.04	2,201.04	0.08928	0.01786	0.00000	2,208.60
2031	1.18047	0.98371	8.45577	11.5283	0.02312	0.22711	0.00000	0.22711	0.20894	0.00000	0.20894	—	2,201.04	2,201.04	0.08928	0.01786	0.00000	2,208.60
2032	1.14816	0.95674	8.21410	11.4575	0.02312	0.20641	0.00000	0.20641	0.18990	0.00000	0.18990	—	2,201.05	2,201.05	0.08928	0.01786	0.00000	2,208.60
2033	21.4064	21.0977	13.8383	20.6595	0.03665	0.34069	0.00000	0.34069	0.31343	0.00000	0.31343	—	3,577.97	3,577.97	0.14514	0.02903	0.00000	3,590.25
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2029	1.56315	1.31348	11.6034	14.3673	0.02507	0.48306	6.95417	7.37730	0.44441	1.40454	1.84895	—	2,714.83	2,714.83	0.11013	0.02203	0.00000	2,724.14
2030	1.52791	1.28387	10.6725	13.9358	0.02312	0.46928	3.21716	3.68645	0.43174	1.40454	1.83628	—	2,454.44	2,454.44	0.09956	0.01991	0.00000	2,462.86
2031	1.18047	0.98371	8.45577	11.5283	0.02312	0.22711	0.00000	0.22711	0.20894	0.00000	0.20894	—	2,201.04	2,201.04	0.08928	0.01786	0.00000	2,208.60
2032	1.14816	0.95674	8.21410	11.4575	0.02312	0.20641	0.00000	0.20641	0.18990	0.00000	0.18990	—	2,201.05	2,201.05	0.08928	0.01786	0.00000	2,208.60
2033	21.4064	21.0977	13.8383	20.6595	0.03665	0.34069	0.00000	0.34069	0.31343	0.00000	0.31343	—	3,577.97	3,577.97	0.14514	0.02903	0.00000	3,590.25
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2029	0.25864	0.21719	1.81672	2.32547	0.00436	0.07394	0.61242	0.68636	0.06802	0.14475	0.21277	—	466.650	466.650	0.01893	0.00379	0.00000	468.251
2030	0.89043	0.74286	6.37569	8.45962	0.01648	0.19182	0.25813	0.44995	0.17647	0.11269	0.28917	—	1,592.51	1,592.51	0.06460	0.01292	0.00000	1,597.97
2031	0.84319	0.70265	6.03983	8.23448	0.01651	0.16222	0.00000	0.16222	0.14925	0.00000	0.14925	—	1,572.17	1,572.17	0.06377	0.01275	0.00000	1,577.57
2032	0.82236	0.68526	5.88329	8.20632	0.01656	0.14784	0.00000	0.14784	0.13602	0.00000	0.13602	—	1,576.48	1,576.48	0.06395	0.01279	0.00000	1,581.89
2033	5.96471	5.84497	5.16605	7.45763	0.01453	0.11978	0.00000	0.11978	0.11020	0.00000	0.11020	—	1,385.37	1,385.37	0.05620	0.01124	0.00000	1,390.13

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2029	0.04720	0.03964	0.33155	0.42440	0.00080	0.01349	0.11177	0.12526	0.01241	0.02642	0.03883	—	77.2592	77.2592	0.00313	0.00063	0.00000	77.5243
2030	0.16250	0.13557	1.16356	1.54388	0.00301	0.03501	0.04711	0.08212	0.03221	0.02057	0.05277	—	263.657	263.657	0.01070	0.00214	0.00000	264.562
2031	0.15388	0.12823	1.10227	1.50279	0.00301	0.02961	0.00000	0.02961	0.02724	0.00000	0.02724	—	260.291	260.291	0.01056	0.00211	0.00000	261.185
2032	0.15008	0.12506	1.07370	1.49765	0.00302	0.02698	0.00000	0.02698	0.02482	0.00000	0.02482	—	261.005	261.005	0.01059	0.00212	0.00000	261.901
2033	1.08856	1.06671	0.94280	1.36102	0.00265	0.02186	0.00000	0.02186	0.02011	0.00000	0.02011	—	229.364	229.364	0.00930	0.00186	0.00000	230.151

2.2.3. Offsite Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2030	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2031	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2032	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2033	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2029	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2030	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2031	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2032	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2033	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2029	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2030	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2031	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

2032	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2033	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2029	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2030	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2031	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2032	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2033	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

2.2.4. Total Construction Emissions by Year, Mitigated

Includes both onsite and offsite emissions.

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2030	1.21101	1.00914	8.70495	11.5787	0.02312	0.24315	0.00000	0.24315	0.22369	0.00000	0.22369	—	2,201.04	2,201.04	0.08928	0.01786	0.00000	2,208.60
2031	1.18047	0.98371	8.45577	11.5283	0.02312	0.22711	0.00000	0.22711	0.20894	0.00000	0.20894	—	2,201.04	2,201.04	0.08928	0.01786	0.00000	2,208.60
2032	1.14816	0.95674	8.21410	11.4575	0.02312	0.20641	0.00000	0.20641	0.18990	0.00000	0.18990	—	2,201.05	2,201.05	0.08928	0.01786	0.00000	2,208.60
2033	21.4064	21.0977	13.8383	20.6595	0.03665	0.34069	0.00000	0.34069	0.31343	0.00000	0.31343	—	3,577.97	3,577.97	0.14514	0.02903	0.00000	3,590.25
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2029	1.56315	1.31348	11.6034	14.3673	0.02507	0.48306	6.95417	7.37730	0.44441	1.40454	1.84895	—	2,714.83	2,714.83	0.11013	0.02203	0.00000	2,724.14
2030	1.52791	1.28387	10.6725	13.9358	0.02312	0.46928	3.21716	3.68645	0.43174	1.40454	1.83628	—	2,454.44	2,454.44	0.09956	0.01991	0.00000	2,462.86
2031	1.18047	0.98371	8.45577	11.5283	0.02312	0.22711	0.00000	0.22711	0.20894	0.00000	0.20894	—	2,201.04	2,201.04	0.08928	0.01786	0.00000	2,208.60
2032	1.14816	0.95674	8.21410	11.4575	0.02312	0.20641	0.00000	0.20641	0.18990	0.00000	0.18990	—	2,201.05	2,201.05	0.08928	0.01786	0.00000	2,208.60
2033	21.4064	21.0977	13.8383	20.6595	0.03665	0.34069	0.00000	0.34069	0.31343	0.00000	0.31343	—	3,577.97	3,577.97	0.14514	0.02903	0.00000	3,590.25
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2029	0.25864	0.21719	1.81672	2.32547	0.00436	0.07394	0.61242	0.68636	0.06802	0.14475	0.21277	—	466.650	466.650	0.01893	0.00379	0.00000	468.251
2030	0.89043	0.74286	6.37569	8.45962	0.01648	0.19182	0.25813	0.44995	0.17647	0.11269	0.28917	—	1,592.51	1,592.51	0.06460	0.01292	0.00000	1,597.97
2031	0.84319	0.70265	6.03983	8.23448	0.01651	0.16222	0.00000	0.16222	0.14925	0.00000	0.14925	—	1,572.17	1,572.17	0.06377	0.01275	0.00000	1,577.57
2032	0.82236	0.68526	5.88329	8.20632	0.01656	0.14784	0.00000	0.14784	0.13602	0.00000	0.13602	—	1,576.48	1,576.48	0.06395	0.01279	0.00000	1,581.89
2033	5.96471	5.84497	5.16605	7.45763	0.01453	0.11978	0.00000	0.11978	0.11020	0.00000	0.11020	—	1,385.37	1,385.37	0.05620	0.01124	0.00000	1,390.13
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2029	0.04720	0.03964	0.33155	0.42440	0.00080	0.01349	0.11177	0.12526	0.01241	0.02642	0.03883	—	77.2592	77.2592	0.00313	0.00063	0.00000	77.5243
2030	0.16250	0.13557	1.16356	1.54388	0.00301	0.03501	0.04711	0.08212	0.03221	0.02057	0.05277	—	263.657	263.657	0.01070	0.00214	0.00000	264.562
2031	0.15388	0.12823	1.10227	1.50279	0.00301	0.02961	0.00000	0.02961	0.02724	0.00000	0.02724	—	260.291	260.291	0.01056	0.00211	0.00000	261.185
2032	0.15008	0.12506	1.07370	1.49765	0.00302	0.02698	0.00000	0.02698	0.02482	0.00000	0.02482	—	261.005	261.005	0.01059	0.00212	0.00000	261.901
2033	1.08856	1.06671	0.94280	1.36102	0.00265	0.02186	0.00000	0.02186	0.02011	0.00000	0.02011	—	229.364	229.364	0.00930	0.00186	0.00000	230.151

2.2.5. Onsite Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2030	1.21101	1.00914	8.70495	11.5787	0.02312	0.24315	0.00000	0.24315	0.22369	0.00000	0.22369	—	2,201.04	2,201.04	0.08928	0.01786	0.00000	2,208.60
2031	1.18047	0.98371	8.45577	11.5283	0.02312	0.22711	0.00000	0.22711	0.20894	0.00000	0.20894	—	2,201.04	2,201.04	0.08928	0.01786	0.00000	2,208.60
2032	1.14816	0.95674	8.21410	11.4575	0.02312	0.20641	0.00000	0.20641	0.18990	0.00000	0.18990	—	2,201.05	2,201.05	0.08928	0.01786	0.00000	2,208.60
2033	21.4064	21.0977	13.8383	20.6595	0.03665	0.34069	0.00000	0.34069	0.31343	0.00000	0.31343	—	3,577.97	3,577.97	0.14514	0.02903	0.00000	3,590.25
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2029	1.56315	1.31348	11.6034	14.3673	0.02507	0.48306	6.95417	7.37730	0.44441	1.40454	1.84895	—	2,714.83	2,714.83	0.11013	0.02203	0.00000	2,724.14
2030	1.52791	1.28387	10.6725	13.9358	0.02312	0.46928	3.21716	3.68645	0.43174	1.40454	1.83628	—	2,454.44	2,454.44	0.09956	0.01991	0.00000	2,462.86
2031	1.18047	0.98371	8.45577	11.5283	0.02312	0.22711	0.00000	0.22711	0.20894	0.00000	0.20894	—	2,201.04	2,201.04	0.08928	0.01786	0.00000	2,208.60
2032	1.14816	0.95674	8.21410	11.4575	0.02312	0.20641	0.00000	0.20641	0.18990	0.00000	0.18990	—	2,201.05	2,201.05	0.08928	0.01786	0.00000	2,208.60
2033	21.4064	21.0977	13.8383	20.6595	0.03665	0.34069	0.00000	0.34069	0.31343	0.00000	0.31343	—	3,577.97	3,577.97	0.14514	0.02903	0.00000	3,590.25

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2029	0.25864	0.21719	1.81672	2.32547	0.00436	0.07394	0.61242	0.68636	0.06802	0.14475	0.21277	—	466.650	466.650	0.01893	0.00379	0.00000	468.251
2030	0.89043	0.74286	6.37569	8.45962	0.01648	0.19182	0.25813	0.44995	0.17647	0.11269	0.28917	—	1,592.51	1,592.51	0.06460	0.01292	0.00000	1,597.97
2031	0.84319	0.70265	6.03983	8.23448	0.01651	0.16222	0.00000	0.16222	0.14925	0.00000	0.14925	—	1,572.17	1,572.17	0.06377	0.01275	0.00000	1,577.57
2032	0.82236	0.68526	5.88329	8.20632	0.01656	0.14784	0.00000	0.14784	0.13602	0.00000	0.13602	—	1,576.48	1,576.48	0.06395	0.01279	0.00000	1,581.89
2033	5.96471	5.84497	5.16605	7.45763	0.01453	0.11978	0.00000	0.11978	0.11020	0.00000	0.11020	—	1,385.37	1,385.37	0.05620	0.01124	0.00000	1,390.13
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2029	0.04720	0.03964	0.33155	0.42440	0.00080	0.01349	0.11177	0.12526	0.01241	0.02642	0.03883	—	77.2592	77.2592	0.00313	0.00063	0.00000	77.5243
2030	0.16250	0.13557	1.16356	1.54388	0.00301	0.03501	0.04711	0.08212	0.03221	0.02057	0.05277	—	263.657	263.657	0.01070	0.00214	0.00000	264.562
2031	0.15388	0.12823	1.10227	1.50279	0.00301	0.02961	0.00000	0.02961	0.02724	0.00000	0.02724	—	260.291	260.291	0.01056	0.00211	0.00000	261.185
2032	0.15008	0.12506	1.07370	1.49765	0.00302	0.02698	0.00000	0.02698	0.02482	0.00000	0.02482	—	261.005	261.005	0.01059	0.00212	0.00000	261.901
2033	1.08856	1.06671	0.94280	1.36102	0.00265	0.02186	0.00000	0.02186	0.02011	0.00000	0.02011	—	229.364	229.364	0.00930	0.00186	0.00000	230.151

2.2.6. Offsite Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2030	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2031	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2032	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2033	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2029	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2030	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2031	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

2032	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2033	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2029	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2030	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2031	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2032	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2033	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2029	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2030	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2031	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2032	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2033	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

2.3. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	13.0490	12.5588	4.58166	21.6841	0.02765	0.36862	0.00000	0.36862	0.36084	0.00000	0.36084	364.221	5,798.86	6,163.08	37.2811	0.39362	1.00442	7,213.41
Mit.	12.5617	12.3151	0.15114	17.9625	0.00107	0.03190	0.00000	0.03190	0.02412	0.00000	0.02412	364.221	512.507	876.728	36.8133	0.38367	1.00442	1,912.40
% Reduced	4%	2%	97%	17%	96%	91%	—	91%	93%	—	93%	—	91%	86%	1%	3%	—	73%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.85016	9.60648	4.43052	3.72164	0.02658	0.33672	0.00000	0.33672	0.33672	0.00000	0.33672	364.221	5,725.00	6,089.22	37.2780	0.39299	1.00442	7,139.28

Mit.	9.36280	9.36280	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	364.221	438.643	802.864	36.8102	0.38303	1.00442	1,838.27
% Reduced	5%	3%	100%	100%	100%	100%	—	100%	100%	—	100%	—	92%	87%	1%	3%	—	74%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	11.4277	11.0624	4.50506	12.5799	0.02711	0.35245	0.00000	0.35245	0.34861	0.00000	0.34861	364.221	5,761.42	6,125.65	37.2795	0.39330	1.00442	7,175.84
Mit.	10.9403	10.8187	0.07453	8.85821	0.00053	0.01573	0.00000	0.01573	0.01189	0.00000	0.01189	364.221	475.069	839.290	36.8117	0.38335	1.00442	1,874.82
% Reduced	4%	2%	98%	30%	98%	96%	—	96%	97%	—	97%	—	92%	86%	1%	3%	—	74%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.08555	2.01889	0.82217	2.29582	0.00495	0.06432	0.00000	0.06432	0.06362	0.00000	0.06362	60.3010	953.869	1,014.17	6.17205	0.06512	0.16629	1,188.04
Mit.	1.99661	1.97442	0.01360	1.61662	0.00010	0.00287	0.00000	0.00287	0.00217	0.00000	0.00217	60.3010	78.6531	138.954	6.09459	0.06347	0.16629	310.398
% Reduced	4%	2%	98%	30%	98%	96%	—	96%	97%	—	97%	—	92%	86%	1%	3%	—	74%

2.4. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Area	12.5617	12.3151	0.15114	17.9625	0.00107	0.03190	—	0.03190	0.02412	—	0.02412	—	73.8637	73.8637	0.00310	0.00063	—	74.1300
Energy	0.48736	0.24368	4.43052	3.72164	0.02658	0.33672	—	0.33672	0.33672	—	0.33672	—	5,710.83	5,710.83	0.46784	0.00995	—	5,725.49
Water	—	—	—	—	—	—	—	—	—	—	—	157.220	14.1672	171.387	16.1211	0.38303	—	688.560
Waste	—	—	—	—	—	—	—	—	—	—	—	207.001	0.00000	207.001	20.6890	0.00000	—	724.226
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.00442	1.00442
Total	13.0490	12.5588	4.58166	21.6841	0.02765	0.36862	0.00000	0.36862	0.36084	0.00000	0.36084	364.221	5,798.86	6,163.08	37.2811	0.39362	1.00442	7,213.41

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Area	9.36280	9.36280	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.48736	0.24368	4.43052	3.72164	0.02658	0.33672	—	0.33672	0.33672	—	0.33672	—	5,710.83	5,710.83	0.46784	0.00995	—	5,725.49
Water	—	—	—	—	—	—	—	—	—	—	—	157.220	14.1672	171.387	16.1211	0.38303	—	688.560
Waste	—	—	—	—	—	—	—	—	—	—	—	207.001	0.00000	207.001	20.6890	0.00000	—	724.226
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.00442	1.00442
Total	9.85016	9.60648	4.43052	3.72164	0.02658	0.33672	0.00000	0.33672	0.33672	0.00000	0.33672	364.221	5,725.00	6,089.22	37.2780	0.39299	1.00442	7,139.28
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Area	10.9403	10.8187	0.07453	8.85821	0.00053	0.01573	—	0.01573	0.01189	—	0.01189	—	36.4259	36.4259	0.00153	0.00031	—	36.5573
Energy	0.48736	0.24368	4.43052	3.72164	0.02658	0.33672	—	0.33672	0.33672	—	0.33672	—	5,710.83	5,710.83	0.46784	0.00995	—	5,725.49
Water	—	—	—	—	—	—	—	—	—	—	—	157.220	14.1672	171.387	16.1211	0.38303	—	688.560
Waste	—	—	—	—	—	—	—	—	—	—	—	207.001	0.00000	207.001	20.6890	0.00000	—	724.226
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.00442	1.00442
Total	11.4277	11.0624	4.50506	12.5799	0.02711	0.35245	0.00000	0.35245	0.34861	0.00000	0.34861	364.221	5,761.42	6,125.65	37.2795	0.39330	1.00442	7,175.84
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Area	1.99661	1.97442	0.01360	1.61662	0.00010	0.00287	—	0.00287	0.00217	—	0.00217	—	6.03073	6.03073	0.00025	0.00005	—	6.05247
Energy	0.08894	0.04447	0.80857	0.67920	0.00485	0.06145	—	0.06145	0.06145	—	0.06145	—	945.493	945.493	0.07746	0.00165	—	947.921
Water	—	—	—	—	—	—	—	—	—	—	—	26.0296	2.34554	28.3752	2.66904	0.06342	—	113.999
Waste	—	—	—	—	—	—	—	—	—	—	—	34.2714	0.00000	34.2714	3.42530	0.00000	—	119.904
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.16629	0.16629
Total	2.08555	2.01889	0.82217	2.29582	0.00495	0.06432	0.00000	0.06432	0.06362	0.00000	0.06362	60.3010	953.869	1,014.17	6.17205	0.06512	0.16629	1,188.04

2.5. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Area	12.5617	12.3151	0.15114	17.9625	0.00107	0.03190	—	0.03190	0.02412	—	0.02412	—	73.8637	73.8637	0.00310	0.00063	—	74.1300
Energy	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	424.476	424.476	0.00000	0.00000	—	424.476
Water	—	—	—	—	—	—	—	—	—	—	—	157.220	14.1672	171.387	16.1211	0.38303	—	688.560
Waste	—	—	—	—	—	—	—	—	—	—	—	207.001	0.00000	207.001	20.6890	0.00000	—	724.226
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.00442	1.00442
Total	12.5617	12.3151	0.15114	17.9625	0.00107	0.03190	0.00000	0.03190	0.02412	0.00000	0.02412	364.221	512.507	876.728	36.8133	0.38367	1.00442	1,912.40
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Area	9.36280	9.36280	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	424.476	424.476	0.00000	0.00000	—	424.476
Water	—	—	—	—	—	—	—	—	—	—	—	157.220	14.1672	171.387	16.1211	0.38303	—	688.560
Waste	—	—	—	—	—	—	—	—	—	—	—	207.001	0.00000	207.001	20.6890	0.00000	—	724.226
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.00442	1.00442
Total	9.36280	9.36280	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	364.221	438.643	802.864	36.8102	0.38303	1.00442	1,838.27
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Area	10.9403	10.8187	0.07453	8.85821	0.00053	0.01573	—	0.01573	0.01189	—	0.01189	—	36.4259	36.4259	0.00153	0.00031	—	36.5573
Energy	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	424.476	424.476	0.00000	0.00000	—	424.476
Water	—	—	—	—	—	—	—	—	—	—	—	157.220	14.1672	171.387	16.1211	0.38303	—	688.560
Waste	—	—	—	—	—	—	—	—	—	—	—	207.001	0.00000	207.001	20.6890	0.00000	—	724.226
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.00442	1.00442

Total	10.9403	10.8187	0.07453	8.85821	0.00053	0.01573	0.00000	0.01573	0.01189	0.00000	0.01189	364.221	475.069	839.290	36.8117	0.38335	1.00442	1,874.82
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Area	1.99661	1.97442	0.01360	1.61662	0.00010	0.00287	—	0.00287	0.00217	—	0.00217	—	6.03073	6.03073	0.00025	0.00005	—	6.05247
Energy	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	70.2768	70.2768	0.00000	0.00000	—	70.2768
Water	—	—	—	—	—	—	—	—	—	—	—	26.0296	2.34554	28.3752	2.66904	0.06342	—	113.999
Waste	—	—	—	—	—	—	—	—	—	—	—	34.2714	0.00000	34.2714	3.42530	0.00000	—	119.904
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.16629	0.16629
Total	1.99661	1.97442	0.01360	1.61662	0.00010	0.00287	0.00000	0.00287	0.00217	0.00000	0.00217	60.3010	78.6531	138.954	6.09459	0.06347	0.16629	310.398

3. Construction Emissions Details

3.1. Demolition (2029)

3.1.1. Onsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.54582	1.29640	11.6034	14.3673	0.02392	0.42313	—	0.42313	0.38928	—	0.38928	—	2,492.95	2,492.95	0.10112	0.02022	—	2,501.51
Demolition	—	—	—	—	—	—	6.95417	6.95417	—	1.05306	1.05306	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08470	0.07104	0.63580	0.78725	0.00131	0.02319	—	0.02319	0.02133	—	0.02133	—	136.600	136.600	0.00554	0.00111	—	137.069
Demolition	—	—	—	—	—	—	0.38105	0.38105	—	0.05770	0.05770	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01546	0.01296	0.11603	0.14367	0.00024	0.00423	—	0.00423	0.00389	—	0.00389	—	22.6157	22.6157	0.00092	0.00018	—	22.6933
Demolition	—	—	—	—	—	—	0.06954	0.06954	—	0.01053	0.01053	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.1.2. Offsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.1.3. Onsite - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.54582	1.29640	11.6034	14.3673	0.02392	0.42313	—	0.42313	0.38928	—	0.38928	—	2,492.95	2,492.95	0.10112	0.02022	—	2,501.51
Demolition	—	—	—	—	—	—	6.95417	6.95417	—	1.05306	1.05306	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08470	0.07104	0.63580	0.78725	0.00131	0.02319	—	0.02319	0.02133	—	0.02133	—	136.600	136.600	0.00554	0.00111	—	137.069
Demolition	—	—	—	—	—	—	0.38105	0.38105	—	0.05770	0.05770	—	—	—	—	—	—	—

Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01546	0.01296	0.11603	0.14367	0.00024	0.00423	—	0.00423	0.00389	—	0.00389	—	22.6157	22.6157	0.00092	0.00018	—	22.6933
Demolition	—	—	—	—	—	—	0.06954	0.06954	—	0.01053	0.01053	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.1.4. Offsite - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.2. Site Preparation (2029)

3.2.1. Onsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.19969	1.00807	7.76298	10.6075	0.02507	0.32694	—	0.32694	0.30079	—	0.30079	—	2,714.83	2,714.83	0.11013	0.02203	—	2,724.14
Dust From Material Movement	—	—	—	—	—	—	0.62039	0.62039	—	0.06699	0.06699	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08217	0.06905	0.53171	0.72654	0.00172	0.02239	—	0.02239	0.02060	—	0.02060	—	185.947	185.947	0.00754	0.00151	—	186.585
Dust From Material Movement	—	—	—	—	—	—	0.04249	0.04249	—	0.00459	0.00459	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01500	0.01260	0.09704	0.13259	0.00031	0.00409	—	0.00409	0.00376	—	0.00376	—	30.7857	30.7857	0.00125	0.00025	—	30.8913
Dust From Material Movement	—	—	—	—	—	—	0.00775	0.00775	—	0.00084	0.00084	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.2.2. Offsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.2.3. Onsite - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.19969	1.00807	7.76298	10.6075	0.02507	0.32694	—	0.32694	0.30079	—	0.30079	—	2,714.83	2,714.83	0.11013	0.02203	—	2,724.14
Dust From Material Movement	—	—	—	—	—	—	0.62039	0.62039	—	0.06699	0.06699	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08217	0.06905	0.53171	0.72654	0.00172	0.02239	—	0.02239	0.02060	—	0.02060	—	185.947	185.947	0.00754	0.00151	—	186.585
Dust From Material Movement	—	—	—	—	—	—	0.04249	0.04249	—	0.00459	0.00459	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01500	0.01260	0.09704	0.13259	0.00031	0.00409	—	0.00409	0.00376	—	0.00376	—	30.7857	30.7857	0.00125	0.00025	—	30.8913

Dust From Material Movement	—	—	—	—	—	—	0.00775	0.00775	—	0.00084	0.00084	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.2.4. Offsite - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.3. Grading (2029)

3.3.1. Onsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.56315	1.31348	11.0582	13.8256	0.02266	0.48306	—	0.48306	0.44441	—	0.44441	—	2,454.55	2,454.55	0.09957	0.01991	—	2,462.97
Dust From Material Movement	—	—	—	—	—	—	3.21716	3.21716	—	1.40454	1.40454	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09177	0.07711	0.64921	0.81168	0.00133	0.02836	—	0.02836	0.02609	—	0.02609	—	144.103	144.103	0.00585	0.00117	—	144.597
Dust From Material Movement	—	—	—	—	—	—	0.18887	0.18887	—	0.08246	0.08246	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01675	0.01407	0.11848	0.14813	0.00024	0.00518	—	0.00518	0.00476	—	0.00476	—	23.8578	23.8578	0.00097	0.00019	—	23.9397

Dust From Material Movement	—	—	—	—	—	—	0.03447	0.03447	—	0.01505	0.01505	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.3.2. Offsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.3.3. Onsite - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.56315	1.31348	11.0582	13.8256	0.02266	0.48306	—	0.48306	0.44441	—	0.44441	—	2,454.55	2,454.55	0.09957	0.01991	—	2,462.97
Dust From Material Movement	—	—	—	—	—	—	3.21716	3.21716	—	1.40454	1.40454	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09177	0.07711	0.64921	0.81168	0.00133	0.02836	—	0.02836	0.02609	—	0.02609	—	144.103	144.103	0.00585	0.00117	—	144.597
Dust From Material Movement	—	—	—	—	—	—	0.18887	0.18887	—	0.08246	0.08246	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01675	0.01407	0.11848	0.14813	0.00024	0.00518	—	0.00518	0.00476	—	0.00476	—	23.8578	23.8578	0.00097	0.00019	—	23.9397
Dust From Material Movement	—	—	—	—	—	—	0.03447	0.03447	—	0.01505	0.01505	—	—	—	—	—	—	—

Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.3.4. Offsite - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.4. Grading (2030)

3.4.1. Onsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.52791	1.28387	10.6725	13.9358	0.02266	0.46928	—	0.46928	0.43174	—	0.43174	—	2,454.44	2,454.44	0.09956	0.01991	—	2,462.86
Dust From Material Movement	—	—	—	—	—	—	3.21716	3.21716	—	1.40454	1.40454	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12259	0.10301	0.85630	1.11814	0.00182	0.03765	—	0.03765	0.03464	—	0.03464	—	196.931	196.931	0.00799	0.00160	—	197.607
Dust From Material Movement	—	—	—	—	—	—	0.25813	0.25813	—	0.11269	0.11269	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02237	0.01880	0.15628	0.20406	0.00033	0.00687	—	0.00687	0.00632	—	0.00632	—	32.6042	32.6042	0.00132	0.00026	—	32.7161
Dust From Material Movement	—	—	—	—	—	—	0.04711	0.04711	—	0.02057	0.02057	—	—	—	—	—	—	—

Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.4.2. Offsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.4.3. Onsite - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.52791	1.28387	10.6725	13.9358	0.02266	0.46928	—	0.46928	0.43174	—	0.43174	—	2,454.44	2,454.44	0.09956	0.01991	—	2,462.86
Dust From Material Movement	—	—	—	—	—	—	3.21716	3.21716	—	1.40454	1.40454	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12259	0.10301	0.85630	1.11814	0.00182	0.03765	—	0.03765	0.03464	—	0.03464	—	196.931	196.931	0.00799	0.00160	—	197.607
Dust From Material Movement	—	—	—	—	—	—	0.25813	0.25813	—	0.11269	0.11269	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02237	0.01880	0.15628	0.20406	0.00033	0.00687	—	0.00687	0.00632	—	0.00632	—	32.6042	32.6042	0.00132	0.00026	—	32.7161
Dust From Material Movement	—	—	—	—	—	—	0.04711	0.04711	—	0.02057	0.02057	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.4.4. Offsite - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.5. Building Construction (2030)

3.5.1. Onsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	1.21101	1.00914	8.70495	11.5787	0.02312	0.24315	—	0.24315	0.22369	—	0.22369	—	2,201.04	2,201.04	0.08928	0.01786	—	2,208.60
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	1.21101	1.00914	8.70495	11.5787	0.02312	0.24315	—	0.24315	0.22369	—	0.22369	—	2,201.04	2,201.04	0.08928	0.01786	—	2,208.60
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.76784	0.63984	5.51938	7.34149	0.01466	0.15417	—	0.15417	0.14183	—	0.14183	—	1,395.57	1,395.57	0.05661	0.01132	—	1,400.36
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.14013	0.11677	1.00729	1.33982	0.00268	0.02814	—	0.02814	0.02588	—	0.02588	—	231.053	231.053	0.00937	0.00187	—	231.846
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.5.2. Offsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.5.3. Onsite - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.21101	1.00914	8.70495	11.5787	0.02312	0.24315	—	0.24315	0.22369	—	0.22369	—	2,201.04	2,201.04	0.08928	0.01786	—	2,208.60
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.21101	1.00914	8.70495	11.5787	0.02312	0.24315	—	0.24315	0.22369	—	0.22369	—	2,201.04	2,201.04	0.08928	0.01786	—	2,208.60
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.76784	0.63984	5.51938	7.34149	0.01466	0.15417	—	0.15417	0.14183	—	0.14183	—	1,395.57	1,395.57	0.05661	0.01132	—	1,400.36
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14013	0.11677	1.00729	1.33982	0.00268	0.02814	—	0.02814	0.02588	—	0.02588	—	231.053	231.053	0.00937	0.00187	—	231.846
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.5.4. Offsite - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.6. Building Construction (2031)

3.6.1. Onsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.18047	0.98371	8.45577	11.5283	0.02312	0.22711	—	0.22711	0.20894	—	0.20894	—	2,201.04	2,201.04	0.08928	0.01786	—	2,208.60
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.18047	0.98371	8.45577	11.5283	0.02312	0.22711	—	0.22711	0.20894	—	0.20894	—	2,201.04	2,201.04	0.08928	0.01786	—	2,208.60
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.84319	0.70265	6.03983	8.23448	0.01651	0.16222	—	0.16222	0.14925	—	0.14925	—	1,572.17	1,572.17	0.06377	0.01275	—	1,577.57
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15388	0.12823	1.10227	1.50279	0.00301	0.02961	—	0.02961	0.02724	—	0.02724	—	260.291	260.291	0.01056	0.00211	—	261.185
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.6.2. Offsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.6.3. Onsite - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.18047	0.98371	8.45577	11.5283	0.02312	0.22711	—	0.22711	0.20894	—	0.20894	—	2,201.04	2,201.04	0.08928	0.01786	—	2,208.60
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	1.18047	0.98371	8.45577	11.5283	0.02312	0.22711	—	0.22711	0.20894	—	0.20894	—	2,201.04	2,201.04	0.08928	0.01786	—	2,208.60
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.84319	0.70265	6.03983	8.23448	0.01651	0.16222	—	0.16222	0.14925	—	0.14925	—	1,572.17	1,572.17	0.06377	0.01275	—	1,577.57
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15388	0.12823	1.10227	1.50279	0.00301	0.02961	—	0.02961	0.02724	—	0.02724	—	260.291	260.291	0.01056	0.00211	—	261.185
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.6.4. Offsite - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.7. Building Construction (2032)

3.7.1. Onsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.14816	0.95674	8.21410	11.4575	0.02312	0.20641	—	0.20641	0.18990	—	0.18990	—	2,201.05	2,201.05	0.08928	0.01786	—	2,208.60
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.14816	0.95674	8.21410	11.4575	0.02312	0.20641	—	0.20641	0.18990	—	0.18990	—	2,201.05	2,201.05	0.08928	0.01786	—	2,208.60

Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.82236	0.68526	5.88329	8.20632	0.01656	0.14784	—	0.14784	0.13602	—	0.13602	—	1,576.48	1,576.48	0.06395	0.01279	—	1,581.89
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15008	0.12506	1.07370	1.49765	0.00302	0.02698	—	0.02698	0.02482	—	0.02482	—	261.005	261.005	0.01059	0.00212	—	261.901
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.7.2. Offsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.7.3. Onsite - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.14816	0.95674	8.21410	11.4575	0.02312	0.20641	—	0.20641	0.18990	—	0.18990	—	2,201.05	2,201.05	0.08928	0.01786	—	2,208.60
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.14816	0.95674	8.21410	11.4575	0.02312	0.20641	—	0.20641	0.18990	—	0.18990	—	2,201.05	2,201.05	0.08928	0.01786	—	2,208.60
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.82236	0.68526	5.88329	8.20632	0.01656	0.14784	—	0.14784	0.13602	—	0.13602	—	1,576.48	1,576.48	0.06395	0.01279	—	1,581.89
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.15008	0.12506	1.07370	1.49765	0.00302	0.02698	—	0.02698	0.02482	—	0.02482	—	261.005	261.005	0.01059	0.00212	—	261.901
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.7.4. Offsite - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.8. Building Construction (2033)

3.8.1. Onsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.12394	0.93652	8.01513	11.4462	0.02312	0.18624	—	0.18624	0.17134	—	0.17134	—	2,201.05	2,201.05	0.08928	0.01786	—	2,208.60
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.12394	0.93652	8.01513	11.4462	0.02312	0.18624	—	0.18624	0.17134	—	0.17134	—	2,201.05	2,201.05	0.08928	0.01786	—	2,208.60
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.63345	0.52782	4.51733	6.45108	0.01303	0.10496	—	0.10496	0.09657	—	0.09657	—	1,240.51	1,240.51	0.05032	0.01006	—	1,244.77

Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11561	0.09633	0.82441	1.17732	0.00238	0.01916	—	0.01916	0.01762	—	0.01762	—	205.381	205.381	0.00833	0.00167	—	206.086
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.8.2. Offsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.8.3. Onsite - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.12394	0.93652	8.01513	11.4462	0.02312	0.18624	—	0.18624	0.17134	—	0.17134	—	2,201.05	2,201.05	0.08928	0.01786	—	2,208.60
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.12394	0.93652	8.01513	11.4462	0.02312	0.18624	—	0.18624	0.17134	—	0.17134	—	2,201.05	2,201.05	0.08928	0.01786	—	2,208.60
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.63345	0.52782	4.51733	6.45108	0.01303	0.10496	—	0.10496	0.09657	—	0.09657	—	1,240.51	1,240.51	0.05032	0.01006	—	1,244.77
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.11561	0.09633	0.82441	1.17732	0.00238	0.01916	—	0.01916	0.01762	—	0.01762	—	205.381	205.381	0.00833	0.00167	—	206.086
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.8.4. Offsite - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.9. Paving (2033)

3.9.1. Onsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.63287	0.53087	5.05890	8.11385	0.01181	0.14740	—	0.14740	0.13560	—	0.13560	—	1,243.40	1,243.40	0.05044	0.01009	—	1,247.67
Paving	0.00000	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.63287	0.53087	5.05890	8.11385	0.01181	0.14740	—	0.14740	0.13560	—	0.13560	—	1,243.40	1,243.40	0.05044	0.01009	—	1,247.67
Paving	0.00000	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05548	0.04654	0.44352	0.71135	0.00104	0.01292	—	0.01292	0.01189	—	0.01189	—	109.010	109.010	0.00442	0.00088	—	109.384
Paving	0.00000	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01013	0.00849	0.08094	0.12982	0.00019	0.00236	—	0.00236	0.00217	—	0.00217	—	18.0479	18.0479	0.00073	0.00015	—	18.1098
Paving	0.00000	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.9.2. Offsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.9.3. Onsite - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.63287	0.53087	5.05890	8.11385	0.01181	0.14740	—	0.14740	0.13560	—	0.13560	—	1,243.40	1,243.40	0.05044	0.01009	—	1,247.67
Paving	0.00000	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.63287	0.53087	5.05890	8.11385	0.01181	0.14740	—	0.14740	0.13560	—	0.13560	—	1,243.40	1,243.40	0.05044	0.01009	—	1,247.67
Paving	0.00000	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05548	0.04654	0.44352	0.71135	0.00104	0.01292	—	0.01292	0.01189	—	0.01189	—	109.010	109.010	0.00442	0.00088	—	109.384
Paving	0.00000	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01013	0.00849	0.08094	0.12982	0.00019	0.00236	—	0.00236	0.00217	—	0.00217	—	18.0479	18.0479	0.00073	0.00015	—	18.1098
Paving	0.00000	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.9.4. Offsite - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.10. Architectural Coating (2033)

3.10.1. Onsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11071	0.09150	0.76425	1.09943	0.00173	0.00705	—	0.00705	0.00649	—	0.00649	—	133.516	133.516	0.00542	0.00108	—	133.975
Architectural Coatings	19.5388	19.5388	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11071	0.09150	0.76425	1.09943	0.00173	0.00705	—	0.00705	0.00649	—	0.00649	—	133.516	133.516	0.00542	0.00108	—	133.975
Architectural Coatings	19.5388	19.5388	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02973	0.02457	0.20520	0.29519	0.00046	0.00189	—	0.00189	0.00174	—	0.00174	—	35.8483	35.8483	0.00145	0.00029	—	35.9713
Architectural Coatings	5.24604	5.24604	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00542	0.00448	0.03745	0.05387	0.00008	0.00035	—	0.00035	0.00032	—	0.00032	—	5.93509	5.93509	0.00024	0.00005	—	5.95546
Architectural Coatings	0.95740	0.95740	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.10.2. Offsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.10.3. Onsite - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11071	0.09150	0.76425	1.09943	0.00173	0.00705	—	0.00705	0.00649	—	0.00649	—	133.516	133.516	0.00542	0.00108	—	133.975
Architectural Coatings	19.5388	19.5388	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11071	0.09150	0.76425	1.09943	0.00173	0.00705	—	0.00705	0.00649	—	0.00649	—	133.516	133.516	0.00542	0.00108	—	133.975
Architectural Coatings	19.5388	19.5388	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02973	0.02457	0.20520	0.29519	0.00046	0.00189	—	0.00189	0.00174	—	0.00174	—	35.8483	35.8483	0.00145	0.00029	—	35.9713
Architectural Coatings	5.24604	5.24604	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00542	0.00448	0.03745	0.05387	0.00008	0.00035	—	0.00035	0.00032	—	0.00032	—	5.93509	5.93509	0.00024	0.00005	—	5.95546
Architectural Coatings	0.95740	0.95740	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.10.4. Offsite - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

4.1.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Government Office Building	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	424.476	424.476	0.00000	0.00000	—	424.476
Total	—	—	—	—	—	—	—	—	—	—	—	—	424.476	424.476	0.00000	0.00000	—	424.476

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	424.476	424.476	0.00000	0.00000	—	424.476
Total	—	—	—	—	—	—	—	—	—	—	—	—	424.476	424.476	0.00000	0.00000	—	424.476
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	70.2768	70.2768	0.00000	0.00000	—	70.2768
Total	—	—	—	—	—	—	—	—	—	—	—	—	70.2768	70.2768	0.00000	0.00000	—	70.2768

4.2.2. Electricity Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	424.476	424.476	0.00000	0.00000	—	424.476
Total	—	—	—	—	—	—	—	—	—	—	—	—	424.476	424.476	0.00000	0.00000	—	424.476
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	424.476	424.476	0.00000	0.00000	—	424.476
Total	—	—	—	—	—	—	—	—	—	—	—	—	424.476	424.476	0.00000	0.00000	—	424.476

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	70.2768	70.2768	0.00000	0.00000	—	70.2768
Total	—	—	—	—	—	—	—	—	—	—	—	—	70.2768	70.2768	0.00000	0.00000	—	70.2768

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	0.48736	0.24368	4.43052	3.72164	0.02658	0.33672	—	0.33672	0.33672	—	0.33672	—	5,286.35	5,286.35	0.46784	0.00995	—	5,301.02
Total	0.48736	0.24368	4.43052	3.72164	0.02658	0.33672	—	0.33672	0.33672	—	0.33672	—	5,286.35	5,286.35	0.46784	0.00995	—	5,301.02
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	0.48736	0.24368	4.43052	3.72164	0.02658	0.33672	—	0.33672	0.33672	—	0.33672	—	5,286.35	5,286.35	0.46784	0.00995	—	5,301.02
Total	0.48736	0.24368	4.43052	3.72164	0.02658	0.33672	—	0.33672	0.33672	—	0.33672	—	5,286.35	5,286.35	0.46784	0.00995	—	5,301.02
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	0.08894	0.04447	0.80857	0.67920	0.00485	0.06145	—	0.06145	0.06145	—	0.06145	—	875.216	875.216	0.07746	0.00165	—	877.644
Total	0.08894	0.04447	0.80857	0.67920	0.00485	0.06145	—	0.06145	0.06145	—	0.06145	—	875.216	875.216	0.07746	0.00165	—	877.644

4.2.4. Natural Gas Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	8.83820	8.83820	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.52460	0.52460	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	3.19886	2.95233	0.15114	17.9625	0.00107	0.03190	—	0.03190	0.02412	—	0.02412	—	73.8637	73.8637	0.00310	0.00063	—	74.1300
Total	12.5617	12.3151	0.15114	17.9625	0.00107	0.03190	—	0.03190	0.02412	—	0.02412	—	73.8637	73.8637	0.00310	0.00063	—	74.1300
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	8.83820	8.83820	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.52460	0.52460	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	9.36280	9.36280	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.61297	1.61297	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.09574	0.09574	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscape	0.28790	0.26571	0.01360	1.61662	0.00010	0.00287	—	0.00287	0.00217	—	0.00217	—	6.03073	6.03073	0.00025	0.00005	—	6.05247
Total	1.99661	1.97442	0.01360	1.61662	0.00010	0.00287	—	0.00287	0.00217	—	0.00217	—	6.03073	6.03073	0.00025	0.00005	—	6.05247

4.3.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	8.83820	8.83820	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.52460	0.52460	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	3.19886	2.95233	0.15114	17.9625	0.00107	0.03190	—	0.03190	0.02412	—	0.02412	—	73.8637	73.8637	0.00310	0.00063	—	74.1300
Total	12.5617	12.3151	0.15114	17.9625	0.00107	0.03190	—	0.03190	0.02412	—	0.02412	—	73.8637	73.8637	0.00310	0.00063	—	74.1300
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	8.83820	8.83820	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.52460	0.52460	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	9.36280	9.36280	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consum Products	1.61297	1.61297	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.09574	0.09574	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.28790	0.26571	0.01360	1.61662	0.00010	0.00287	—	0.00287	0.00217	—	0.00217	—	6.03073	6.03073	0.00025	0.00005	—	6.05247
Total	1.99661	1.97442	0.01360	1.61662	0.00010	0.00287	—	0.00287	0.00217	—	0.00217	—	6.03073	6.03073	0.00025	0.00005	—	6.05247

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	157.220	14.1672	171.387	16.1211	0.38303	—	688.560
Total	—	—	—	—	—	—	—	—	—	—	—	157.220	14.1672	171.387	16.1211	0.38303	—	688.560
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	157.220	14.1672	171.387	16.1211	0.38303	—	688.560
Total	—	—	—	—	—	—	—	—	—	—	—	157.220	14.1672	171.387	16.1211	0.38303	—	688.560
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Government Office Building	—	—	—	—	—	—	—	—	—	—	—	26.0296	2.34554	28.3752	2.66904	0.06342	—	113.999
Total	—	—	—	—	—	—	—	—	—	—	—	26.0296	2.34554	28.3752	2.66904	0.06342	—	113.999

4.4.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	157.220	14.1672	171.387	16.1211	0.38303	—	688.560
Total	—	—	—	—	—	—	—	—	—	—	—	157.220	14.1672	171.387	16.1211	0.38303	—	688.560
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	157.220	14.1672	171.387	16.1211	0.38303	—	688.560
Total	—	—	—	—	—	—	—	—	—	—	—	157.220	14.1672	171.387	16.1211	0.38303	—	688.560
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	26.0296	2.34554	28.3752	2.66904	0.06342	—	113.999
Total	—	—	—	—	—	—	—	—	—	—	—	26.0296	2.34554	28.3752	2.66904	0.06342	—	113.999

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	207.001	0.00000	207.001	20.6890	0.00000	—	724.226
Total	—	—	—	—	—	—	—	—	—	—	—	207.001	0.00000	207.001	20.6890	0.00000	—	724.226
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	207.001	0.00000	207.001	20.6890	0.00000	—	724.226
Total	—	—	—	—	—	—	—	—	—	—	—	207.001	0.00000	207.001	20.6890	0.00000	—	724.226
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	34.2714	0.00000	34.2714	3.42530	0.00000	—	119.904
Total	—	—	—	—	—	—	—	—	—	—	—	34.2714	0.00000	34.2714	3.42530	0.00000	—	119.904

4.5.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Govern Office Building	—	—	—	—	—	—	—	—	—	—	—	207.001	0.00000	207.001	20.6890	0.00000	—	724.226
Total	—	—	—	—	—	—	—	—	—	—	—	207.001	0.00000	207.001	20.6890	0.00000	—	724.226
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Govern ment Office Building	—	—	—	—	—	—	—	—	—	—	—	207.001	0.00000	207.001	20.6890	0.00000	—	724.226
Total	—	—	—	—	—	—	—	—	—	—	—	207.001	0.00000	207.001	20.6890	0.00000	—	724.226
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Govern ment Office Building	—	—	—	—	—	—	—	—	—	—	—	34.2714	0.00000	34.2714	3.42530	0.00000	—	119.904
Total	—	—	—	—	—	—	—	—	—	—	—	34.2714	0.00000	34.2714	3.42530	0.00000	—	119.904

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Govern ment Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.00442	1.00442
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.00442	1.00442

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.00442	1.00442
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.00442	1.00442
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.16629	0.16629
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.16629	0.16629

4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.00442	1.00442
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.00442	1.00442
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.00442	1.00442
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.00442	1.00442

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.16629	0.16629
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.16629	0.16629

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	10/1/2029	10/27/2029	5.00000	20.0000	—

Site Preparation	Site Preparation	10/28/2029	12/1/2029	5.00000	25.0000	—
Grading	Grading	12/2/2029	2/10/2030	5.00000	50.0000	—
Building Construction	Building Construction	2/11/2030	10/15/2033	5.00000	960.000	—
Paving	Paving	9/1/2033	10/15/2033	5.00000	32.0000	—
Architectural Coating	Architectural Coating	6/1/2033	10/15/2033	5.00000	98.0000	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1.000000	8.00000	33.0000	0.73000
Demolition	Rubber Tired Dozers	Diesel	Average	1.000000	8.00000	367.000	0.40000
Demolition	Tractors/Loaders/Backhoes	Diesel	Average	3.00000	8.00000	84.0000	0.37000
Site Preparation	Graders	Diesel	Average	1.000000	8.00000	148.000	0.41000
Site Preparation	Scrapers	Diesel	Average	1.000000	8.00000	423.000	0.48000
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	1.000000	7.00000	84.0000	0.37000
Grading	Graders	Diesel	Average	1.000000	8.00000	148.000	0.41000
Grading	Rubber Tired Dozers	Diesel	Average	1.000000	8.00000	367.000	0.40000
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00000	7.00000	84.0000	0.37000
Building Construction	Cranes	Diesel	Average	1.000000	8.00000	367.000	0.29000
Building Construction	Forklifts	Diesel	Average	2.00000	7.00000	82.0000	0.20000
Building Construction	Generator Sets	Diesel	Average	1.000000	8.00000	14.0000	0.74000
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	1.000000	6.00000	84.0000	0.37000
Building Construction	Welders	Diesel	Average	3.00000	8.00000	46.0000	0.45000

Paving	Cement and Mortar Mixers	Diesel	Average	1.000000	8.00000	10.00000	0.56000
Paving	Pavers	Diesel	Average	1.000000	8.00000	81.0000	0.42000
Paving	Paving Equipment	Diesel	Average	1.000000	8.00000	89.0000	0.36000
Paving	Rollers	Diesel	Average	2.00000	8.00000	36.0000	0.38000
Paving	Tractors/Loaders/Backhoes	Diesel	Average	1.000000	8.00000	84.0000	0.37000
Architectural Coating	Air Compressors	Diesel	Average	1.000000	6.00000	37.0000	0.48000

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1.000000	8.00000	33.0000	0.73000
Demolition	Rubber Tired Dozers	Diesel	Average	1.000000	8.00000	367.000	0.40000
Demolition	Tractors/Loaders/Backhoes	Diesel	Average	3.00000	8.00000	84.0000	0.37000
Site Preparation	Graders	Diesel	Average	1.000000	8.00000	148.000	0.41000
Site Preparation	Scrapers	Diesel	Average	1.000000	8.00000	423.000	0.48000
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	1.000000	7.00000	84.0000	0.37000
Grading	Graders	Diesel	Average	1.000000	8.00000	148.000	0.41000
Grading	Rubber Tired Dozers	Diesel	Average	1.000000	8.00000	367.000	0.40000
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00000	7.00000	84.0000	0.37000
Building Construction	Cranes	Diesel	Average	1.000000	8.00000	367.000	0.29000
Building Construction	Forklifts	Diesel	Average	2.00000	7.00000	82.0000	0.20000
Building Construction	Generator Sets	Diesel	Average	1.000000	8.00000	14.0000	0.74000
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	1.000000	6.00000	84.0000	0.37000
Building Construction	Welders	Diesel	Average	3.00000	8.00000	46.0000	0.45000

Paving	Cement and Mortar Mixers	Diesel	Average	1.000000	8.00000	10.00000	0.56000
Paving	Pavers	Diesel	Average	1.000000	8.00000	81.0000	0.42000
Paving	Paving Equipment	Diesel	Average	1.000000	8.00000	89.0000	0.36000
Paving	Rollers	Diesel	Average	2.00000	8.00000	36.0000	0.38000
Paving	Tractors/Loaders/Backhoes	Diesel	Average	1.000000	8.00000	84.0000	0.37000
Architectural Coating	Air Compressors	Diesel	Average	1.000000	6.00000	37.0000	0.48000

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	Worker	0.00000	7.70000	LDA,LDT1,LDT2
Demolition	Vendor	0.00000	4.00000	HHDT,MHDT
Demolition	Hauling	0.00000	20.0000	HHDT
Demolition	Onsite truck	0.00000	—	HHDT
Site Preparation	Worker	0.00000	7.70000	LDA,LDT1,LDT2
Site Preparation	Vendor	0.00000	4.00000	HHDT,MHDT
Site Preparation	Hauling	0.00000	20.0000	HHDT
Site Preparation	Onsite truck	0.00000	—	HHDT
Grading	Worker	0.00000	7.70000	LDA,LDT1,LDT2
Grading	Vendor	0.00000	4.00000	HHDT,MHDT
Grading	Hauling	0.00000	20.0000	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	Worker	0.00000	7.70000	LDA,LDT1,LDT2
Building Construction	Vendor	0.00000	4.00000	HHDT,MHDT
Building Construction	Hauling	0.00000	20.0000	HHDT
Building Construction	Onsite truck	0.00000	—	HHDT

Paving	Worker	0.00000	7.70000	LDA,LDT1,LDT2
Paving	Vendor	0.00000	4.00000	HHDT,MHDT
Paving	Hauling	0.00000	20.0000	HHDT
Paving	Onsite truck	0.00000	—	HHDT
Architectural Coating	Worker	0.00000	7.70000	LDA,LDT1,LDT2
Architectural Coating	Vendor	0.00000	4.00000	HHDT,MHDT
Architectural Coating	Hauling	0.00000	20.0000	HHDT
Architectural Coating	Onsite truck	0.00000	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	Worker	0.00000	7.70000	LDA,LDT1,LDT2
Demolition	Vendor	0.00000	4.00000	HHDT,MHDT
Demolition	Hauling	0.00000	20.0000	HHDT
Demolition	Onsite truck	0.00000	—	HHDT
Site Preparation	Worker	0.00000	7.70000	LDA,LDT1,LDT2
Site Preparation	Vendor	0.00000	4.00000	HHDT,MHDT
Site Preparation	Hauling	0.00000	20.0000	HHDT
Site Preparation	Onsite truck	0.00000	—	HHDT
Grading	Worker	0.00000	7.70000	LDA,LDT1,LDT2
Grading	Vendor	0.00000	4.00000	HHDT,MHDT
Grading	Hauling	0.00000	20.0000	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	Worker	0.00000	7.70000	LDA,LDT1,LDT2
Building Construction	Vendor	0.00000	4.00000	HHDT,MHDT
Building Construction	Hauling	0.00000	20.0000	HHDT
Building Construction	Onsite truck	0.00000	—	HHDT
Paving	Worker	0.00000	7.70000	LDA,LDT1,LDT2

Paving	Vendor	0.00000	4.00000	HHDT,MHDT
Paving	Hauling	0.00000	20.0000	HHDT
Paving	Onsite truck	0.00000	—	HHDT
Architectural Coating	Worker	0.00000	7.70000	LDA,LDT1,LDT2
Architectural Coating	Vendor	0.00000	4.00000	HHDT,MHDT
Architectural Coating	Hauling	0.00000	20.0000	HHDT
Architectural Coating	Onsite truck	0.00000	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00000	0.00000	619,500	206,500	—

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Ton of Debris)	Acres Paved (acres)
Demolition	0.00000	0.00000	0.00000	10,000.00	0.00000
Site Preparation	0.00000	0.00000	37.5000	0.00000	0.00000
Grading	1,000.000	1,000,000	50.0000	0.00000	0.00000
Paving	0.00000	0.00000	0.00000	0.00000	0.00000

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Phase Name	Land Use	Area Paved (acres)	% Asphalt
Paving	Government Office Building	0.00000	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2029	0.00000	203.983	0.03300	0.00400
2030	0.00000	203.983	0.03300	0.00400
2031	0.00000	203.983	0.03300	0.00400
2032	0.00000	203.983	0.03300	0.00400
2033	0.00000	203.983	0.03300	0.00400

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Government Office Building	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Government Office Building	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

5.10. Operational Area Sources

5.10.1. Hearths

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
Government Office Building	Wood Fireplaces	0	0
Government Office Building	Gas Fireplaces	0	0
Government Office Building	Propane Fireplaces	0	0
Government Office Building	Electric Fireplaces	0	0
Government Office Building	No Fireplaces	0	0
Government Office Building	Conventional Wood Stoves	0	0
Government Office Building	Catalytic Wood Stoves	0	0
Government Office Building	Non-Catalytic Wood Stoves	0	0
Government Office Building	Pellet Wood Stoves	0	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0.00000	0.00000	619,500	206,500	—

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00000
Summer Days	day/yr	180.000

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00000

Summer Days	day/yr	180.000

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Government Office Building	9,683,355	16.0000	0.0000	0.0000	16,494,843

5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Government Office Building	9,683,355	16.0000	0.0000	0.0000	0.00000

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Government Office Building	82,046,450	0.00000

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Government Office Building	82,046,450	0.00000

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Government Office Building	384.090	0.00000

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Government Office Building	384.090	0.00000

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Government Office Building	Household refrigerators and/or freezers	R-134a	1,430.00	0.01679	0.60000	0.00000	1.000000
Government Office Building	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000

5.14.2. Mitigated

Land Use	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Government Office Building	Household refrigerators and/or freezers	R-134a	1,430.00	0.01679	0.60000	0.00000	1.000000
Government Office Building	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	0.00000	annual days of extreme heat
Extreme Precipitation	0.00000	annual days with precipitation above 20 mm
Sea Level Rise	0.00000	meters of inundation depth
Wildfire	0.00000	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A

Wildfire	N/A	N/A	N/A	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	1	1	1	2
Drought	1	1	1	2
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	82.4767
AQ-PM	97.6105
AQ-DPM	94.0635
Drinking Water	84.3887
Lead Risk Housing	39.6723
Pesticides	56.3793
Toxic Releases	79.6949
Traffic	13.5500
Effect Indicators	—
CleanUp Sites	58.1747
Groundwater	74.8298
Haz Waste Facilities/Generators	50.1390
Impaired Water Bodies	0.00000
Solid Waste	0.00000
Sensitive Population	—
Asthma	86.8395
Cardio-vascular	94.9900
Low Birth Weights	—
Socioeconomic Factor Indicators	—
Education	88.2055
Housing	37.4778
Linguistic	61.0908
Poverty	92.6759
Unemployment	89.6668

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	—
Employed	—
Median HI	—
Education	—
Bachelor's or higher	—
High school enrollment	—
Preschool enrollment	—
Transportation	—
Auto Access	—
Active commuting	—
Social	—
2-parent households	—
Voting	—
Neighborhood	—
Alcohol availability	—
Park access	—
Retail density	—
Supermarket access	—
Tree canopy	—
Housing	—
Homeownership	—
Housing habitability	—
Low-inc homeowner severe housing cost burden	—
Low-inc renter severe housing cost burden	—

Uncrowded housing	—
Health Outcomes	—
Insured adults	—
Arthritis	54.3
Asthma ER Admissions	21.4
High Blood Pressure	19.3
Cancer (excluding skin)	96.9
Asthma	4.5
Coronary Heart Disease	7.5
Chronic Obstructive Pulmonary Disease	1.5
Diagnosed Diabetes	9.0
Life Expectancy at Birth	0.0
Cognitively Disabled	0.1
Physically Disabled	0.0
Heart Attack ER Admissions	3.5
Mental Health Not Good	0.4
Chronic Kidney Disease	27.1
Obesity	0.8
Pedestrian Injuries	0.0
Physical Health Not Good	1.0
Stroke	5.6
Health Risk Behaviors	—
Binge Drinking	38.6
Current Smoker	0.1
No Leisure Time for Physical Activity	0.6
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0

Children	99.4
Elderly	94.7
English Speaking	0.0
Foreign-born	0.0
Outdoor Workers	49.6
Climate Change Adaptive Capacity	—
Impervious Surface Cover	0.8
Traffic Density	0.0
Traffic Access	0.0
Other Indices	—
Hardship	0.0
Other Decision Support	—
2016 Voting	0.0

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	96.0000
Healthy Places Index Score for Project Location (b)	—
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	Central Fresno

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

8.1. Justifications

Screen	Justification
Characteristics: Utility Information	PG&E's 2024 power content label
Land Use	Project site is approximately 2.09 acres
Construction: Construction Phases	Project specific schedule see methodology.
Construction: Trips and VMT	Mobile emissions calculated with EMFAC 2021 with EPA approved adjustment factors.
Operations: Vehicle Data	Mobile emissions calculated with EMFAC 2021 with EPA approved adjustment factors.

8.2. Project Characteristics

8.2.2. Utility Information

Model Parameter	Units	Default Value	New Value
CO2	lb/MWh	203.983	16.0000
CH4	lb/MWh	0.03300	0.00000
N2O	lb/MWh	0.00400	0.00000

8.3. Land Use

Model Parameter	Units	Default Value	New Value
Lot Area	acre	9.48118	2.09000
Landscape Area	sq. ft	—	0.00000
Special Landscape Area	sq. ft	—	0.00000

8.4. Construction

8.4.1. Construction Phases

Phase Type	Phase Name	Model Parameter	Default Value	New Value
Demolition	Demolition	End Date	10/29/2029	10/27/2029
Site Preparation	Site Preparation	Start Date	10/30/2029	10/28/2029
Site Preparation	Site Preparation	End Date	11/3/2029	12/1/2029
Site Preparation	Site Preparation	Work Days per Phase	3.00000	25.0000
Grading	Grading	Start Date	11/4/2029	12/2/2029
Grading	Grading	End Date	11/12/2029	2/10/2030
Grading	Grading	Work Days per Phase	6.00000	50.0000
Building Construction	Building Construction	Start Date	11/13/2029	2/11/2030
Building Construction	Building Construction	End Date	9/17/2030	10/15/2033
Building Construction	Building Construction	Work Days per Phase	220.000	960.000
Paving	Paving	Start Date	9/18/2030	9/1/2033
Paving	Paving	End Date	10/2/2030	10/15/2033
Paving	Paving	Work Days per Phase	10.00000	32.0000
Architectural Coating	Architectural Coating	Start Date	10/3/2030	6/1/2033
Architectural Coating	Architectural Coating	End Date	10/17/2030	10/15/2033
Architectural Coating	Architectural Coating	Work Days per Phase	10.00000	98.0000

8.4.6. Trips and VMT

Phase Name	Trip Type	Model Parameter	Default Value	New Value
Demolition	Worker	One-Way Trips per Day	12.5000	0.00000
Demolition	Hauling	One-Way Trips per Day	125.000	0.00000
Site Preparation	Worker	One-Way Trips per Day	7.50000	0.00000
Grading	Worker	One-Way Trips per Day	10.00000	0.00000
Grading	Hauling	One-Way Trips per Day	2,502.50	0.00000

Building Construction	Worker	One-Way Trips per Day	132.160	0.00000
Building Construction	Vendor	One-Way Trips per Day	67.6907	0.00000
Paving	Worker	One-Way Trips per Day	15.0000	0.00000
Architectural Coating	Worker	One-Way Trips per Day	26.4320	0.00000

8.5. Operations

8.5.1. Mobile Sources

8.5.1.1. Vehicle Data

Land Use	Model Parameter	Units	Default Value	New Value
Government Office Building	Weekday Trip Rate	size/day	22.5900	0.00000

New Fresno Courthouse Project
Construction Vehicle Emissions
EMFAC 2021 with EPA Adjustment Factors

Construction Schedule

Construction Phase Name	Start Date	End Date	Number of Days
Demolition	10/1/2029	10/27/2029	20
Site Preparation	10/28/2029	12/1/2029	25
Grading	12/2/2029	2/10/2030	50
Building Construction	2/11/2030	10/15/2033	960
Paving	9/1/2033	10/15/2033	32
Architectural Coating	6/1/2033	10/15/2033	98

Construction Trips and VMT

	Trips per Day				Construction Trip Length in Miles					Trips per Phase				VMT per Phase			
Phase Name	Worker Trip Number	Vendor Trip Number	Onsite Truck Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Onsite Truck Trip Length	Hauling Trip Length	Number of Days per Phase	Worker Trip Number	Vendor Trip Number	Onsite Truck Trip Number	Hauling Trip Number	Worker VMT	Vendor VMT	Onsite Truck VMT	Hauling VMT
Demolition	12.5	0	0	50	7.7	4	0	20	20	250	0	0	1000	1,925	0	0	20,000
Site Preparation	8	0	0	0	7.7	4	0	20	25	188	0	0	0	1,444	0	0	0
Grading	10	0	0	2500	7.7	4	0	20	50	500	0	0	125000	3,850	0	0	2,500,000
Building Construction	132	68	0	0	7.7	4	0	20	960	126874	65280	0	0	976,927	261,120	0	0
Paving	15	0	0	0	7.7	4	0	20	32	480	0	0	0	3,696	0	0	0
Architectural Coating	26	0	0	0	7.7	4	0	20	98	2590.14	0	0	0	19,944	0	0	0
									Totals	130,881	65,280	0	126,000	1,007,786	261,120	0	2,520,000
									Total Vehicles	65,441	32,640	0	15,750				

Construction Emissions

ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	NO2	CO2e
0.67	8.78	5.75	0.05	1.72	0.51	5,153.22	0.03	0.76	5,379.39

Worker

CalEEMod Vehicle Class Percentage

LDA	50%
LDT1/LDT2	25%

Vehicle Category	Fuel	Population	Vehicle Mi	NOx_RUNEX	NOx IDLE	NOx STRE	PM2.5 RU	PM2.5 IDL	PM2.5 STF	PM2.5 PM	PM2.5 PM	PM10 RUN	PM10 IDLE	PM10 STR	PM10 PMT	PM10_PMBW	CO2 RUNEX	CO2 IDLE	CO2 STRE	CH4 RUNE	CH4 IDLE	CH4 STRE	N2O RUNE	N2O IDLE	N2O STRE	ROG RUNE	ROG IDLE	ROG STRE	ROG HOTS	ROG RUNL	ROG DIUR	TOG RUNE	TOG IDLE	TOG STRE	TOG HOTS	TOG RUNL	TOG DIUR	NH3 RUNE	CO RUNE	CO_IDLEX	CO_STREX	SOx RUNE	SOx IDLE	SOx_STREX
LDA	Gasoline	322126.8419	89.30%	12090.16591	0	12142.34	397.6609	0	95.40631	899.9144	930.9406	432.4925	0	103.7631	3599.657	2659.83016	115041653	0	3671952	645.6472	0	3112.914	1649.477	0	1720.997	2215.336	0	13396.87	4353.058	11954.76	39734.73	3232.614	0	14667.88	4353.058	11954.76	39734.73	17434	267112.5	0	140455.9	1137.304	0	36.30098
LDA	Diesel	457.0818389	0.13%	66.35973398	0	0	4.864793	0	0	1.276933	1.349205	5.084757	0	0	5.107733	3.85487265	134767.35	0	0	0.435382	0	0	21.23265	0	0	9.373526	0	0	0	0	0	10.67114	0	0	0	0	0	1.979246	146.4252	0	0	1.276989	0	0
LDA	Electricity	25932.44865	7.19%	0	0	0	0	0	0	72.44656	55.53062	0	0	0	289.7862	158.658922	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LDA	Plug-in Hybrid	12223.38883	3.39%	46.27172972	0	250.9413	6.734556	0	3.556496	34.14805	22.19251	7.324445	0	3.868014	136.5922	63.4071745	2074859	0	135005.4	6.003147	0	89.94204	8.173055	0	44.24751	19.24416	0	370.7538	94.15709	110.2892	639.0881	28.08104	0	405.9288	94.15709	110.2892	639.0881	314.5275	3386.096	0	2849.194	20.51209	0	1.334666
LDT1	Gasoline	27403.62679	98.99%	45795.60657	0	22536.33	635.9092	0	154.7126	997.6521	1260.403	691.6093	0	168.2641	3990.608	3601.1527	154496563	0	5219787	2111.42	0	5906.867	3681.143	0	2361.839	9136.075	0	30065.64	11310.9	32863.8	101976	13331.34	0	32918.09	11310.9	32863.8	101976	19120.7	576432.7	0	293995.7	1527.356	0	51.60291
LDT1	Diesel	2.905406477	0.01%	62.17791157	0	0	8.657834	0	0	0.105774	0.148152	9.049303	0	0	0.423095	0.42329116	19590.471	0	0	0.650402	0	0	3.086487	0	0	14.00276	0	0	0	0	0	15.94122	0	0	0	0	0	0.163949	106.0329	0	0	0.18563	0	0
LDT1	Electricity	147.3222549	0.53%	0	0	0	0	0	0	5.36339	4.100638	0	0	0	21.45356	11.7161087	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LDT1	Plug-in Hybrid	128.129587	0.46%	5.815471525	0	34.27889	0.560415	0	0.31984	4.664665	3.067316	0.609502	0	0.347855	18.65866	8.76375983	261190.58	0	19694.36	0.756236	0	12.32218	1.031851	0	6.078766	2.418624	0	50.64543	7.136088	6.115987	46.85347	3.52925	0	55.45037	7.136088	6.115987	46.85347	40.76361	427.6742	0	389.2034	2.582135	0	0.194699
LDT2	Gasoline	163197.4833	96.98%	21532.05303	0	17077.21	444.0515	0	104.5401	977.3245	1193.843	482.9466	0	113.6969	3909.298	3410.97878	152749089	0	4978469	948.4667	0	4168.545	2248.536	0	2132.914	3452.2	0	18491.29	4867.001	14175.62	47035.89	5037.442	0	20245.64	4867.001	14175.62	47035.89	19119.6	343466.4	0	185977.1	1510.08	0	49.21724
LDT2	Diesel	500.5392686	0.30%	48.52976741	0	0	5.597762	0	0	2.99753	3.596142	5.850868	0	0	11.99012	10.2746915	402262.44	0	0	0.714648	0	0	63.37661	0	0	15.38595	0	0	0	0	0	17.51588	0	0	0	0	0	4.646169	156.3906	0	0	3.811641	0	0
LDT2	Electricity	2351.640527	1.40%	0	0	0	0	0	0	14.08303	10.77636	0	0	0	56.33214	30.7895885	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LDT2	Plug-in Hybrid	2234.378018	1.33%	17.34277445	0	98.33051	2.039689	0	1.113869	13.3808	8.75534	2.218347	0	1.211434	53.52319	25.0152583	778190.85	0	61449.84	2.250352	0	35.27225	3.064216	0	17.36575	7.212767	0	145.2786	23.60231	22.17222	155.3906	10.52485	0	159.0618	23.60231	22.17222	155.3906	121.4897	1271.763	0	1116.447	7.693209	0	0.607494
Total				79664.3229	0	52139.43	1506.077	0	359.6492	3023.358	3494.703	1637.186	0	391.1514	12093.43	9984.86531	425958167	0	14086358	3716.345	0	13325.86	7679.12	0	6283.441	14871.25	0	62520.48	20655.85	59132.76	189588	21687.66	0	68452.06	20655.85	59132.76	189588	56157.86	1192506	0	624783.5	4210.802	0	139.258

ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	NO2	CO2e
0.38	0.15	2.00	0.00	0.03	0.01	440.04	0.02	0.01	444.6314

Vendor

CalEEMod Vehicle Class Percentage

MMDT	50.00%
HHDT	50.00%

Vehicle Category	Fuel	Population	Vehicle Mi	NOx_RUNEX	NOx_IDLE	NOx_STRE	PM2.5_RU	PM2.5_IDL	PM2.5_STF	PM2.5_PM	PM2.5_PM	PM10_RUN	PM10_IDLE	PM10_STR	PM10_PMT	PM10_PMBW	CO2_RUNEX	CO2_IDLE	CO2_STRE	CH4_RUNE	CH4_IDLE	CH4_STRE	N2O_RUNE	N2O_IDLE	N2O_STRE	ROG_RUNE	ROG_IDLE	ROG_STRE	ROG_HOTS	ROG_RUNL	ROG_DIUR	TOG_RUNE	TOG_IDLE	TOG_STRE	TOG_HOTS	TOG_RUNL	TOG_DIUR	NH3_RUNE	CO_RUNE	CO_IDLEX	CO_STREX	SOx_RUNE	SOx_IDLE	SOx_STREX
T6 CAIRP Class 4	Diesel	14.99454677	0.18%	76.23113191	78.785	35.45735	1.573675	0.033193	0	0.757898	3.741449	1.650019	0.034804	0	3.041159	10.7235835	264308.94	17066.39	0	0.077822	0.07175	0	41.64198	2.688817	0	1.675478	1.544747	0	0	0	0	1.781005	1.64204	0	0	0	0	50.38479	7.20865	59.97936	0	2.366577	0.15281	0
T6 CAIRP Class 5	Diesel	19.41807935	0.23%	96.71438264	101.8573	45.94225	1.935017	0.031011	0	0.977001	4.823075	2.02728	0.032489	0	3.917223	13.8127176	342140.31	22170.19	0	0.09009	0.091828	0	53.90435	3.492922	0	1.939621	1.977024	0	0	0	0	2.056516	2.096174	0	0	0	0	65.35007	8.867006	77.53229	0	3.074233	0.199206	0
T6 CAIRP Class 6	Diesel	73.08602305	0.86%	340.5897957	383.852	179.5147	7.240558	0.150439	0	3.762499	18.57399	7.578433	0.157459	0	15.07085	53.1421005	1282039.4	82173.81	0	0.346793	0.355055	0	201.9858	12.94652	0	7.466369	7.644235	0	0	0	0	7.782876	7.968283	0	0	0	0	245.7687	32.59715	292.3859	0	11.3704	0.728799	0
T6 CAIRP Class 7	Diesel	117.6860198	1.38%	599.4596295	571.5673	261.4674	11.64046	0.163322	0	5.748091	28.37609	12.17073	0.170762	0	22.99982	81.1008159	1818636.7	127240.5	0	0.530882	0.541873	0	286.527	20.0468	0	11.42974	11.66637	0	0	0	0	12.3962	12.65284	0	0	0	0	396.2755	55.68679	469.8861	0	16.68186	1.167142	0
T6 Instate Delivery Class 4	Diesel	305.0270513	3.58%	4060.277222	5716.357	1876.053	39.48798	6.357744	0	14.74797	81.83659	41.66804	6.708743	0	59.55586	236.054215	5515556.4	1194271	0	4.859581	5.189618	0	868.9782	188.158	0	104.6254	111.7311	0	0	0	0	116.4966	124.4085	0	0	0	0	1014.126	473.3413	4154.125	0	50.34183	10.90041	0
T6 Instate Delivery Class 5	Diesel	388.3780964	4.55%	4189.505146	7101.044	2435.91	26.97496	4.493442	0	18.86842	104.701	28.34789	4.722143	0	75.88387	300.771545	7025724.4	1511879	0	3.533793	6.253647	0	1106.906	238.1972	0	76.0816	134.6393	0	0	0	0	83.90283	148.4803	0	0	0	0	1301.415	444.2567	5253.368	0	64.2229	13.82025	0
T6 Instate Delivery Class 6	Diesel	888.197501	10.41%	11196.25908	16576.2	5561.548	97.83353	16.40093	0	43.15767	239.4822	102.8408	17.24036	0	173.6161	688.140826	15986655	3459380	0	11.94997	15.02349	0	2518.704	545.0267	0	257.2795	323.4517	0	0	0	0	284.0566	357.1158	0	0	0	0	2961.662	1254.878	12082.26	0	146.0666	31.6076	0
T6 Instate Delivery Class 7	Diesel	376.7226985	4.42%	6276.219375	6845.8	2291.846	18.97867	2.780628	0	17.68014	98.10724	19.86331	2.91024	0	70.81509	280.681022	6724171	1498139	0	3.069401	5.818519	0	1059.396	236.0324	0	66.08336	125.2711	0	0	0	0	74.19908	140.6557	0	0	0	0	1268.406	534.9972	5048.022	0	62.83749	14.00013	0
T6 Instate Other Class 4	Diesel	604.607583	7.09%	7152.6484	12613.37	4191.599	99.8001	24.09758	0	29.3754	153.7539	105.4742	25.46764	0	118.8101	444.188672	10653401	2564650	0	9.143082	12.33836	0	1678.448	404.0616	0	196.848	265.6414	0	0	0	0	218.7128	295.1474	0	0	0	0	2003.493	797.3218	8961.309	0	96.80462	23.30429	0
T6 Instate Other Class 5	Diesel	1555.287751	18.23%	12971.97926	30675.81	11352.19	114.5687	17.05565	0	76.32645	399.5005	120.1425	17.88541	0	306.309	1145.18064	27326626	6534218	0	9.931792	26.99169	0	4305.321	1029.469	0	213.8288	581.1236	0	0	0	0	232.4191	631.6467	0	0	0	0	5222.463	1269.166	22568.71	0	248.8694	59.5085	0
T6 Instate Other Class 6	Diesel	1370.012513	16.06%	14596.89601	28276.34	9707.659	185.9889	43.19086	0	66.84115	349.8534	195.7908	45.46708	0	269.2795	1006.74027	24028061	5771216	0	17.05564	26.83244	0	3785.631	909.2575	0	367.2032	577.6951	0	0	0	0	405.0975	637.3115	0	0	0	0	4558.852	1594.341	20172.78	0	218.7283	52.53559	0
T6 Instate Other Class 7	Diesel	923.7947638	10.83%	13923.45139	18958.22	6705.804	87.18664	17.01799	0	44.6633	233.7723	91.49302	17.85855	0	179.3672	670.59011	15933352	4082385	0	7.771908	16.79766	0	2510.306	643.1814	0	167.3271	361.649	0	0	0	0	185.4475	400.8134	0	0	0	0	3109.148	1043.904	13304.63	0	145.9921	37.40555	0
T6 Instate Tractor Class 6	Diesel	13.04132698	0.15%	161.8943435	267.8023	96.40898	2.228412	0.440831	0	0.640671	3.353336	2.348906	0.464667	0	2.584397	9.66214129	223737.43	55164.65	0	0.186061	0.25971	0	35.24992	8.691213	0	4.005851	5.591494	0	0	0	0	4.418274	6.167167	0	0	0	0	43.40396	16.8589	192.6522	0	2.026153	0.499568	0
T6 Instate Tractor Class 7	Diesel	1085.667708	12.73%	12626.10479	21143.13	7535.676	82.1448	10.73916	0	51.25706	268.2847	86.01495	11.24512	0	205.4006	767.919789	17410973	4581733	0	7.019986	18.26862	0	2743.106	721.8539	0	151.1384	393.3184	0	0	0	0	169.4479	440.9667	0	0	0	0	3655.016	1052.821	15658.32	0	162.4117	42.73896	0
T6 OOS Class 4	Diesel	9.542531663	0.11%	50.01934685	53.62708	21.59611	1.055173	0.031526	0	0.438162	2.163035	1.102883	0.032952	0	1.752648	6.18009943	152236.99	9915.213	0	0.060689	0.044062	0	23.985	1.562146	0	1.306616	0.948642	0	0	0	0	1.487482	1.079957	0	0	0	0	31.94493	5.312762	38.29324	0	1.441593	0.093891	0
T6 OOS Class 5	Diesel	12.24686901	0.14%	55.89493526	67.50592	27.89041	1.149248	0.021329	0	0.562336	2.776035	1.201212	0.022293	0	2.249345	7.93152917	196473.4	12828.76	0	0.057134	0.05432	0	30.95446	2.021176	0	1.230072	1.169498	0	0	0	0	1.400343	1.331384	0	0	0	0	41.17583	5.749476	48.93507	0	1.860486	0.121481	0
T6 OOS Class 6	Diesel	47.11575831	0.55%	208.8685796	262.1271	107.5813	4.712481	0.131665	0	2.163402	10.67987	4.925558	0.137619	0	8.653607	30.5139225	735991.09	47503.39	0	0.250949	0.214974	0	115.9557	7.484179	0	5.40286	4.628328	0	0	0	0	6.150745	5.268999	0	0	0	0	158.0633	23.29075	188.9524	0	6.969395	0.449829	0
T6 OOS Class 7	Diesel	64.77294107	0.76%	308.7175629	354.1944	147.7576	6.072541	0.084506	0	2.974162	14.68228	6.347114	0.088327	0	11.89665	41.9493726	948231.71	66334.87	0	0.276696	0.284094	0	149.3943	10.45109	0	5.957179	6.116464	0	0	0	0	6.781795	6.963129	0	0	0	0	218.1051	30.58432	258.668	0	8.979187	0.628152	0
T6 Public Class 4	Diesel	72.05472665	0.84%	4265.082919	4956.242	277.8249	21.54197	4.962558	0	3.434635	18.50041	22.78042	5.247859	0	13.89989	53.4790903	1353158.4	464020.9	0	2.573236	1.617233	0	213.1907	73.10668	0	55.40106	34.81858	0	0	0	0	62.18182	39.08017	0	0	0	0	171.4467	139.385	993.3212	0	12.41887	4.258641	0
T6 Public Class 5	Diesel	106.0838718	1.24%	3066.894493	5028.877	562.201	14.68746	2.450902	0	5.099177	27.46635	15.47176	2.581779	0	20.55641	79.0897223	1983434.4	686571.2	0	3.114468	2.691911	0	312.4909	108.1696	0	67.05365	57.9561	0	0	0	0	74.85326	64.69749	0	0	0	0	293.8695	198.7044	1779.03	0	18.19553	6.298434	0
T6 Public Class 6	Diesel	127.6483069	1.50%	4957.095473	6274.349	676.8693	29.97737	7.375165	0	6.087263	32.7886	31.70574	7.800385	0	24.63885	94.7967171	2391181.4	798957.1	0	3.606299	3.284304	0	376.7316	125.876	0	77.64263	70.71017	0	0	0	0	87.03159	79.26081	0	0	0	0	353.2616	217.9615	2143.74	0	21.93054	7.327573	0
T6 Public Class 7	Diesel	276.1982299	3.24%	10195.38381	12184.82	1508.615	60.17265	16.0359	0	13.24171	71.3255	63.75943	16.99177	0	53.69618	206.593279	5134016.3	1684758	0	7.142964	7.278439	0	808.8664	265.4342	0	153.7861	156.7028	0	0	0	0	172.3987	175.6685	0	0	0	0	790.9303	418.9452	4834.863	0	46.78965	15.3543	0
T6 Utility Class 5	Diesel	56.21891487	0.66%	346.9037159	818.3783	329.6255	2.400148	0.225215	0	2.884082	15.30855	2.512274	0.235737	0	11.55289	43.8015294	991432.28	176036.6	0	0.256753	0.746479	0	156.2006	27.73464	0	5.527813	16.07149	0	0	0	0	5.722478	16.63745	0	0	0	0	189.3018	34.63056	615.4211	0	8.796331	1.561858	0
T6 Utility Class 6	Diesel	10.62762524	0.12%	65.24685513	155.0342	62.9326	0.445485	0.042665	0	0.546359	2.900044	0.465948	0.044624	0	2.186935	8.29152534	187072.03	33246.14	0	0.04668	0.14144	0	29.47327	5.237943	0	1.005016	3.04517	0	0	0	0	1.037076	3.142311	0	0	0	0	35.78562	6.53523	116.5026	0	1.658638	0.29477	0
T6 Utility Class 7	Diesel	11.79421556	0.14%	68.15310581	173.2677	69.02207	0.485943	0.047964	0	0.614225	3.260276	0.508191	0.05016	0	2.458238	9.32014269	208962.78	37315.06	0	0.049374	0.158327	0	32.92217	5.879003	0	1.063	3.408737	0	0	0	0	1.086469	3.483997	0	0	0	0	39.71379	7.061896	129.4781	0	1.836937	0.328027	0
T7 CAIRP Class 8	Diesel	2839.968029	17.41%	36403.69275	325256.2	13408.79	723.1744	128.2484	0	217.3434	649.1228	759.2253	134.6417	0	873.2289	1862.86138	33427439	65227871	0	13.2468	1465.087	0	5266.507	10276.68	0	285.1999	31542.93	0	0	0	0	305.1985	33754.76	0	0	0	0	5001.353	984.3182	437944.6	0	306.2113	597.5184	0
T7 NNOOS Class 8	Diesel	2641.891717	16.20%	29524.15256	404673.1	12442.2	612.139	139.3906	0	190.3308	575.516	639.8173	145.6932	0	761.3232	1644.33157	28536394	69325454	0	11.40731	1590.06	0	4495.921	10922.25	0	245.5964	34233.56	0	0	0	0	279.5928	38972.3	0	0	0	0	4652.529	891.572	505660.8	0	270.2226	656.4706	0
T7 NOOS Class 8	Diesel	1141.542001	7.00%	13076.50769	174856.3	5370.406	280.0525	60.22965	0	82.24054	246.2737	292.7153	62.95296	0	328.9621	703.639157	12610719	30540105	0	5.063608	687.0532	0	1986.824	4811.606	0	109.0181	14792.07	0	0	0	0	124.1088	16839.64	0	0	0	0	2010.324	399.0826	218492.3	0	119.416	289.1965	0
T7 Other Port Class 8	Diesel	51.96465427	0.32%	629.7811376	2013.326	257.0049	7.627694	0.756121	0	3.911112	13.30151	7.993176	0.79235	0	15.68485	38.1024594	666005.86	408878.3	0	0.208624	8.554834	0	104.9295	64.41895	0	4.491611	184.1832	0	0	0	0	4.934819	202.3575	0	0	0	0	91.51286	30.88077	2626.436	0	6.170074	3.787969	0
T7 POAK Class 8	Diesel	236.2396701	1.45%	2997.026685	9063.882	1169.556	35.47553	3.393662	0	17.55406	59.26681	37.15145	3.553984	0	70.35236	169.66198	3040939.6	1825103	0	0.972599	38.78027	0	479.1013	287.5457	0	20.93979	834.9287	0	0	0	0	23.07209	919.9495	0	0	0	0	416.0322	146.3627	11940.2	0	28.36393	17.02338	0
T7 POLA Class 8	Diesel	303.2559526	1.86%	4358.741176	12014.28	1438.833	53.15531	4.275608	0	22.11602	73.83658	55.63591	4.475139	0	88.58694	211.254645	4059342.9	2493034	0	1.408029	48.84101	0	639.5511	392.7785	0	30.31447	1051.534	0	0	0	0	34.04453	1180.92	0	0	0	0	534.0518	255.7229	15327.39	0	38.2013	23.46122	0
T7 Public Class 8	Diesel	539.8486708	3.31%	24793.62644	14044.63	4971.107	139.2906	24.58944	0	40.34081	172.0507	147.0696	25.96269	0	163.0046	496.57377	7959079.7	1684401	0	16.74978	29.2016	0	1253.956	265.3781	0	360.6182	628.7024	0	0	0	0	403.8647	704.0984	0	0	0	0	717.1271	1250.139	7061.822	0	73.23014	15.49789	0
T7 Single Concrete/Transit Mix	Diesel	222.2871578	1.36%	2071.818851	4792.88	1739.667	27.90812	1.969791	0	18.01951	58.56749	29.23396	2.06337	0	72.23608	167.702619	2989863.8	975021.2	0	0.801285	21.28412	0	471.0543	153.615	0	17.25144	458.2413	0	0	0	0	17.75801	471.6972	0	0	0	0	391.4478	87.02899	6116.383	0	26.5348	8.653235	0
T7 Single Dump Class 8	Diesel	303.9250287	1.86%	3474.839017	6632.915	2085.49	45.27869	3.65954	0	23.383	74.84165	47.51839	3.840559	0	93.91225	214.702583	4115235.1	1406735	0	1.427755	27.63512	0	648.357	221.6316	0	30.73918	594.9765	0	0	0	0	33.4912	648.2438	0	0	0	0	535.0854	179.2592	8292.36	0	37.61376	12.85773	0
T7 Single Other Class 8	Diesel	1363.343272	8.36%	13579.68775	29104	9692.577	175.8946	15.21072	0	104.9991	336.8088	184.3173	15.93908	0	421.0691	964.768343	17869814	5954610	0	5.708753	124.4749	0	2815.396	938.1512	0	122.9079	2679.91	0	0	0	0	133.2198	2904.753	0	0	0	0	2400.288	641.7644	37280.92	0	163.4114	54.45221	0
T7 SWCV Class 8	Diesel	301.2213994	1.85%	13398.31664	9203.075	2310.402	39.27309	12.0614	0	22.06767	180.2193	40.9917	12.58921	0	88.14779	514.195427	9112031.7	1048864	0	3.112263	17.1641	0	1435.604	165.2489	0	67.00617	369.5384	0	0	0	0	74.99217	413.5811	0	0	0	0	358.341	159.3802	4225.757	0	85.74846	9.870294	0
T7 Tractor Class 8	Diesel	6320.558182	38.75%	77545.10675	251190.6	53062.61	1143.754	95.01092	0	469.9166	1460.219	1198.121	99.52716	0	1883.836	4181.30918	75699584	50307402	0	29.3877	1043.398	0	11926.5	7925.952	0	632.7092	22464.08	0	0	0	0	700.6635	24876.77	0	0	0	0	11130.43	3255.59	321641.6	0	706.2131	469.3255	0
T7 Utility Class 8	Diesel	44.13378617	0.27%	478.1490728	333.3427	475.078	2.606076	0.121571	0	3.383139	12.63459	2.724134	0.127079	0	13.53366	36.10179	607375.93	69214.55	0	0.206987	1.36154	0	95.69232	10.90478	0	4.456368	29.31358	0	0	0	0	4.856227	31.94382	0	0	0	0	77.72223	42.52473	414.0138	0	5.576003	0.635423	0
Total				334187.9373	1422817	164492.7	4205.912	663.2795	0	1628.455	6102.67	4410.706	695.7574	0	6534.07	17495.8603	349511397	2.67E+08	0	182.7035	5254.246	0	55065.66	42032.22	0	3933.557	113122.5	0	0	0	0	4358.144	125524.7	0	0	0	0	56535.61	17998.03	1696468	0	3229.584	2484.036	0

ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	NO2	CO2e
0.13	2.118	1.89	0.01	0.03	0.01	616.30	0.01	0.10	645.3684

Haul

Vehicle Category	Fuel	Population	Vehicle Mi	NOx_RUNEX	NOx IDLE	NOx STRE	PM2.5 RU	PM2.5 IDL	PM2.5 STF	PM2.5 PM	PM2.5 PM	PM10 RUN	PM10 IDLE	PM10 STR	PM10 PMT	PM10_PMBW	CO2 RUNEX	CO2 IDLE	CO2 STRE	CH4 RUNE	CH4 IDLE	CH4 STRE	N2O RUNE	N2O IDLE	N2O STRE	ROG RUNE	ROG IDLE	ROG STRE	ROG HOTS	ROG RUNL	ROG DIUR	TOG RUNE	TOG IDLE	TOG STRE	TOG HOTS	TOG RUNL	TOG DIUR	NH3 RUNE	CO RUNE	CO_IDLEX	CO_STREX	SOx RUNE	SOx IDLE	SOx_STREX
T7 CAIRP Class 8	Diesel	2839.968029	17.41%	702644.8049	313896.1	51761.88	13958.33	123.7691	0	4195.047	12529.02	14654.16	129.9391	0	16854.6	35955.9642	645198726	62949691	0	255.6827	1413.917	0	101651.3	9917.75	0	5504.778	30441.25	0	0	0	0	5890.78	32575.83	0	0	0	0	96533.47	18998.79	422648.7	0	5910.328	576.6492	0
T7 NNOOS Class 8	Diesel	2641.891717	16.20%	569859.5623	390539.3	48030.56	11815.18	134.5222	0	3673.664	11108.31	12349.41	140.6047	0	14694.66	31738.0174	550794371	66904161	0	220.178	1534.525	0	86777.88	10540.78	0	4740.371	33037.9	0	0	0	0	5396.551	37611.13	0	0	0	0	89800.65	17208.65	487999.8	0	5215.693	633.5424	0
T7 NOOS Class 8	Diesel	1141.542001	7.00%	252395.8286	168749.2	20731.35	5405.426	58.12604	0	1587.363	4753.445	5649.835	60.75424	0	6349.453	13581.2705	243405421	29473447	0	97.73509	663.0569	0	38348.62	4643.554	0	2104.21	14275.43	0	0	0	0	2395.483	16251.49	0	0	0	0	38802.2	7702.882	210861.1	0	2304.904	279.0959	0
T7 Other Port Class 8	Diesel	51.96465427	0.32%	12155.7021	1943.007	992.1147	147.2257	0.729712	0	75.4902	256.7386	154.28	0.764676	0	302.7407	735.4335	12854893	394597.6	0	4.026744	8.256044	0	2025.294	62.16902	0	86.6947	177.7504	0	0	0	0	95.24927	195.2898	0	0	0	0	1766.333	596.0444	2534.704	0	119.0915	3.655668	0
T7 POAK Class 8	Diesel	236.2396701	1.45%	57847.02242	8747.312	4514.829	684.7299	3.275134	0	338.8193	1143.937	717.0776	3.429856	0	1357.904	3274.72571	58694606	1761358	0	18.77259	37.42582	0	9247.359	277.5027	0	404.1687	805.7675	0	0	0	0	445.3252	887.8189	0	0	0	0	8030.033	2825.015	11523.17	0	547.4656	16.42882	0
T7 POLA Class 8	Diesel	303.2559526	1.86%	84130.11462	11594.66	5554.32	1025.976	4.126277	0	426.8717	1425.155	1073.855	4.318838	0	1709.858	4077.52531	78351289	2405961	0	27.17702	47.13516	0	12344.28	379.0601	0	585.1139	1014.807	0	0	0	0	657.1095	1139.675	0	0	0	0	10307.99	4935.827	14792.05	0	737.3414	22.6418	0
T7 Public Class 8	Diesel	539.8486708	3.31%	478553.4515	13554.1	19189.93	2688.513	23.73062	0	778.6369	3320.832	2838.659	25.05591	0	3146.228	9584.60402	153621943	1625571	0	323.2954	28.18169	0	24203.2	256.1094	0	6960.462	606.7441	0	0	0	0	7795.182	679.5067	0	0	0	0	13841.61	24129.52	6815.178	0	1413.449	14.9566	0
T7 Single Concrete/Transit Mix	Diesel	222.2871578	1.36%	39989.15061	4625.482	6715.627	538.6678	1.900993	0	347.803	1130.439	564.2585	1.991304	0	1394.263	3236.90717	57708769	940967.1	0	15.46597	20.54074	0	9092.04	148.2498	0	332.9781	442.2365	0	0	0	0	342.7558	455.2225	0	0	0	0	7555.517	1679.787	5902.759	0	512.1607	8.351008	0
T7 Single Dump Class 8	Diesel	303.9250287	1.86%	67069.50308	6401.251	8050.603	873.9454	3.531726	0	451.3263	1444.554	917.1749	3.706421	0	1812.645	4144.07559	79430089	1357602	0	27.55777	26.66992	0	12514.24	213.8908	0	593.3113	574.1961	0	0	0	0	646.4294	625.6029	0	0	0	0	10327.93	3459.967	8002.737	0	726.001	12.40866	0
T7 Single Other Class 8	Diesel	1363.343272	8.36%	262107.9437	28087.5	37416.2	3395.024	14.67946	0	2026.638	6500.905	3557.594	15.38239	0	8127.253	18621.4478	344913684	5746636	0	110.1873	120.1274	0	54341.29	905.3848	0	2372.303	2586.31	0	0	0	0	2571.338	2803.3	0	0	0	0	46329.1	12387	35978.83	0	3154.079	52.55038	0
T7 SWCV Class 8	Diesel	301.2213994	1.85%	258607.2145	8881.644	8918.832	758.0285	11.64014	0	425.9385	3478.498	791.2001	12.14951	0	1701.382	9924.72792	175875612	1012230	0	60.07125	16.56462	0	27709.27	159.4773	0	1293.318	356.6317	0	0	0	0	1447.459	399.1362	0	0	0	0	6916.508	3076.273	4078.166	0	1655.071	9.52556	0
T7 Tractor Class 8	Diesel	6320.558182	38.75%	1496734.597	242417.4	204837.3	22076.13	91.69253	0	9070.082	28184.38	23125.49	96.05103	0	36360.8	80705.4161	1.461E+09	48550342	0	567.2259	1006.956	0	230199	7649.126	0	12212.22	21679.49	0	0	0	0	13523.84	24007.91	0	0	0	0	214833.7	62837.68	310407.8	0	13630.95	452.9336	0
T7 Utility Class 8	Diesel	44.13378617	0.27%	9228.980266	321.7002	1833.941	50.30109	0.117325	0	65.29955	243.8662	52.57979	0.12264	0	261.2196	696.817637	11723249	66797.13	0	3.995148	1.313986	0	1847.003	10.52391	0	86.01445	28.28976	0	0	0	0	93.73233	30.82813	0	0	0	0	1500.153	820.7898	399.5538	0	107.6251	0.61323	0
Total				4291323.876	1199759	418547.5	63417.48	471.8412	0	23462.98	75520.08	66445.59	494.2706	0	94073	216276.933	3.874E+09	2.23E+08	0	1731.371	4924.67	0	610300.8	35163.57	0	37275.94	106026.8	0	0	0	0	41301.23	117662.7	0	0	0	0	546545.2	160658.2	1521945	0	36034.16	2083.353	0

ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	NO2	CO2e
0.16	6.51	1.85	0.04	0.42	0.18	4096.88	0.01	0.65	4289.39

New Fresno Courthouse Project
Construction Vehicle Emissions
EMFAC 2021 with EPA Adjustment Factors

Construction Schedule

Construction Phase Name	Start Date	End Date	Number of Days
Demolition	10/1/2029	10/27/2029	0
Site Preparation	10/28/2029	12/1/2029	0
Grading	12/2/2029	2/10/2030	1
Building Construction	2/11/2030	10/15/2033	0
Paving	9/1/2033	10/15/2033	0
Architectural Coating	6/1/2033	10/15/2033	0

Construction Trips and VMT

	Trips per Day				Construction Trip Length in Miles					Trips per Phase				VMT per Phase			
Phase Name	Worker Trip Number	Vendor Trip Number	Onsite Truck Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Onsite Truck Trip Length	Hauling Trip Length	Number of Days per Phase	Worker Trip Number	Vendor Trip Number	Onsite Truck Trip Number	Hauling Trip Number	Worker VMT	Vendor VMT	Onsite Truck VMT	Hauling VMT
Demolition	13	0	0	50	0.25	0.25	0	0.25	0	0	0	0	0	0	0	0	0
Site Preparation	8	0	0	0	0.25	0.25	0	0.25	0	0	0	0	0	0	0	0	0
Grading	10	0	0	2500	0.25	0.25	0	0.25	1	10	0	0	2500	3	0	0	625
Building Construction	132	68	0	0	0.25	0.25	0	0.25	0	0	0	0	0	0	0	0	0
Paving	15	0	0	0	0.25	0.25	0	0.25	0	0	0	0	0	0	0	0	0
Architectural Coating	26	0	0	0	0.25	0.25	0	0.25	0	0	0	0	0	0	0	0	0
									Totals	10	0	0	2,500	3	0	0	625
									Total Vehicles	5	0	0	313				

Construction Emissions

ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	NO2	CO2e
4.71	73.14	66.77	0.11	0.64	0.21	5.39	0.00	0.00	5.65

Worker

CalEEMod Vehicle Class Percentage

LDA	50%
LDT1/LDT2	25%

Vehicle Category	Fuel	Population	Vehicle Mi	NOx_RUNEX	NOx_IDLEX	NOx STRE	PM2.5 RU	PM2.5 IDL	PM2.5 STF	PM2.5 PM	PM2.5 PM	PM10 RUN	PM10 IDLE	PM10 STR	PM10 PMT	PM10_PMBW	CO2 RUNEX	CO2 IDLE	CO2 STRE	CH4 RUNE	CH4 IDLE	CH4 STRE	N2O RUNE	N2O IDLE	N2O STRE	ROG RUNE	ROG IDLE	ROG STRE	ROG HOTS	ROG RUNL	ROG DIUR	TOG RUNE	TOG IDLE	TOG STRE	TOG HOTS	TOG RUNL	TOG DIURI	NH3 RUNE	CO RUNEX	CO_IDLEX	CO_STREX	SOx RUNE	SOx IDLE	SOx_STREX
LDA	Gasoline	322126.8419	89.30%	0.029991911	0	0.927738	0.000986	0	0.00729	0.002232	0.002309	0.001073	0	0.007928	0.00893	0.0065982	285.38228	0	280.556	0.001602	0	0.237843	0.004092	0	0.131493	0.005496	0	1.02359	0.332596	0.913405	3.035938	0.008019	0	1.120702	0.332596	0.913405	3.035938	0.043248	0.662622	0	10.73155	0.002821	0	0.002774
LDA	Diesel	457.0818389	0.13%	0.000164618	0	0	1.21E-05	0	0	3.17E-06	3.35E-06	1.26E-05	0	0	1.27E-05	9.5627E-06	0.3343155	0	0	1.08E-06	0	0	5.27E-05	0	0	2.33E-05	0	0	0	0	0	2.65E-05	0	0	0	0	0	4.91E-06	0.000363	0	0	3.17E-06	0	0
LDA	Electricity	25932.44865	7.19%	0	0	0	0	0	0	0.00018	0.000138	0	0	0	0.000719	0.00039358	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LDA	Plug-in Hybrid	12223.38883	3.39%	0.000114786	0	0.019173	1.67E-05	0	0.000272	8.47E-05	5.51E-05	1.82E-05	0	0.000296	0.000339	0.00015729	5.1470747	0	10.31511	1.49E-05	0	0.006872	2.03E-05	0	0.003381	4.77E-05	0	0.028327	0.007194	0.008427	0.04883	6.97E-05	0	0.031015	0.007194	0.008427	0.04883	0.00078	0.0084	0	0.217693	5.09E-05	0	0.000102
LDT1	Gasoline	27403.62679	98.99%	0.113604543	0	1.721891	0.001577	0	0.011821	0.002475	0.003127	0.001716	0	0.012856	0.009899	0.00893333	383.25754	0	398.8186	0.005238	0	0.451315	0.009132	0	0.180457	0.022664	0	2.29717	0.864211	2.510963	7.791491	0.033071	0	2.515112	0.864211	2.510963	7.791491	0.047432	1.429949	0	22.46278	0.003789	0	0.003943
LDT1	Diesel	2.905406477	0.01%	0.000154244	0	0	2.15E-05	0	0	2.62E-07	3.68E-07	2.24E-05	0	0	1.05E-06	1.0501E-06	0.0485978	0	0	1.61E-06	0	0	7.66E-06	0	0	3.47E-05	0	0	0	0	0	3.95E-05	0	0	0	0	0	4.07E-07	0.000263	0	0	4.6E-07	0	0
LDT1	Electricity	147.3222549	0.53%	0	0	0	0	0	0	1.33E-05	1.02E-05	0	0	0	5.32E-05	2.9064E-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LDT1	Plug-in Hybrid	128.129587	0.46%	1.44264E-05	0	0.002619	1.39E-06	0	2.44E-05	1.16E-05	7.61E-06	1.51E-06	0	2.66E-05	4.63E-05	2.174E-05	0.6479319	0	1.50475	1.88E-06	0	0.000941	2.56E-06	0	0.000464	6E-06	0	0.00387	0.000545	0.000467	0.00358	8.75E-06	0	0.004237	0.000545	0.000467	0.00358	0.000101	0.001061	0	0.029737	6.41E-06	0	1.49E-05
LDT2	Gasoline	163197.4833	96.98%	0.053414273	0	1.304787	0.001102	0	0.007987	0.002424	0.002962	0.001198	0	0.008687	0.009698	0.00846157	378.9226	0	380.3807	0.002353	0	0.318498	0.005578	0	0.162966	0.008564	0	1.41283	0.371864	1.083091	3.593784	0.012496	0	1.546871	0.371864	1.083091	3.593784	0.04743	0.852032	0	14.20961	0.003746	0	0.00376
LDT2	Diesel	500.5392686	0.30%	0.000120387	0	0	1.39E-05	0	0	7.44E-06	8.92E-06	1.45E-05	0	0	2.97E-05	2.5488E-05	0.997887	0	0	1.77E-06	0	0	0.000157	0	0	3.82E-05	0	0	0	0	0	4.35E-05	0	0	0	0	0	1.15E-05	0.000388	0	0	9.46E-06	0	0
LDT2	Electricity	2351.640527	1.40%	0	0	0	0	0	0	3.49E-05	2.67E-05	0	0	0	0.00014	7.6379E-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LDT2	Plug-in Hybrid	2234.378018	1.33%	4.3022E-05	0	0.007513	5.06E-06	0	8.51E-05	3.32E-05	2.17E-05	5.5E-06	0	9.26E-05	0.000133	6.2055E-05	1.9304475	0	4.695084	5.58E-06	0	0.002695	7.6E-06	0	0.001327	1.79E-05	0	0.0111	0.001803	0.001694	0.011873	2.61E-05	0	0.012153	0.001803	0.001694	0.011873	0.000301	0.003155	0	0.085302	1.91E-05	0	4.64E-05
Total				0.19762221	0	3.983721	0.003736	0	0.027479	0.0075	0.008669	0.004061	0	0.029886	0.03	0.02476932	1056.6687	0	1076.27	0.009219	0	1.018164	0.019049	0	0.480087	0.036891	0	4.776886	1.578214	4.518047	14.48549	0.0538	0	5.230089	1.578214	4.518047	14.48549	0.13931	2.958233	0	47.73667	0.010446	0	0.01064

ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	NO2	CO2e
0.06	0.01	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.002307

Vendor

CalEEMod Vehicle Class Percentage

MMDT	50.00%
HHDT	50.00%

Vehicle Category	Fuel	Population	Vehicle Mi	NOx_RUNEX	NOx_IDLEX	NOx_STRE	PM2.5_RU	PM2.5_IDL	PM2.5_STF	PM2.5_PM	PM2.5_PM	PM10_RUN	PM10_IDLE	PM10_STR	PM10_PMT	PM10_PMBW	CO2_RUNEX	CO2_IDLE	CO2_STRE	CH4_RUNE	CH4_IDLE	CH4_STRE	N2O_RUNE	N2O_IDLE	N2O_STRE	ROG_RUNE	ROG_IDLE	ROG_STRE	ROG_HOTS	ROG_RUNL	ROG_DIUR	TOG_RUNE	TOG_IDLE	TOG_STRE	TOG_HOTS	TOG_RUNL	TOG_DIURI	NH3_RUNE	CO_RUNEX	CO_IDLEX	CO_STREX	SOx_RUNE	SOx_IDLE	SOx_STREX
T6 CAIRP Class 4	Diesel	14.99454677	0.18%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 CAIRP Class 5	Diesel	19.41807935	0.23%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 CAIRP Class 6	Diesel	73.08602305	0.86%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 CAIRP Class 7	Diesel	117.6860198	1.38%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate Delivery Class 4	Diesel	305.0270513	3.58%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate Delivery Class 5	Diesel	388.3780964	4.55%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate Delivery Class 6	Diesel	888.197501	10.41%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate Delivery Class 7	Diesel	376.7226985	4.42%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate Other Class 4	Diesel	604.607583	7.09%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate Other Class 5	Diesel	1555.287751	18.23%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate Other Class 6	Diesel	1370.012513	16.06%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate Other Class 7	Diesel	923.7947638	10.83%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate Tractor Class 6	Diesel	13.04132698	0.15%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate Tractor Class 7	Diesel	1085.667708	12.73%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 OOS Class 4	Diesel	9.542531663	0.11%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 OOS Class 5	Diesel	12.24686901	0.14%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 OOS Class 6	Diesel	47.11575831	0.55%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 OOS Class 7	Diesel	64.77294107	0.76%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public Class 4	Diesel	72.05472665	0.84%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public Class 5	Diesel	106.0838718	1.24%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public Class 6	Diesel	127.6483069	1.50%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public Class 7	Diesel	276.1982299	3.24%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Utility Class 5	Diesel	56.21891487	0.66%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Utility Class 6	Diesel	10.62762524	0.12%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Utility Class 7	Diesel	11.79421556	0.14%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 CAIRP Class 8	Diesel	2839.968029	17.41%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 NNOOS Class 8	Diesel	2641.891717	16.20%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 NOOS Class 8	Diesel	1141.542001	7.00%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Other Port Class 8	Diesel	51.96465427	0.32%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 POAK Class 8	Diesel	236.2396701	1.45%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 POLA Class 8	Diesel	303.2559526	1.86%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Public Class 8	Diesel	539.8486708	3.31%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Single Concrete/Transit Mix	Diesel	222.2871578	1.36%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Single Dump Class 8	Diesel	303.9250287	1.86%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Single Other Class 8	Diesel	1363.343272	8.36%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 SWCV Class 8	Diesel	301.2213994	1.85%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Tractor Class 8	Diesel	6320.558182	38.75%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Utility Class 8	Diesel	44.13378617	0.27%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	NO2	CO2e
0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0

Haul

Vehicle Category	Fuel	Population	Vehicle Mi	NOx_RUNEX	NOx_IDLEX	NOx STRE	PM2.5 RU	PM2.5 IDL	PM2.5 STF	PM2.5 PM	PM2.5 PM	PM10 RUN	PM10 IDLE	PM10 STR	PM10 PMT	PM10_PMBW	CO2 RUNEX	CO2 IDLE	CO2 STRE	CH4 RUNE	CH4 IDLE	CH4 STRE	N2O RUNE	N2O IDLE	N2O STRE	ROG RUNE	ROG IDLE	ROG STRE	ROG HOTS	ROG RUNL	ROG DIUR	TOG RUNE	TOG IDLE	TOG STRE	TOG HOTS	TOG RUNL	TOG DIURI	NH3 RUNE	CO RUNEX	CO_IDLEX	CO_STREX	SOx RUNE	SOx IDLE	SOx_STREX
T7 CAIRP Class 8	Diesel	2839.968029	17.41%	174.2670647	6228.0981	1027.021	3.461887	2.455736	0	1.040438	3.107397	3.634465	2.578157	0	4.180209	8.91764984	160019.53	1249002	0	0.063413	28.05391	0	25.21114	196.7807	0	1.365272	603.993	0	0	0	0	1.461007	646.3457	0	0	0	0	23.94183	4.712001	8385.888	0	1.465855	11.44145	0
T7 NNOOS Class 8	Diesel	2641.891717	16.20%	141.3342169	7748.7956	952.9872	2.930353	2.66909	0	0.911127	2.755036	3.062851	2.789775	0	3.644508	7.8715321	136605.75	1327464	0	0.054608	30.44692	0	21.52229	209.1424	0	1.175687	655.5138	0	0	0	0	1.33843	746.2526	0	0	0	0	22.27199	4.268018	9682.536	0	1.293575	12.57029	0
T7 NOOS Class 8	Diesel	1141.542001	7.00%	62.59817179	3348.1974	411.3362	1.340631	1.153294	0	0.393691	1.17893	1.401249	1.205441	0	1.574765	3.36837066	60368.408	584790.6	0	0.02424	13.15589	0	9.511067	92.134	0	0.521877	283.2427	0	0	0	0	0.594118	322.4503	0	0	0	0	9.623562	1.910437	4183.753	0	0.571653	5.537617	0
T7 Other Port Class 8	Diesel	51.96465427	0.32%	3.01480707	38.551735	19.68481	0.036514	0.014478	0	0.018723	0.063675	0.038264	0.015172	0	0.075084	0.18239918	3188.2174	7829.318	0	0.000999	0.16381	0	0.502305	1.233512	0	0.021502	3.526793	0	0	0	0	0.023623	3.874798	0	0	0	0	0.438079	0.147828	50.29174	0	0.029537	0.072533	0
T7 POAK Class 8	Diesel	236.2396701	1.45%	14.34697977	173.55779	89.57994	0.169824	0.064983	0	0.084033	0.283714	0.177847	0.068053	0	0.336782	0.81218396	14557.194	34947.59	0	0.004656	0.742576	0	2.293492	5.506006	0	0.10024	15.98745	0	0	0	0	0.110448	17.61545	0	0	0	0	1.991576	0.700649	228.6343	0	0.13578	0.325969	0
T7 POLA Class 8	Diesel	303.2559526	1.86%	20.86560382	230.05282	110.2048	0.254458	0.081871	0	0.105871	0.353461	0.266333	0.085691	0	0.424072	1.011291	19432.363	47737.32	0	0.00674	0.935222	0	3.061577	7.521034	0	0.145118	20.13506	0	0	0	0	0.162974	22.61259	0	0	0	0	2.556544	1.224164	293.4931	0	0.182872	0.449242	0
T7 Public Class 8	Diesel	539.8486708	3.31%	118.6888521	268.93054	380.7527	0.666794	0.470846	0	0.193114	0.823619	0.704033	0.497141	0	0.780315	2.37713393	38100.68	32253.39	0	0.080182	0.559161	0	6.002778	5.081535	0	1.726305	12.03857	0	0	0	0	1.933329	13.48228	0	0	0	0	3.432938	5.984505	135.2218	0	0.350558	0.296758	0
T7 Single Concrete/Transit Mix	Diesel	222.2871578	1.36%	9.917944101	91.77543	133.2466	0.133598	0.037718	0	0.086261	0.280367	0.139945	0.03951	0	0.345799	0.80280436	14312.691	18669.98	0	0.003836	0.407554	0	2.25497	2.941463	0	0.082584	8.774534	0	0	0	0	0.085009	9.032192	0	0	0	0	1.873888	0.416614	117.1182	0	0.127024	0.165695	0
T7 Single Dump Class 8	Diesel	303.9250287	1.86%	16.63430136	127.00895	159.7342	0.216752	0.070074	0	0.111936	0.358272	0.227474	0.07354	0	0.449565	1.02779653	19699.923	26936.55	0	0.006835	0.529165	0	3.103731	4.243865	0	0.147151	11.39278	0	0	0	0	0.160325	12.41276	0	0	0	0	2.561492	0.858127	158.7845	0	0.18006	0.246203	0
T7 Single Other Class 8	Diesel	1363.343272	8.36%	65.00693048	557.2917	742.3849	0.84202	0.291259	0	0.502638	1.612328	0.88234	0.305206	0	2.015688	4.61841463	85544.068	114020.6	0	0.027328	2.38348	0	13.4775	17.96399	0	0.588369	51.31567	0	0	0	0	0.637733	55.62103	0	0	0	0	11.49035	3.072172	713.8657	0	0.782262	1.042666	0
T7 SWCV Class 8	Diesel	301.2213994	1.85%	64.13869407	176.22309	176.961	0.188003	0.230955	0	0.10564	0.862723	0.19623	0.241062	0	0.42197	2.46149006	43619.944	20083.94	0	0.014899	0.328663	0	6.87234	3.164233	0	0.320763	7.076026	0	0	0	0	0.358993	7.919369	0	0	0	0	1.715404	0.762964	80.916	0	0.410484	0.188999	0
T7 Tractor Class 8	Diesel	6320.558182	38.75%	371.2139378	4809.8691	4064.232	5.47523	1.819296	0	2.249524	6.990174	5.735489	1.905774	0	9.018055	20.0162242	362379.29	963300.4	0	0.140681	19.97929	0	57.093	151.7684	0	3.028824	430.1486	0	0	0	0	3.354126	476.3475	0	0	0	0	53.28218	15.58474	6158.884	0	3.380692	8.986778	0
T7 Utility Class 8	Diesel	44.13378617	0.27%	2.288933598	6.3829409	36.38772	0.012475	0.002328	0	0.016195	0.060483	0.013041	0.002433	0	0.064787	0.17282183	2907.5517	1325.34	0	0.000991	0.026071	0	0.458086	0.208808	0	0.021333	0.561305	0	0	0	0	0.023247	0.611669	0	0	0	0	0.372062	0.203569	7.927654	0	0.026693	0.012167	0
Total				1064.316437	23804.735	8304.513	15.72854	9.361929	0	5.819191	18.73018	16.47956	9.806956	0	23.3316	53.6401123	960735.6	4428360	0	0.429407	97.71171	0	151.3643	697.69	0	9.245025	2103.706	0	0	0	0	10.24336	2334.578	0	0	0	0	135.5519	39.84579	30197.31	0	8.937044	41.33637	0

ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	NO2	CO2e
4.66	73.14	66.66	0.11	0.23	0.11	5.39	0.00	0.00	5.644568

New Fresno Courthouse Project
Construction Vehicle Emissions
EMFAC 2021 with EPA Adjustment Factors

Construction Schedule

Construction Phase Name	Start Date	End Date	Number of Days
Demolition	10/1/2029	10/27/2029	20
Site Preparation	10/28/2029	12/1/2029	25
Grading	12/2/2029	2/10/2030	50
Building Construction	2/11/2030	10/15/2033	960
Paving	9/1/2033	10/15/2033	32
Architectural Coating	6/1/2033	10/15/2033	98

Construction Trips and VMT

	Trips per Day				Construction Trip Length in Miles					Trips per Phase				VMT per Phase			
Phase Name	Worker Trip Number	Vendor Trip Number	Onsite Truck Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Onsite Truck Trip Length	Hauling Trip Length	Number of Days per Phase	Worker Trip Number	Vendor Trip Number	Onsite Truck Trip Number	Hauling Trip Number	Worker VMT	Vendor VMT	Onsite Truck VMT	Hauling VMT
Demolition	13	0	0	50	0.25	0.25	0	0.25	20	250	0	0	1000	63	0	0	250
Site Preparation	8	0	0	0	0.25	0.25	0	0.25	25	187.5	0	0	0	47	0	0	0
Grading	10	0	0	2500	0.25	0.25	0	0.25	50	500	0	0	125000	125	0	0	31,250
Building Construction	132	68	0	0	0.25	0.25	0	0.25	960	126874	65280	0	0	31,718	16,320	0	0
Paving	15	0	0	0	0.25	0.25	0	0.25	32	480	0	0	0	120	0	0	0
Architectural Coating	26	0	0	0	0.25	0.25	0	0.25	98	2590.14	0	0	0	648	0	0	0
									Totals	130,881	65,280	0	126,000	32,720	16,320	0	31,500
									Total Vehicles	65,441	32,640	0	15,750				

Construction Emissions

ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	NO2	CO2e
0.61	3.68	4.28	0.01	0.01	0.00	588.16	0.02	0.09	617.00

Worker

CalEEMod Vehicle Class Percentage

LDA	50%
LDT1/LDT2	25%

Vehicle Category	Fuel	Population		Vehicle Mix	NOx_RUNEX	NOx_IDLEX	NOx_STREX	PM2.5_RUNEX	PM2.5_IDLEX	PM2.5_STREX	PM2.5_PMTW	PM2.5_PMBW	PM10_RUNEX	PM10_IDLEX	PM10_STREX	PM10_PMTW	PM10_PMBW	CO2_RUNEX	CO2_IDLEX	CO2_STREX	CH4_RUNEX	CH4_IDLEX	CH4_STREX	N2O_RUNEX	N2O_IDLEX	N2O_STREX	ROG_RUNEX	ROG_IDLEX	ROG_STREX	ROG_HOTSO	ROG_RUNL
LDA	Gasoline		322126.8419	89.30%	392.5378543	0	12142.34	12.91107	0	95.40631	29.218	30.22534	14.04196	0	103.7631	116.872	86.3581221	3735118.6	0	3671952	20.96257	0	3112.914	53.55444	0	1720.997	71.92651	0	13396.87	4353.058	11954.76
LDA	Diesel		457.0818389	0.13%	2.154536817	0	0	0.157948	0	0	0.041459	0.043805	0.16509	0	0	0.165836	0.1251582	4375.5633	0	0	0.014136	0	0	0.689372	0	0	0.304335	0	0	0	0	0
LDA	Electricity		25932.44865	7.19%	0	0	0	0	0	0	2.352161	1.802942	0	0	0	9.408644	5.15126369	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LDA	Plug-in Hybrid		12223.38883	3.39%	1.502328887	0	250.9413	0.218654	0	3.556496	1.108703	0.720536	0.237807	0	3.868014	4.434811	2.0586745	67365.552	0	135005.4	0.194907	0	89.94204	0.265359	0	44.24751	0.624811	0	370.7538	94.15709	110.2892
LDT1	Gasoline		27403.62679	98.99%	1486.870343	0	22536.33	20.6464	0	154.7126	32.3913	40.92219	22.45485	0	168.2641	129.5652	116.920542	5016122.2	0	5219787	68.55261	0	5906.867	119.5176	0	2361.839	296.6258	0	30065.64	11310.9	32863.8
LDT1	Diesel		2.905406477	0.01%	2.018763363	0	0	0.281099	0	0	0.003434	0.00481	0.293809	0	0	0.013737	0.01374322	636.05426	0	0	0.021117	0	0	0.100211	0	0	0.454635	0	0	0	0	0
LDT1	Electricity		147.3222549	0.53%	0	0	0	0	0	0	0.174136	0.133138	0	0	0	0.696544	0.38039314	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LDT1	Plug-in Hybrid		128.129587	0.46%	0.188814011	0	34.27889	0.018195	0	0.31984	0.15145	0.099588	0.019789	0	0.347855	0.605801	0.28453766	8480.2137	0	19694.36	0.024553	0	12.32218	0.033502	0	6.078766	0.078527	0	50.64543	7.136088	6.115987
LDT2	Gasoline		163197.4833	96.98%	699.0926309	0	17077.21	14.41726	0	104.5401	31.73132	38.76112	15.68008	0	113.6969	126.9253	110.746064	4959386	0	4978469	30.79437	0	4168.545	73.00442	0	2132.914	112.0844	0	18491.29	4867.001	14175.62
LDT2	Diesel		500.5392686	0.30%	1.575641799	0	0	0.181746	0	0	0.097322	0.116758	0.189963	0	0	0.38929	0.33359388	13060.469	0	0	0.023203	0	0	2.057682	0	0	0.499544	0	0	0	0	0
LDT2	Electricity		2351.640527	1.40%	0	0	0	0	0	0	0.457241	0.349882	0	0	0	1.828966	0.99966197	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LDT2	Plug-in Hybrid		2234.378018	1.33%	0.563077092	0	98.33051	0.066224	0	1.113869	0.434441	0.284264	0.072024	0	1.211434	1.737766	0.81218371	25265.937	0	61449.84	0.073063	0	35.27225	0.099488	0	17.36575	0.234181	0	145.2786	23.60231	22.17222
Total					2586.50399	0	52139.43	48.89859	0	359.6492	98.16096	113.4644	53.15538	0	391.1514	392.6439	324.183938	13829811	0	14086358	120.6605	0	13325.86	249.3221	0	6283.441	482.8328	0	62520.48	20655.85	59132.76

ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	NO2	CO2e
0.37	0.06	0.73	0.00	0.00	0.00	27.92	0.01	0.01	30.1991

Vendor

CalEEMod Vehicle Class Percentage

MMDT	50.00%
HHDT	50.00%

Vehicle Category	Fuel	Population		Vehicle Mix	NOx_RUNEX	NOx_IDLEX	NOx_STREX	PM2.5_RUNEX	PM2.5_IDLEX	PM2.5_STREX	PM2.5_PMTW	PM2.5_PMBW	PM10_RUNEX	PM10_IDLEX	PM10_STREX	PM10_PMTW	PM10_PMBW	CO2_RUNEX	CO2_IDLEX	CO2_STREX	CH4_RUNEX	CH4_IDLEX	CH4_STREX	N2O_RUNEX	N2O_IDLEX	N2O_STREX	ROG_RUNEX	ROG_IDLEX	ROG_STREX	ROG_HOTSO	ROG_RUNL
T6 CAIRP Class 4	Diesel		14.99454677	0.18%	4.764445744	78.7850032	35.45735	0.098355	0.033193	0	0.047369	0.233841	0.103126	0.034804	0	0.190072	0.67022397	16519.309	17066.39	0	0.004864	0.07175	0	2.602624	2.688817	0	0.104717	1.544747	0	0	0
T6 CAIRP Class 5	Diesel		19.41807935	0.23%	6.044648915	101.857267	45.94225	0.120939	0.031011	0	0.061063	0.301442	0.126705	0.032489	0	0.244826	0.86329485	21383.769	22170.19	0	0.005631	0.091828	0	3.369022	3.492922	0	0.121226	1.977024	0	0	0
T6 CAIRP Class 6	Diesel		73.08602305	0.86%	21.28686223	383.851954	179.5147	0.452535	0.150439	0	0.235156	1.160875	0.473652	0.157459	0	0.941928	3.32138128	80127.464	82173.81	0	0.021675	0.355055	0	12.62411	12.94652	0	0.466648	7.644235	0	0	0
T6 CAIRP Class 7	Diesel		117.6860198	1.38%	37.46622684	571.567266	261.4674	0.727528	0.163322	0	0.359256	1.773506	0.760671	0.170762	0	1.437489	5.06880099	113664.8	127240.5	0	0.03318	0.541873	0	17.90793	20.0468	0	0.714358	11.66637	0	0	0
T6 Instate Delivery Class 4	Diesel		305.0270513	3.58%	253.7673264	5716.35733	1876.053	2.467999	6.357744	0	0.921748	5.114787	2.604253	6.708743	0	3.722241	14.7533884	344722.28	1194271	0	0.303724	5.189618	0	54.31113	188.158	0	6.53909	111.7311	0	0	0
T6 Instate Delivery Class 5	Diesel		388.3780964	4.55%	261.8440716	7101.04418	2435.91	1.685935	4.493442	0	1.179276	6.543811	1.771743	4.722143	0	4.742742	18.7982215	439107.78	1511879	0	0.220862	6.253647	0	69.18161	238.1972	0	4.7551	134.6393	0	0	0
T6 Instate Delivery Class 6	Diesel		888.197501	10.41%	699.7661926	16576.1975	5561.548	6.114595	16.40093	0	2.697354	14.96764	6.427553	17.24036	0	10.85101	43.0088016	999165.92	3459380	0	0.746873	15.02349	0	157.419	545.0267	0	16.07997	323.4517	0	0	0
T6 Instate Delivery Class 7	Diesel		376.7226985	4.42%	392.2637109	6845.79963	2291.846	1.186167	2.780628	0	1.105009	6.131702	1.241457	2.91024	0	4.425943	17.5425639	420260.69	1498139	0	0.191838	5.818519	0	66.21224	236.0324	0	4.13021	125.2711	0	0	0
T6 Instate Other Class 4	Diesel		604.607583	7.09%	447.040525	12613.3652	4191.599	6.237506	24.09758	0	1.835963	9.609617	6.592139	25.46764	0	7.42563	27.761792	665837.54	2564650	0	0.571443	12.33836	0	104.903	404.0616	0	12.303	265.6414	0	0	0
T6 Instate Other Class 5	Diesel		1555.287751	18.23%	810.7487041	30675.8129	11352.19	7.160544	17.05565	0	4.770403	24.96878	7.508905	17.88541	0	19.14431	71.5737897	1707914.1	6534218	0	0.620737	26.99169	0	269.0826	1029.469	0	13.3643	581.1236	0	0	0
T6 Instate Other Class 6	Diesel		1370.012513	16.06%	912.3060008	28276.3424	9707.659	11.62431	43.19086	0	4.177572	21.86584	12.23693	45.46708	0	16.82997	62.9212671	1501753.8	5771216	0	1.065977	26.83244	0	236.6019	909.2575	0	22.9502	577.6951	0	0	0
T6 Instate Other Class 7	Diesel		923.7947638	10.83%	870.215712	18958.2216	6705.804	5.449165	17.01799	0	2.791456	14.61077	5.718314	17.85855	0	11.21045	41.9118819	995834.47	4082385	0	0.485744	16.79766	0	156.8941	643.1814	0	10.45794	361.649	0	0	0
T6 Instate Tractor Class 6	Diesel		13.04132698	0.15%	10.11839647	267.802309	96.40898	0.139276	0.440831	0	0.040042	0.209583	0.146807	0.464667	0	0.161525	0.60388383	13983.589	55164.65	0	0.011629	0.25971	0	2.20312	8.691213	0	0.250366	5.591494	0	0	0
T6 Instate Tractor Class 7	Diesel		1085.667708	12.73%	789.1315494	21143.1293	7535.676	5.13405	10.73916	0	3.203566	16.76779	5.375934	11.24512	0	12.83754	47.9949868	1088185.8	4581733	0	0.438749	18.26862	0	171.4441	721.8539	0	9.446148	393.3184	0	0	0
T6 OOS Class 4	Diesel		9.542531663	0.11%	3.126209178	53.6270822	21.59611	0.065948	0.031526	0	0.027385	0.13519	0.06893	0.032952	0	0.10954	0.38625621	9514.8116	9915.213	0	0.003793	0.044062	0	1.499062	1.562146	0	0.081663	0.948642	0	0	0
T6 OOS Class 5	Diesel		12.24686901	0.14%	3.493433454	67.5059195	27.89041	0.071828	0.021329	0	0.035146	0.173502	0.075076	0.022293	0	0.140584	0.49572057	12279.588	12828.76	0	0.003571	0.05432	0	1.934654	2.021176	0	0.076879	1.169498	0	0	0
T6 OOS Class 6	Diesel		47.11575831	0.55%	13.05428622	262.127072	107.5813	0.29453	0.131665	0	0.135213	0.667492	0.307847	0.137619	0	0.54085	1.90712015	45999.443	47503.39	0	0.015684	0.214974	0	7.247231	7.484179	0	0.337679	4.628328	0	0	0
T6 OOS Class 7	Diesel		64.77294107	0.76%	19.29484768	354.194446	147.7576	0.379534	0.084506	0	0.185885	0.917643	0.396695	0.088327	0	0.74354	2.62183579	59264.482	66334.87	0	0.017293	0.284094	0	9.337143	10.45109	0	0.372324	6.116464	0	0	0
T6 Public Class 4	Diesel		72.05472665	0.84%	266.5676825	4956.24224	277.8249	1.346373	4.962558	0	0.214665	1.156276	1.423777	5.247859	0	0.868743	3.34244314	84572.401	464020.9	0	0.160827	1.617233	0	13.32442	73.10668	0	3.462566	34.81858	0	0	0
T6 Public Class 5	Diesel		106.0838718	1.24%	191.6809058	5028.87691	562.201	0.917966	2.450902	0	0.318699	1.716647	0.966985	2.581779	0	1.284776	4.94310765	123964.65	686571.2	0	0.194654	2.691911	0	19.53068	108.1696	0	4.190853	57.9561	0	0	0
T6 Public Class 6	Diesel		127.6483069	1.50%	309.8184671	6274.34947	676.8693	1.873586	7.375165	0	0.380454	2.049288	1.981609	7.800385	0	1.539928	5.92479482	149448.84	798957.1	0	0.225394	3.284304	0	23.54573	125.876	0	4.852665	70.71017	0	0	0
T6 Public Class 7	Diesel		276.1982299	3.24%	637.2114882	12184.8167	1508.615	3.760791	16.0359	0	0.827607	4.457844	3.984964	16.99177	0	3.356011	12.9120799	320876.02	1684758	0	0.446435	7.278439	0	50.55415	265.4342	0	9.611628	156.7028	0	0	0
T6 Utility Class 5	Diesel		56.21891487	0.66%	21.68148224	818.378256	329.6255	0.150009	0.225215	0	0.180255	0.956785	0.157017	0.235737	0	0.722056	2.73759559	61964.518	176036.6	0	0.016047	0.746479	0	9.762535	27.73464	0	0.345488	16.07149	0	0	0
T6 Utility Class 6	Diesel		10.62762524	0.12%	4.077928446	155.034233	62.9326	0.027843	0.042665	0	0.034147	0.181253	0.029122	0.044624	0	0.136683	0.51822033	11692.002	33246.14	0	0.002918	0.14144	0	1.84208	5.237943	0	0.062814	3.04517	0	0	0
T6 Utility Class 7	Diesel		11.79421556	0.14%	4.259569113	173.267666	69.02207	0.030371	0.047964	0	0.038389	0.203767	0.031762	0.05016	0	0.15364	0.58250892	13060.174	37315.06	0	0.003086	0.158327	0	2.057636	5.879003	0	0.066437	3.408737	0	0	0
T7 CAIRP Class 8	Diesel		2839.968029	17.41%	2275.230797	325256.197	13408.79	45.1984	128.2484	0	13.58396	40.57017	47.45158	134.6417	0	54.57681	116.428836	2089214.9	65227871	0	329.1567	10276.68	0	17.825	31542.93	0	0	0	0	0	0
T7 NNOOS Class 8	Diesel		2641.891717	16.20%	1845.259535	404673.104	12442.2	38.25869	139.3906	0	11.89567	35.96975	39.98858	145.6932	0	47.5827	102.770723	1783524.6	69325454	0	0.712957	1590.06	0	280.995	10922.25	0	15.34977	34233.56	0	0	0
T7 NOOS Class 8	Diesel		1141.542001	7.00%	817.2817308	174856.263	5370.406	17.50328	60.22965	0	5.140033	15.39211	18.2947	62.95296	0	20.56013	43.9774473	788169.93	30540105	0	0.316476	687.0532	0	124.1765	4811.606	0	6.813631	14792.07	0	0	0
T7 Other Port Class 8	Diesel		51.96465427	0.32%	39.3613211	2013.3258	257.0049	0.476731	0.756121	0	0.244444	0.831344	0.499573	0.79235	0	0.980303	2.38140371	41625.366	408878.3	0	0.013039	8.554834	0	6.558093	64.41895	0	0.280726	184.1832	0	0	0
T7 POAK Class 8	Diesel		236.2396701	1.45%	187.3141678	9063.88178	1169.556	2.217221	3.393662	0	1.097129	3.704176	2.321966	3.553984	0	4.397023	10.6038737	190058.73	1825103	0	0.060787	38.78027	0	29.94383	287.5457	0	1.308737	834.9287	0	0	0
T7 POLA Class 8	Diesel		303.2559526	1.86%	272.4213235	12014.2785	1438.833	3.322207	4.275608	0	1.382251	4.614786	3.477244	4.475139	0	5.536684	13.2034153	253708.93	2493034	0	0.088002	48.84101	0	39.97195	392.7785	0	1.894654	1051.534	0	0	0
T7 Public Class 8	Diesel		539.8486708	3.31%	1549.601653	14044.6283	4971.107	8.705661	24.58944	0	2.5213	10.75317	9.19185	25.96269	0	10.18779	31.0358606	497442.48	1684401	0	1.046861	29.2016	0	78.37227	265.3781	0	22.53864	628.7024	0	0	0
T7 Single Concrete/Transit Mix	Diesel		222.2871578	1.36%	129.4886782	4792.88006	1739.667	1.744258	1.969791	0	1.126219	3.660468	1.827123	2.06337	0	4.514755	10.4814137	186866.49	975021.2	0	0.05008	21.28412	0	29.44089	153.615	0	1.078215	458.2413	0	0	0
T7 Single Dump Class 8	Diesel		303.9250287	1.86%	217.1774385	6632.9154	2085.49	2.829918	3.65954	0	1.461438	4.677603	2.9699	3.840559	0	5.869516	13.4189114	257202.19	1406735	0	0.089235	27.63512	0	40.52231	221.6316	0	1.921199	594.9765	0	0	0
T7 Single Other Class 8	Diesel		1363.343272	8.36%	848.7304844	29104.0016	9692.577	10.99341	15.21072	0	6.562445	21.05055	11.51983	15.93908	0	26.31682	60.2980215	1116863.4	5954610	0	0.356797	124.4749	0	175.9623	938.1512	0	7.681743	2679.91	0	0	0
T7 SWCV Class 8	Diesel		301.2213994	1.85%	837.3947898	9203.07469	2310.402	2.454568	12.0614	0	1.379229	11.26371	2.561981	12.58921	0	5.509237	32.1372142	569501.98	1048864	0	0.194516	17.1641	0	89.72527	165.2489	0	4.187886	369.5384	0	0	0
T7 Tractor Class 8	Diesel		6320.558182	38.75%	4846.569172	251190.605	53062.61	71.48461	95.01092	0	29.36979	91.26371	74.88255	99.52716	0	117.7397	261.331824	4731224	50307402	0	1.836731	1043.398	0	745.4063	7925.952	0	39.54433	22464.08	0	0	0
T7 Utility Class 8	Diesel		44.13378617	0.27%	29.88431705	333.342706	475.078	0.16288	0.121571	0	0.211446	0.789662	0.170258	0.127079	0	0.845854	2.25636187	37960.995	69214.55	0	0.012937	1.36154	0	5.98077	10.90478	0	0.278523	29.31358	0	0	0
Total					20886.74608	1422817.05	164492.7	262.8695	663.2795	0	101.7784	381.4169	275.6691	695.7574	0	408.3794	1093.49127	21844462	2.67E+08	0	11.41897	5254.246	0	3441.604	42032.22	0	245.8473	113122.5	0	0	0

ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	NO2	CO2e
0.12	1.773	1.87	0.00	0.00	0.00	288.63	0.01	0.05	302.3132

Haul

Vehicle Category	Fuel	Population		Vehicle Mix	NOx_RUNEX	NOx_IDLEX	NOx_STREX	PM2.5_RUNEX	PM2.5_IDLEX	PM2.5_STREX	PM2.5_PMTW	PM2.5_PMBW	PM10_RUNEX	PM10_IDLEX	PM10_STREX	PM10_PMTW	PM10_PMBW	CO2_RUNEX	CO2_IDLEX	CO2_STREX	CH4_RUNEX	CH4_IDLEX	CH4_STREX	N2O_RUNEX	N2O_IDLEX	N2O_STREX	ROG_RUNEX	ROG_IDLEX	ROG_STREX	ROG_HOTSO	ROG_RUNL
T7 CAIRP Class 8	Diesel		2839.968029	17.41%	8783.060061	313896.146	51761.88	174.4791	123.7691	0	52.43808	156.6128	183.1771	129.9391	0	210.6825	449.449552	8064984.1	62949691	0	3.196034	1413.917	0	1270.642	9917.75	0	68.80973	30441.25	0	0	0
T7 NNOOS Class 8	Diesel		2641.891717	16.20%	7123.244529	390539.3	48030.56	147.6898	134.5222	0	45.9208	138.8538	154.3677	140.6047	0	183.6832	396.725218	6884929.6	66904161	0	2.752224	1534.525	0	1084.723	10540.78	0	59.25464	33037.9	0	0	0
T7 NOOS Class 8	Diesel		1141.542001	7.00%	3154.947858	168749.151	20731.35	67.56782	58.12604	0	19.84204	59.41806	70.62294	60.75424	0	79.36816	169.765881	3042567.8	29473447	0	1.221689	663.0569	0	479.3578	4643.554	0	26.30262	14275.43	0	0	0
T7 Other Port Class 8	Diesel		51.96465427	0.32%	151.9462763	1943.00744	992.1147	1.840321	0.729712	0	0.943628	3.209233	1.928501	0.764676	0	3.784259	9.19291875	160686.16	394597.6	0	0.050334	8.256044	0	25.31617	62.16902	0	1.083684	177.7504	0	0	0
T7 POAK Class 8	Diesel		236.2396701	1.45%	723.0877802	8747.31238	4514.829	8.559124	3.275134	0	4.235241	14.29921	8.963471	3.429856	0	16.9738	40.9340714	733682.58	1761358	0	0.234657	37.42582	0	115.592	277.5027	0	5.052109	805.7675	0	0	0
T7 POLA Class 8	Diesel		303.2559526	1.86%	1051.626433	11594.6621	5554.32	12.82469	4.126277	0	5.335897	17.81443	13.42319	4.318838	0	21.37323	50.9690664	979391.11	2405961	0	0.339713	47.13516	0	154.3035	379.0601	0	7.313923	1014.807	0	0	0
T7 Public Class 8	Diesel		539.8486708	3.31%	5981.918144	13554.099	19189.93	33.60641	23.73062	0	9.732961	41.5104	35.48324	25.05591	0	39.32786	119.80755	1920274.3	1625571	0	4.041193	28.18169	0	302.54	256.1094	0	87.00578	606.7441	0	0	0
T7 Single Concrete/Transit Mix	Diesel		222.2871578	1.36%	499.8643827	4625.48168	6715.627	6.733347	1.900993	0	4.347538	14.13048	7.053231	1.991304	0	17.42828	40.4613397	721359.61	940967.1	0	0.193325	20.54074	0	113.6505	148.2498	0	4.162226	442.2365	0	0	0
T7 Single Dump Class 8	Diesel		303.9250287	1.86%	838.3687885	6401.25107	8050.603	10.92432	3.531726	0	5.641579	18.05692	11.46469	3.706421	0	22.65806	51.8009449	992876.12	1357602	0	0.344472	26.66992	0	156.428	213.8908	0	7.416391	574.1961	0	0	0

T7 Single Other Class 8	Diesel		1363.343272	8.36%	3276.349296	28087.5015	37416.2	42.4378	14.67946	0	25.33297	81.26131	44.46993	15.38239	0	101.5907	232.768098	4311421	5746636	0	1.377342	120.1274	0	679.2661	905.3848	0	29.65379	2586.31	0	0	0
T7 SWCV Class 8	Diesel		301.2213994	1.85%	3232.590181	8881.64377	8918.832	9.475356	11.64014	0	5.324231	43.48122	9.890002	12.14951	0	21.26727	124.059099	2198445.2	1012230	0	0.750891	16.56462	0	346.3659	159.4773	0	16.16647	356.6317	0	0	0
T7 Tractor Class 8	Diesel		6320.558182	38.75%	18709.18247	242417.404	204837.3	275.9516	91.69253	0	113.376	352.3048	289.0687	96.05103	0	454.51	1008.8177	18263916	48550342	0	7.090324	1006.956	0	2877.487	7649.126	0	152.6527	21679.49	0	0	0
T7 Utility Class 8	Diesel		44.13378617	0.27%	115.3622533	321.700222	1833.941	0.628764	0.117325	0	0.816244	3.048328	0.657247	0.12264	0	3.265245	8.71022046	146540.61	66797.13	0	0.049939	1.313986	0	23.08753	10.52391	0	1.075181	28.28976	0	0	0
Total					53641.54845	1199758.66	418547.5	792.7185	471.8412	0	293.2872	944.001	830.5698	494.2706	0	1175.913	2703.46166	48421074	2.23E+08	0	21.64214	4924.67	0	7628.76	35163.57	0	465.9493	106026.8	0	0	0

ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	NO2	CO2e
0.12	1.84	1.68	0.00	0.01	0.00	271.61	0.00	0.04	284.4862

New Fresno Courthouse Project

On Road Operational Emissions (2033)

EMFAC 2021 with USEPA Adjustment Factors

VMT	16,765,647
Trips	2,432,378
Vehicles	1,216,189

Air Quality Emissions (tons)						GHG Emissions (metric ton)			
ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	NO2	CO2e
4.17	5.22	22.97	0.06	5.94	1.536	5897.75	0.26	0.36	6012.821

Vehicle Cat	Fuel	Vehicle Mix	NOx_RUNE	NOx_IDLEX	NOx_STREX	PM2.5_RUN	PM2.5_IDLEX	PM2.5_STR	PM2.5_PMT	PM2.5_PMB	PM10_RUN	PM10_IDLE	PM10_STRE	PM10_PMT
All Other B	Diesel	0.01%	4216.837	532.619	385.0717	82.58327	1.8056587	0	6.825773	36.74098	86.29	1.886705	0	27.29445
All Other B	Natural Ga	0.00%	7.421618	11.24472	0	0.171418	0.0406796	0	0.314877	1.694885	0.186433	0.044243	0	1.259509
LDA	Gasoline	41.49%	160337.3	0	190031.8	4762.089	0	1327.171	13912.94	14283.5	5179.206	0	1443.419	55651.76
LDA	Diesel	0.04%	368.7774	0	0	23.92226	0	0	13.76285	14.36173	25.00392	0	0	55.05141
LDA	Electricity	4.35%	0	0	0	0	0	0	1459.105	1120.1	0	0	0	5836.421
LDA	Plug-in Hyb	1.79%	773.5523	0	4925.066	87.95772	0	56.41171	599.9351	393.1508	95.66204	0	61.35288	2399.741
LDT1	Gasoline	3.26%	29027.04	0	21463.5	505.0029	0	142.0154	1091.719	1363.288	549.2367	0	154.4547	4366.877
LDT1	Diesel	0.00%	2.55442	0	0	0.350268	0	0	0.015304	0.018905	0.366106	0	0	0.061215
LDT1	Electricity	0.04%	0	0	0	0	0	0	12.39486	9.492905	0	0	0	49.57943
LDT1	Plug-in Hyb	0.03%	12.37495	0	82.78156	0.990831	0	0.648461	10.08384	6.648084	1.077619	0	0.705261	40.33535
LDT2	Gasoline	22.17%	123520.4	0	128026.2	2674.858	0	725.1844	7433.786	9052.781	2909.152	0	788.7042	29735.14
LDT2	Diesel	0.07%	349.4831	0	0	45.97554	0	0	24.90504	29.98273	48.05435	0	0	99.62018
LDT2	Electricity	0.50%	0	0	0	0	0	0	169.2784	129.7854	0	0	0	677.1136
LDT2	Plug-in Hyb	0.41%	173.8827	0	1136.119	16.61308	0	10.65655	138.3936	91.03376	18.06824	0	11.58997	553.5742
LHD1	Gasoline	1.34%	17735.91	528.8436	17964.61	340.9568	0	6.35891	536.8799	7328.41	371.0035	0	6.919286	2148.573
LHD1	Diesel	1.09%	189363.3	23116.02	0	6198.545	387.91611	0	615.297	5599.203	6636.83	415.3448	0	2521.215
LHD1	Electricity	0.25%	0	0	0	0	0	0	0	0	0	0	0	0
LHD2	Gasoline	0.19%	2764.909	77.42293	2828.213	41.93601	0	0.713122	75.1313	1196.466	45.60632	0	0.775535	300.506
LHD2	Diesel	0.46%	77379.96	9487.942	0	2627.517	165.91188	0	260.063	2761.002	2803.076	176.9974	0	1061.749
LHD2	Electricity	0.06%	0	0	0	0	0	0	0	0	0	0	0	0
MCY	Gasoline	1.95%	169518.1	0	5130.88	554.1277	0	139.1172	327.662	1376.18	593.8527	0	148.8056	1310.648
MDV	Gasoline	15.25%	114128.4	0	108922.6	1981.993	0	559.9866	5114.572	6399.658	2155.598	0	609.0365	20458.29
MDV	Diesel	0.21%	1052.225	0	0	99.698	0	0	68.87881	88.13343	104.2059	0	0	275.5152
MDV	Electricity	0.49%	0	0	0	0	0	0	165.457	126.9882	0	0	0	661.8278
MDV	Plug-in Hyb	0.27%	113.5513	0	736.9089	11.95376	0	7.793622	89.76479	59.02607	13.00081	0	8.476274	359.0592
MH	Gasoline	0.13%	3867.255	0	1494.348	28.79767	0	0.991581	65.7849	345.7354	31.32009	0	1.078435	263.1396
MH	Diesel	0.08%	53657.61	0	0	1120.923	0	0	56.72086	222.5531	1171.606	0	0	226.8835
Motor Coac	Diesel	0.01%	2152.941	3987.091	397.2408	36.87412	1.6381043	0	4.164829	38.12097	38.26453	1.699872	0	16.53964
OBUS	Gasoline	0.03%	1688.986	20.67064	279.9869	5.896072	0	0.209681	16.06211	84.11352	6.410515	0	0.227976	64.22838
OBUS	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
PTO	Diesel	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
PTO	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
SBUS	Gasoline	0.04%	1623.49	441.3358	938.4752	6.095145	0	0.593807	13.98781	109.9511	6.621647	0	0.6451	55.88895
SBUS	Diesel	0.10%	36567.69	18524.56	1813.14	209.8501	10.333678	0	53.48191	280.2629	224.4583	11.05303	0	218.9211
SBUS	Electricity	0.01%	0	0	0	0	0	0	0	0	0	0	0	0
SBUS	Natural Ga	0.02%	1444.909	1640.984	0	15.96344	4.9670779	0	14.17568	74.28523	17.35648	5.400525	0	56.68564
T6 CAIRP C	Diesel	0.00%	102.4799	61.72463	28.46286	2.186275	0.0234135	0	1.129163	5.574239	2.296324	0.024592	0	4.53878
T6 CAIRP C	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
T6 CAIRP C	Diesel	0.00%	127.4464	77.58033	35.77424	2.687797	0.0247289	0	1.417497	6.997631	2.820502	0.02595	0	5.692542
T6 CAIRP C	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
T6 CAIRP C	Diesel	0.01%	528.6888	334.7308	157.6209	11.22385	0.1172649	0	6.070885	29.9696	11.76299	0.122898	0	24.34905
T6 CAIRP C	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
T6 CAIRP C	Diesel	0.01%	801.4468	478.8335	214.0784	17.05708	0.1446087	0	8.770044	43.29429	17.83907	0.151238	0	35.10133
T6 CAIRP C	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate [	Diesel	0.04%	4929.628	4617.096	1608.967	32.31148	2.927163	0	22.43463	124.4899	34.29731	3.107063	0	91.13311
T6 Instate [	Electricity	0.01%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate [	Diesel	0.05%	5606.659	5904.437	2091.929	27.99759	2.5577474	0	28.88736	160.2962	29.51968	2.6968	0	116.5609
T6 Instate [	Electricity	0.01%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate [	Diesel	0.11%	14052.42	13599.09	4787.351	83.16262	7.4684583	0	66.13212	366.9676	87.72602	7.878276	0	266.9727
T6 Instate [	Electricity	0.02%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate [	Diesel	0.05%	8890.522	5952.404	1996.035	27.75457	1.93728	0	27.49571	152.5739	29.14835	2.034567	0	110.5093
T6 Instate [	Electricity	0.01%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate [	Natural Ga	0.00%	12.03467	69.29789	0	0.367114	0.2696091	0	0.597796	3.317175	0.398738	0.292834	0	2.387998
T6 Instate (	Diesel	0.07%	8076.267	10149.88	3705.492	90.27205	10.112453	0	45.78276	239.6316	96.0107	10.75531	0	186.347
T6 Instate (	Electricity	0.02%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate (	Diesel	0.19%	17528.36	26405.01	10060.3	149.8175	10.637033	0	121.291	634.8496	157.4442	11.17853	0	487.8059
T6 Instate (	Electricity	0.04%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate (	Diesel	0.17%	17327.67	23363.66	8635.929	177.8648	18.055865	0	105.3	551.151	187.8764	19.07219	0	425.6619
T6 Instate (	Electricity	0.04%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate (	Diesel	0.12%	18705.44	16340.35	5846.863	124.7645	9.177903	0	71.47801	374.1232	131.6944	9.687679	0	288.7373
T6 Instate (	Electricity	0.01%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate (	Natural Ga	0.00%	18.77599	135.363	0	0.540365	0.5510923	0	1.138098	5.956922	0.587092	0.598746	0	4.547708
T6 Instate T	Diesel	0.00%	195.5521	219.71	83.851	2.121346	0.1986499	0	1.013852	5.306607	2.24313	0.210054	0	4.102719
T6 Instate T	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate T	Diesel	0.15%	17917.36	18497.79	6583.581	121.5208	7.3820315	0	80.39435	420.7923	127.57	7.749501	0	322.9814
T6 Instate T	Electricity	0.01%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate T	Natural Ga	0.00%	24.35969	174.9576	0	0.668647	0.6825654	0	1.409363	7.376751	0.726745	0.741872	0	5.633805
T6 OOS Cla	Diesel	0.00%	61.25684	44.41921	18.256	1.360756	0.0204742	0	0.631944	3.119659	1.422283	0.0214	0	2.527774
T6 OOS Cla	Diesel	0.00%	69.3771	54.93477	22.95448	1.525888	0.0159075	0	0.791035	3.905031	1.594882	0.016627	0	3.164139
T6 OOS Cla	Diesel	0.01%	289.9985	236.3009	98.2294	6.76976	0.0911578	0	3.387982	16.72515	7.075859	0.09528	0	13.55193
T6 OOS Cla	Diesel	0.01%	385.2332	302.0262	126.6242	8.51378	0.0721027	0	4.372791	21.58677	8.898735	0.075363	0	17.49117
T6 Public C	Diesel	0.01%	3935.047	2946.8	246.5336	20.97993	2.7022602	0	4.657393	25.08671	22.50123	2.898207	0	19.1161
T6 Public C	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	0.00%	11.09038	94.02456	0	0.280738	0.3586143	0	0.520449	2.80336	0.305222	0.38989	0	2.081071
T6 Public C	Diesel	0.01%	3202.613	3344.445	469.21	16.2592	1.4934022	0	7.242848	39.01308	17.28594	1.587708	0	29.46845
T6 Public C	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	0.00%	41.95293	207.638	0	0.529518	0.6416818	0	1.133893	6.107631	0.575332	0.6972	0	4.531102
T6 Public C	Diesel	0.01%	4336.546	3937.276	568.3405	25.06308	3.0328514	0	8.504324	45.80792	26.79062	3.241899	0	34.78902
T6 Public C	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	0.00%	26.01708	199.4042	0	0.579544	0.7361661	0	1.095756	5.902211	0.630129	0.800422	0	4.381787
T6 Public C	Diesel	0.03%	9311.517	8087.597	1328.475	53.41678	6.7210271	0	19.49054	104.9844	57.17374	7.193738	0	79.83569
T6 Public C	Electricity	0.01%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	0.00%	71.26987	505.2953	0	1.465174	1.8346571	0	2.818807	15.1833	1.593916	1.995865	0	11.2781
T6 Utility C	Diesel	0.01%	445.2283	651.2099	264.2667	3.229461	0.1870695	0	4.128023	21.91133	3.381581	0.195881	0	16.54192
T6 Utility C	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Utility C	Natural Ga	0.00%	0.207549	0.877137	0	0.004438	0.0032678	0	0.009298	0.049356	0.004824	0.003552	0	0.037173
T6 Utility C	Diesel	0.00%	82.59149	123.6652	50.37663	0.600514	0.0353638	0	0.780365	4.142135	0.628089	0.036988	0	3.123563
T6 Utility C	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Utility C	Natural Ga	0.00%	0.050041	0.179905	0	0.000878	0.0006474	0	0.00192	0.010191	0.000953	0.000703	0	0.007672
T6 Utility C	Diesel	0.00%	89.10302	138.0318	55.69299	0.680891	0.0405098	0	0.893922	4.744889	0.712223	0.042374	0	3.578427
T6 Utility C	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Utility C	Natural Ga	0.00%	0.044155	0.179213	0	0.000939	0.0006924	0	0.001987	0.010545	0.00102	0.000752	0	0.007937

Vehicle Cat	Fuel	PM10_PMB	CO2_RUNEX	CO2_IDLEX	CO2_STREX	CH4_RUNE	CH4_IDLEX	CH4_STREX	N2O_RUNE	N2O_IDLEX	N2O_STREX	ROG_RUNE	ROG_IDLEX	ROG_STREX	ROG_HOTS	ROG_RUNL
All Other B	Diesel	104.941	2415708.4	96495.12	0	12.11638	0.580674	0	380.5958	15.20285	0	260.8623	12.50174	0	0	0
All Other B	Natural Ga	4.84253	95148.193	8879.042	0	89.80168	26.56914	0	19.39658	1.810051	0	1.283089	0.379621	0	0	0
LDA	Gasoline	40809.99	1.678E+09	0	59284715	8212.591	0	44583.94	23623.28	0	27960.85	26677.37	0	185630.3	62173.46	193506.3
LDA	Diesel	41.03352	1349719.5	0	0	2.507724	0	0	212.6489	0	0	53.98983	0	0	0	0
LDA	Electricity	3200.284	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LDA	Plug-in Hyb	1123.288	34704690	0	2554669	98.95354	0	1742.185	133.5307	0	846.3747	320.9673	0	7276.551	1835.923	2825.876
LDT1	Gasoline	3895.11	158593425	0	5838729	1436.155	0	5388.372	2866.242	0	2581.103	5844.388	0	25868.49	10342.34	31546.27
LDT1	Diesel	0.054013	2624.8541	0	0	0.027413	0	0	0.413547	0	0	0.59019	0	0	0	0
LDT1	Electricity	27.12259	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LDT1	Plug-in Hyb	18.99453	555791.09	0	46953.41	1.592909	0	29.50331	2.16243	0	14.43703	5.134695	0	122.3058	18.04115	16.96802
LDT2	Gasoline	25865.09	1.091E+09	0	39414262	5901.524	0	29825.31	14868.27	0	17269.12	20218.91	0	127639.9	34723.11	110976.3
LDT2	Diesel	85.66496	3179533.2	0	0	5.82661	0	0	500.9368	0	0	125.4435	0	0	0	0
LDT2	Electricity	370.8155	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LDT2	Plug-in Hyb	260.0964	7804270.2	0	692649.9	22.27783	0	403.0264	30.10706	0	196.3292	72.14852	0	1678.561	289.0503	320.8216
LHD1	Gasoline	20948.58	199428880	2056278	911167.6	717.5909	1739.006	883.2572	1105.996	49.28756	1604.219	2859.603	5850.55	3946.485	1144.712	7094.267
LHD1	Diesel	16387.9	126840788	1870440	0	1290.265	73.44243	0	19983.82	294.6885	0	27778.65	1581.172	0	0	0
LHD1	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LHD2	Gasoline	3418.256	32618268	341206.7	125967.1	85.22849	248.5221	129.7276	189.6859	6.669691	231.3973	323.9861	861.2437	592.6592	186.5341	1170.991
LHD2	Diesel	8051.599	62362380	1253696	0	559.7453	31.2669	0	9825.218	197.5203	0	12050.99	673.158	0	0	0
LHD2	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MCY	Gasoline	3931.943	60371804	0	2093704	45569.37	0	7611.702	12180.87	0	310.7939	285447.5	0	55100.54	172228	189624.3
MDV	Gasoline	18284.74	927218108	0	34232572	4980.221	0	25089.42	11825.57	0	12890.19	18498.67	0	116434.3	33747.81	111871.3
MDV	Diesel	251.8098	12290844	0	0	11.12541	0	0	1936.427	0	0	239.5236	0	0	0	0
MDV	Electricity	362.8235	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MDV	Plug-in Hyb	168.6459	5096479.7	0	552952.5	14.51556	0	260.6338	19.57445	0	126.5992	47.11542	0	1088.748	225.0729	315.3528
MH	Gasoline	987.8154	42710525	0	96642.05	126.7017	0	108.2122	342.08	0	167.2167	424.3471	0	413.826	21785.54	548.7119
MH	Diesel	635.8659	15377905	0	0	77.64674	0	0	2422.795	0	0	1671.689	0	0	0	0
Motor Coac	Diesel	108.1346	2213648.7	932682.4	0	0.781267	18.42789	0	348.7613	146.9445	0	16.82047	396.7475	0	0	0
OBUS	Gasoline	240.2493	8347542.1	134593.3	22519.87	45.81472	65.78945	23.97832	91.66564	1.71779	21.36089	206.8024	241.7765	122.5523	27.02175	152.5313
OBUS	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PTO	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PTO	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SBUS	Gasoline	313.7963	5454679	1267328	53653.02	23.34678	1287.506	71.34106	128.5992	41.33929	86.7636	101.9726	5268.563	377.3132	153.4703	514.4551
SBUS	Diesel	819.4422	19433433	2772945	0	28.4046	9.587415	0	3061.745	436.8786	0	611.5432	206.4144	0	0	0
SBUS	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SBUS	Natural Ga	212.1797	5264423.5	1385284	0	12686.59	4524.84	0	1073.187	282.3992	0	181.2664	64.65104	0	0	0
T6 CAIRP C	Diesel	16.00442	375294.49	13939.41	0	0.101369	0.059539	0	59.1278	2.19616	0	2.182445	1.281867	0	0	0
T6 CAIRP C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 CAIRP C	Diesel	20.07276	472181.34	17582.48	0	0.121591	0.075059	0	74.39236	2.770126	0	2.61783	1.61601	0	0	0
T6 CAIRP C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 CAIRP C	Diesel	85.85843	1991242.2	73633.75	0	0.515332	0.321576	0	313.721	11.60103	0	11.09496	6.923437	0	0	0
T6 CAIRP C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 CAIRP C	Diesel	123.7726	2631917.1	106936.3	0	0.785421	0.474194	0	414.6596	16.84786	0	16.90989	10.20928	0	0	0
T6 CAIRP C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate [	Diesel	361.2131	8058530.5	1002916	0	4.008332	4.066884	0	1269.625	158.0099	0	86.29829	87.55889	0	0	0
T6 Instate [	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate [	Diesel	461.9982	10289567	1275706	0	3.723818	5.199511	0	1621.125	200.988	0	80.17277	111.9441	0	0	0
T6 Instate [	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate [	Diesel	1058.167	23471663	2919810	0	10.51361	12.04211	0	3697.97	460.0173	0	226.3551	259.2634	0	0	0
T6 Instate [	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate [	Diesel	438.0119	10252923	1317121	0	4.343158	5.058264	0	1615.352	207.513	0	93.507	108.903	0	0	0
T6 Instate [	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate [	Natural Ga	9.465013	208020.76	64171.81	0	173.2914	165.0507	0	42.40639	13.08184	0	2.475992	2.358249	0	0	0
T6 Instate (	Diesel	696.6852	15835319	2196535	0	7.544527	9.270482	0	2494.861	346.065	0	162.4316	199.5909	0	0	0
T6 Instate (	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate (	Diesel	1823.733	41173292	5687729	0	12.22186	23.55282	0	6486.869	896.104	0	263.1333	507.0857	0	0	0
T6 Instate (	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate (	Diesel	1591.399	35992924	4983054	0	15.09528	21.0441	0	5670.7	785.0821	0	324.9972	453.0738	0	0	0
T6 Instate (	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate (	Diesel	1079.486	24871402	3677464	0	10.53207	14.03629	0	3918.499	579.3859	0	226.7527	302.1975	0	0	0
T6 Instate (	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate (	Natural Ga	17.00227	328809.48	126452.3	0	256.8556	329.5333	0	67.02996	25.77812	0	3.66996	4.708381	0	0	0
T6 Instate T	Diesel	15.33861	339722.65	47868.58	0	0.164764	0.203119	0	53.52344	7.541714	0	3.547316	4.373089	0	0	0
T6 Instate T	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate T	Diesel	1207.513	26456462	4047311	0	10.0995	16.00361	0	4168.226	637.6556	0	217.4394	344.5534	0	0	0
T6 Instate T	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate T	Natural Ga	21.0628	407754.35	156673.9	0	324.4704	416.3129	0	83.12339	31.939	0	4.636042	5.94829	0	0	0
T6 OOS Cla	Diesel	8.913313	208579.74	7807.07	0	0.073327	0.036187	0	32.86182	1.230007	0	1.578711	0.779096	0	0	0
T6 OOS Cla	Diesel	11.15723	262077.73	9830.611	0	0.073887	0.044164	0	41.29045	1.548817	0	1.590776	0.950839	0	0	0
T6 OOS Cla	Diesel	47.78614	1107614.8	41213.52	0	0.341107	0.191947	0	174.5052	6.493207	0	7.343935	4.13257	0	0	0
T6 OOS Cla	Diesel	61.67648	1319522.1	53623.21	0	0.392596	0.242318	0	207.8912	8.448359	0	8.452495	5.217042	0	0	0
T6 Public C	Diesel	73.54821	1795659.3	349534.2	0	2.48331	1.222494	0	282.9069	55.06926	0	53.46499	26.31995	0	0	0
T6 Public C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	8.006815	160484.41	78777.52	0	150.9631	222.9882	0	32.7158	16.05931	0	2.156965	3.186062	0	0	0
T6 Public C	Diesel	113.3783	2734240.5	537621.9	0	3.257581	2.058112	0	430.7807	84.70254	0	70.13483	44.31059	0	0	0
T6 Public C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	17.43318	358421.47	165891.2	0	319.0425	553.8858	0	73.06656	33.818	0	4.558488	7.913936	0	0	0
T6 Public C	Diesel	133.849	3249847.1	623184.9	0	3.163366	2.339721	0	512.0147	98.18304	0	68.10639	50.37356	0	0	0
T6 Public C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	16.8587	345361.16	168424.4	0	317.1487	479.772	0	70.40413	34.33443	0	4.531429	6.854995	0	0	0
T6 Public C	Diesel	307.1637	7353501.8	1388305	0	6.580225	5.373225	0	1158.547	218.7281	0	141.6704	115.6841	0	0	0
T6 Public C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	43.39191	872216.09	421232.8	0	807.458	1255.253	0	177.807	85.87106	0	11.53698	17.93508	0	0	0
T6 Utility C	Diesel	62.7169	1361035.7	138188.6	0	0.333342	0.611901	0	214.4317	21.77167	0	7.17676	13.17407	0	0	0
T6 Utility C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Utility C	Natural Ga	0.140938	2619.205	713.9306	0	2.370657	2.157674	0	0.533942	0.145539	0	0.033872	0.030829	0	0	0
T6 Utility C	Diesel	11.84265	256510.76	26044.35	0	0.062167	0.11572	0	40.41337	4.103297	0	1.338431	2.491419	0	0	0
T6 Utility C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Utility C	Natural Ga	0.029087	546.80804	147.676	0	0.484311	0.459091	0	0.11147	0.030105	0	0.00692	0.00656	0	0	0
T6 Utility C	Diesel	13.56721	292563.33	29787.5	0	0.068833	0.130931	0	46.09347	4.693033	0	1.481949	2.818915	0	0	0
T6 Utility C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Utility C	Natural Ga	0.030093	561.04147	152.7221	0	0.502349	0.461188	0	0.114372	0.031133	0	0.007178	0.006589	0	0	0

Vehicle Cat	Fuel	ROG_DIURI	TOG_RUNE	TOG_IDLEX	TOG_STREX	TOG_HOTS	TOG_RUNL	TOG_DIURI	NH3_RUNE	CO_RUNEX	CO_IDLEX	CO_STREX	SOx_RUNE	SOx_IDLEX	SOx_STREX
All Other B	Diesel	0	296.9718	14.23228	0	0	0	0	470.5905	771.0451	356.2155	0	22.87531	0.913751	0
All Other B	Natural Ga	0	91.6492	27.11576	0	0	0	0	111.2566	360.1752	80.76801	0	0	0	0
LDA	Gasoline	629916.2	38927.56	0	203241.8	62173.46	193506.3	629916.2	282716.8	3737268	0	2078086	16591.39	0	586.0898
LDA	Diesel	0	61.46383	0	0	0	0	0	21.33241	1142.571	0	0	12.78928	0	0
LDA	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LDA	Plug-in Hyb	14824.68	468.3547	0	7966.907	1835.923	2825.876	14824.68	5366.126	56555.34	0	55919.32	343.0912	0	25.2555
LDT1	Gasoline	100869.3	8528.118	0	28322.74	10342.34	31546.27	100869.3	21562.81	457993.5	0	258547	1567.857	0	57.72178
LDT1	Diesel	0	0.671892	0	0	0	0	0	0.023721	4.613711	0	0	0.024872	0	0
LDT1	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LDT1	Plug-in Hyb	123.6211	7.492535	0	133.9095	18.04115	16.96802	123.6211	86.99206	907.7534	0	939.9038	5.494561	0	0.464182
LDT2	Gasoline	362388.1	29503.38	0	139749.6	34723.11	110976.3	362388.1	150927	2353472	0	1371150	10788.3	0	389.6501
LDT2	Diesel	0	142.8091	0	0	0	0	0	38.60281	1300.737	0	0	30.12769	0	0
LDT2	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LDT2	Plug-in Hyb	2072.925	105.279	0	1837.813	289.0503	320.8216	2072.925	1222.022	12728.73	0	12899.52	77.15316	0	6.847549
LHD1	Gasoline	40209.08	4020.822	8226.323	4163.605	1103.04	6836.006	38745.3	10098.04	156012.4	61372.82	103451.8	1762.514	18.17298	8.052722
LHD1	Diesel	0	29093.75	1656.028	0	0	0	0	35148.76	71112.56	12056.93	0	1081.528	15.94859	0
LHD1	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LHD2	Gasoline	6999.047	458.3639	1218.457	629.1282	180.854	1135.334	6785.921	1433.637	19897.28	8729.369	13947.73	291.1323	3.045419	1.124311
LHD2	Diesel	0	12428.42	694.2408	0	0	0	0	15008.14	29838.49	5054.512	0	532.6045	10.70716	0
LHD2	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MCY	Gasoline	120418	348747.2	0	59938.5	172228	189624.3	120418	2946.453	3583906	0	375540.5	596.8367	0	20.6984
MDV	Gasoline	355995.5	26993.21	0	127480.9	33747.81	111871.3	355995.5	101528.6	1809828	0	1071457	9166.495	0	338.4238
MDV	Diesel	0	272.6817	0	0	0	0	0	106.7621	5499.331	0	0	116.462	0	0
MDV	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MDV	Plug-in Hyb	1763.515	68.75071	0	1192.042	225.0729	315.3528	1763.515	798.23	8312.429	0	8366.882	50.38389	0	5.466498
MH	Gasoline	5172.572	619.2063	0	453.0873	21785.54	548.7119	5172.572	986.7732	6726.492	0	8768.933	422.237	0	0.955405
MH	Diesel	0	1903.106	0	0	0	0	0	2406.279	5474.075	0	0	145.7135	0	0
Motor Coac	Diesel	0	19.14882	451.6668	0	0	0	0	301.2107	70.28644	5850.716	0	20.96193	8.831944	0
OBUS	Gasoline	1480.941	290.4738	339.5983	129.1585	26.01062	146.8237	1425.526	193.4812	4281.634	1800.845	2479.761	70.54166	1.137393	0.190306
OBUS	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PTO	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PTO	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SBUS	Gasoline	1664.93	141.1576	7293.114	391.8979	145.5898	488.0387	1579.439	291.3581	2340.077	38626.29	7800.95	51.32101	11.92381	0.504801
SBUS	Diesel	0	678.9013	229.1498	0	0	0	0	3090.72	2200.206	6976.089	0	168.9276	24.10418	0
SBUS	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SBUS	Natural Ga	0	11704.22	4174.464	0	0	0	0	4383.694	35260.86	8343.624	0	0	0	0
T6 CAIRP C	Diesel	0	1.939653	1.139262	0	0	0	0	60.90417	8.264386	42.01005	0	2.782267	0.103341	0
T6 CAIRP C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 CAIRP C	Diesel	0	2.318002	1.430924	0	0	0	0	77.07324	10.21342	53.07653	0	3.527373	0.131348	0
T6 CAIRP C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 CAIRP C	Diesel	0	9.581813	5.979209	0	0	0	0	320.7129	41.7462	221.1276	0	14.53306	0.537415	0
T6 CAIRP C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 CAIRP C	Diesel	0	16.88019	10.19135	0	0	0	0	550.2259	76.05974	378.8549	0	22.23067	0.903245	0
T6 CAIRP C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate [	Diesel	0	87.4947	88.77278	0	0	0	0	1349.197	458.9709	3161.752	0	64.89137	8.075992	0
T6 Instate [	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate [	Diesel	0	79.20069	110.5867	0	0	0	0	1728.767	502.7944	4028.246	0	83.08081	10.3004	0
T6 Instate [	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate [	Diesel	0	224.0709	256.6471	0	0	0	0	3947.82	1272.428	9234.087	0	189.2456	23.54163	0
T6 Instate [	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate [	Diesel	0	100.2759	116.7864	0	0	0	0	1844.393	740.2788	4262.326	0	90.36972	11.60916	0
T6 Instate [	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate [	Natural Ga	0	162.7867	155.0456	0	0	0	0	193.9708	697.7044	493.833	0	0	0	0
T6 Instate (	Diesel	0	162.8408	200.0937	0	0	0	0	2698.036	743.8136	6839.73	0	125.4177	17.39683	0
T6 Instate (	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate (	Diesel	0	250.6151	482.9618	0	0	0	0	7063.22	1523.22	17661.19	0	326.7126	45.13247	0
T6 Instate (	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate (	Diesel	0	318.5284	444.0557	0	0	0	0	6167.268	1573.312	15554.48	0	285.7849	39.56559	0
T6 Instate (	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate (	Diesel	0	234.6606	312.7366	0	0	0	0	4437.659	1369.314	10994.53	0	205.2935	30.35452	0
T6 Instate (	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate (	Natural Ga	0	227.8275	292.2917	0	0	0	0	339.8365	856.917	928.7717	0	0	0	0
T6 Instate T	Diesel	0	3.472445	4.280788	0	0	0	0	58.44377	16.55006	147.8099	0	2.657834	0.374502	0
T6 Instate T	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate T	Diesel	0	236.1819	374.2527	0	0	0	0	5450.113	1506.137	13554.37	0	236.5477	36.18709	0
T6 Instate T	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate T	Natural Ga	0	306.2775	392.9705	0	0	0	0	456.9599	1152.329	1249.119	0	0	0	0
T6 OOS Cla	Diesel	0	1.797242	0.886941	0	0	0	0	46.17551	6.853415	32.00367	0	1.975125	0.073928	0
T6 OOS Cla	Diesel	0	1.810977	1.082457	0	0	0	0	57.95334	7.652666	39.95319	0	2.481719	0.09309	0
T6 OOS Cla	Diesel	0	8.360511	4.704616	0	0	0	0	247.9345	33.74534	171.4609	0	10.48845	0.390267	0
T6 OOS Cla	Diesel	0	9.622522	5.939205	0	0	0	0	320.6713	43.42279	220.8139	0	12.49508	0.50778	0
T6 Public C	Diesel	0	57.69098	28.40034	0	0	0	0	243.0402	141.1735	837.2255	0	15.08275	2.935933	0
T6 Public C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	0	127.6332	188.5275	0	0	0	0	150.5996	434.3244	584.7421	0	0	0	0
T6 Public C	Diesel	0	74.21648	46.88934	0	0	0	0	402.2006	212.0012	1427.301	0	22.81352	4.485723	0
T6 Public C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	0	278.2966	483.1474	0	0	0	0	336.4653	974.2205	1042.032	0	0	0	0
T6 Public C	Diesel	0	72.71826	53.78463	0	0	0	0	487.8443	212.0567	1728.699	0	27.24578	5.224603	0
T6 Public C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	0	271.9146	411.3433	0	0	0	0	321.97	928.9152	1214.765	0	0	0	0
T6 Public C	Diesel	0	151.2812	123.5319	0	0	0	0	1128.683	431.7324	4032.782	0	60.8006	11.47886	0
T6 Public C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	0	685.2379	1065.253	0	0	0	0	813.8304	2350.573	2961.604	0	0	0	0
T6 Utility C	Diesel	0	6.105399	11.20742	0	0	0	0	220.0763	37.36831	416.2024	0	10.01863	1.017211	0
T6 Utility C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Utility C	Natural Ga	0	1.768389	1.609514	0	0	0	0	2.383556	6.196867	4.700401	0	0	0	0
T6 Utility C	Diesel	0	1.136055	2.114708	0	0	0	0	41.53664	7.048098	78.58476	0	1.888119	0.191707	0
T6 Utility C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Utility C	Natural Ga	0	0.369661	0.350412	0	0	0	0	0.503078	1.312065	0.946389	0	0	0	0
T6 Utility C	Diesel	0	1.228626	2.337052	0	0	0	0	45.91624	7.72203	86.90703	0	2.08542	0.212328	0
T6 Utility C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Utility C	Natural Ga	0	0.377399	0.346476	0	0	0	0	0.509823	1.326436	0.995927	0	0	0	0

T6TS	Gasoline	0.09%	2894.001	101.8752	946.1984	24.39951	0	1.160776	55.69887	292.7278	26.53417	0	1.26233	222.7743	836.2857	28986663
T6TS	Electricity	0.01%	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 CAIRP C	Diesel	0.36%	106165.3	519771.3	21171	2088.398	215.01193	0	627.8941	1937.752	2198.314	226.3284	0	2529.397	5575.717	90257703
T7 CAIRP C	Electricity	0.06%	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 NNOOS	Diesel	0.36%	82081.04	669891.6	20729.57	1724.744	230.7947	0	543.0386	1695.159	1802.729	241.2302	0	2172.154	4843.311	76708434
T7 NOOS C	Diesel	0.16%	36418.15	289817.7	8972.158	789.5422	99.851902	0	234.9423	727.3479	825.2418	104.3668	0	939.7692	2078.137	33537958
T7 Other Pc	Diesel	0.01%	1562.906	2770.629	366.594	17.96834	1.1286824	0	10.06028	35.35342	18.85558	1.184415	0	40.4014	101.4121	1554808.9
T7 Other Pc	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 POAK Cl	Diesel	0.03%	7910.337	13490.74	1784.559	89.91775	5.3120706	0	47.34806	164.1501	94.29187	5.57048	0	190.0138	470.5395	7485021.1
T7 POAK Cl	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 POLA Cl	Diesel	0.04%	10488.88	17170.5	2115.715	129.1812	6.3109278	0	56.25117	190.4137	135.5358	6.621371	0	225.8606	546.1086	9816923
T7 POLA Cl	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 POLA Cl	Natural Ga	0.00%	2.544977	22.11676	0	0.034484	0.0849221	0	0.133717	0.463527	0.03749	0.092324	0	0.534657	1.323838	16661.06
T7 Public C	Diesel	0.06%	48706.29	17828.77	8640.265	234.9979	20.968914	0	110.5804	464.5738	250.7488	22.37438	0	451.5516	1355.051	21025815
T7 Public C	Electricity	0.01%	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Public C	Natural Ga	0.01%	566.9131	780.8772	0	4.366512	2.7023827	0	13.90012	56.67618	4.746707	2.93768	0	55.57387	161.8544	2143693
T7 Single C	Diesel	0.02%	5843.624	7092.632	2631.755	76.22631	3.075694	0	49.84105	166.5498	80.02961	3.229155	0	200.2567	477.987	7822486.8
T7 Single C	Electricity	0.01%	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Single C	Natural Ga	0.00%	33.7686	155.8108	0	0.403284	0.5952807	0	1.775313	5.938374	0.438613	0.64743	0	7.101338	16.96699	201907.94
T7 Single D	Diesel	0.04%	9812.015	10410.91	3415.697	130.1236	4.7860413	0	67.18669	219.3841	137.1216	5.043435	0	270.9489	631.9479	11264300
T7 Single D	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Single D	Natural Ga	0.00%	60.99352	180.9409	0	0.417725	0.5676851	0	2.059569	6.769342	0.454112	0.617134	0	8.234607	19.33236	251911.66
T7 Single O	Diesel	0.18%	43626.96	50493.02	17406.9	578.1346	23.348814	0	336.2485	1101.697	608.5738	24.57815	0	1354.562	3170.096	54775922
T7 Single O	Electricity	0.03%	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Single O	Natural Ga	0.01%	263.1935	1021.746	0	2.567552	3.6690296	0	11.72413	38.4878	2.79195	3.989694	0	46.88817	109.9456	1386693.6
T7 SWCV C	Diesel	0.03%	23989.41	10606.92	3258.705	91.45879	12.179889	0	51.31001	419.0318	95.24085	12.68356	0	204.4815	1192.809	20211764
T7 SWCV C	Electricity	0.01%	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 SWCV C	Natural Ga	0.03%	5878.42	916.5261	0	16.07633	0.5116893	0	56.1571	458.6163	17.49508	0.556846	0	224.7646	1311.127	8399269.6
T7 Tractor (	Diesel	0.88%	230931.7	439289.4	94234.99	3500.968	165.37061	0	1441.063	4582.962	3675.444	173.6121	0	5789.736	13152.07	219192818
T7 Tractor (	Electricity	0.06%	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Tractor (	Natural Ga	0.01%	585.8167	4021.001	0	4.934215	13.822971	0	23.90726	75.86634	5.365113	15.03011	0	95.60596	216.7086	2874033.3
T7 Utility Cl	Diesel	0.01%	1313.543	512.9713	751.5736	7.290186	0.196269	0	9.411743	35.71931	7.629111	0.205394	0	37.6929	102.1797	1615513.7
T7 Utility Cl	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7IS	Gasoline	0.00%	44.82525	0	0.052443	0.022546	0	0.001078	0.079434	0.515655	0.024514	0	0.001172	0.31765	1.472894	28164.047
T7IS	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UBUS	Gasoline	0.01%	396.0047	0	187.5403	1.764635	0	0.165124	4.129124	53.69218	1.919201	0	0.179588	16.5165	153.4062	2398367.3
UBUS	Diesel	0.00%	125.4324	0	0	2.329907	0	0	2.699937	12.96112	2.435255	0	0	10.79975	37.03176	395120.01
UBUS	Electricity	0.02%	0	0	0	0	0	0	19.11018	49.32831	0	0	0	76.44072	140.938	0
UBUS	Natural Ga	0.01%	80.43757	0	0	0.625942	0	0	11.12211	52.85894	0.654245	0	0	44.48843	151.0255	1675305.9
Total		100.00%	#########	#########	#########	32012.11	1473.16	2979.18	36790.42	68921.42	34194.70	1558.95	3237.63	#########	#########	#########

T6TS	Gasoline	639567	104744.7	89.07189	338.0545	99.51141	210.5602	9.715905	85.47538	360.4437	1186.372	470.5756	54.64425	497.0686	2841.027
T6TS	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 CAIRP C	Diesel	1.03E+08	0	37.71828	2447.396	0	14220.14	16169.22	0	812.0642	52691.77	0	0	0	0
T7 CAIRP C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 NNOOS	Diesel	1.09E+08	0	31.76271	2632.742	0	12085.45	17106.71	0	683.8425	56682.2	0	0	0	0
T7 NOOS C	Diesel	47354948	0	14.13392	1139.04	0	5283.919	7460.791	0	304.2993	24523.22	0	0	0	0
T7 Other Pc	Diesel	544965.7	0	0.510385	12.64454	0	244.9608	85.85956	0	10.98844	272.2335	0	0	0	0
T7 Other Pc	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 POAK Cl	Diesel	2587705	0	2.523084	60.69888	0	1179.268	407.6939	0	54.32131	1306.83	0	0	0	0
T7 POAK Cl	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 POLA Cl	Diesel	3453201	0	3.399676	72.17181	0	1546.66	544.0532	0	73.1941	1553.839	0	0	0	0
T7 POLA Cl	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 POLA Cl	Natural Ga	16486.63	0	17.37422	51.39294	0	3.396466	3.360907	0	0.248243	0.734304	0	0	0	0
T7 Public C	Diesel	2542743	0	31.65043	44.22327	0	3312.626	400.6102	0	681.4252	952.1148	0	0	0	0
T7 Public C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Public C	Natural Ga	598966.4	0	2611.972	2051.615	0	437.0058	122.1032	0	37.31992	29.31353	0	0	0	0
T7 Single C	Diesel	1468355	0	2.150902	33.25526	0	1232.436	231.3399	0	46.30833	715.9766	0	0	0	0
T7 Single C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Single C	Natural Ga	114613.6	0	205.6233	374.1737	0	41.16025	23.36474	0	2.937951	5.346203	0	0	0	0
T7 Single D	Diesel	2229234	0	3.801755	44.41628	0	1774.695	351.2167	0	81.85073	956.2703	0	0	0	0
T7 Single D	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Single D	Natural Ga	137230.3	0	235.4375	491.299	0	51.35384	27.97529	0	3.363937	7.019694	0	0	0	0
T7 Single O	Diesel	10510188	0	17.04833	223.315	0	8629.969	1655.884	0	367.0458	4807.911	0	0	0	0
T7 Single O	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Single O	Natural Ga	775111.6	0	1344.438	2580.446	0	282.6866	158.0116	0	19.20936	36.86949	0	0	0	0
T7 SWCV C	Diesel	1340923	0	7.071208	23.46547	0	3184.372	211.2629	0	152.2412	505.2051	0	0	0	0
T7 SWCV C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 SWCV C	Natural Ga	2764823	0	7767.673	2421.094	0	1712.246	563.6272	0	335.3434	62.88198	0	0	0	0
T7 Tractor (	Diesel	84279686	0	82.76643	1845.136	0	34533.92	13278.3	0	1781.939	39725.28	0	0	0	0
T7 Tractor (	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Tractor (	Natural Ga	3022880	0	2668.15	9983.581	0	585.8905	616.2338	0	38.1226	142.6457	0	0	0	0
T7 Utility Cl	Diesel	105131.9	0	0.544382	2.138888	0	254.5248	16.56357	0	11.72039	46.04968	0	0	0	0
T7 Utility Cl	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7IS	Gasoline	0	99.38978	1.360257	0	0.000389	1.993101	0	0.002021	6.091968	0	0.002041	0.024891	0.228159	1.179763
T7IS	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UBUS	Gasoline	0	19752.36	5.021682	0	24.37866	32.53535	0	15.49385	17.17718	0	110.1015	5.435273	19.6661	42.21258
UBUS	Diesel	0	0	1.061199	0	0	62.25132	0	0	22.84731	0	0	0	0	0
UBUS	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UBUS	Natural Ga	0	0	5475.319	0	0	341.5221	0	0	79.60485	0	0	0	0	0
Total		#########	#########	#########	38447.49	#########	#########	65976.19	64407.72	#########	#########	#########	#########	#########	#########

T6TS	Gasoline	488.8219	1608.918	478.8426	50.78595	461.9718	2640.429	667.5468	6065.303	16415.69	8796.425	242.9924	5.361429	0.878065
T6TS	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 CAIRP C	Diesel	799.6181	51884.19	0	0	0	0	13246.89	2438.664	673336.4	0	763.3278	867.9531	0
T7 CAIRP C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 NNOOS	Diesel	778.5027	64528.37	0	0	0	0	13274.27	2376.801	837426.2	0	726.383	1028.181	0
T7 NOOS C	Diesel	346.4216	27917.82	0	0	0	0	5743.032	1054.169	362315.9	0	317.5844	448.423	0
T7 Other Pc	Diesel	11.17475	276.8491	0	0	0	0	215.7423	62.35053	3593.278	0	13.38132	4.690198	0
T7 Other Pc	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 POAK Cl	Diesel	56.45311	1358.116	0	0	0	0	1058.349	315.6177	17627.24	0	66.5801	23.01793	0
T7 POAK Cl	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 POLA Cl	Diesel	79.54393	1688.64	0	0	0	0	1315.919	544.0594	21917.18	0	90.1595	31.7145	0
T7 POLA Cl	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 POLA Cl	Natural Ga	16.41226	48.54745	0	0	0	0	14.5314	68.22783	156.4048	0	0	0	0
T7 Public C	Diesel	728.9829	1018.564	0	0	0	0	1981.448	2380.226	11513.6	0	177.7771	21.49935	0
T7 Public C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Public C	Natural Ga	2155.085	1692.746	0	0	0	0	1287.675	10630.64	4158.039	0	0	0	0
T7 Single C	Diesel	39.78913	615.1828	0	0	0	0	879.7579	184.0667	7982.527	0	57.60715	10.81341	0
T7 Single C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Single C	Natural Ga	154.4779	281.1042	0	0	0	0	150.4244	601.4574	851.2673	0	0	0	0
T7 Single D	Diesel	82.86111	968.0747	0	0	0	0	1382.746	427.0772	12479.62	0	94.34229	18.67058	0
T7 Single D	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Single D	Natural Ga	206.2491	430.3902	0	0	0	0	201.4545	1083.882	909.9029	0	0	0	0
T7 Single O	Diesel	362.5975	4749.644	0	0	0	0	6783.796	1707.431	61333.85	0	450.9154	86.51987	0
T7 Single O	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Single O	Natural Ga	1151.269	2209.687	0	0	0	0	1122.211	5007.108	5870.271	0	0	0	0
T7 SWCV C	Diesel	163.2062	541.5919	0	0	0	0	879.7898	339.0367	5938.131	0	185.5102	12.30743	0
T7 SWCV C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 SWCV C	Natural Ga	8094.818	2475.911	0	0	0	0	3124.96	66505.04	16777.67	0	0	0	0
T7 Tractor (	Diesel	1895.394	42254.57	0	0	0	0	32573.33	8397.05	547455.4	0	1967.934	756.6712	0
T7 Tractor (	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Tractor (	Natural Ga	2554.052	9556.655	0	0	0	0	2607.954	11347.81	25189.31	0	0	0	0
T7 Utility Cl	Diesel	11.64571	45.75624	0	0	0	0	191.8377	99.13273	593.2612	0	13.47846	0.87713	0
T7 Utility Cl	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T7IS	Gasoline	7.922941	0	0.001991	0.022185	0.203354	1.051501	0.578641	370.5491	0	10.40157	0.240952	0	0.00085
T7IS	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
UBUS	Gasoline	25.0649	0	120.5473	5.435273	19.6661	42.21258	63.6392	514.8978	0	1832.863	24.40717	0	0.201011
UBUS	Diesel	26.00993	0	0	0	0	0	74.18427	26.48508	0	0	3.747794	0	0
UBUS	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
UBUS	Natural Ga	5589.464	0	0	0	0	0	1333.977	64270.87	0	0	0	0	0
Total		#########	#########	#########	#########	#########	#########	#########	#########	#########	#########	50933.58	3662.31	1442.53

New Fresno Courthouse Project

On Road Operational Emissions -Mitigated (2033)

EMFAC 2021 with USEPA Adjustment Factors

VMT	12,021,482
Trips	1,744,090
Vehicles	872,045

Air Quality Emissions (tons)						GHG Emissions (metric ton)			
ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	NO2	CO2e
2.99	3.74	16.47	0.04	5.82	1.492	4228.87	0.19	0.26	4311.38

Vehicle Cat	Fuel	Vehicle Mix	NOx_RUNE	NOx_IDLEX	NOx_STREX	PM2.5_RUN	PM2.5_IDLEX	PM2.5_STR	PM2.5_PMT	PM2.5_PMB	PM10_RUN	PM10_IDLE	PM10_STRE	PM10_PMT	PM10_PMB	CO2_RUNEX	CO2_IDLEX	CO2_STREX	CH4_RUNE	CH4_IDLEX	CH4_STREX	N2O_RUNE	N2O_IDLEX	N2O_STREX	ROG_RUNE	ROG_IDLEX	ROG_STREX	ROG_HOTS	ROG_RUNL	ROG_DIURI	TOG_RUNE	TOG_IDLEX	TOG_STREX	TOG_HOTS	TOG_RUNL	TOG_DIURI	NH3_RUNE	CO_RUNEX	CO_IDLEX	CO_STREX	SOx_RUNE	SOx_IDLEX	SOx_STREX
All Other Bu	Diesel	0.01%	3023.601	381.9042	276.1083	59.21473	1.2947129	0	4.894288	26.3444	61.87257	1.352826	0	19.57096	75.2459	1732136.9	69189.97	0	8.687813	0.416361	0	272.8989	10.90091	0	187.0462	8.964135	0	0	0	0	212.9379	10.20499	0	0	0	0	337.4278	552.8629	255.4175	0	16.4023	0.655188	0
All Other Bu	Natural Ga	0.00%	5.321528	8.062809	0	0.122912	0.0291685	0	0.225777	1.215285	0.133678	0.031723	0	0.903107	3.472242	68224.166	6366.547	0	64.39055	19.05089	0	13.90794	1.297862	0	0.920014	0.2722	0	0	0	0	65.71528	19.44283	0	0	0	0	79.77442	258.2566	57.91316	0	0	0	0
LDA	Gasoline	41.49%	114966.7	0	136258.7	3414.563	0	951.6222	9976.004	10241.7	3713.649	0	1034.976	39904.01	29262.01	1.203E+09	0	42508968	5888.679	0	31968.06	16938.61	0	20048.79	19128.49	0	133102.7	44580.28	138750	451669.3	27912.25	0	145730.7	44580.28	138750	451669.3	202716.6	2679736	0	1490052	11896.53	0	420.2444
LDA	Diesel	0.04%	264.4247	0	0	17.153	0	0	9.868387	10.2978	17.92858	0	0	39.47355	29.42229	967790.17	0	0	1.798115	0	0	152.4757	0	0	38.71236	0	0	0	0	0	44.07145	0	0	0	0	0	15.29599	819.2587	0	0	9.170304	0	0
LDA	Electricity	4.35%	0	0	0	0	0	0	1046.223	803.1456	0	0	0	4184.893	2294.702	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LDA	Plug-in Hyb	1.79%	554.6607	0	3531.424	63.06838	0	40.44893	430.1719	281.9011	68.59261	0	43.99191	1720.687	805.4318	24884325	0	1831776	70.95272	0	1249.2	95.74559	0	606.8768	230.1434	0	5217.511	1316.413	2026.24	10629.75	335.8247	0	5712.518	1316.413	2026.24	10629.75	3847.676	40551.91	0	40095.88	246.0069	0	18.10897
LDT1	Gasoline	3.26%	20813.27	0	15389.99	362.1025	0	101.8294	782.7961	977.5195	393.8195	0	110.7488	3131.184	2792.913	113716339	0	4186548	1029.767	0	3863.629	2055.183	0	1850.73	4190.605	0	18548.51	7415.778	22619.65	72326.39	6114.922	0	20308.28	7415.778	22619.65	72326.39	15461.2	328395.3	0	185386.2	1124.202	0	41.38829
LDT1	Diesel	0.00%	1.831597	0	0	0.251153	0	0	0.010973	0.013555	0.262509	0	0	0.043893	0.038729	1882.1007	0	0	0.019656	0	0	0.296526	0	0	0.423184	0	0	0	0	0	0.481767	0	0	0	0	0	0.017009	3.308172	0	0	0.017834	0	0
LDT1	Electricity	0.04%	0	0	0	0	0	0	8.887492	6.806703	0	0	0	35.54997	19.44772	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LDT1	Plug-in Hyb	0.03%	8.87322	0	59.35693	0.710456	0	0.464967	7.23042	4.76688	0.772686	0	0.505694	28.92168	13.61966	398519.22	0	33667.04	1.142165	0	21.15478	1.550528	0	10.3518	3.681734	0	87.69703	12.93606	12.1666	88.64016	5.372377	0	96.01721	12.93606	12.1666	88.64016	62.37597	650.887	0	673.94	3.939768	0	0.332833
LDT2	Gasoline	22.17%	88567.88	0	91798.76	1917.955	0	519.9796	5330.252	6491.121	2085.951	0	565.5253	21321.01	18546.06	782472738	0	28261241	4231.573	0	21385.66	10661	0	12382.49	14497.57	0	91521.72	24897.54	79573.43	259843.4	21154.83	0	100204.8	24897.54	79573.43	259843.4	108219.3	1687512	0	983157.2	7735.54	0	279.3911
LDT2	Diesel	0.07%	250.5901	0	0	32.96587	0	0	17.85768	21.49854	34.45644	0	0	71.43072	61.4244	2279822.6	0	0	4.177858	0	0	359.187	0	0	89.94682	0	0	0	0	0	102.3985	0	0	0	0	0	27.67939	932.6684	0	0	21.60248	0	0
LDT2	Electricity	0.50%	0	0	0	0	0	0	121.3778	93.06011	0	0	0	485.5112	265.886	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LDT2	Plug-in Hyb	0.41%	124.6792	0	814.632	11.91208	0	7.641074	99.23242	65.27399	12.95548	0	8.310366	396.9297	186.4971	5595900.6	0	496651.3	15.97389	0	288.9824	21.58769	0	140.7741	51.7327	0	1203.58	207.258	230.039	1486.351	75.48823	0	1317.769	207.258	230.039	1486.351	876.2269	9126.888	0	9249.352	55.32117	0	4.909904
LHD1	Gasoline	1.34%	12717.19	379.1972	12881.18	244.4765	0	4.559534	384.9593	5254.695	266.0209	0	4.961341	1540.592	15020.78	142996610	1474414	653335.3	514.5347	1246.921	633.3226	793.0326	35.3407	1150.275	2050.423	4195.025	2829.751	820.7941	5086.808	28831.15	2883.052	5898.527	2985.433	790.9138	4901.627	27781.57	7240.601	111865.7	44006.2	74178.15	1263.776	13.03059	5.77405
LHD1	Diesel	1.09%	135779.3	16574.9	0	4444.546	278.14781	0	441.1868	4014.8	4758.81	297.815	0	1807.788	11750.62	90948727	1341163	0	925.1596	52.66048	0	14329.01	211.3008	0	19918.14	1133.749	0	0	0	0	20861.11	1187.423	0	0	0	0	25202.74	50989.88	8645.193	0	775.4883	11.43563	0
LHD1	Electricity	0.25%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LHD2	Gasoline	0.19%	1982.524	55.51463	2027.916	30.0694	0	0.51133	53.87144	857.9027	32.70113	0	0.556083	215.472	2450.994	23388296	244655.7	90322.29	61.11143	178.198	93.01867	136.0106	4.782374	165.919	232.3079	617.5383	424.9549	133.7507	839.6369	5018.532	328.6609	873.671	451.1043	129.6779	814.0694	4865.715	1027.961	14266.96	6259.227	10000.95	208.7507	2.183659	0.806166
LHD2	Diesel	0.46%	55483.8	6803.147	0	1884.01	118.96394	0	186.4731	1979.723	2009.891	126.9126	0	761.3067	5773.243	44715735	898938.7	0	401.3545	22.41933	0	7044.982	141.6282	0	8640.927	482.675	0	0	0	0	8911.554	497.7921	0	0	0	0	10761.29	21395.11	3624.241	0	381.8938	7.677366	0
LHD2	Electricity	0.06%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MCY	Gasoline	1.95%	121549.7	0	3678.999	397.3265	0	99.75134	234.9437	986.7633	425.8106	0	106.6982	939.7746	2819.324	43288431	0	1501251	32674.63	0	5457.825	8734.053	0	222.8488	204674.6	0	39508.79	123492.8	135966.5	86343.43	250062.4	0	42977.75	123492.8	135966.5	86343.43	2112.697	2569770	0	269274.1	427.9502	0	14.84139
MDV	Gasoline	15.25%	81833.58	0	78100.85	1421.149	0	401.5277	3667.304	4588.751	1545.63	0	436.698	14669.22	13110.72	664843761	0	24545809	3570.971	0	17989.88	8479.299	0	9242.665	13264.11	0	83486.97	24198.22	80215.15	255259.7	19354.96	0	91407.73	24198.22	80215.15	255259.7	72799.1	1297702	0	768267.9	6572.657	0	242.6603
MDV	Diesel	0.21%	754.4779	0	0	71.48652	0	0	49.38821	63.19437	74.71882	0	0	197.5529	180.5553	8812911.3	0	0	7.977261	0	0	1388.478	0	0	171.7457	0	0	0	0	0	195.5211	0	0	0	0	0	76.5517	3943.189	0	0	83.50681	0	0
MDV	Electricity	0.49%	0	0	0	0	0	0	118.6377	91.05444	0	0	0	474.5508	260.1555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MDV	Plug-in Hyb	0.27%	81.41973	0	528.3864	8.571213	0	5.588267	64.3641	42.3235	9.321976	0	6.07775	257.4564	120.9243	3654331.9	0	396484	10.4081	0	186.8825	14.03548	0	90.77556	33.7832	0	780.6657	161.3842	226.1177	1264.494	49.29637	0	854.7307	161.3842	226.1177	1264.494	572.3553	5960.266	0	5999.312	36.12679	0	3.919648
MH	Gasoline	0.13%	2772.94	0	1071.493	20.64881	0	0.710994	47.16979	247.9029	22.45747	0	0.773271	188.6791	708.2939	30624754	0	69295.33	90.84903	0	77.5915	245.2818	0	119.8995	304.2698	0	296.726	15620.91	393.4433	3708.893	443.9898	0	324.8776	15620.91	393.4433	3708.893	707.5466	4823.101	0	6287.595	302.7569	0	0.685055
MH	Diesel	0.08%	38474.15	0	0	803.7358	0	0	40.6706	159.5774	840.0772	0	0	162.6824	455.9353	11026428	0	0	55.67509	0	0	1737.218	0	0	1198.652	0	0	0	0	0	1364.586	0	0	0	0	0	1725.376	3925.079	0	0	104.481	0	0
Motor Coac	Diesel	0.01%	1543.724	2858.867	284.8339	26.43987	1.1745713	0	2.98631	27.33391	27.43684	1.218861	0	11.85943	77.53584	1587253.9	668762	0	0.560192	13.21337	0	250.0725	105.3637	0	12.06079	284.4802	0	0	0	0	13.73029	323.859	0	0	0	0	215.9773	50.39753	4195.143	0	15.03035	6.332776	0
OBUS	Gasoline	0.03%	1211.055	14.82148	200.7592	4.227664	0	0.150348	11.51702	60.31197	4.596536	0	0.163466	46.05371	172.2661	5985443.2	96507.58	16147.44	32.85055	47.17306	17.19319	65.72707	1.231708	15.31642	148.2837	173.3612	87.8738	19.37543	109.3696	1061.881	208.2786	243.5024	92.61064	18.65042	105.2771	1022.146	138.7319	3070.063	1291.261	1778.065	50.58053	0.815546	0.136455
OBUS	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PTO	Diesel	0.00%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PTO	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SBUS	Gasoline	0.04%	1164.092	316.4514	672.9157	4.370406	0	0.425778	10.02969	78.83832	4.747923	0	0.462557	40.07408	225.0016	3911171.8	908713	38470.87	16.74035	923.1812	51.15374	92.20959	29.64155	62.21217	73.11749	3777.722	270.5452	110.0429	368.8802	1193.806	101.2144	5229.388	281.0029	104.3924	349.9388	1132.506	208.9127	1677.907	27696.24	5593.521	36.79874	8.549737	0.361958
SBUS	Diesel	0.10%	26220.15	13282.68	1300.077	150.4689	7.4095654	0	38.34817	200.9571	160.9435	7.925366	0	156.9731	587.5651	13934366	1988287	0	20.36697	6.874472	0	2195.365	313.2554	0	438.4952	148.0055	0	0	0	0	486.793	164.3075	0	0	0	0	2216.141	1577.615	5002.071	0	121.1262	17.28344	0
SBUS	Electricity	0.01%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SBUS	Natural Ga	0.02%	1036.044	1176.636	0	11.44628	3.5615479	0	10.16439	53.26478	12.44512	3.872343	0	40.64534	152.1393	3774752.8	993291.4	0	9096.676	3244.45	0	769.508	202.4889	0	129.9736	46.35678	0	0	0	0	8392.284	2993.219	0	0	0	0	3143.243	25283.12	5982.635	0	0	0	0
T6 CAIRP C	Diesel	0.00%	73.48125	44.25847	20.40875	1.567626	0.0167882	0	0.809645	3.9969	1.646534	0.017633	0	3.254444	11.47566	269097.64	9994.986	0	0.072685	0.042692	0	42.39644	1.574714	0	1.56488	0.919138	0	0	0	0	1.390791	0.816886	0	0	0	0	43.67016	5.925818	30.1225	0	1.994971	0.074098	0
T6 CAIRP C	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 CAIRP C	Diesel	0.00%	91.38299	55.62749	25.65123	1.927233	0.0177314	0	1.016389	5.017516	2.022386	0.018607	0	4.081727	14.39278	338568.47	12607.18	0	0.087185	0.05382	0	53.3416	1.986266	0	1.877064	1.158729	0	0	0	0	1.662078	1.026016	0	0	0	0	55.26387	7.323332	38.05751	0	2.529234	0.09418	0
T6 CAIRP C	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 CAIRP C	Diesel	0.01%	379.0861	240.0123	113.0191	8.047843	0.0840826	0	4.35301	21.48912	8.434424	0.088122	0	17.45902	61.56312	1427781.6	52797.67	0	0.369509	0.23058	0	224.9476	8.318294	0	7.955425	4.964318	0	0	0	0	6.870453	4.287277	0	0	0	0	229.961	29.9333	158.5553	0	10.42065	0.385343	0
T6 CAIRP C	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 CAIRP C	Diesel	0.01%	574.6619	343.3384	153.5008	12.23045	0.1036889	0	6.28839	31.04333	12.79116	0.108443	0	25.16873	88.74873	1887165.1	76676.63	0	0.563171	0.340012	0	297.3236	12.08044	0	12.12491	7.320366	0	0	0	0	12.10361	7.307509	0	0	0	0	394.5288	54.53716	271.6506	0	15.94007	0.647655	0
T6 CAIRP C	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate D	Diesel	0.04%	3534.694	3310.6	1153.679	23.16832	2.0988661	0	16.08631	89.26307	24.59222	2.22786	0	65.34523	259.0008	5778213	719122	0	2.874097	2.916081	0	910.3598	113.298	0	61.87851	62.78242	0	0	0	0	62.73638	63.65282	0	0	0	0	967.4153	329.0962	2267.073	0	46.5291	5.790735	0
T6 Instate D	Electricity	0.01%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate D	Diesel	0.05%	4020.146	4233.663	1499.977	20.07513	1.8339837	0	20.71312	114.9373	21.16652	1.933689	0	83.57776	331.2669	7377934.3	914720.6	0	2.670091	3.72821	0	1162.397	144.1146	0	57.48633	80.26734	0	0	0	0	56.78932	79.29411	0	0	0	0	1239.579	360.5189	2888.377	0	59.57148	7.385707	0
T6 Instate D	Electricity	0.01%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate D	Diesel	0.11%	10076.01	9750.968	3432.678	59.63015	5.3551148	0	47.41875	263.127	62.90224	5.648967	0	191.4276	758.7379	16829901	2093594	0	7.53858	8.634566	0	2651.558	329.8466	0	162.3036	185.8998	0	0	0	0	160.6657	184.0238	0	0	0	0	2830.707	912.3699	6621.125	0	135.6949	16.88007	0
T6 Instate D	Electricity	0.02%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate D	Diesel	0.05%	6374.776	4268.057	1431.219	19.90087	1.3890895	0	19.71527	109.4002	20.90026	1.458847	0	79.23852	314.0679	7351659.7	944416.5	0	3.114177	3.626931	0	1158.257	148.7932	0	67.04738	78.08683	0	0	0	0	71.90087	83.73945	0	0	0	0	1322.486	530.8026	3056.219	0	64.79785	8.324129	0
T6 Instate D	Electricity	0.01%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate D	Natural Ga	0.00%	8.629224	49.68872	0	0.263232	0.193318	0	0.428638	2.378516	0.285907	0.209971	0	1.712268	6.786704	149157.25	46013.16	0	124.2552	118.3465	0	30.40668	9.380085	0	1.775362	1.690937	0	0	0	0	116.723	111.1724	0	0	0	0	139.083	500.2754	354.0935	0	0	0	0
T6 Instate C	Diesel	0.07%	5790.931	7277.78	2656.952	64.72782	7.2509405	0	32.82764	171.8232	68.84261	7.711888	0	133.6165	499.5446	11354409	1574983	0	5.409657	6.647221	0	1788.892	248.1393	0	116.4684	143.1129	0	0	0	0	116.7618	143.4734	0	0	0	0	1934.574	533.3371	4904.297	0	89.92834	12.47406	0
T6 Instate C	Electricity	0.02%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate C	Diesel	0.19%	12568.37	18933.21	7213.545	107.4237	7.6270805	0	86.96937	455.2066	112.8923	8.015353	0	349.7718	1307.672	29522510	4078277	0	8.763448	16.8881	0	4651.283	642.5342	0	188.6746	363.5961	0	0	0	0	179.6987	346.2985	0	0	0	0	5064.545	1092.196	12663.62	0	234.2629	32.36137	0
T6 Instate C	Electricity	0.04%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate C	Diesel	0.17%	12424.47	16752.47	6192.227	127.5345	12.946611	0	75.50332	395.1921	134.7131	13.67535	0	305.2126	1141.082	25808028	3573003	0	10.82378	15.08927	0	4066.065	562.9281	0	233.0329	324.8679	0	0	0	0	228.3946	318.4016	0	0	0	0	4422.12	1128.113	11153.04	0	204.9165	28.36975	0
T6 Instate C	Electricity	0.04%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate C	Diesel	0.12%	13412.37	11716.54	4192.381	89.45997	6.5808394	0	51.25192	268.2578	94.42892	6.946365	0	207.0335	774.0246	17833556	2636855	0	7.551819	10.06445	0	2809.684	415.4375	0	162.5886	216.6849	0	0	0	0	168.2588	224.2418	0	0	0	0	3181.937	981.8399	7883.415	0	147.2017	21.76513	0
T6 Instate C	Electricity	0.01%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate C	Natural Ga	0.00%	13.46296	97.05945	0	0.387458	0.3951501	0	0.816051	4.271296	0.420963	0.42932	0	3.260846	12.19115	235766.46	90670.17	0	184.1733	236.2856	0	48.06253	18.48371	0	2.631473	3.376055	0	0	0	0	163.3593	209.5822	0	0	0	0	243.6732	614.4357	665.9579	0	0	0	0
T6 Instate T	Diesel	0.00%	140.2168	157.5389	60.12375	1.52107	0.1424381	0	0.726963	3.805	1.608393	0.150615	0	2.941775	10.99825	243591.54	34323.24	0	0.118141	0.145642	0	38.37795	5.407641	0	2.543534	3.13564	0	0	0	0	2.489849	3.069457	0	0	0	0	41.90597	11.8669	105.9842	0	1.905748	0.268529	0
T6 Instate T	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate T	Diesel	0.15%	12847.29	13263.49	4720.631	87.13416	5.2931441	0	57.64521	301.7209	91.47161	5.556631	0	231.5876	865.8236	18970093	2902047	0	7.241649	11.47508	0	2988.746	457.2187	0	155.9107	247.0554	0	0	0	0	169.3497	268.3507	0	0	0	0	3907.897	1079.946	9718.899	0	169.612	25.94726	0
T6 Instate T	Electricity	0.01%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate T	Natural Ga	0.00%	17.46664	125.45	0	0.479441	0.4894204	0	1.010556	5.289356	0.521098	0.531945	0	4.039611	15.10267	292372.35	112340	0	232.6552	298.5092	0	59.60202	22.90125	0	3.324184	4.265107	0	0	0	0	219.6104	281.772	0	0	0	0	327.6542	826.2549	895.6566	0	0	0	0
T6 OOS Cla	Diesel	0.00%	43.92303	31.84995	13.09012	0.975703	0.0146806	0	0.453123	2.236891	1.01982	0.015344	0	1.812491	6.391118	149558.06	5597.91	0	0.052578	0.025947	0	23.56293	0.881953	0	1.131984	0.558636	0	0	0	0	1.288677	0.635964	0	0	0	0	33.10925	4.914109	22.94762	0	1.416225	0.053009	0
T6 OOS Cla	Diesel	0.00%	49.7455	39.38993	16.45907	1.094108	0.0114062	0	0.567196	2.800027	1.143579	0.011922	0	2.268785	8.000076	187917.75	7048.851	0	0.05298	0.031667	0	29.60652	1.110549	0	1.140635	0.681781	0	0	0	0	1.298526	0.776155	0	0	0	0	41.55432	5.487196	28.64767	0	1.779469	0.066748	0
T6 OOS Cla	Diesel	0.01%	207.9378	169.435	70.43351	4.854125	0.065363	0	2.429287	11.99244	5.073607	0.068318	0	9.717148	34.26413	794193.67	29551.37	0	0.244584	0.137632	0	125.1255	4.65583	0	5.265826	2.96318	0	0	0	0	5.994742	3.373355	0	0	0	0	177.7766	24.19644	122.9427	0	7.520539	0.279834	0
T6 OOS Cla	Diesel	0.01%	276.224	216.5621	90.79347	6.10464	0.0516998	0	3.135425	15.47837	6.380665	0.054037	0	12.5417	44.22393	946137.71	38449.49	0	0.281504	0.17375	0	149.0644	6.057734	0	6.060697	3.74078	0	0	0	0	6.899643	4.258593	0	0	0	0	229.9311	31.13547	158.3303	0	8.959358	0.364094	0
T6 Public C	Diesel	0.01%	2821.549	2112.946	176.7722	15.04325	1.9376038	0	3.339493	17.98794	16.13407	2.078104	0	13.70683	52.73631	1287542.7	250626.8	0	1.78061	0.876566	0	202.8529	39.48636	0	38.33604	18.87222	0	0	0	0	41.3662	20.36392	0	0	0	0	174.2672	101.2257	600.3165	0	10.81479	2.105155	0
T6 Public C	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	0.00%	7.952145	67.4185	0	0.201298	0.2571375	0	0.373178	2.010095	0.218853	0.279563	0	1.492192	5.741131	115072.23	56485.91	0	108.2452	159.8894	0	23.45823	11.51502	0	1.54661	2.284504	0	0	0	0	91.51693	135.18	0	0	0	0	107.9845	311.4239	419.2781	0	0	0	0
T6 Public C	Diesel	0.01%	2296.371	2398.07	336.438	11.65835	1.0708154	0	5.193344	27.97357	12.39455	1.138435	0	21.12978	81.29575	1960534.1	385491.4	0	2.335786	1.47573	0	308.883	60.73433	0	50.28882	31.77206	0	0	0	0	53.21549	33.6211	0	0	0	0	288.3901	152.0114	1023.419	0	16.35799	3.216402	0
T6 Public C	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	0.00%	30.08153	148.8829	0	0.379681	0.4601056	0	0.813036	4.379358	0.412531	0.499914	0	3.248939	12.50012	256999.16	118949.1	0	228.7633	397.1532	0	52.39096	24.24855	0	3.268575	5.674536	0	0	0	0	199.5472	346.4316	0	0	0	0	241.2559	698.5459	747.1693	0	0	0	0
T6 Public C	Diesel	0.01%	3109.436	2823.148	407.5176	17.971	2.1746479	0	6.09786	32.84568	19.20969	2.324541	0	24.94479	95.9738	2330239.8	446842.8	0	2.26823	1.677652	0	367.1302	70.40026	0	48.83437	36.11939	0	0	0	0	52.14121	38.56524	0	0	0	0	349.7993	152.0512	1239.53	0	19.53606	3.746201	0
T6 Public C	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	0.00%	18.65504	142.979	0	0.415551	0.5278538	0	0.785691	4.232066	0.451822	0.573927	0	3.141876	12.0882	247634.52	120765.5	0	227.4053	344.0113	0	50.48192	24.61884	0	3.249173	4.915243	0	0	0	0	194.9711	294.9459	0	0	0	0	230.8623	666.0607	871.0237	0	0	0	0
T6 Public C	Diesel	0.03%	6676.642	5799.056	952.5576	38.30146	4.8191836	0	13.97532	75.27703	40.99532	5.158132	0	57.24463	220.2458	5272685.8	995457.7	0	4.718223	3.852768	0	830.7138	156.8348	0	101.582	82.94904	0	0	0	0	108.4733	88.57622	0	0	0	0	809.3002	309.5653	2891.629	0	43.59589	8.230694	0
T6 Public C	Electricity	0.01%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	0.00%	51.10267	362.3123	0	1.050575	1.3155057	0	2.021171	10.88689	1.142887	1.431097	0	8.086743	31.11333	625405.63	302036.9	0	578.9721	900.0549	0	127.493	61.5722	0	8.272369	12.86001	0	0	0	0	491.3366	763.819	0	0	0	0	583.5413	1685.433	2123.562	0	0	0	0
T6 Utility C	Diesel	0.01%	319.2423	466.9375	189.4874	2.315622	0.1341346	0	2.959919	15.71109	2.424697	0.140453	0	11.86107	44.96993	975904.25	99085.48	0	0.239016	0.438752	0	153.7541	15.61096	0	5.145956	9.446213	0	0	0	0	4.377758	8.036064	0	0	0	0	157.8014	26.79422	298.43	0	7.183665	0.729372	0
T6 Utility C	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Utility C	Natural Ga	0.00%	0.148819	0.628934	0	0.003182	0.0023431	0	0.006667	0.03539	0.003459	0.002547	0	0.026654	0.101057	1878.0502	511.9103	0	1.699834	1.547119	0	0.382853	0.104356	0	0.024287	0.022105	0	0	0	0	1.267989	1.154071	0	0	0	0	1.709083	4.443343	3.370332	0	0	0	0
T6 Utility C	Diesel	0.00%	59.22062	88.67173	36.1216	0.430587	0.0253569	0	0.559545	2.970038	0.450359	0.026521	0	2.23969	8.491542	183926.06	18674.6	0	0.044575	0.082975	0	28.97763	2.942191	0	0.959696	1.786424	0	0	0	0	0.814586	1.516311	0	0	0	0	29.78304	5.053702	56.3477	0	1.353839	0.13746	0
T6 Utility C	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Utility C	Natural Ga	0.00%	0.035881	0.128997	0	0.000629	0.0004642	0	0.001377	0.007307	0.000684	0.000504	0	0.005501	0.020856	392.0781	105.8883	0	0.347266	0.329182	0	0.079928	0.021586	0	0.004962	0.004703	0	0	0	0	0.265059	0.251256	0	0	0	0	0.360722	0.940791	0.67859	0	0	0	0
T6 Utility C	Diesel	0.00%	63.88959	98.97308	39.93359	0.48822	0.0290468	0	0.640969	3.402231	0.510686	0.030383	0	2.565842	9.728108	209776.86	21358.56	0	0.049355	0.093882	0	33.05043	3.365049	0	1.062603	2.021249	0	0	0	0	0.880962	1.675738	0	0	0	0	32.92335	5.536932	62.31502	0	1.49531	0.152246	0
T6 Utility C	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Utility C	Natural Ga	0.00%	0.03166	0.128502	0	0.000673	0.0004965	0	0.001424	0.007561	0.000731	0.000539	0	0.005691	0.021577	402.28391	109.5065	0	0.3602	0.330686	0	0.082008	0.022324	0	0.005147	0.004725	0	0	0	0	0.270607	0.248434	0	0	0	0	0.365559	0.951095	0.714111	0	0	0	0

T6TS	Gasoline	0.09%	2075.087	73.04766	678.4534	17.4952	0	0.832312	39.9378	209.8948	19.02581	0	0.905129	159.736
T6TS	Electricity	0.01%	0	0	0	0	0	0	0	0	0	0	0	0
T7 CAIRP C	Diesel	0.36%	76123.76	372692.1	15180.26	1497.445	154.17018	0	450.2193	1389.427	1576.258	162.2844	0	1813.655
T7 CAIRP C	Electricity	0.06%	0	0	0	0	0	0	0	0	0	0	0	0
T7 NNOOS	Diesel	0.36%	58854.62	480332.9	14863.74	1236.694	165.48691	0	389.3753	1215.481	1292.612	172.9695	0	1557.501
T7 NOOS C	Diesel	0.16%	26112.92	207808.3	6433.314	566.1259	71.596891	0	168.4608	521.5307	591.7237	74.83418	0	673.8433
T7 Other Pc	Diesel	0.01%	1120.651	1986.626	262.8592	12.88385	0.8093001	0	7.213529	25.34948	13.52003	0.849262	0	28.96904
T7 Other Pc	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
T7 POAK Cl	Diesel	0.03%	5671.954	9673.279	1279.583	64.47378	3.8089183	0	33.95001	117.7007	67.61015	3.994206	0	136.2457
T7 POAK Cl	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
T7 POLA Cl	Diesel	0.04%	7520.85	12311.78	1517.033	92.62685	4.5251298	0	40.33381	136.5325	97.18329	4.747727	0	161.9489
T7 POLA Cl	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
T7 POLA Cl	Natural Ga	0.00%	1.824826	15.8584	0	0.024726	0.0608918	0	0.095879	0.332363	0.026881	0.066199	0	0.383365
T7 Public C	Diesel	0.06%	34923.9	12783.77	6195.336	168.5007	15.035358	0	79.28956	333.1136	179.7946	16.04312	0	323.7763
T7 Public C	Electricity	0.01%	0	0	0	0	0	0	0	0	0	0	0	0
T7 Public C	Natural Ga	0.01%	406.4941	559.913	0	3.130923	1.9376917	0	9.966814	40.63855	3.403534	2.106407	0	39.84817
T7 Single C	Diesel	0.02%	4190.057	5085.636	1887.05	54.6566	2.2053674	0	35.73756	119.4213	57.38368	2.315404	0	143.5902
T7 Single C	Electricity	0.01%	0	0	0	0	0	0	0	0	0	0	0	0
T7 Single C	Natural Ga	0.00%	24.21312	111.7211	0	0.289167	0.4268346	0	1.272954	4.257996	0.314499	0.464227	0	5.091877
T7 Single D	Diesel	0.04%	7035.515	7464.945	2449.16	93.30259	3.4317391	0	48.17491	157.3051	98.32041	3.616298	0	194.2786
T7 Single D	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
T7 Single D	Natural Ga	0.00%	43.73422	129.7402	0	0.299522	0.4070477	0	1.476774	4.853825	0.325612	0.442504	0	5.904465
T7 Single O	Diesel	0.18%	31281.87	36205.05	12481.28	414.5402	16.741819	0	241.1005	789.9502	436.366	17.62329	0	971.2622
T7 Single O	Electricity	0.03%	0	0	0	0	0	0	0	0	0	0	0	0
T7 Single O	Natural Ga	0.01%	188.7178	732.6231	0	1.841013	2.6308073	0	8.40656	27.59693	2.001914	2.860734	0	33.62025
T7 SWCV C	Diesel	0.03%	17201.14	7605.489	2336.592	65.57875	8.733356	0	36.79085	300.4586	68.29061	9.094504	0	146.6195
T7 SWCV C	Electricity	0.01%	0	0	0	0	0	0	0	0	0	0	0	0
T7 SWCV C	Natural Ga	0.03%	4215.007	657.1775	0	11.52722	0.366897	0	40.26636	328.842	12.54451	0.399276	0	161.1631
T7 Tractor (	Diesel	0.88%	165585.1	314984.1	67569.39	2510.301	118.57582	0	1033.286	3286.124	2635.406	124.4853	0	4151.418
T7 Tractor (	Electricity	0.06%	0	0	0	0	0	0	0	0	0	0	0	0
T7 Tractor (	Natural Ga	0.01%	420.0485	2883.182	0	3.537983	9.9114965	0	17.14224	54.39849	3.84695	10.77705	0	68.5524
T7 Utility C	Diesel	0.01%	941.8503	367.8162	538.9015	5.227286	0.1407309	0	6.748508	25.61184	5.470306	0.147274	0	27.02696
T7 Utility C	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
T7IS	Gasoline	0.00%	32.14107	0	0.037603	0.016166	0	0.000773	0.056957	0.36974	0.017577	0	0.00084	0.227765
T7IS	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
UBUS	Gasoline	0.01%	283.9475	0	134.4722	1.265297	0	0.118399	2.960709	38.49893	1.376126	0	0.12877	11.84283
UBUS	Diesel	0.00%	89.93889	0	0	1.670614	0	0	1.935937	9.293516	1.746152	0	0	7.743749
UBUS	Electricity	0.02%	0	0	0	0	0	0	13.70258	35.36991	0	0	0	54.81034
UBUS	Natural Ga	0.01%	57.6762	0	0	0.44882	0	0	7.974892	37.90148	0.469113	0	0	31.89957
Total		100.00%	#########	#########	#########	22953.66	1056.30	2136.16	26379.86	49418.77	24518.65	1117.81	2321.48	#########

T6TS	Gasoline	599.6424	20784325	458589.3	75105.19	63.86727	242.3955	71.35275	150.9781	6.966603	61.28848	258.4491	850.665	337.4172	39.18161	356.4135
T6TS	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 CAIRP C	Diesel	3997.96	64717535	73588043	0	27.04516	1754.859	0	10196.27	11593.83	0	582.2749	37781.62	0	0	0
T7 CAIRP C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 NNOOS	Diesel	3472.802	55002295	77854706	0	22.77484	1887.757	0	8665.634	12266.04	0	490.336	40642.89	0	0	0
T7 NOOS C	Diesel	1490.088	24047742	33954957	0	10.13445	816.7268	0	3788.732	5349.617	0	218.1919	17583.9	0	0	0
T7 Other Pc	Diesel	72.71556	1114845.6	390757.2	0	0.365961	9.066525	0	175.6444	61.56395	0	7.87905	195.1998	0	0	0
T7 Other Pc	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 POAK Cl	Diesel	337.3912	5366989.2	1855464	0	1.809129	43.52296	0	845.5713	292.3291	0	38.95004	937.0375	0	0	0
T7 POAK Cl	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 POLA Cl	Diesel	391.5766	7039034.2	2476051	0	2.437672	51.74942	0	1109.003	390.1029	0	52.48241	1114.151	0	0	0
T7 POLA Cl	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 POLA Cl	Natural Ga	0.949232	11946.49	11821.42	0	12.45785	36.85032	0	2.43537	2.409874	0	0.177998	0.526518	0	0	0
T7 Public C	Diesel	971.6133	15076153	1823225	0	22.69433	31.70944	0	2375.254	287.2499	0	488.6027	682.6956	0	0	0
T7 Public C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Public C	Natural Ga	116.0546	1537093.5	429477.4	0	1872.864	1471.071	0	313.3466	87.55177	0	26.75953	21.0187	0	0	0
T7 Single C	Diesel	342.7313	5608962.4	1052856	0	1.542263	23.84505	0	883.6943	165.8778	0	33.20449	513.3773	0	0	0
T7 Single C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Single C	Natural Ga	12.16585	144774.17	82181.51	0	147.4382	268.2941	0	29.51316	16.75324	0	2.106601	3.833393	0	0	0
T7 Single D	Diesel	453.126	8076848.1	1598429	0	2.725974	31.84784	0	1272.511	251.8332	0	58.68948	685.6753	0	0	0
T7 Single D	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Single D	Natural Ga	13.8619	180628.37	98398.34	0	168.8159	352.2765	0	36.82228	20.05915	0	2.412046	5.033337	0	0	0
T7 Single O	Diesel	2273.056	39276012	7536128	0	12.22417	160.1238	0	6187.952	1187.32	0	263.1831	3447.421	0	0	0
T7 Single O	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Single O	Natural Ga	78.83434	994301.73	555778.9	0	964.0031	1850.26	0	202.6949	113.2992	0	13.7737	26.43656	0	0	0
T7 SWCV C	Diesel	855.2805	14492453	961482.9	0	5.070273	16.82547	0	2283.292	151.482	0	109.1616	362.2477	0	0	0
T7 SWCV C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 SWCV C	Natural Ga	940.1182	6022533.3	1982463	0	5569.659	1735.999	0	1227.733	404.1381	0	240.4515	45.08832	0	0	0
T7 Tractor (	Diesel	9430.436	157167959	60431133	0	59.34607	1323.02	0	24761.88	9520.95	0	1277.705	28484.25	0	0	0
T7 Tractor (	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Tractor (	Natural Ga	155.3867	2060769.8	2167498	0	1913.145	7158.535	0	420.1014	441.8586	0	27.33507	102.2813	0	0	0
T7 Utility C	Diesel	73.26596	1158372.8	75382.8	0	0.390338	1.533649	0	182.5021	11.87659	0	8.403879	33.01904	0	0	0
T7 Utility C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7IS	Gasoline	1.05611	20194.484	0	71.26554	0.975346	0	0.000279	1.429114	0	0.001449	4.368127	0	0.001463	0.017847	0.163597
T7IS	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UBUS	Gasoline	109.997	1719702.8	0	14163.05	3.6007	0	17.48025	23.32884	0	11.10957	12.31656	0	78.94617	3.897258	14.1012
UBUS	Diesel	26.5529	283313.14	0	0	0.760912	0	0	44.6361	0	0	16.38222	0	0	0	0
UBUS	Electricity	101.0569	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UBUS	Natural Ga	108.2899	1201245.6	0	0	3925.971	0	0	244.8818	0	0	57.07911	0	0	0	0
Total		#########	#########	#########	#########	75365.29	27568.03	83372.39	#########	47306.96	46182.32	#########	#########	#########	#########	#########

T6TS	Gasoline	2037.104	350.5003	1153.644	343.3449	36.41509	331.248	1893.269	478.6515	4349.008	11770.56	6307.308	174.233	3.84431	0.6296
T6TS	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 CAIRP C	Diesel	0	573.3506	37202.56	0	0	0	0	9498.427	1748.597	482802.9	0	547.3294	622.3491	0
T7 CAIRP C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 NNOOS	Diesel	0	558.2102	46268.83	0	0	0	0	9518.06	1704.239	600460.4	0	520.8388	737.2375	0
T7 NOOS C	Diesel	0	248.3949	20017.94	0	0	0	0	4117.93	755.8712	259791.7	0	227.7177	321.5331	0
T7 Other Pc	Diesel	0	8.012638	198.5094	0	0	0	0	154.6939	44.70724	2576.491	0	9.594818	3.363017	0
T7 Other Pc	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 POAK Cl	Diesel	0	40.47861	973.8108	0	0	0	0	758.8687	226.3076	12639.28	0	47.73997	16.50456	0
T7 POAK Cl	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 POLA Cl	Diesel	0	57.03543	1210.807	0	0	0	0	943.5544	390.1072	15715.29	0	64.64712	22.74028	0
T7 POLA Cl	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 POLA Cl	Natural Ga	0	11.76809	34.81001	0	0	0	0	10.41946	48.92144	112.1471	0	0	0	0
T7 Public C	Diesel	0	522.703	730.342	0	0	0	0	1420.759	1706.695	8255.607	0	127.4716	15.4157	0
T7 Public C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Public C	Natural Ga	0	1545.262	1213.751	0	0	0	0	923.3023	7622.493	2981.442	0	0	0	0
T7 Single C	Diesel	0	28.53003	441.1051	0	0	0	0	630.8133	131.9814	5723.718	0	41.30609	7.753547	0
T7 Single C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Single C	Natural Ga	0	110.7654	201.5604	0	0	0	0	107.8589	431.2633	610.3849	0	0	0	0
T7 Single D	Diesel	0	59.41395	694.1394	0	0	0	0	991.4711	306.2275	8948.274	0	67.64631	13.38738	0
T7 Single D	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Single D	Natural Ga	0	147.8869	308.603	0	0	0	0	144.4491	777.1765	652.4284	0	0	0	0
T7 Single O	Diesel	0	259.9935	3405.641	0	0	0	0	4864.19	1224.28	43978.26	0	323.3201	62.03741	0
T7 Single O	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Single O	Natural Ga	0	825.495	1584.414	0	0	0	0	804.6596	3590.25	4209.165	0	0	0	0
T7 SWCV C	Diesel	0	117.0238	388.3381	0	0	0	0	630.8362	243.0997	4257.823	0	133.0165	8.824806	0
T7 SWCV C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 SWCV C	Natural Ga	0	5804.232	1775.305	0	0	0	0	2240.692	47686.15	12030.11	0	0	0	0
T7 Tractor (	Diesel	0	1359.056	30297.83	0	0	0	0	23356.08	6020.942	392542.4	0	1411.069	542.5566	0
T7 Tractor (	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Tractor (	Natural Ga	0	1831.334	6852.416	0	0	0	0	1869.983	8136.729	18061.51	0	0	0	0
T7 Utility C	Diesel	0	8.350328	32.80864	0	0	0	0	137.5535	71.0812	425.3866	0	9.66447	0.628929	0
T7 Utility C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7IS	Gasoline	0.845927	5.680991	0	0.001428	0.015907	0.145811	0.753959	0.414904	265.695	0	7.458246	0.17277	0	0.00061
T7IS	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UBUS	Gasoline	30.26772	17.9723	0	86.43612	3.897258	14.1012	30.26772	45.63125	369.1975	0	1314.219	17.50069	0	0.144131
UBUS	Diesel	0	18.64992	0	0	0	0	0	53.19239	18.99061	0	0	2.687283	0	0
UBUS	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UBUS	Natural Ga	0	4007.817	0	0	0	0	0	956.5024	46084.18	0	0	0	0	0
Total		#########	#########	#########	#########	#########	#########	#########	#########	#########	#########	#########	36520.94	2625.99	1034.33

New Fresno Courthouse Project (2050) Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

1.2. Land Use Types

1.3. User-Selected Emission Reduction Measures by Emissions Sector

2. Emissions Summary

2.3. Operations Emissions Compared Against Thresholds

2.4. Operations Emissions by Sector, Unmitigated

2.5. Operations Emissions by Sector, Mitigated

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.1.2. Mitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.2. Electricity Emissions By Land Use - Mitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.2.4. Natural Gas Emissions By Land Use - Mitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.3.2. Mitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.4.2. Mitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.5.2. Mitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.6.2. Mitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.7.2. Mitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.8.2. Mitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.9.2. Mitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.9.2. Mitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.10.4. Landscape Equipment - Mitigated

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.11.2. Mitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.12.2. Mitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.13.2. Mitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.14.2. Mitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures
7. Health and Equity Details
7.1. CalEnviroScreen 4.0 Scores
7.2. Healthy Places Index Scores
7.3. Overall Health & Equity Scores
7.4. Health & Equity Measures
7.5. Evaluation Scorecard
7.6. Health & Equity Custom Measures
8. User Changes to Default Data
8.1. Justifications
8.2. Project Characteristics
8.2.2. Utility Information
8.3. Land Use
8.5. Operations
8.5.1. Mobile Sources
8.5.1.1. Vehicle Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	New Fresno Courthouse Project (2050)
Operational Year	2050
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.70000
Precipitation (days)	25.4000
Location	2200 Fresno St, Fresno, CA 93721, USA
County	Fresno
City	Fresno
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2400
EDFZ	5
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.43

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Government Office Building	413.000	1000sqft	2.09000	413,000	0.00000	0.00000	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Transportation	T-10	Provide End-of-Trip Bicycle Facilities
Transportation	T-42*	Implement Telecommute and/or Alternative Work Schedule Program
Energy	E-15	Require All-Electric Development

* Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

2. Emissions Summary

2.3. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	13.0492	12.5590	4.58167	21.6841	0.02765	0.36862	0.00000	0.36862	0.36084	0.00000	0.36084	364.221	5,360.22	5,724.44	37.2811	0.39362	1.00442	6,774.77
Mit.	12.5619	12.3153	0.15115	17.9625	0.00107	0.03190	0.00000	0.03190	0.02412	0.00000	0.02412	364.221	73.8637	438.085	36.8133	0.38367	1.00442	1,473.75
% Reduced	4%	2%	97%	17%	96%	91%	—	91%	93%	—	93%	—	99%	92%	1%	3%	—	78%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.85016	9.60648	4.43052	3.72164	0.02658	0.33672	0.00000	0.33672	0.33672	0.00000	0.33672	364.221	5,286.35	5,650.58	37.2780	0.39299	1.00442	6,700.64
Mit.	9.36280	9.36280	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	364.221	0.00000	364.221	36.8102	0.38303	1.00442	1,399.62
% Reduced	5%	3%	100%	100%	100%	100%	—	100%	100%	—	100%	—	100%	94%	1%	3%	—	79%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	11.4278	11.0625	4.50506	12.5799	0.02711	0.35245	0.00000	0.35245	0.34861	0.00000	0.34861	364.221	5,322.78	5,687.00	37.2795	0.39330	1.00442	6,737.20

Mit.	10.9404	10.8188	0.07454	8.85822	0.00053	0.01573	0.00000	0.01573	0.01189	0.00000	0.01189	364.221	36.4259	400.647	36.8117	0.38335	1.00442	1,436.18
% Reduced	4%	2%	98%	30%	98%	96%	—	96%	97%	—	97%	—	99%	93%	1%	3%	—	79%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.08557	2.01891	0.82217	2.29582	0.00495	0.06432	0.00000	0.06432	0.06362	0.00000	0.06362	60.3010	881.247	941.548	6.17205	0.06512	0.16629	1,115.42
Mit.	1.99663	1.97444	0.01360	1.61662	0.00010	0.00287	0.00000	0.00287	0.00217	0.00000	0.00217	60.3010	6.03073	66.3317	6.09459	0.06347	0.16629	237.776
% Reduced	4%	2%	98%	30%	98%	96%	—	96%	97%	—	97%	—	99%	93%	1%	3%	—	79%

2.4. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Area	12.5619	12.3153	0.15115	17.9625	0.00107	0.03190	—	0.03190	0.02412	—	0.02412	—	73.8637	73.8637	0.00310	0.00063	—	74.1300
Energy	0.48736	0.24368	4.43052	3.72164	0.02658	0.33672	—	0.33672	0.33672	—	0.33672	—	5,286.35	5,286.35	0.46784	0.00995	—	5,301.02
Water	—	—	—	—	—	—	—	—	—	—	—	157.220	0.00000	157.220	16.1211	0.38303	—	674.393
Waste	—	—	—	—	—	—	—	—	—	—	—	207.001	0.00000	207.001	20.6890	0.00000	—	724.226
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.00442	1.00442
Total	13.0492	12.5590	4.58167	21.6841	0.02765	0.36862	0.00000	0.36862	0.36084	0.00000	0.36084	364.221	5,360.22	5,724.44	37.2811	0.39362	1.00442	6,774.77
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Area	9.36280	9.36280	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.48736	0.24368	4.43052	3.72164	0.02658	0.33672	—	0.33672	0.33672	—	0.33672	—	5,286.35	5,286.35	0.46784	0.00995	—	5,301.02
Water	—	—	—	—	—	—	—	—	—	—	—	157.220	0.00000	157.220	16.1211	0.38303	—	674.393
Waste	—	—	—	—	—	—	—	—	—	—	—	207.001	0.00000	207.001	20.6890	0.00000	—	724.226

Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.00442	1.00442
Total	9.85016	9.60648	4.43052	3.72164	0.02658	0.33672	0.00000	0.33672	0.33672	0.00000	0.33672	364.221	5,286.35	5,650.58	37.2780	0.39299	1.00442	6,700.64
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Area	10.9404	10.8188	0.07454	8.85822	0.00053	0.01573	—	0.01573	0.01189	—	0.01189	—	36.4259	36.4259	0.00153	0.00031	—	36.5573
Energy	0.48736	0.24368	4.43052	3.72164	0.02658	0.33672	—	0.33672	0.33672	—	0.33672	—	5,286.35	5,286.35	0.46784	0.00995	—	5,301.02
Water	—	—	—	—	—	—	—	—	—	—	—	157.220	0.00000	157.220	16.1211	0.38303	—	674.393
Waste	—	—	—	—	—	—	—	—	—	—	—	207.001	0.00000	207.001	20.6890	0.00000	—	724.226
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.00442	1.00442
Total	11.4278	11.0625	4.50506	12.5799	0.02711	0.35245	0.00000	0.35245	0.34861	0.00000	0.34861	364.221	5,322.78	5,687.00	37.2795	0.39330	1.00442	6,737.20
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Area	1.99663	1.97444	0.01360	1.61662	0.00010	0.00287	—	0.00287	0.00217	—	0.00217	—	6.03073	6.03073	0.00025	0.00005	—	6.05247
Energy	0.08894	0.04447	0.80857	0.67920	0.00485	0.06145	—	0.06145	0.06145	—	0.06145	—	875.216	875.216	0.07746	0.00165	—	877.644
Water	—	—	—	—	—	—	—	—	—	—	—	26.0296	0.00000	26.0296	2.66904	0.06342	—	111.653
Waste	—	—	—	—	—	—	—	—	—	—	—	34.2714	0.00000	34.2714	3.42530	0.00000	—	119.904
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.16629	0.16629
Total	2.08557	2.01891	0.82217	2.29582	0.00495	0.06432	0.00000	0.06432	0.06362	0.00000	0.06362	60.3010	881.247	941.548	6.17205	0.06512	0.16629	1,115.42

2.5. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Area	12.5619	12.3153	0.15115	17.9625	0.00107	0.03190	—	0.03190	0.02412	—	0.02412	—	73.8637	73.8637	0.00310	0.00063	—	74.1300
Energy	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000

Water	—	—	—	—	—	—	—	—	—	—	—	157.220	0.00000	157.220	16.1211	0.38303	—	674.393
Waste	—	—	—	—	—	—	—	—	—	—	—	207.001	0.00000	207.001	20.6890	0.00000	—	724.226
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.00442	1.00442
Total	12.5619	12.3153	0.15115	17.9625	0.00107	0.03190	0.00000	0.03190	0.02412	0.00000	0.02412	364.221	73.8637	438.085	36.8133	0.38367	1.00442	1,473.75
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Area	9.36280	9.36280	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Water	—	—	—	—	—	—	—	—	—	—	—	157.220	0.00000	157.220	16.1211	0.38303	—	674.393
Waste	—	—	—	—	—	—	—	—	—	—	—	207.001	0.00000	207.001	20.6890	0.00000	—	724.226
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.00442	1.00442
Total	9.36280	9.36280	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	364.221	0.00000	364.221	36.8102	0.38303	1.00442	1,399.62
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Area	10.9404	10.8188	0.07454	8.85822	0.00053	0.01573	—	0.01573	0.01189	—	0.01189	—	36.4259	36.4259	0.00153	0.00031	—	36.5573
Energy	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Water	—	—	—	—	—	—	—	—	—	—	—	157.220	0.00000	157.220	16.1211	0.38303	—	674.393
Waste	—	—	—	—	—	—	—	—	—	—	—	207.001	0.00000	207.001	20.6890	0.00000	—	724.226
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.00442	1.00442
Total	10.9404	10.8188	0.07454	8.85822	0.00053	0.01573	0.00000	0.01573	0.01189	0.00000	0.01189	364.221	36.4259	400.647	36.8117	0.38335	1.00442	1,436.18
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Area	1.99663	1.97444	0.01360	1.61662	0.00010	0.00287	—	0.00287	0.00217	—	0.00217	—	6.03073	6.03073	0.00025	0.00005	—	6.05247
Energy	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Water	—	—	—	—	—	—	—	—	—	—	—	26.0296	0.00000	26.0296	2.66904	0.06342	—	111.653
Waste	—	—	—	—	—	—	—	—	—	—	—	34.2714	0.00000	34.2714	3.42530	0.00000	—	119.904

Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.16629	0.16629
Total	1.99663	1.97444	0.01360	1.61662	0.00010	0.00287	0.00000	0.00287	0.00217	0.00000	0.00217	60.3010	6.03073	66.3317	6.09459	0.06347	0.16629	237.776

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

4.1.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	—	0.00000

4.2.2. Electricity Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	—	0.00000

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	—	0.00000

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	0.48736	0.24368	4.43052	3.72164	0.02658	0.33672	—	0.33672	0.33672	—	0.33672	—	5,286.35	5,286.35	0.46784	0.00995	—	5,301.02
Total	0.48736	0.24368	4.43052	3.72164	0.02658	0.33672	—	0.33672	0.33672	—	0.33672	—	5,286.35	5,286.35	0.46784	0.00995	—	5,301.02
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	0.48736	0.24368	4.43052	3.72164	0.02658	0.33672	—	0.33672	0.33672	—	0.33672	—	5,286.35	5,286.35	0.46784	0.00995	—	5,301.02
Total	0.48736	0.24368	4.43052	3.72164	0.02658	0.33672	—	0.33672	0.33672	—	0.33672	—	5,286.35	5,286.35	0.46784	0.00995	—	5,301.02

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	0.08894	0.04447	0.80857	0.67920	0.00485	0.06145	—	0.06145	0.06145	—	0.06145	—	875.216	875.216	0.07746	0.00165	—	877.644
Total	0.08894	0.04447	0.80857	0.67920	0.00485	0.06145	—	0.06145	0.06145	—	0.06145	—	875.216	875.216	0.07746	0.00165	—	877.644

4.2.4. Natural Gas Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	8.83820	8.83820	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.52460	0.52460	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	3.19906	2.95252	0.15115	17.9625	0.00107	0.03190	—	0.03190	0.02412	—	0.02412	—	73.8637	73.8637	0.00310	0.00063	—	74.1300
Total	12.5619	12.3153	0.15115	17.9625	0.00107	0.03190	—	0.03190	0.02412	—	0.02412	—	73.8637	73.8637	0.00310	0.00063	—	74.1300
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	8.83820	8.83820	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.52460	0.52460	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	9.36280	9.36280	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consumer Product	1.61297	1.61297	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.09574	0.09574	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.28792	0.26573	0.01360	1.61662	0.00010	0.00287	—	0.00287	0.00217	—	0.00217	—	6.03073	6.03073	0.00025	0.00005	—	6.05247
Total	1.99663	1.97444	0.01360	1.61662	0.00010	0.00287	—	0.00287	0.00217	—	0.00217	—	6.03073	6.03073	0.00025	0.00005	—	6.05247

4.3.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	8.83820	8.83820	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.52460	0.52460	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	3.19906	2.95252	0.15115	17.9625	0.00107	0.03190	—	0.03190	0.02412	—	0.02412	—	73.8637	73.8637	0.00310	0.00063	—	74.1300
Total	12.5619	12.3153	0.15115	17.9625	0.00107	0.03190	—	0.03190	0.02412	—	0.02412	—	73.8637	73.8637	0.00310	0.00063	—	74.1300
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consumer	8.83820	8.83820	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.52460	0.52460	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	9.36280	9.36280	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.61297	1.61297	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.09574	0.09574	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.28792	0.26573	0.01360	1.61662	0.00010	0.00287	—	0.00287	0.00217	—	0.00217	—	6.03073	6.03073	0.00025	0.00005	—	6.05247
Total	1.99663	1.97444	0.01360	1.61662	0.00010	0.00287	—	0.00287	0.00217	—	0.00217	—	6.03073	6.03073	0.00025	0.00005	—	6.05247

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	157.220	0.00000	157.220	16.1211	0.38303	—	674.393

Total	—	—	—	—	—	—	—	—	—	—	—	157.220	0.00000	157.220	16.1211	0.38303	—	674.393
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	157.220	0.00000	157.220	16.1211	0.38303	—	674.393
Total	—	—	—	—	—	—	—	—	—	—	—	157.220	0.00000	157.220	16.1211	0.38303	—	674.393
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	26.0296	0.00000	26.0296	2.66904	0.06342	—	111.653
Total	—	—	—	—	—	—	—	—	—	—	—	26.0296	0.00000	26.0296	2.66904	0.06342	—	111.653

4.4.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	157.220	0.00000	157.220	16.1211	0.38303	—	674.393
Total	—	—	—	—	—	—	—	—	—	—	—	157.220	0.00000	157.220	16.1211	0.38303	—	674.393
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	157.220	0.00000	157.220	16.1211	0.38303	—	674.393

Total	—	—	—	—	—	—	—	—	—	—	—	157.220	0.00000	157.220	16.1211	0.38303	—	674.393
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	26.0296	0.00000	26.0296	2.66904	0.06342	—	111.653
Total	—	—	—	—	—	—	—	—	—	—	—	26.0296	0.00000	26.0296	2.66904	0.06342	—	111.653

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	207.001	0.00000	207.001	20.6890	0.00000	—	724.226
Total	—	—	—	—	—	—	—	—	—	—	—	207.001	0.00000	207.001	20.6890	0.00000	—	724.226
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	207.001	0.00000	207.001	20.6890	0.00000	—	724.226
Total	—	—	—	—	—	—	—	—	—	—	—	207.001	0.00000	207.001	20.6890	0.00000	—	724.226
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	34.2714	0.00000	34.2714	3.42530	0.00000	—	119.904

Total	—	—	—	—	—	—	—	—	—	—	—	34.2714	0.00000	34.2714	3.42530	0.00000	—	119.904

4.5.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	207.001	0.00000	207.001	20.6890	0.00000	—	724.226
Total	—	—	—	—	—	—	—	—	—	—	—	207.001	0.00000	207.001	20.6890	0.00000	—	724.226
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	207.001	0.00000	207.001	20.6890	0.00000	—	724.226
Total	—	—	—	—	—	—	—	—	—	—	—	207.001	0.00000	207.001	20.6890	0.00000	—	724.226
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	34.2714	0.00000	34.2714	3.42530	0.00000	—	119.904
Total	—	—	—	—	—	—	—	—	—	—	—	34.2714	0.00000	34.2714	3.42530	0.00000	—	119.904

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.00442	1.00442
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.00442	1.00442
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.00442	1.00442
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.00442	1.00442
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.16629	0.16629
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.16629	0.16629

4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.00442	1.00442

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.00442	1.00442
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.00442	1.00442
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.00442	1.00442
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.16629	0.16629
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.16629	0.16629

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Government Office Building	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Government Office Building	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

5.10. Operational Area Sources

5.10.1. Hearths

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
Government Office Building	Wood Fireplaces	0	0
Government Office Building	Gas Fireplaces	0	0
Government Office Building	Propane Fireplaces	0	0
Government Office Building	Electric Fireplaces	0	0
Government Office Building	No Fireplaces	0	0
Government Office Building	Conventional Wood Stoves	0	0
Government Office Building	Catalytic Wood Stoves	0	0
Government Office Building	Non-Catalytic Wood Stoves	0	0
Government Office Building	Pellet Wood Stoves	0	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0.00000	0.00000	619,500	206,500	—

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00000
Summer Days	day/yr	180.000

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00000
Summer Days	day/yr	180.000

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Government Office Building	9,683,355	0.00000	0.0000	0.0000	16,494,843

5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Government Office Building	9,683,355	0.00000	0.0000	0.0000	0.00000

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Government Office Building	82,046,450	0.00000

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Government Office Building	82,046,450	0.00000

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Government Office Building	384.090	0.00000

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Government Office Building	384.090	0.00000

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Government Office Building	Household refrigerators and/or freezers	R-134a	1,430.00	0.01679	0.60000	0.00000	1.000000

Government Office Building	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000

5.14.2. Mitigated

Land Use	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Government Office Building	Household refrigerators and/or freezers	R-134a	1,430.00	0.01679	0.60000	0.00000	1.000000
Government Office Building	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	0.00000	annual days of extreme heat
Extreme Precipitation	0.00000	annual days with precipitation above 20 mm

Sea Level Rise	0.00000	meters of inundation depth
Wildfire	0.00000	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	1	1	2

Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	1	1	1	2
Drought	1	1	1	2
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	82.4767
AQ-PM	97.6105
AQ-DPM	94.0635
Drinking Water	84.3887
Lead Risk Housing	39.6723
Pesticides	56.3793
Toxic Releases	79.6949
Traffic	13.5500
Effect Indicators	—

CleanUp Sites	58.1747
Groundwater	74.8298
Haz Waste Facilities/Generators	50.1390
Impaired Water Bodies	0.00000
Solid Waste	0.00000
Sensitive Population	—
Asthma	86.8395
Cardio-vascular	94.9900
Low Birth Weights	—
Socioeconomic Factor Indicators	—
Education	88.2055
Housing	37.4778
Linguistic	61.0908
Poverty	92.6759
Unemployment	89.6668

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	—
Employed	—
Median HI	—
Education	—
Bachelor's or higher	—
High school enrollment	—
Preschool enrollment	—
Transportation	—

Auto Access	—
Active commuting	—
Social	—
2-parent households	—
Voting	—
Neighborhood	—
Alcohol availability	—
Park access	—
Retail density	—
Supermarket access	—
Tree canopy	—
Housing	—
Homeownership	—
Housing habitability	—
Low-inc homeowner severe housing cost burden	—
Low-inc renter severe housing cost burden	—
Uncrowded housing	—
Health Outcomes	—
Insured adults	—
Arthritis	54.3
Asthma ER Admissions	21.4
High Blood Pressure	19.3
Cancer (excluding skin)	96.9
Asthma	4.5
Coronary Heart Disease	7.5
Chronic Obstructive Pulmonary Disease	1.5
Diagnosed Diabetes	9.0
Life Expectancy at Birth	0.0

Cognitively Disabled	0.1
Physically Disabled	0.0
Heart Attack ER Admissions	3.5
Mental Health Not Good	0.4
Chronic Kidney Disease	27.1
Obesity	0.8
Pedestrian Injuries	0.0
Physical Health Not Good	1.0
Stroke	5.6
Health Risk Behaviors	—
Binge Drinking	38.6
Current Smoker	0.1
No Leisure Time for Physical Activity	0.6
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	99.4
Elderly	94.7
English Speaking	0.0
Foreign-born	0.0
Outdoor Workers	49.6
Climate Change Adaptive Capacity	—
Impervious Surface Cover	0.8
Traffic Density	0.0
Traffic Access	0.0
Other Indices	—
Hardship	0.0
Other Decision Support	—

2016 Voting	0.0

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	96.0000
Healthy Places Index Score for Project Location (b)	—
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	Central Fresno

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

8.1. Justifications

Screen	Justification
Characteristics: Utility Information	Electricity provided must be net zero by 2045.
Land Use	Project site is approximately 2.09 acres
Construction: Construction Phases	Project specific schedule see methodology.
Operations: Vehicle Data	Mobile emission are calculate using a EMFAC 2021 with EPA approved adjustment factors

8.2. Project Characteristics

8.2.2. Utility Information

Model Parameter	Units	Default Value	New Value
CO2	lb/MWh	203.983	0.00000
CH4	lb/MWh	0.03300	0.00000
N2O	lb/MWh	0.00400	0.00000

8.3. Land Use

Model Parameter	Units	Default Value	New Value
Lot Area	acre	9.48118	2.09000
Landscape Area	sq. ft	—	0.00000
Special Landscape Area	sq. ft	—	0.00000

8.5. Operations

8.5.1. Mobile Sources

8.5.1.1. Vehicle Data

Land Use	Model Parameter	Units	Default Value	New Value
Government Office Building	Weekday Trip Rate	size/day	22.5900	0.00000

New Fresno Courthouse Project
On Road Operational Emissions (2050)
EMFAC 2021 with USEPA Adjustment Factors

VMT	16,765,647
Trips	2,432,378
Vehicles	1,216,189

Air Quality Emissions (tons)						GHG Emissions (metric ton)			
ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	NO2	CO2e
3.08	5.47	19.16	0.05	5.94	1.530	5550.90	0.19	0.37	5666.723

Vehicle Cat	Fuel	Vehicle Mix	NOx_RUNE	NOx_IDLEX	NOx_STRE	PM2.5_RUI	PM2.5_IDLE	PM2.5_STR	PM2.5_PMT	PM2.5_PMB	PM10_RUN	PM10_IDLE	PM10_STRE	PM10_PMT	PM10_PMB
All Other Bu	Diesel	0.01%	1811.8	320.0045	334.4837	7.930145	0.1374127	0	6.418032	34.54624	8.254562	0.143034	0	25.56636	98.29688
All Other Bu	Natural Ga	0.00%	10.56885	17.7695	0	0.27773	0.066294	0	0.499635	2.689376	0.302057	0.072101	0	1.998539	7.68393
LDA	Gasoline	40.29%	128069.1	0	156731.4	2705.671	0	703.5647	13511.11	13922.93	2942.664	0	765.1908	54044.43	39779.8
LDA	Diesel	0.02%	31.68791	0	0	2.73311	0	0	8.034244	8.284658	2.85669	0	0	32.13698	23.67045
LDA	Electricity	5.62%	0	0	0	0	0	0	1885.224	1450.155	0	0	0	7540.896	4143.3
LDA	Plug-in Hyb	1.91%	777.7241	0	5247.291	52.21499	0	34.72314	639.1862	424.0635	56.78857	0	37.76459	2556.745	1211.61
LDT1	Gasoline	2.71%	9231.312	0	11503.95	192.4568	0	51.12466	907.8439	1124.782	209.3143	0	55.60273	3631.376	3213.664
LDT1	Diesel	0.00%	0.13089	0	0	0.019961	0	0	0.010569	0.013049	0.020863	0	0	0.042275	0.037282
LDT1	Electricity	0.08%	0	0	0	0	0	0	28.33021	21.817	0	0	0	113.3208	62.33427
LDT1	Plug-in Hyb	0.06%	26.28158	0	177.4609	1.757122	0	1.150614	21.61697	14.36538	1.91103	0	1.251398	86.46788	41.04394
LDT2	Gasoline	22.87%	82990.05	0	113161	1577.612	0	412.5159	7667.542	9426.204	1715.797	0	448.6487	30670.17	26932.01
LDT2	Diesel	0.09%	363.1025	0	0	54.46499	0	0	29.13081	35.78631	56.92765	0	0	116.5232	102.2466
LDT2	Electricity	0.93%	0	0	0	0	0	0	311.3167	239.687	0	0	0	1245.267	684.8199
LDT2	Plug-in Hyb	0.63%	257.7487	0	1738.696	17.38253	0	11.44965	211.7951	140.6943	18.90508	0	12.45254	847.1805	401.9838
LHD1	Gasoline	0.78%	3371.007	394.6097	12743.06	302.7322	0	3.362717	522.3926	7130.66	329.2145	0	3.656879	2089.352	20371.18
LHD1	Diesel	0.51%	33803.44	10308.59	0	2758.428	307.55855	0	481.969	4385.918	2928.024	326.4681	0	1957.881	12726.22
LHD1	Electricity	1.04%	0	0	0	0	0	0	0	0	0	0	0	0	0
LHD2	Gasoline	0.09%	488.3018	37.81757	1214.211	32.90482	0	0.364856	56.87736	905.7719	35.78496	0	0.396792	227.4965	2587.773
LHD2	Diesel	0.26%	23017.2	5267.94	0	1754.598	148.86635	0	233.9813	2484.101	1876.633	159.2202	0	957.7165	7262.684
LHD2	Electricity	0.25%	0	0	0	0	0	0	0	0	0	0	0	0	0
MCY	Gasoline	1.75%	130712.2	0	2355.594	535.7862	0	142.1932	292.7133	1229.396	574.7547	0	152.541	1170.853	3512.559
MDV	Gasoline	13.44%	50156.51	0	69907.87	931.2679	0	245.8573	4505.37	5607.745	1012.839	0	267.3922	18021.48	16022.13
MDV	Diesel	0.15%	222.7237	0	0	19.80784	0	0	49.97473	62.32389	20.70346	0	0	199.8989	178.0683
MDV	Electricity	0.86%	0	0	0	0	0	0	287.5542	221.673	0	0	0	1150.217	633.3514
MDV	Plug-in Hyb	0.40%	165.0743	0	1113.423	11.18384	0	7.428906	135.629	90.17951	12.16344	0	8.079613	542.5158	257.6557
MH	Gasoline	0.10%	3602.088	0	786.5167	22.7547	0	0.835423	49.66956	261.0405	24.74782	0	0.908599	198.6783	745.8301
MH	Diesel	0.06%	26176.5	0	0	182.6488	0	0	42.56309	167.0029	190.9073	0	0	170.2524	477.1511
Motor Coac	Diesel	0.01%	1906.206	2654.654	289.552	29.29203	1.5362903	0	3.90597	37.27524	29.89361	1.567842	0	15.25499	103.9861
OBUS	Gasoline	0.01%	1719.356	23.52233	321.6816	5.115465	0	0.159645	13.03741	68.27387	5.560217	0	0.173525	52.11853	194.9519
OBUS	Electricity	0.01%	0	0	0	0	0	0	0	0	0	0	0	0	0
PTO	Diesel	0.00%	0	0	0	0	0	0	0	0	0	0	0	0	0
PTO	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0	0
SBUS	Gasoline	0.01%	286.723	124.3889	204.6025	2.194762	0	0.217524	3.728109	29.30478	2.387034	0	0.23658	14.91263	83.72903
SBUS	Diesel	0.04%	6184.646	8627.972	1742.452	43.70298	2.5773644	0	46.26054	242.4205	45.79632	2.700819	0	185.5173	694.4086
SBUS	Electricity	0.06%	0	0	0	0	0	0	0	0	0	0	0	0	0
SBUS	Natural Ga	0.01%	584.4894	1651.462	0	16.45306	6.4905686	0	14.61046	76.56367	17.91819	7.068545	0	58.52017	219.0465
T6 CAIRP C	Diesel	0.00%	118.3702	80.65437	35.07663	2.430591	0.0237456	0	1.440095	7.109188	2.528029	0.024698	0	5.732123	20.21233
T6 CAIRP C	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 CAIRP C	Diesel	0.00%	144.0891	98.06729	42.64576	2.982201	0.029118	0	1.76591	8.717612	3.101892	0.030287	0	7.029305	24.78639
T6 CAIRP C	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 CAIRP C	Diesel	0.01%	690.8688	463.4511	201.6065	13.69417	0.1328006	0	8.053926	39.7591	14.25673	0.138256	0	32.08825	113.148
T6 CAIRP C	Electricity	0.01%	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 CAIRP C	Diesel	0.02%	957.1921	621.1157	268.2678	21.06919	0.1919061	0	11.63848	57.45465	21.91892	0.199646	0	46.33634	163.3889
T6 CAIRP C	Electricity	0.01%	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate [	Diesel	0.03%	5097.877	6182.177	2201.093	18.07077	1.7067562	0	30.68679	170.2812	18.84604	1.779979	0	122.4755	485.4408
T6 Instate [	Electricity	0.03%	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate [	Diesel	0.03%	6460.97	7873.237	2799.939	22.91921	2.166435	0	38.95168	216.1431	23.89901	2.25905	0	155.4392	616.0952
T6 Instate [	Electricity	0.04%	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate [	Diesel	0.08%	15048.76	18055.16	6424.893	52.98503	4.9760925	0	89.46822	496.4598	55.27685	5.191328	0	357.2013	1415.795
T6 Instate [	Electricity	0.10%	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate [	Diesel	0.04%	7145.034	7268.634	2517.958	26.44078	2.0179533	0	36.28193	201.3287	27.71744	2.115388	0	145.5537	576.9134
T6 Instate [	Electricity	0.03%	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate [	Natural Ga	0.00%	16.54424	98.331	0	0.545878	0.4004156	0	0.883881	4.904662	0.592649	0.434723	0	3.529311	13.9887
T6 Instate (	Diesel	0.05%	7897.055	13373.45	5070.425	60.83471	3.7705766	0	63.01267	329.8148	63.39255	3.929113	0	251.2863	939.4701
T6 Instate (	Electricity	0.07%	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate (	Diesel	0.14%	20464.9	34885.74	13188.02	158.051	9.7932771	0	163.744	857.0531	164.695	10.20496	0	652.9843	2441.276
T6 Instate (	Electricity	0.17%	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate (	Diesel	0.12%	18176.26	30527.56	11551.48	139.7534	8.600758	0	143.7797	752.5578	145.7159	8.9677	0	573.7149	2144.916
T6 Instate (	Electricity	0.15%	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate (	Diesel	0.09%	12555.48	17716.59	6581.581	100.6258	5.1170518	0	85.31488	446.5469	105.6107	5.370547	0	342.6712	1281.126
T6 Instate (	Electricity	0.07%	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate (	Natural Ga	0.00%	30.48223	225.104	0	0.928443	0.9474248	0	1.945639	10.18368	1.009606	1.030247	0	7.781322	29.0916
T6 Instate T	Diesel	0.00%	170.1873	287.8419	109.2455	1.326655	0.082261	0	1.374558	7.194575	1.38363	0.085794	0	5.486295	20.51131
T6 Instate T	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate T	Diesel	0.16%	14056.23	21763.58	8024.455	111.6435	6.0235667	0	100.3574	525.2811	116.5985	6.290907	0	401.1097	1499.607
T6 Instate T	Electricity	0.04%	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate T	Natural Ga	0.00%	39.66955	293.1955	0	1.120217	1.1433312	0	2.347103	12.28498	1.218157	1.243292	0	9.38702	35.09473
T6 OOS Cla	Diesel	0.00%	59.97047	56.78452	23.9097	1.45018	0.01356	0	0.82237	4.059719	1.515751	0.014173	0	3.289479	11.5992
T6 OOS Cla	Diesel	0.00%	73.97822	69.72168	29.35724	1.783288	0.0166488	0	1.009695	4.984473	1.86392	0.017402	0	4.038782	14.24135
T6 OOS Cla	Diesel	0.01%	333.5568	317.4082	133.6668	8.091981	0.0757988	0	4.59695	22.69335	8.457865	0.079226	0	18.3878	64.83815
T6 OOS Cla	Diesel	0.01%	433.2332	390.0744	164.2554	10.52564	0.0931531	0	5.649434	27.88906	11.00157	0.097365	0	22.59774	79.68302
T6 Public C	Diesel	0.00%	730.8717	1450.887	362.3881	4.580334	0.4758923	0	4.641389	25.00051	4.817304	0.500513	0	18.68138	71.87566
T6 Public C	Electricity	0.01%	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	0.00%	12.396	115.8014	0	0.35842	0.4575446	0	0.653541	3.520253	0.39008	0.49796	0	2.615943	10.0647
T6 Public C	Diesel	0.01%	1221.045	2252.486	560.5348	7.179059	0.6718767	0	7.242301	39.01013	7.545298	0.706152	0	29.12994	112.0759
T6 Public C	Electricity	0.01%	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	0.00%	23.98568	187.0088	0	0.564098	0.7105856	0	1.063126	5.726451	0.613522	0.772845	0	4.252602	16.36167
T6 Public C	Diesel	0.01%	1301.336	2699.571	709.1752	7.954609	0.7987442	0	8.650944	46.59768	8.336018	0.837043	0	34.69425	133.4843
T6 Public C	Electricity	0.01%	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	0.00%	23.6643	215.251	0	0.66271	0.8450354	0	1.213707	6.537545	0.721282	0.919722	0	4.858359	18.69228
T6 Public C	Diesel	0.02%	2547.602	6218.432	1652.953	17.12277	1.7347076	0	19.57799	105.4554	17.93185	1.816675	0	78.46449	301.8881
T6 Public C	Electricity	0.02%	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	0.00%	56.07585	500.318	0	1.523358	1.9370648	0	2.799229	15.07785	1.657707	2.1079	0	11.20311	43.10338
T6 Utility C	Diesel	0.00%	399.3646	666.2803	248.5479	2.890406	0.1785545	0	3.940123	20.91396	3.016702	0.186356	0	15.73756	59.66723
T6 Utility C	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Utility C	Natural Ga	0.00%	0.15997	0.85958	0	0.004449	0.0032785	0	0.00887	0.047083	0.004839	0.003566	0	0.035485	0.134539
T6 Utility C	Diesel	0.00%	74.48914	126.5951	47.22633	0.54388	0.0337635	0	0.745051	3.954692	0.567428	0.035225	0	2.974731	11.27837
T6 Utility C	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Utility C	Natural Ga	0.00%	0.030232	0.162446	0	0.000841	0.0006196	0	0.001676	0.008898	0.000914	0.000674	0	0.006706	0.025426
T6 Utility C	Diesel	0.00%	80.11376	139.9719	52.21279	0.607571	0.0379216	0	0.836809	4.441736	0.633969	0.039569	0	3.341579	12.66923
T6 Utility C	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Utility C	Natural Ga	0.00%	0.033765	0.181433	0	0.000944	0.0006959	0	0.001883	0.009995	0.001027	0.000757	0	0.007533	0.028561

Vehicle Cat	Fuel	CO2_RUNEX	CO2_IDLEX	CO2_STREX	CH4_RUNE	CH4_IDLEX	CH4_STREX	N2O_RUNE	N2O_IDLEX	N2O_STREX	ROG_RUNE	ROG_IDLEX	ROG_STREX	ROG_HOTS	ROG_RUNL	ROG_DIURI
All Other Bu	Diesel	2129488.2	81371.91	0	1.376916	0.357742	0	335.5017	12.82018	0	29.64463	7.702079	0	0	0	0
All Other Bu	Natural Ga	147467.02	13764.55	0	143.1517	41.25547	0	30.06212	2.805993	0	2.045356	0.589459	0	0	0	0
LDA	Gasoline	1.525E+09	0	52095170	6088.405	0	29935.52	20970.61	0	24793.88	17554.06	0	111947.7	35158.83	146063.7	457709.2
LDA	Diesel	694044.61	0	0	0.590167	0	0	109.347	0	0	12.70596	0	0	0	0	0
LDA	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LDA	Plug-in Hyb	34891128	0	2562639	98.07986	0	1815.539	130.5317	0	863.2537	322.7174	0	7752.622	1845.264	3829.06	21366.8
LDT1	Gasoline	117656116	0	4069139	437.4311	0	2127.924	1464.921	0	1770.785	1279.746	0	8090.035	3290.987	15342.89	47260.41
LDT1	Diesel	1710.6956	0	0	0.002478	0	0	0.269521	0	0	0.053349	0	0	0	0	0
LDT1	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LDT1	Plug-in Hyb	1178863.7	0	99532.58	3.302458	0	61.37474	4.378993	0	29.16374	10.90557	0	262.19	66.00529	145.4899	816.9395
LDT2	Gasoline	1.032E+09	0	36273986	4657.464	0	22167.33	12770.29	0	17027	14035.78	0	86450.74	23120.58	103575	321351.2
LDT2	Diesel	3487181.1	0	0	6.806085	0	0	549.4068	0	0	146.531	0	0	0	0	0
LDT2	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LDT2	Plug-in Hyb	11561554	0	1024349	32.36319	0	600.9421	42.8803	0	285.3703	106.9531	0	2568.841	635.1683	1381.342	7702.565
LHD1	Gasoline	174405201	1819356	798472.2	268.9983	1397.929	636.0003	342.3868	41.98398	1322.914	705.896	3751.698	2204.073	536.9631	5524.376	30560.02
LHD1	Diesel	89477196	1253263	0	627.7917	58.77053	0	14097.17	197.4521	0	13515.98	1265.295	0	0	0	0
LHD1	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LHD2	Gasoline	21539349	229665.3	86338.28	27.18279	132.8049	61.06803	53.19276	4.032644	127.2602	69.91817	351.768	208.9905	63.28414	652.2053	3629.079
LHD2	Diesel	51527767	1011830	0	378.7956	28.02659	0	8118.221	159.4142	0	8155.245	603.396	0	0	0	0
LHD2	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MCY	Gasoline	53113140	0	1471607	34831.35	0	5209.281	10035.88	0	165.6686	203210.5	0	35342.11	152510.7	166623.6	82099.36
MDV	Gasoline	732643448	0	25983932	2791.338	0	13310.53	7588.25	0	10246.81	8475.852	0	52596.13	15147.65	67931.8	211996.3
MDV	Diesel	7820619.2	0	0	4.115667	0	0	1232.142	0	0	88.60788	0	0	0	0	0
MDV	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MDV	Plug-in Hyb	7404907.7	0	798399.3	20.65589	0	382.3817	27.27776	0	180.4427	68.49774	0	1645.029	422.4045	950.786	5242.531
MH	Gasoline	32242639	0	70058.53	46.81184	0	77.42862	295.656	0	90.56636	132.0112	0	263.5633	6239.599	252.9131	2239.767
MH	Diesel	11601272	0	0	40.63118	0	0	1827.785	0	0	874.7654	0	0	0	0	0
Motor Coac	Diesel	1896454.4	747514	0	0.609522	16.75972	0	298.7872	117.7711	0	13.12284	360.8321	0	0	0	0
OBUS	Gasoline	6083902.6	99439.54	15187.31	5.841049	48.16502	13.54494	86.24805	1.988021	20.09783	15.83952	137.1559	51.05284	10.41858	76.51123	688.907
OBUS	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PTO	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PTO	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SBUS	Gasoline	1199310.7	281519.8	11936.88	3.423054	342.1204	18.67116	22.97399	13.23642	18.67684	12.86525	1283.345	90.08968	24.19158	160.0466	440.834
SBUS	Diesel	14379589	1849353	0	3.893968	8.000811	0	2265.51	291.3662	0	83.83606	172.2553	0	0	0	0
SBUS	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SBUS	Natural Ga	4560846.8	1357071	0	10651.84	4039.616	0	929.7585	276.6478	0	152.1938	57.71814	0	0	0	0
T6 CAIRP C	Diesel	451460.31	16540.64	0	0.11414	0.077751	0	71.12776	2.605985	0	2.457404	1.673955	0	0	0	0
T6 CAIRP C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 CAIRP C	Diesel	553689.33	20288.56	0	0.140012	0.095322	0	87.23398	3.196471	0	3.014426	2.052259	0	0	0	0
T6 CAIRP C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 CAIRP C	Diesel	2528261.6	92616.09	0	0.639248	0.435676	0	398.3286	14.5917	0	13.76282	9.379988	0	0	0	0
T6 CAIRP C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 CAIRP C	Diesel	3289647.2	133643.2	0	1.007033	0.631791	0	518.2853	21.05554	0	21.68114	13.60229	0	0	0	0
T6 CAIRP C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate [	Diesel	9870098.6	1198882	0	2.724267	5.567377	0	1555.038	188.8843	0	58.65272	119.8641	0	0	0	0
T6 Instate [	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate [	Diesel	12527138	1521445	0	3.456562	7.065818	0	1973.656	239.7042	0	74.41883	152.1251	0	0	0	0
T6 Instate [	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate [	Diesel	28791428	3497182	0	7.94431	16.24463	0	4536.101	550.9824	0	171.0388	349.7423	0	0	0	0
T6 Instate [	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate [	Diesel	12033161	1483332	0	3.995249	6.477243	0	1895.829	233.6996	0	86.01661	139.4533	0	0	0	0
T6 Instate [	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate [	Natural Ga	271487.91	83804.41	0	255.453	242.0536	0	55.34459	17.08408	0	3.649919	3.458469	0	0	0	0
T6 Instate (	Diesel	19634303	2643026	0	5.02301	12.18087	0	3093.392	416.4099	0	108.144	262.2509	0	0	0	0
T6 Instate (	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate (	Diesel	51024936	6867732	0	13.05931	31.64709	0	8038.999	1082.014	0	281.1634	681.3532	0	0	0	0
T6 Instate (	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate (	Diesel	44847040	6036603	0	11.48138	27.82193	0	7065.669	951.0693	0	247.191	598.9986	0	0	0	0
T6 Instate (	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate (	Diesel	27157824	3761880	0	8.097022	15.83046	0	4278.726	592.6858	0	174.3267	340.8255	0	0	0	0
T6 Instate (	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate (	Natural Ga	510290.12	194906.3	0	436.4924	556.5115	0	104.026	39.73292	0	6.236615	7.951451	0	0	0	0
T6 Instate T	Diesel	428712.74	57701.07	0	0.107782	0.264917	0	67.54387	9.090827	0	2.32051	5.703584	0	0	0	0
T6 Instate T	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate T	Diesel	29032054	4343316	0	9.344817	19.56957	0	4574.012	684.2911	0	201.1913	421.3274	0	0	0	0
T6 Instate T	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate T	Natural Ga	621619.08	236880.1	0	542.028	690.8158	0	126.7211	48.28956	0	7.744511	9.870395	0	0	0	0
T6 OOS Cla	Diesel	260453.4	9561.595	0	0.066179	0.045565	0	41.03454	1.506433	0	1.424813	0.980994	0	0	0	0
T6 OOS Cla	Diesel	319891.41	11748.53	0	0.081399	0.055945	0	50.39902	1.850986	0	1.752502	1.204475	0	0	0	0
T6 OOS Cla	Diesel	1454576.2	53365.49	0	0.369172	0.254696	0	229.1691	8.407754	0	7.94817	5.483545	0	0	0	0
T6 OOS Cla	Diesel	1609712.1	65472.06	0	0.488802	0.313008	0	253.6108	10.31515	0	10.52377	6.738968	0	0	0	0
T6 Public C	Diesel	1564337.4	287443.4	0	0.573362	1.218594	0	246.462	45.28683	0	12.34432	26.23599	0	0	0	0
T6 Public C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	189513.51	93289.19	0	188.4433	273.848	0	38.63357	19.01761	0	2.692483	3.912748	0	0	0	0
T6 Public C	Diesel	2444165.6	452500.6	0	1.089959	1.918229	0	385.0793	71.29166	0	23.46652	41.29894	0	0	0	0
T6 Public C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	309696.98	150239.5	0	303.098	460.0845	0	63.13376	30.62729	0	4.330673	6.573699	0	0	0	0
T6 Public C	Diesel	2909783.7	535846.8	0	1.059382	2.318473	0	458.4376	84.42288	0	22.80819	49.91608	0	0	0	0
T6 Public C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	353576.47	173891.8	0	349.6984	510.9663	0	72.07888	35.44898	0	4.9965	7.3007	0	0	0	0
T6 Public C	Diesel	6579345.3	1206347	0	2.254446	5.318013	0	1036.579	190.0605	0	48.5376	114.4954	0	0	0	0
T6 Public C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	816136.39	400271.9	0	810.054	1190.381	0	166.3747	81.59805	0	11.57407	17.00819	0	0	0	0
T6 Utility C	Diesel	1247013.8	125043.8	0	0.304097	0.592548	0	196.4675	19.70071	0	6.547124	12.75739	0	0	0	0
T6 Utility C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Utility C	Natural Ga	2410.5792	664.2527	0	2.299291	1.985646	0	0.491412	0.135412	0	0.032852	0.028371	0	0	0	0
T6 Utility C	Diesel	235657.96	23630.53	0	0.057467	0.111978	0	37.12801	3.722999	0	1.237241	2.410849	0	0	0	0
T6 Utility C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Utility C	Natural Ga	455.55916	125.5327	0	0.43453	0.375256	0	0.092869	0.025591	0	0.006209	0.005362	0	0	0	0
T6 Utility C	Diesel	264693.61	26515.95	0	0.063686	0.125278	0	41.70259	4.177599	0	1.371152	2.6972	0	0	0	0
T6 Utility C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Utility C	Natural Ga	511.4517	140.9343	0	0.487238	0.420774	0	0.104263	0.02873	0	0.006962	0.006012	0	0	0	0

Vehicle Cat	Fuel	TOG_RUNE	TOG_IDLEX	TOG_STREX	TOG_HOTS	TOG_RUNL	TOG_DIURI	NH3_RUNE	CO_RUNEX	CO_IDLEX	CO_STREX	SOx_RUNE	SOx_IDLEX	SOx_STREX
All Other Bu	Diesel	33.74816	8.768231	0	0	0	0	465.2378	192.5036	320.1822	0	20.16498	0.770543	0
All Other Bu	Natural Ga	146.0969	42.10424	0	0	0	0	176.5375	573.2844	132.0944	0	0	0	0
LDA	Gasoline	25614.84	0	122568.7	35158.83	146063.7	457709.2	283441.1	3267126	0	1541659	15071.63	0	515.0138
LDA	Diesel	14.46489	0	0	0	0	0	12.45307	416.8382	0	0	6.576425	0	0
LDA	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
LDA	Plug-in Hyb	470.9085	0	8488.145	1845.264	3829.06	21366.8	5463.631	56867.23	0	59577.87	344.9343	0	25.3343
LDT1	Gasoline	1867.403	0	8857.57	3290.987	15342.89	47260.41	18972.39	234268.1	0	108458.1	1163.15	0	40.22758
LDT1	Diesel	0.060734	0	0	0	0	0	0.016381	0.578914	0	0	0.01621	0	0
LDT1	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
LDT1	Plug-in Hyb	15.91338	0	287.065	66.00529	145.4899	816.9395	184.6931	1920.66	0	2014.895	11.65427	0	0.983981
LDT2	Gasoline	20480.98	0	94652.68	23120.58	103575	321351.2	160673.9	2198964	0	1133237	10205.04	0	358.6053
LDT2	Diesel	166.8158	0	0	0	0	0	45.15273	1573.649	0	0	33.04281	0	0
LDT2	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
LDT2	Plug-in Hyb	156.0657	0	2812.557	635.1683	1381.342	7702.565	1811.304	18837.3	0	19741.2	114.2977	0	10.12674
LHD1	Gasoline	710.3875	3775.57	1664.297	370.3266	3809.989	21076.29	5894.307	78452.64	35929.68	62720.6	959.1363	10.00549	4.391175
LHD1	Diesel	8236.992	771.1035	0	0	0	0	18589.82	18131.9	5614.122	0	482.4679	6.757689	0
LHD1	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
LHD2	Gasoline	72.84566	366.4966	163.3768	45.18501	465.676	2591.17	655.1378	8809.61	3993.495	7031.754	120.4751	1.284577	0.482912
LHD2	Diesel	5251.472	388.5496	0	0	0	0	9182.787	11741.47	2828.887	0	284.8306	5.593104	0
LHD2	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
MCY	Gasoline	254768.7	0	38500.38	152510.7	166623.6	82099.36	2690.639	2626559	0	318841.2	525.0775	0	14.54833
MDV	Gasoline	12367.94	0	57586.14	15147.65	67931.8	211996.3	94262.29	1324234	0	679649.9	7242.926	0	256.8776
MDV	Diesel	100.8742	0	0	0	0	0	77.4608	2882.745	0	0	74.10434	0	0
MDV	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
MDV	Plug-in Hyb	99.95175	0	1801.1	422.4045	950.786	5242.531	1160.056	12066.04	0	12641.83	73.20505	0	7.89299
MH	Gasoline	192.6304	0	288.5686	6239.599	252.9131	2239.767	745.0432	2388.264	0	4890.843	318.7513	0	0.6926
MH	Diesel	995.8623	0	0	0	0	0	2315.967	2491.889	0	0	109.9279	0	0
Motor Coac	Diesel	14.93935	410.7799	0	0	0	0	273.9302	44.42831	5331.565	0	17.95829	7.07851	0
OBUS	Gasoline	17.02122	147.3883	41.16409	7.672609	56.34555	507.3352	83.48751	298.5456	780.6079	601.7008	27.92099	0.45636	0.069699
OBUS	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
PTO	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0
PTO	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
SBUS	Gasoline	10.82686	1080.011	56.88656	13.95194	92.30323	254.241	43.14615	173.2987	5720.027	1046.069	6.643489	1.559457	0.066123
SBUS	Diesel	47.87681	98.37095	0	0	0	0	1572.15	354.3373	3658.833	0	69.03085	8.878027	0
SBUS	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
SBUS	Natural Ga	5091.587	1930.938	0	0	0	0	2378.121	13328.7	5950.495	0	0	0	0
T6 CAIRP C	Diesel	1.121098	0.763679	0	0	0	0	41.23987	5.048421	28.40532	0	1.794394	0.065743	0
T6 CAIRP C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 CAIRP C	Diesel	1.376296	0.936999	0	0	0	0	50.59922	6.196994	34.85163	0	2.201883	0.080682	0
T6 CAIRP C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 CAIRP C	Diesel	6.272514	4.275003	0	0	0	0	230.858	28.24851	159.0122	0	10.0417	0.367851	0
T6 CAIRP C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 CAIRP C	Diesel	18.82964	11.81332	0	0	0	0	637.9408	84.79906	439.4057	0	24.5412	0.996996	0
T6 CAIRP C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate [	Diesel	29.64403	60.58125	0	0	0	0	969.8701	227.6604	2253.28	0	43.18735	5.245796	0
T6 Instate [	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate [	Diesel	37.58496	76.83024	0	0	0	0	1229.999	288.3791	2857.605	0	54.78292	6.65349	0
T6 Instate [	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate [	Diesel	86.29168	176.4503	0	0	0	0	2824.887	663.0333	6563.08	0	125.7837	15.27845	0
T6 Instate [	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate [	Diesel	58.29267	94.5062	0	0	0	0	1511.8	444.3279	3508.056	0	68.15786	8.401846	0
T6 Instate [	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate [	Natural Ga	151.8409	143.8764	0	0	0	0	180.6784	650.6962	462.3147	0	0	0	0
T6 Instate (	Diesel	53.98381	130.9115	0	0	0	0	1949.668	365.2446	4869.14	0	84.2186	11.33689	0
T6 Instate (	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate (	Diesel	140.2131	339.7834	0	0	0	0	5060.377	947.594	12637.48	0	218.6015	29.4228	0
T6 Instate (	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate (	Diesel	123.3379	298.875	0	0	0	0	4451.145	833.956	11116.17	0	192.2687	25.88019	0
T6 Instate (	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate (	Diesel	114.9041	224.6486	0	0	0	0	3339.882	751.1684	8319.533	0	144.6762	20.04043	0
T6 Instate (	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate (	Natural Ga	247.9505	316.1276	0	0	0	0	369.2993	930.7918	1015.717	0	0	0	0
T6 Instate T	Diesel	1.149386	2.825076	0	0	0	0	42.07417	7.792803	105.0786	0	1.817156	0.244574	0
T6 Instate T	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate T	Diesel	187.1634	391.9506	0	0	0	0	5833.473	1254.897	14555.92	0	227.9002	34.09481	0
T6 Instate T	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate T	Natural Ga	442.915	564.496	0	0	0	0	659.646	1662.563	1815.026	0	0	0	0
T6 OOS Cla	Diesel	1.622041	1.116787	0	0	0	0	60.30709	7.301732	41.5372	0	2.466338	0.090543	0
T6 OOS Cla	Diesel	1.99509	1.371203	0	0	0	0	74.04431	8.977152	50.99744	0	3.02918	0.111252	0
T6 OOS Cla	Diesel	9.048387	6.242598	0	0	0	0	337.1095	40.74915	232.1945	0	13.77397	0.505339	0
T6 OOS Cla	Diesel	11.98051	7.671803	0	0	0	0	414.2917	53.95487	285.3593	0	15.24301	0.619981	0
T6 Public C	Diesel	7.468498	15.87317	0	0	0	0	163.0251	36.52079	585.2981	0	7.60972	1.398269	0
T6 Public C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	94.03021	136.6458	0	0	0	0	110.6156	319.0834	437.2951	0	0	0	0
T6 Public C	Diesel	14.26768	25.10982	0	0	0	0	253.4992	63.62859	911.1004	0	11.93107	2.208858	0
T6 Public C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	154.1561	233.9997	0	0	0	0	182.4235	526.7193	684.2621	0	0	0	0
T6 Public C	Diesel	13.54734	29.64855	0	0	0	0	304.3105	68.63319	1094.231	0	14.20236	2.615414	0
T6 Public C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	176.1423	257.3727	0	0	0	0	207.3766	598.2485	814.7152	0	0	0	0
T6 Public C	Diesel	32.15084	75.84061	0	0	0	0	780.9744	167.4471	2808.494	0	35.81568	6.566937	0
T6 Public C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	458.1082	673.1936	0	0	0	0	539.663	1557.221	2105.545	0	0	0	0
T6 Utility C	Diesel	2.952976	5.754019	0	0	0	0	113.0609	18.11445	214.0267	0	4.934669	0.494822	0
T6 Utility C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Utility C	Natural Ga	0.922829	0.796946	0	0	0	0	1.229679	3.1848	2.567513	0	0	0	0
T6 Utility C	Diesel	0.558042	1.087383	0	0	0	0	21.36603	3.4232	40.44634	0	0.932545	0.093511	0
T6 Utility C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Utility C	Natural Ga	0.174394	0.150605	0	0	0	0	0.232382	0.601857	0.485204	0	0	0	0
T6 Utility C	Diesel	0.614685	1.209151	0	0	0	0	23.75864	3.770667	44.9756	0	1.037992	0.103982	0
T6 Utility C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Utility C	Natural Ga	0.193923	0.16747	0	0	0	0	0.258405	0.669254	0.539538	0	0	0	0

T6TS	Gasoline	0.04%	1581.649	99.17547	1762.763	23.62723	0	1.168795	51.42938	270.2893	25.7127	0	1.271959	205.8451
T6TS	Electricity	0.05%	0	0	0	0	0	0	0	0	0	0	0	0
T7 CAIRP C	Diesel	0.44%	142434.1	686990.6	27000.07	2694.274	292.64305	0	854.5983	2721.504	2809.15	305.1204	0	3409.96
T7 CAIRP C	Electricity	0.12%	0	0	0	0	0	0	0	0	0	0	0	0
T7 NNOOS	Diesel	0.48%	107979.4	899601.6	27938.4	2272.35	309.97208	0	729.3357	2322.389	2375.096	323.9876	0	2917.343
T7 NOOS C	Diesel	0.21%	47908.09	387865.6	12046.07	1037.502	133.6454	0	314.4553	1001.412	1084.413	139.6883	0	1257.821
T7 Other Pc	Diesel	0.01%	1734.245	2911.263	371.9736	19.16069	1.227573	0	10.94172	40.06503	19.97562	1.279783	0	43.65447
T7 Other Pc	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
T7 POAK Cl	Diesel	0.03%	9935.277	16025.73	2048.076	107.0438	6.605397	0	58.87586	215.5843	111.5698	6.884684	0	234.8424
T7 POAK Cl	Electricity	0.01%	0	0	0	0	0	0	0	0	0	0	0	0
T7 POLA Cl	Diesel	0.03%	8707.044	13909.58	1775.794	99.52586	5.6286133	0	50.1695	183.1673	103.7278	5.866249	0	200.1027
T7 POLA Cl	Electricity	0.01%	0	0	0	0	0	0	0	0	0	0	0	0
T7 POLA Cl	Natural Ga	0.00%	4.676699	40.64218	0	0.06252	0.1539646	0	0.242431	0.886416	0.067994	0.167446	0	0.969699
T7 Public C	Diesel	0.04%	20349.53	11009.69	10768.56	93.45842	4.9558282	0	109.5524	456.1249	98.36271	5.215888	0	441.2533
T7 Public C	Electricity	0.03%	0	0	0	0	0	0	0	0	0	0	0	0
T7 Public C	Natural Ga	0.01%	444.6129	861.7014	0	5.150504	3.2976186	0	15.3897	64.1501	5.600975	3.586034	0	61.55147
T7 Single C	Diesel	0.01%	5527.075	6703.65	2329.96	66.19816	2.8211451	0	46.14602	159.2823	68.88356	2.935588	0	183.763
T7 Single C	Electricity	0.02%	0	0	0	0	0	0	0	0	0	0	0	0
T7 Single C	Natural Ga	0.00%	30.13285	150.606	0	0.384686	0.5776113	0	1.669165	5.761495	0.418475	0.628345	0	6.678146
T7 Single D	Diesel	0.02%	8793.624	8957.08	3157.862	114.208	3.9009888	0	63.65967	217.3466	119.7988	4.091953	0	255.5492
T7 Single D	Electricity	0.02%	0	0	0	0	0	0	0	0	0	0	0	0
T7 Single D	Natural Ga	0.00%	41.97509	189.4902	0	0.503993	0.7471032	0	2.227447	7.624462	0.548362	0.812874	0	8.913423
T7 Single O	Diesel	0.16%	67197.85	72445.81	25534.99	856.762	31.162617	0	509.3523	1745.254	897.7636	32.65395	0	2042.557
T7 Single O	Electricity	0.16%	0	0	0	0	0	0	0	0	0	0	0	0
T7 Single O	Natural Ga	0.01%	330.4064	1600.164	0	4.253837	6.3593097	0	18.55842	63.6246	4.62937	6.920717	0	74.28077
T7 SWCV C	Diesel	0.01%	1801.327	1933.895	1274.139	34.15256	1.1210708	0	18.51804	151.2306	35.24517	1.156936	0	73.13501
T7 SWCV C	Electricity	0.03%	0	0	0	0	0	0	0	0	0	0	0	0
T7 SWCV C	Natural Ga	0.03%	1220.602	274.6601	0	9.985547	0.8825758	0	84.86695	693.0801	10.85943	0.959814	0	339.444
T7 Tractor (	Diesel	1.09%	311286.6	587688.9	128061.6	4581.253	226.64193	0	1998.024	6705.429	4777.595	236.3553	0	7974.069
T7 Tractor (	Electricity	0.22%	0	0	0	0	0	0	0	0	0	0	0	0
T7 Tractor (	Natural Ga	0.02%	557.355	5209.823	0	6.854766	19.865466	0	31.05881	104.2126	7.456604	21.60962	0	124.2589
T7 Utility Cl	Diesel	0.00%	1315.814	471.938	711.996	6.985034	0.1885292	0	9.040594	35.79402	7.311023	0.197328	0	36.21268
T7 Utility Cl	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
T7IS	Gasoline	0.00%	83.3964	0	10.14395	0.032565	0	0.001575	0.113739	0.770701	0.03542	0	0.001713	0.454983
T7IS	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
UBUS	Gasoline	0.00%	5.996914	0	14.80859	0.435741	0	0.007123	0.734174	11.69172	0.473908	0	0.007747	2.936695
UBUS	Diesel	0.00%	5.173914	0	0	0.362369	0	0	0.082125	0.871897	0.378754	0	0	0.328501
UBUS	Electricity	0.03%	0	0	0	0	0	0	35.81989	95.13892	0	0	0	143.2795
UBUS	Natural Ga	0.00%	20.84348	0	0	1.459831	0	0	0.330847	3.512497	1.525838	0	0	1.32339
Total		100.00%	#########	#########	#########	24098.64	1574.84	1616.13	37827.99	71600.87	25524.51	1655.29	1755.58	#########

T6TS	Gasoline	772.7342	24559827	532307.2	84131.33	42.86928	304.3328	81.70621	152.0469	8.929641	123.2891	129.0665	917.2005	321.1868	24.06299
T6TS	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 CAIRP C	Diesel	7756.543	115441236	1.32E+08	0	49.69607	3292.745	0	18187.81	20724.68	0	1069.943	70891.89	0	0
T7 CAIRP C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 NNOOS	Diesel	6635.397	99079598	1.4E+08	0	41.80912	3535.951	0	15610.03	22107.69	0	900.1389	76128.06	0	0
T7 NOOS C	Diesel	2861.177	42708071	60484752	0	18.60258	1524.536	0	6728.674	9529.397	0	400.5084	32822.84	0	0
T7 Other Pc	Diesel	114.1775	1596617.5	551129.1	0	0.557198	13.74551	0	251.5477	86.83062	0	11.99632	295.9371	0	0
T7 Other Pc	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 POAK Cl	Diesel	614.226	8590467.9	2975887	0	3.092969	74.94009	0	1353.432	468.8522	0	66.59077	1613.44	0	0
T7 POAK Cl	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 POLA Cl	Diesel	521.8348	7357723.9	2548341	0	2.743715	63.78157	0	1159.212	401.4922	0	59.07143	1373.2	0	0
T7 POLA Cl	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 POLA Cl	Natural Ga	2.532555	28172.63	27882.49	0	31.60316	93.48213	0	5.743175	5.684028	0	0.451547	1.335675	0	0
T7 Public C	Diesel	1312.266	18046948	2073928	0	11.1827	43.57851	0	2843.304	326.7483	0	240.7604	938.2334	0	0
T7 Public C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Public C	Natural Ga	183.2642	2190270.2	627318.7	0	2852.556	2125.332	0	446.5009	127.883	0	40.75739	30.36681	0	0
T7 Single C	Diesel	453.0679	6896030.5	1265508	0	1.985415	31.29394	0	1086.472	199.3813	0	42.74545	673.7499	0	0
T7 Single C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Single C	Natural Ga	16.46508	183537.95	104204.6	0	196.6293	348.4414	0	37.41541	21.24279	0	2.809444	4.97854	0	0
T7 Single D	Diesel	623.2108	9697631.7	1817563	0	2.956472	41.08866	0	1527.866	286.3578	0	63.65203	884.6277	0	0
T7 Single D	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Single D	Natural Ga	21.79306	244915.34	138233.3	0	254.5906	463.2235	0	49.92759	28.17976	0	3.637597	6.61855	0	0
T7 Single O	Diesel	4999.038	76915221	14253892	0	22.89326	332.6033	0	12118.02	2245.707	0	492.8855	7160.859	0	0
T7 Single O	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Single O	Natural Ga	181.8999	2031888.1	1152062	0	2133.105	3812.125	0	414.2137	234.8553	0	30.47786	54.46775	0	0
T7 SWCV C	Diesel	426.6209	6182543.9	404519.4	0	2.787964	8.752794	0	974.0623	63.73219	0	60.02411	188.4452	0	0
T7 SWCV C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 SWCV C	Natural Ga	1980.09	10942654	3822660	0	1948.643	1166.314	0	2230.732	779.2743	0	30.56963	16.9311	0	0
T7 Tractor (	Diesel	19115.15	269552528	1.03E+08	0	102.7086	2541.352	0	42468.11	16152.4	0	2211.289	54714.6	0	0
T7 Tractor (	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Tractor (	Natural Ga	297.8072	3357502.7	3615572	0	3500.917	12069.76	0	684.4489	737.058	0	50.02119	172.453	0	0
T7 Utility Cl	Diesel	102.4109	1424820.8	89191.85	0	0.486365	2.03449	0	224.4811	14.05221	0	10.47131	43.802	0	0
T7 Utility Cl	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7IS	Gasoline	2.202124	38362.196	0	131.2983	2.005362	0	0.004017	3.085116	0	0.42183	8.95896	0	0.022889	0.032732
T7IS	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UBUS	Gasoline	33.40491	279133.42	0	1664.782	0.399336	0	1.208144	0.723203	0	1.785934	1.257587	0	4.88757	1.343258
UBUS	Diesel	2.491133	16363.723	0	0	0.120645	0	0	2.578111	0	0	2.597414	0	0	0
UBUS	Electricity	271.8255	0	0	0	0	0	0	0	0	0	0	0	0	0
UBUS	Natural Ga	10.03571	79576.092	0	0	0.486027	0	0	16.22211	0	0	10.46387	0	0	0
Total		#########	#########	#########	#########	75359.71	42086.84	76500.45	#########	81372.96	57067.39	#########	#########	#########	#########

T6TS	Gasoline	371.1742	1933.406	112.5831	800.0624	210.2168	14.38451	221.8826	1155.762	330.6766	1168.997	8156.233	3215.963	111.1727	2.409547	0.38083
T6TS	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 CAIRP C	Diesel	0	0	952.0929	63083.43	0	0	0	0	16106.2	2828.218	818771.6	0	885.372	1008.865	0
T7 CAIRP C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 NNOOS	Diesel	0	0	1024.74	86666	0	0	0	0	17828.2	3044.673	1124853	0	938.2245	1328.759	0
T7 NOOS C	Diesel	0	0	455.9483	37366.31	0	0	0	0	7686.683	1354.387	484984.3	0	404.4199	572.7544	0
T7 Other Pc	Diesel	0	0	11.06544	272.9732	0	0	0	0	212.7219	61.49912	3542.971	0	12.55147	4.332586	0
T7 Other Pc	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 POAK Cl	Diesel	0	0	61.64597	1493.631	0	0	0	0	1163.953	342.6139	19386.12	0	68.46015	23.71578	0
T7 POAK Cl	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 POLA Cl	Diesel	0	0	56.47096	1312.748	0	0	0	0	1022.995	315.284	17038.41	0	60.27238	20.87529	0
T7 POLA Cl	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 POLA Cl	Natural Ga	0	0	26.99211	79.84266	0	0	0	0	23.89879	112.2096	257.2283	0	0	0	0
T7 Public C	Diesel	0	0	171.8888	669.8435	0	0	0	0	1446.691	912.7616	8504.18	0	101.5115	11.66555	0
T7 Public C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Public C	Natural Ga	0	0	1536.764	1144.986	0	0	0	0	934.3036	7160.228	3372.181	0	0	0	0
T7 Single C	Diesel	0	0	20.71195	326.4599	0	0	0	0	466.8669	92.02329	4237.185	0	29.00315	5.32244	0
T7 Single C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Single C	Natural Ga	0	0	84.2521	149.3009	0	0	0	0	82.00739	312.5277	480.9455	0	0	0	0
T7 Single D	Diesel	0	0	38.41261	533.8534	0	0	0	0	763.4694	177.3481	6925.323	0	48.28045	9.048885	0
T7 Single D	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Single D	Natural Ga	0	0	131.6527	239.54	0	0	0	0	128.2126	519.1747	725.8073	0	0	0	0
T7 Single O	Diesel	0	0	282.5624	4105.191	0	0	0	0	5870.811	1267.542	53270.4	0	367.6197	68.12711	0
T7 Single O	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Single O	Natural Ga	0	0	1048.633	1874.039	0	0	0	0	1020.854	3962.986	5920.838	0	0	0	0
T7 SWCV C	Diesel	0	0	43.68923	137.162	0	0	0	0	257.0415	86.87171	1695.71	0	39.45015	2.581195	0
T7 SWCV C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 SWCV C	Natural Ga	0	0	1683.724	1006.43	0	0	0	0	2896.12	48995.56	12779.08	0	0	0	0
T7 Tractor (	Diesel	0	0	2101.327	51993.79	0	0	0	0	40074.97	8596.535	674810.4	0	2179.505	828.9568	0
T7 Tractor (	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Tractor (	Natural Ga	0	0	2968.545	10234.35	0	0	0	0	3019.916	10520.85	32718.93	0	0	0	0
T7 Utility Cl	Diesel	0	0	6.551278	27.40431	0	0	0	0	114.8934	52.19462	355.5615	0	7.563312	0.473453	0
T7 Utility Cl	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7IS	Gasoline	0.513245	2.634012	6.33002	0	0.012135	0.015849	0.248518	1.275414	0.457571	293.7855	0	7.402703	0.180417	0	0.000617
T7IS	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UBUS	Gasoline	4.972994	9.564092	1.835067	0	5.351274	1.343258	4.972994	9.564092	16.5189	210.5293	0	316.4763	3.051991	0	0.018202
UBUS	Diesel	0	0	2.956983	0	0	0	0	0	6.022517	5.021051	0	0	0.171522	0	0
UBUS	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UBUS	Natural Ga	0	0	11.91242	0	0	0	0	0	106.974	20.22766	0	0	0	0	0
Total		#########	#########	#########	#########	#########	#########	#########	#########	#########	#########	#########	#########	43850.72	4103.19	1235.71

New Fresno Courthouse Project

On Road Mitigated Operational Emissions (2050)

EMFAC 2021 with USEPA Adjustment Factors

VMT	12,021,482
Trips	1,744,090
Vehicles	872,045

Air Quality Emissions (tons)						GHG Emissions (metric ton)			
ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	NO2	CO2e
2.21	3.92	13.74	0.04	5.82	1.487	3980.16	0.14	0.27	4063.214

Vehicle Cat	Fuel	Vehicle Mix	NOx_RUNE	NOx_IDLEX	NOx_STREX	PM2.5_RUN	PM2.5_IDLEX	PM2.5_STR	PM2.5_PMT	PM2.5_PMB	PM10_RUN	PM10_IDLE	PM10_STRE	PM10_PMT
All Other B	Diesel	0.01%	1299.116	229.4531	239.8351	5.686157	0.0985291	0	4.601925	24.77071	5.918774	0.10256	0	18.33186
All Other B	Natural Ga	0.00%	7.578191	12.74128	0	0.199141	0.0475348	0	0.358253	1.928365	0.216584	0.051698	0	1.433013
LDA	Gasoline	40.29%	91829.44	0	112381.3	1940.049	0	504.4776	9687.877	9983.166	2109.98	0	548.6654	38751.51
LDA	Diesel	0.02%	22.7212	0	0	1.959724	0	0	5.760799	5.940353	2.048334	0	0	23.0432
LDA	Electricity	5.62%	0	0	0	0	0	0	1351.763	1039.806	0	0	0	5407.054
LDA	Plug-in Hyb	1.91%	557.652	0	3762.469	37.43975	0	24.89756	458.316	304.0665	40.71914	0	27.07837	1833.264
LDT1	Gasoline	2.71%	6619.133	0	8248.687	137.9974	0	36.65796	650.9519	806.5034	150.0848	0	39.86887	2603.808
LDT1	Diesel	0.00%	0.093852	0	0	0.014313	0	0	0.007578	0.009356	0.01496	0	0	0.030312
LDT1	Electricity	0.08%	0	0	0	0	0	0	20.31363	15.64345	0	0	0	81.2545
LDT1	Plug-in Hyb	0.06%	18.8447	0	127.2449	1.25991	0	0.825026	15.50003	10.30042	1.370267	0	0.897291	62.00012
LDT2	Gasoline	22.87%	59506.4	0	81139.94	1131.196	0	295.7866	5497.862	6758.877	1230.279	0	321.6949	21991.45
LDT2	Diesel	0.09%	260.3556	0	0	39.05306	0	0	20.88768	25.65988	40.81887	0	0	83.55072
LDT2	Electricity	0.93%	0	0	0	0	0	0	223.2236	171.8629	0	0	0	892.8945
LDT2	Plug-in Hyb	0.63%	184.8137	0	1246.699	12.4638	0	8.209751	151.8636	100.8821	13.55552	0	8.928853	607.4543
LHD1	Gasoline	0.78%	2417.115	282.9473	9137.168	217.0683	0	2.411172	374.5715	5112.901	236.0569	0	2.622095	1498.129
LHD1	Diesel	0.51%	24238.1	7391.577	0	1977.877	220.52896	0	345.5866	3144.838	2099.483	234.0877	0	1403.86
LHD1	Electricity	1.04%	0	0	0	0	0	0	0	0	0	0	0	0
LHD2	Gasoline	0.09%	350.1273	27.11636	870.6266	23.59376	0	0.261613	40.7828	649.4662	25.65891	0	0.284512	163.122
LHD2	Diesel	0.26%	16504.04	3777.276	0	1258.101	106.74176	0	167.7718	1781.177	1345.603	114.1658	0	686.7121
LHD2	Electricity	0.25%	0	0	0	0	0	0	0	0	0	0	0	0
MCY	Gasoline	1.75%	93724.68	0	1689.033	384.1751	0	101.9569	209.8844	881.5144	412.1167	0	109.3766	839.5376
MDV	Gasoline	13.44%	35963.75	0	50126.1	667.7476	0	176.2872	3230.488	4020.925	726.2364	0	191.7285	12921.95
MDV	Diesel	0.15%	159.6997	0	0	14.20283	0	0	35.83341	44.68814	14.84502	0	0	143.3336
MDV	Electricity	0.86%	0	0	0	0	0	0	206.1852	158.9463	0	0	0	824.7406
MDV	Plug-in Hyb	0.40%	118.3633	0	798.3586	8.019152	0	5.326755	97.25011	64.66147	8.72156	0	5.793332	389.0004
MH	Gasoline	0.10%	2582.808	0	563.9567	16.31582	0	0.599024	35.6146	187.1741	17.74494	0	0.651494	142.4584
MH	Diesel	0.06%	18769.35	0	0	130.9648	0	0	30.51904	119.7462	136.8864	0	0	122.0762
Motor Coac	Diesel	0.01%	1366.808	1903.469	207.6177	21.00328	1.1015675	0	2.8007	26.72749	21.43464	1.124191	0	10.93829
OBUS	Gasoline	0.01%	1232.831	16.86624	230.6557	3.667945	0	0.11447	9.34822	48.95446	3.986846	0	0.124423	37.37058
OBUS	Electricity	0.01%	0	0	0	0	0	0	0	0	0	0	0	0
PTO	Diesel	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
PTO	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
SBUS	Gasoline	0.01%	205.5892	89.19069	146.7063	1.573711	0	0.155971	2.673168	21.01243	1.711577	0	0.169635	10.69281
SBUS	Diesel	0.04%	4434.581	6186.522	1249.392	31.33637	1.8480497	0	33.17022	173.8229	32.83737	1.93657	0	133.0216
SBUS	Electricity	0.06%	0	0	0	0	0	0	0	0	0	0	0	0
SBUS	Natural Ga	0.01%	419.0968	1184.149	0	11.79735	4.6539378	0	10.47615	54.8985	12.84789	5.068365	0	41.96075
T6 CAIRP C	Diesel	0.00%	84.87503	57.83167	25.15102	1.742808	0.0170263	0	1.032592	5.097505	1.812674	0.017709	0	4.110107
T6 CAIRP C	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
T6 CAIRP C	Diesel	0.00%	103.3163	70.31727	30.57833	2.13833	0.0208785	0	1.266212	6.250794	2.224151	0.021716	0	5.040227
T6 CAIRP C	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
T6 CAIRP C	Diesel	0.01%	495.3741	332.3087	144.5581	9.819139	0.0952222	0	5.774911	28.50849	10.22251	0.099134	0	23.00825
T6 CAIRP C	Electricity	0.01%	0	0	0	0	0	0	0	0	0	0	0	0
T6 CAIRP C	Diesel	0.02%	686.336	445.3591	192.3563	15.10725	0.1376026	0	8.345147	41.19674	15.71653	0.143152	0	33.22458
T6 CAIRP C	Electricity	0.01%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate D	Diesel	0.03%	3655.334	4432.811	1578.252	12.9573	1.2237968	0	22.00337	122.0969	13.51319	1.2763	0	87.81865
T6 Instate D	Electricity	0.03%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate D	Diesel	0.03%	4632.713	5645.354	2007.643	16.43378	1.5534006	0	27.92954	154.9813	17.13632	1.619809	0	111.4547
T6 Instate D	Electricity	0.04%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate D	Diesel	0.08%	10790.42	12946.11	4606.846	37.99189	3.5680117	0	64.15145	355.9769	39.63519	3.722342	0	256.1242
T6 Instate D	Electricity	0.10%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate D	Diesel	0.04%	5123.208	5211.834	1805.453	18.95885	1.4469347	0	26.01525	144.3588	19.87425	1.516798	0	104.3665
T6 Instate D	Electricity	0.03%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate D	Natural Ga	0.00%	11.86272	70.50636	0	0.391411	0.2871103	0	0.63377	3.516792	0.424948	0.31171	0	2.530624
T6 Instate C	Diesel	0.05%	5662.43	9589.177	3635.651	43.62035	2.7036197	0	45.18201	236.4873	45.4544	2.817295	0	180.18
T6 Instate C	Electricity	0.07%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate C	Diesel	0.14%	14673.96	25014.15	9456.216	113.3274	7.0220816	0	117.4095	614.5333	118.0913	7.317268	0	468.2097
T6 Instate C	Electricity	0.17%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate C	Diesel	0.12%	13032.94	21889.2	8282.765	100.2075	6.1670086	0	103.0945	539.607	104.4827	6.430118	0	411.3712
T6 Instate C	Electricity	0.15%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate C	Diesel	0.09%	9002.664	12703.34	4719.196	72.15176	3.6690838	0	61.17338	320.1878	75.72611	3.850848	0	245.7058
T6 Instate C	Electricity	0.07%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate C	Natural Ga	0.00%	21.85669	161.4065	0	0.665722	0.6793328	0	1.395083	7.302008	0.723918	0.738719	0	5.579446
T6 Instate T	Diesel	0.00%	122.0295	206.3915	78.33242	0.951252	0.0589837	0	0.9856	5.158731	0.992105	0.061517	0	3.933841
T6 Instate T	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate T	Diesel	0.16%	10078.75	15605.16	5753.782	80.05183	4.319083	0	71.95935	376.6426	83.60472	4.510774	0	287.6079
T6 Instate T	Electricity	0.04%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate T	Natural Ga	0.00%	28.44428	210.2302	0	0.80323	0.8198037	0	1.682945	8.808707	0.873456	0.891479	0	6.730781
T6 OOS Cla	Diesel	0.00%	43.00067	40.71625	17.14399	1.039824	0.0097229	0	0.589664	2.910943	1.08684	0.010163	0	2.358657
T6 OOS Cla	Diesel	0.00%	53.04465	49.99259	21.05005	1.278672	0.0119377	0	0.723982	3.57402	1.336488	0.012477	0	2.89593
T6 OOS Cla	Diesel	0.01%	239.1705	227.5915	95.84319	5.802198	0.0543501	0	3.296154	16.27183	6.064548	0.056808	0	13.18461
T6 OOS Cla	Diesel	0.01%	310.6415	279.6954	117.7762	7.547208	0.0667937	0	4.050817	19.99731	7.888459	0.069814	0	16.20327
T6 Public C	Diesel	0.00%	524.0574	1040.331	259.8434	3.28424	0.3412295	0	3.328018	17.92613	3.454155	0.358883	0	13.39512
T6 Public C	Electricity	0.01%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	0.00%	8.888311	83.03317	0	0.256998	0.3280736	0	0.468609	2.524129	0.279699	0.357052	0	1.875711
T6 Public C	Diesel	0.01%	875.5266	1615.102	401.9207	5.147605	0.4817563	0	5.192952	27.97146	5.410209	0.506333	0	20.88706
T6 Public C	Electricity	0.01%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	0.00%	17.19846	134.0911	0	0.404475	0.5095118	0	0.762294	4.10604	0.439914	0.554153	0	3.049246
T6 Public C	Diesel	0.01%	933.0979	1935.676	508.5005	5.703698	0.5727242	0	6.202992	33.41196	5.97718	0.600185	0	24.87684
T6 Public C	Electricity	0.01%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	0.00%	16.96803	154.3416	0	0.475183	0.6059165	0	0.870265	4.68762	0.517181	0.659469	0	3.483592
T6 Public C	Diesel	0.02%	1826.709	4458.807	1185.218	12.27755	1.2438388	0	14.03802	75.61476	12.85768	1.302612	0	56.26144
T6 Public C	Electricity	0.02%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	0.00%	40.2081	358.7435	0	1.092295	1.3889352	0	2.007133	10.81128	1.188627	1.511429	0	8.032973
T6 Utility C	Diesel	0.00%	286.3566	477.7435	178.2165	2.07251	0.1280291	0	2.825188	14.99595	2.163068	0.133623	0	11.28431
T6 Utility C	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Utility C	Natural Ga	0.00%	0.114703	0.616345	0	0.00319	0.0023508	0	0.00636	0.03376	0.00347	0.002557	0	0.025444
T6 Utility C	Diesel	0.00%	53.41099	90.77255	33.86274	0.389979	0.0242094	0	0.534224	2.835635	0.406863	0.025258	0	2.132973
T6 Utility C	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Utility C	Natural Ga	0.00%	0.021677	0.116479	0	0.000603	0.0004443	0	0.001202	0.00638	0.000656	0.000483	0	0.004808
T6 Utility C	Diesel	0.00%	57.44402	100.3642	37.43818	0.435647	0.027191	0	0.600017	3.184861	0.454575	0.028372	0	2.396015
T6 Utility C	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Utility C	Natural Ga	0.00%	0.024211	0.130093	0	0.000677	0.000499	0	0.00135	0.007166	0.000737	0.000543	0	0.005402

Vehicle Cat	Fuel	PM10_PMB	CO2_RUNEX	CO2_IDLEX	CO2_STREX	CH4_RUNE	CH4_IDLEX	CH4_STREX	N2O_RUNE	N2O_IDLEX	N2O_STREX	ROG_RUNE	ROG_IDLEX	ROG_STREX	ROG_HOTS	ROG_RUNL	ROG_DIURN
All Other B	Diesel	70.48187	1526908.2	58346.17	0	0.987291	0.256512	0	240.565	9.192462	0	21.25611	5.522628	0	0	0	0
All Other B	Natural Ga	5.509613	105738.37	9869.605	0	102.6442	29.58144	0	21.55546	2.011984	0	1.466583	0.42266	0	0	0	0
LDA	Gasoline	28523.33	1.093E+09	0	37353843	4365.573	0	21464.69	15036.57	0	17777.98	12586.8	0	80269.98	25209.97	104732.2	328191.6
LDA	Diesel	16.97244	497651.23	0	0	0.423168	0	0	78.40515	0	0	9.11056	0	0	0	0	0
LDA	Electricity	2970.873	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LDA	Plug-in Hyb	868.7614	25018007	0	1837491	70.32626	0	1301.797	93.59522	0	618.9795	231.3982	0	5558.869	1323.111	2745.554	15320.65
LDT1	Gasoline	2304.295	84363036	0	2917698	313.6515	0	1525.787	1050.393	0	1269.708	917.6172	0	5800.804	2359.739	11001.32	33887.17
LDT1	Diesel	0.026732	1226.6211	0	0	0.001777	0	0	0.193255	0	0	0.038253	0	0	0	0	0
LDT1	Electricity	44.69558	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LDT1	Plug-in Hyb	29.42976	845281.35	0	71367.93	2.367964	0	44.00758	3.139872	0	20.9113	7.819625	0	187.9983	47.32783	104.3208	585.7708
LDT2	Gasoline	19311.08	740169151	0	26009566	3339.544	0	15894.66	9156.686	0	12208.89	10064.08	0	61987.85	16578.17	74266.44	230418.7
LDT2	Diesel	73.31395	2500415.6	0	0	4.880171	0	0	393.9415	0	0	105.0672	0	0	0	0	0
LDT2	Electricity	491.0368	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LDT2	Plug-in Hyb	288.2347	8289988.1	0	734490	23.2054	0	430.894	30.74649	0	204.6193	76.68864	0	1841.938	455.4352	990.4651	5522.976
LHD1	Gasoline	14606.76	125053867	1304534	572529.2	192.88	1002.358	456.0318	245.5018	30.10381	948.5704	506.149	2690.083	1580.388	385.0191	3961.148	21912.47
LHD1	Diesel	9125.093	64157888	898628	0	450.1458	42.14028	0	10108.1	141.5792	0	9691.375	907.2555	0	0	0	0
LHD1	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LHD2	Gasoline	1855.512	15444372	164677.1	61907.21	19.49089	95.2252	43.78766	38.14084	2.89153	91.24947	50.13347	252.2285	149.8527	45.37668	467.6513	2602.162
LHD2	Diesel	5207.567	36946986	725513.3	0	271.608	20.09593	0	5821.013	114.3049	0	5847.561	432.6536	0	0	0	0
LHD2	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MCY	Gasoline	2518.613	38083747	0	1055188	24975.14	0	3735.215	7196.034	0	118.7895	145708.2	0	25341.38	109354.9	119474.3	58867.77
MDV	Gasoline	11488.36	525327774	0	18631280	2001.474	0	9544.063	5441.007	0	7347.277	6077.445	0	37713.05	10861.33	48709.2	152007.9
MDV	Diesel	127.6804	5607623.3	0	0	2.951059	0	0	883.4833	0	0	63.53456	0	0	0	0	0
MDV	Electricity	454.1324	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MDV	Plug-in Hyb	184.7471	5309545.5	0	572476.9	14.8109	0	274.1794	19.55899	0	129.383	49.11498	0	1179.537	302.8771	681.7429	3759.056
MH	Gasoline	534.783	23118959	0	50234.13	33.56552	0	55.5187	211.9944	0	64.93887	94.65604	0	188.983	4473.985	181.3465	1605.982
MH	Diesel	342.1319	8318467.1	0	0	29.1338	0	0	1310.578	0	0	627.2336	0	0	0	0	0
Motor Coac	Diesel	74.56125	1359815.9	535990.6	0	0.437046	12.01723	0	214.2395	84.44553	0	9.409478	258.7277	0	0	0	0
OBUS	Gasoline	139.7865	4362344.3	71301.22	10889.77	4.188211	34.53581	9.712143	61.84249	1.425472	14.41076	11.35742	98.34498	36.60646	7.470444	54.86091	493.9675
OBUS	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PTO	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PTO	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SBUS	Gasoline	60.03628	859942.5	201858.4	8559.113	2.454435	245.3109	13.3878	16.47305	9.490922	13.39187	9.224775	920.1981	64.59708	17.34611	114.7584	316.0916
SBUS	Diesel	497.9122	10310605	1326043	0	2.792094	5.736828	0	1624.44	208.9186	0	60.11302	123.5123	0	0	0	0
SBUS	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SBUS	Natural Ga	157.063	3270266.7	973061.8	0	7637.698	2896.529	0	666.6653	198.365	0	109.1276	41.38568	0	0	0	0
T6 CAIRP C	Diesel	14.49286	323710.86	11860.15	0	0.081842	0.05575	0	51.00078	1.868572	0	1.762034	1.200277	0	0	0	0
T6 CAIRP C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 CAIRP C	Diesel	17.7726	397012.19	14547.52	0	0.100393	0.068349	0	62.54943	2.291968	0	2.161436	1.471533	0	0	0	0
T6 CAIRP C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 CAIRP C	Diesel	81.13057	1812840.9	66408.59	0	0.45836	0.312393	0	285.6138	10.4627	0	9.868366	6.72574	0	0	0	0
T6 CAIRP C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 CAIRP C	Diesel	117.1549	2358777.7	95826.3	0	0.722073	0.453014	0	371.6264	15.09747	0	15.54604	9.753259	0	0	0	0
T6 CAIRP C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate D	Diesel	348.0759	7077162.7	859635.2	0	1.953383	3.991981	0	1115.01	135.4359	0	42.0558	85.94626	0	0	0	0
T6 Instate D	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate D	Diesel	441.7591	8982341.5	1090923	0	2.478461	5.066409	0	1415.172	171.8753	0	53.36058	109.0784	0	0	0	0
T6 Instate D	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate D	Diesel	1015.168	20644335	2507587	0	5.696313	11.6479	0	3252.523	395.0714	0	122.6401	250.776	0	0	0	0
T6 Instate D	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate D	Diesel	413.6646	8628144.4	1063595	0	2.864716	4.644383	0	1359.368	167.5698	0	61.67654	99.99229	0	0	0	0
T6 Instate D	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate D	Natural Ga	10.03032	194665.14	60090.35	0	183.1676	173.5599	0	39.68376	12.24981	0	2.617104	2.479829	0	0	0	0
T6 Instate C	Diesel	673.6288	14078396	1895131	0	3.601652	8.734062	0	2218.057	298.5787	0	77.54259	188.042	0	0	0	0
T6 Instate C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate C	Diesel	1750.47	36586441	4924375	0	9.363927	22.69194	0	5764.209	775.8374	0	201.6028	488.5513	0	0	0	0
T6 Instate C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate C	Diesel	1537.971	32156700	4328431	0	8.232503	19.94918	0	5066.301	681.946	0	177.2435	429.5004	0	0	0	0
T6 Instate C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate C	Diesel	918.6065	19472991	2697384	0	5.805813	11.35093	0	3067.978	424.974	0	124.9976	244.3824	0	0	0	0
T6 Instate C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate C	Natural Ga	20.85957	365893.63	139753.8	0	312.9784	399.0359	0	74.58981	28.48973	0	4.471844	5.701436	0	0	0	0
T6 Instate T	Diesel	14.70723	307400.16	41373.45	0	0.077283	0.189953	0	48.43102	6.518403	0	1.663877	4.089645	0	0	0	0
T6 Instate T	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate T	Diesel	1075.264	20816872	3114291	0	6.70052	14.03198	0	3279.707	490.6578	0	144.2604	302.1047	0	0	0	0
T6 Instate T	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate T	Natural Ga	25.164	445719.91	169850.4	0	388.6507	495.3362	0	90.86292	34.62511	0	5.553052	7.077377	0	0	0	0
T6 OOS Cla	Diesel	8.316979	186753.06	6855.959	0	0.047452	0.032671	0	29.42302	1.080159	0	1.021634	0.703403	0	0	0	0
T6 OOS Cla	Diesel	10.21149	229371.93	8424.059	0	0.058366	0.040114	0	36.13764	1.327214	0	1.256597	0.863645	0	0	0	0
T6 OOS Cla	Diesel	46.49094	1042975.7	38264.7	0	0.264708	0.182625	0	164.3212	6.028619	0	5.699081	3.931871	0	0	0	0
T6 OOS Cla	Diesel	57.13516	1154212.8	46945.48	0	0.350486	0.224436	0	181.8467	7.39628	0	7.545865	4.832048	0	0	0	0
T6 Public C	Diesel	51.53705	1121677.8	206105.8	0	0.411118	0.873769	0	176.7208	32.47205	0	8.851256	18.81201	0	0	0	0
T6 Public C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	7.2167	135886.98	66891.22	0	135.1196	196.3575	0	27.70145	13.63621	0	1.930593	2.805561	0	0	0	0
T6 Public C	Diesel	80.36187	1752541.5	324456.9	0	0.781534	1.375429	0	276.1136	51.11831	0	16.82621	29.61262	0	0	0	0
T6 Public C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	11.73182	222062.21	107726.3	0	217.3306	329.8948	0	45.26883	21.96071	0	3.105225	4.713545	0	0	0	0
T6 Public C	Diesel	95.71234	2086404	384218.7	0	0.759609	1.662416	0	328.7138	60.53381	0	16.35417	35.79137	0	0	0	0
T6 Public C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	13.40294	253525.15	124685.8	0	250.7444	366.3786	0	51.68276	25.41801	0	3.582643	5.234827	0	0	0	0
T6 Public C	Diesel	216.463	4717592	864988.1	0	1.616507	3.813179	0	743.2585	136.2792	0	34.80295	82.0967	0	0	0	0
T6 Public C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	30.90645	585194.77	287007.3	0	580.8335	853.5397	0	119.2958	58.50831	0	8.298964	12.1954	0	0	0	0
T6 Utility C	Diesel	42.78323	894147.08	89660.29	0	0.218047	0.424875	0	140.8732	14.12601	0	4.694488	9.147445	0	0	0	0
T6 Utility C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Utility C	Natural Ga	0.096469	1728.459	476.2897	0	1.648662	1.423769	0	0.352358	0.097095	0	0.023556	0.020343	0	0	0	0
T6 Utility C	Diesel	8.086935	168973.97	16943.82	0	0.041205	0.080291	0	26.62192	2.669505	0	0.88714	1.728653	0	0	0	0
T6 Utility C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Utility C	Natural Ga	0.018231	326.64986	90.01079	0	0.311571	0.26907	0	0.06659	0.018349	0	0.004452	0.003844	0	0	0	0
T6 Utility C	Diesel	9.084228	189793.42	19012.75	0	0.045665	0.089828	0	29.90203	2.995467	0	0.983158	1.933975	0	0	0	0
T6 Utility C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Utility C	Natural Ga	0.020479	366.72652	101.0542	0	0.349365	0.301708	0	0.07476	0.020601	0	0.004992	0.004311	0	0	0	0

Vehicle Cat	Fuel	TOG_RUNE	TOG_IDLEX	TOG_STREX	TOG_HOTS	TOG_RUNL	TOG_DIURN	NH3_RUNE	CO_RUNEX	CO_IDLEX	CO_STREX	SOx_RUNE	SOx_IDLEX	SOx_STREX
All Other B	Diesel	24.19846	6.287092	0	0	0	0	333.5898	138.031	229.5805	0	14.45891	0.552503	0
All Other B	Natural Ga	104.7559	30.19003	0	0	0	0	126.5828	411.0625	94.71572	0	0	0	0
LDA	Gasoline	18366.63	0	87885.52	25209.97	104732.2	328191.6	203236	2342629	0	1105417	10806.82	0	369.2808
LDA	Diesel	10.37177	0	0	0	0	0	8.929235	298.8858	0	0	4.715498	0	0
LDA	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
LDA	Plug-in Hyb	337.6558	0	6086.262	1323.111	2745.554	15320.65	3917.591	40775.54	0	42719.17	247.3285	0	18.16547
LDT1	Gasoline	1338.985	0	6351.15	2359.739	11001.32	33887.17	13603.79	167977.4	0	77767.81	834.0145	0	28.84442
LDT1	Diesel	0.043548	0	0	0	0	0	0.011746	0.415099	0	0	0.011623	0	0
LDT1	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
LDT1	Plug-in Hyb	11.41038	0	205.8345	47.32783	104.3208	585.7708	132.4306	1377.172	0	1444.742	8.356467	0	0.705545
LDT2	Gasoline	14685.49	0	67868.89	16578.17	74266.44	230418.7	115208.1	1576725	0	812565.8	7317.326	0	257.131
LDT2	Diesel	119.612	0	0	0	0	0	32.37589	1128.355	0	0	23.69271	0	0
LDT2	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
LDT2	Plug-in Hyb	111.9039	0	2016.69	455.4352	990.4651	5522.976	1298.76	13506.92	0	14155.05	81.95497	0	7.261182
LHD1	Gasoline	509.3696	2707.2	1193.352	265.5356	2731.88	15112.35	4226.399	56252.94	25762.69	44972.6	687.7301	7.174247	3.148608
LHD1	Diesel	5906.175	552.905	0	0	0	0	13329.47	13001.13	4025.498	0	345.9443	4.845471	0
LHD1	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
LHD2	Gasoline	52.23257	262.7893	117.1462	32.39904	333.904	1857.949	469.7538	6316.76	2863.459	5041.984	86.38435	0.921081	0.346263
LHD2	Diesel	3765.466	278.6021	0	0	0	0	6584.339	8418.997	2028.399	0	204.2323	4.010428	0
LHD2	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
MCY	Gasoline	182676.9	0	27605.96	109354.9	119474.3	58867.77	1929.271	1883323	0	228619	376.4966	0	10.4316
MDV	Gasoline	8868.194	0	41291.04	10861.33	48709.2	152007.9	67588.95	949516.3	0	487329.9	5193.4	0	184.1892
MDV	Diesel	72.32987	0	0	0	0	0	55.54177	2067.016	0	0	53.13508	0	0
MDV	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
MDV	Plug-in Hyb	71.66846	0	1291.444	302.8771	681.7429	3759.056	831.7954	8651.718	0	9064.583	52.49026	0	5.659517
MH	Gasoline	138.1219	0	206.9126	4473.985	181.3465	1605.982	534.2188	1712.458	0	3506.885	228.5544	0	0.496616
MH	Diesel	714.0637	0	0	0	0	0	1660.619	1786.761	0	0	78.8217	0	0
Motor Coac	Diesel	10.71197	294.5418	0	0	0	0	196.4163	31.85646	3822.897	0	12.87664	5.07551	0
OBUS	Gasoline	12.20474	105.6819	29.51592	5.501497	40.4015	363.775	59.8631	214.0663	559.7199	431.438	20.0202	0.327224	0.049977
OBUS	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
PTO	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0
PTO	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
SBUS	Gasoline	7.763192	774.4009	40.78942	10.00397	66.18426	182.2986	30.93711	124.2605	4101.435	750.0634	4.763585	1.118179	0.047413
SBUS	Diesel	34.32914	70.535	0	0	0	0	1127.28	254.0707	2623.496	0	49.49723	6.365819	0
SBUS	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
SBUS	Natural Ga	3650.824	1384.542	0	0	0	0	1705.185	9557.089	4266.688	0	0	0	0
T6 CAIRP C	Diesel	0.803862	0.547581	0	0	0	0	29.57025	3.619872	20.36749	0	1.286636	0.04714	0
T6 CAIRP C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 CAIRP C	Diesel	0.986846	0.671857	0	0	0	0	36.28119	4.443434	24.98969	0	1.578817	0.057852	0
T6 CAIRP C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 CAIRP C	Diesel	4.497585	3.065309	0	0	0	0	165.5323	20.25505	114.0166	0	7.200209	0.26376	0
T6 CAIRP C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 CAIRP C	Diesel	13.50143	8.470513	0	0	0	0	457.4231	60.80352	315.0674	0	17.59679	0.714877	0
T6 CAIRP C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate D	Diesel	21.25568	43.43862	0	0	0	0	695.4265	163.2395	1615.671	0	30.96665	3.761398	0
T6 Instate D	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate D	Diesel	26.94957	55.08965	0	0	0	0	881.9471	206.7766	2048.991	0	39.28103	4.770757	0
T6 Instate D	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate D	Diesel	61.87378	126.5203	0	0	0	0	2025.53	475.4152	4705.931	0	90.19077	10.95512	0
T6 Instate D	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate D	Diesel	41.79763	67.76386	0	0	0	0	1084.007	318.5967	2515.384	0	48.87127	6.024383	0
T6 Instate D	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate D	Natural Ga	108.8746	103.1638	0	0	0	0	129.5519	466.5691	331.4939	0	0	0	0
T6 Instate C	Diesel	38.70804	93.8676	0	0	0	0	1397.972	261.8915	3491.323	0	60.38731	8.128902	0
T6 Instate C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate C	Diesel	100.5371	243.6352	0	0	0	0	3628.445	679.4539	9061.466	0	156.744	21.09706	0
T6 Instate C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate C	Diesel	88.43705	214.3026	0	0	0	0	3191.607	597.972	7970.637	0	137.8625	18.55689	0
T6 Instate C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate C	Diesel	82.38972	161.0799	0	0	0	0	2394.797	538.6107	5965.361	0	103.7372	14.36961	0
T6 Instate C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate C	Natural Ga	177.7881	226.6732	0	0	0	0	264.7989	667.4062	728.3002	0	0	0	0
T6 Instate T	Diesel	0.824145	2.025667	0	0	0	0	30.16847	5.587678	75.34463	0	1.302956	0.175367	0
T6 Instate T	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate T	Diesel	134.2019	281.0407	0	0	0	0	4182.779	899.7994	10437.04	0	163.4114	24.44703	0
T6 Instate T	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate T	Natural Ga	317.5836	404.761	0	0	0	0	472.9864	1192.109	1301.43	0	0	0	0
T6 OOS Cla	Diesel	1.163053	0.800771	0	0	0	0	43.24203	5.235565	29.78345	0	1.76844	0.064922	0
T6 OOS Cla	Diesel	1.43054	0.983195	0	0	0	0	53.09203	6.436893	36.56673	0	2.172015	0.079771	0
T6 OOS Cla	Diesel	6.48797	4.476135	0	0	0	0	241.7179	29.21839	166.4906	0	9.876356	0.362344	0
T6 OOS Cla	Diesel	8.590393	5.500919	0	0	0	0	297.0598	38.6873	204.6114	0	10.92971	0.444546	0
T6 Public C	Diesel	5.355141	11.38155	0	0	0	0	116.894	26.18652	419.6768	0	5.456402	1.002602	0
T6 Public C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	67.42254	97.97925	0	0	0	0	79.31476	228.7926	313.5541	0	0	0	0
T6 Public C	Diesel	10.23036	18.00452	0	0	0	0	181.7667	45.62365	653.2871	0	8.554941	1.58382	0
T6 Public C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	110.5347	167.785	0	0	0	0	130.8032	377.6738	490.637	0	0	0	0
T6 Public C	Diesel	9.713855	21.25892	0	0	0	0	218.1999	49.2121	784.597	0	10.18353	1.875332	0
T6 Public C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	126.2995	184.5441	0	0	0	0	148.6954	428.9625	584.1759	0	0	0	0
T6 Public C	Diesel	23.05313	54.38006	0	0	0	0	559.9826	120.0647	2013.777	0	25.68094	4.708696	0
T6 Public C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	328.4776	482.7006	0	0	0	0	386.9549	1116.575	1509.741	0	0	0	0
T6 Utility C	Diesel	2.117374	4.125809	0	0	0	0	81.06812	12.98862	153.4637	0	3.538309	0.354803	0
T6 Utility C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Utility C	Natural Ga	0.661696	0.571435	0	0	0	0	0.881718	2.283599	1.840986	0	0	0	0
T6 Utility C	Diesel	0.400133	0.779687	0	0	0	0	15.32009	2.454539	29.00127	0	0.668663	0.06705	0
T6 Utility C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Utility C	Natural Ga	0.125046	0.107989	0	0	0	0	0.166625	0.43155	0.347906	0	0	0	0
T6 Utility C	Diesel	0.440748	0.866998	0	0	0	0	17.03567	2.703684	32.24889	0	0.744272	0.074558	0
T6 Utility C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Utility C	Natural Ga	0.139049	0.120081	0	0	0	0	0.185284	0.479876	0.386865	0	0	0	0

T6TS	Gasoline	0.04%	1134.091	71.11187	1263.955	16.94144	0	0.838062	36.87644	193.8057	18.43679	0	0.912034	147.5972	554.0741	17610147	381680.7	60324.76	30.73858	218.216	58.58587	109.0223	6.402828	88.40207	92.54465	657.661	230.3008	17.25391	266.1434	1386.311	80.72552	573.6694	150.7319	10.31414	159.0967	828.717	237.1052	838.2066	5848.27	2305.945	79.71425	1.727719	0.273067
T6TS	Electricity	0.05%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 CAIRP C	Diesel	0.44%	102129.6	492593.4	19359.88	1931.877	209.83408	0	612.7731	1951.402	2014.246	218.7808	0	2445.045	5561.679	82774899	94320526	0	35.6336	2361	0	13041.22	14860.24	0	767.1817	50831.67	0	0	0	0	682.6797	45232.77	0	0	0	0	11548.64	2027.919	587084.5	0	634.8388	723.3875	0
T7 CAIRP C	Electricity	0.12%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 NNOOS	Diesel	0.48%	77424.54	645042.1	20032.69	1629.345	222.25953	0	522.956	1665.224	1703.016	232.3091	0	2091.824	4757.783	71043104	1.01E+08	0	29.97842	2535.386	0	11192.87	15851.89	0	645.4271	54586.16	0	0	0	0	734.7696	62142.19	0	0	0	0	12783.37	2183.123	806554.3	0	672.7357	952.7613	0
T7 NOOS C	Diesel	0.21%	34351.57	278111.6	8637.405	743.9208	95.827873	0	225.4741	718.043	777.5576	100.1608	0	901.8963	2051.551	30622994	43369431	0	13.33862	1093.139	0	4824.665	6832.872	0	287.1768	23534.99	0	0	0	0	326.9289	26792.8	0	0	0	0	5511.587	971.1369	347748.7	0	289.9814	410.6826	0
T7 Other Pc	Diesel	0.01%	1243.507	2087.465	266.7165	13.7388	0.8802076	0	7.845549	28.72785	14.32313	0.917644	0	31.30159	81.86875	1144823.6	395176.6	0	0.399528	9.855957	0	180.3674	62.26023	0	8.601729	212.1961	0	0	0	0	7.934258	195.7302	0	0	0	0	152.5281	44.09675	2540.419	0	8.999792	3.106598	0
T7 Other Pc	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 POAK Cl	Diesel	0.03%	7123.897	11490.94	1468.534	76.75368	4.7362732	0	42.21579	154.5805	79.99895	4.93653	0	168.3892	440.4188	6159628.4	2133802	0	2.217753	53.73435	0	970.452	336.1814	0	47.74762	1156.886	0	0	0	0	44.20204	1070.98	0	0	0	0	834.5901	245.6646	13900.45	0	49.08802	17.00495	0
T7 POAK Cl	Electricity	0.01%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 POLA Cl	Diesel	0.03%	6243.217	9973.595	1273.299	71.36309	4.0358892	0	35.97306	131.3365	74.37598	4.206281	0	143.4798	374.1715	5275713.2	1827239	0	1.967327	45.73335	0	831.1908	287.8823	0	42.35602	984.6265	0	0	0	0	40.4914	941.2808	0	0	0	0	733.5188	226.0683	12217.06	0	43.21714	14.96822	0
T7 POLA Cl	Electricity	0.01%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 POLA Cl	Natural Ga	0.00%	3.353336	29.1417	0	0.044829	0.1103974	0	0.17383	0.635588	0.048754	0.120064	0	0.695304	1.815919	20200.638	19992.61	0	22.66043	67.02957	0	4.118032	4.075623	0	0.323773	0.95772	0	0	0	0	19.35417	57.24965	0	0	0	0	17.13617	80.45775	184.4406	0	0	0	0
T7 Public C	Diesel	0.04%	14591.24	7894.284	7721.388	67.01255	3.5534816	0	78.5524	327.0555	70.52907	3.739953	0	316.3921	940.9349	12940214	1487071	0	8.018337	31.24713	0	2038.736	234.2886	0	172.6326	672.7422	0	0	0	0	123.2495	480.2984	0	0	0	0	1037.322	654.478	6097.759	0	72.78682	8.364556	0
T7 Public C	Electricity	0.03%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Public C	Natural Ga	0.01%	318.8011	617.8665	0	3.693069	2.3644942	0	11.03489	45.99759	4.016071	2.571297	0	44.13429	131.406	1570490.8	449806.8	0	2045.37	1523.929	0	320.1548	91.69606	0	29.2243	21.77394	0	0	0	0	1101.907	820.99	0	0	0	0	669.9242	5134.103	2417.958	0	0	0	0
T7 Single C	Diesel	0.01%	3963.082	4806.724	1670.653	47.4661	2.022848	0	33.08811	114.2103	49.39162	2.104907	0	131.7637	324.8636	4944664.9	907408.1	0	1.423604	22.43872	0	779.034	142.9625	0	30.64979	483.0994	0	0	0	0	14.85111	234.0818	0	0	0	0	334.7578	65.98351	3038.193	0	20.79614	3.816354	0
T7 Single C	Electricity	0.02%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Single C	Natural Ga	0.00%	21.60617	107.9892	0	0.275832	0.4141651	0	1.196842	4.131168	0.300059	0.450543	0	4.788435	11.80597	131602.33	74717.9	0	140.9892	249.8432	0	26.828	15.23173	0	2.014458	3.569767	0	0	0	0	60.41133	107.0533	0	0	0	0	58.8018	224.0919	344.8527	0	0	0	0
T7 Single D	Diesel	0.02%	6305.297	6422.502	2264.284	81.89065	2.7971292	0	45.64593	155.8442	85.89943	2.934057	0	183.2366	446.8612	6953498.7	1303249	0	2.119881	29.46184	0	1095.527	205.3273	0	45.64046	634.3053	0	0	0	0	27.54301	382.7893	0	0	0	0	547.4309	127.164	4965.67	0	34.61856	6.488329	0
T7 Single D	Electricity	0.02%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Single D	Natural Ga	0.00%	30.09742	135.8703	0	0.361379	0.5356961	0	1.597148	5.466972	0.393193	0.582856	0	6.391197	15.62629	175611.8	99117.51	0	182.5492	332.1455	0	35.79961	20.20575	0	2.608268	4.745704	0	0	0	0	94.39901	171.7576	0	0	0	0	91.93234	372.2641	520.4262	0	0	0	0
T7 Single O	Diesel	0.16%	48182.91	51945.88	18309.37	614.3246	22.344557	0	365.2212	1251.4	643.724	23.41389	0	1464.576	3584.463	55150567	10220480	0	16.41517	238.4868	0	8688.994	1610.241	0	353.414	5134.556	0	0	0	0	202.6059	2943.548	0	0	0	0	4209.551	908.8664	38196.52	0	263.5946	48.84923	0
T7 Single O	Electricity	0.16%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Single O	Natural Ga	0.01%	236.9115	1147.367	0	3.050131	4.559821	0	13.30696	45.62079	3.3194	4.962367	0	53.26159	130.4278	1456926	826063.6	0	1529.501	2733.411	0	297.0039	168.3985	0	21.85356	39.05506	0	0	0	0	751.9021	1343.744	0	0	0	0	731.9838	2841.582	4245.423	0	0	0	0
T7 SWCV C	Diesel	0.01%	1291.607	1386.663	913.5973	24.48843	0.8038423	0	13.278	108.437	25.27186	0.829559	0	52.44004	305.9002	4433073.2	290052.8	0	1.999056	6.276023	0	698.4325	45.69794	0	43.03912	135.121	0	0	0	0	31.32652	98.34939	0	0	0	0	184.3066	62.28968	1215.876	0	28.28697	1.850796	0
T7 SWCV C	Electricity	0.03%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 SWCV C	Natural Ga	0.03%	875.2093	196.9397	0	7.159943	0.632834	0	60.8522	496.9596	7.786544	0.688216	0	243.3917	1419.785	7846217.9	2740965	0	1397.237	836.2834	0	1599.503	558.7637	0	21.91936	12.14012	0	0	0	0	1207.282	721.6417	0	0	0	0	2076.607	35131.32	9162.997	0	0	0	0
T7 Tractor (	Diesel	1.09%	223202	421391.1	91824.08	3284.898	162.50925	0	1432.644	4807.998	3425.682	169.4741	0	5717.651	13706.15	193277412	73511503	0	73.64523	1822.227	0	30450.93	11581.77	0	1585.562	39232.06	0	0	0	0	1506.716	37281.15	0	0	0	0	28734.98	6163.979	483859.9	0	1562.772	594.3875	0
T7 Tractor (	Electricity	0.22%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Tractor (	Natural Ga	0.02%	399.6406	3735.603	0	4.915077	14.244151	0	22.27012	74.72366	5.346613	15.49477	0	89.09745	213.5369	2407432.2	2592476	0	2510.265	8654.387	0	490.7708	528.4933	0	35.86673	123.6541	0	0	0	0	2128.537	7338.345	0	0	0	0	2165.372	7543.769	23460.48	0	0	0	0
T7 Utility Cl	Diesel	0.00%	943.4787	338.3941	510.5231	5.008483	0.1351813	0	6.482383	25.66541	5.242227	0.14149	0	25.9656	73.43175	1021640.2	63953.3	0	0.348739	1.458792	0	160.9598	10.07587	0	7.508252	31.40739	0	0	0	0	4.697467	19.64974	0	0	0	0	82.38205	37.42514	254.9486	0	5.423126	0.33948	0
T7 Utility Cl	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7IS	Gasoline	0.00%	59.79777	0	7.273526	0.02335	0	0.001129	0.081555	0.552616	0.025397	0	0.001228	0.326237	1.57899	27506.868	0	94.14491	1.437906	0	0.00288	2.212123	0	0.302465	6.423848	0	0.016412	0.02347	0.368013	1.888668	4.538818	0	0.008701	0.011364	0.178195	0.914511	0.328092	210.6532	0	5.307967	0.129365	0	0.000443
T7IS	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UBUS	Gasoline	0.00%	4.299971	0	10.61822	0.31244	0	0.005107	0.526425	8.383319	0.339807	0	0.005555	2.1057	23.95234	200147.2	0	1193.7	0.286336	0	0.866276	0.518558	0	1.28057	0.901728	0	3.504538	0.963157	3.56579	6.857749	1.3158	0	3.837028	0.963157	3.56579	6.857749	11.84456	150.9559	0	226.9232	2.188371	0	0.013052
UBUS	Diesel	0.00%	3.709854	0	0	0.25983	0	0	0.058886	0.625176	0.271578	0	0	0.235545	1.786219	11733.29	0	0	0.086506	0	0	1.848585	0	0	1.862425	0	0	0	0	0	2.120248	0	0	0	0	0	4.318329	3.600247	0	0	0.122987	0	0
UBUS	Electricity	0.03%	0	0	0	0	0	0	25.68395	68.21752	0	0	0	102.7358	194.9072	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UBUS	Natural Ga	0.00%	14.94541	0	0	1.046744	0	0	0.237228	2.518568	1.094073	0	0	0.948911	7.195909	57058.493	0	0	0.348496	0	0	11.63175	0	0	7.502914	0	0	0	0	0	8.541569	0	0	0	0	0	76.70362	14.50385	0	0	0	0	0
Total		100.00%	########	########	########	17279.47	1129.21	1158.81	27123.82	51340.01	18301.85	1186.89	1258.80	########	########	########	########	########	54035.22	30177.56	54853.18	########	58346.92	40919.08	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	31442.31	2942.11	886.04

New Fresno Courthouse Project - Existing Conditions Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

1.2. Land Use Types

1.3. User-Selected Emission Reduction Measures by Emissions Sector

2. Emissions Summary

2.3. Operations Emissions Compared Against Thresholds

2.4. Operations Emissions by Sector, Unmitigated

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

8.1. Justifications

8.2. Project Characteristics

8.2.2. Utility Information

8.3. Land Use

8.5. Operations

8.5.1. Mobile Sources

8.5.1.1. Vehicle Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	New Fresno Courthouse Project - Existing Conditions
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.70000
Precipitation (days)	25.4000
Location	2200 Fresno St, Fresno, CA 93721, USA
County	Fresno
City	Fresno
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2400
EDFZ	5
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.43

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Government Office Building	87.0000	1000sqft	2.09000	87,000.0	0.00000	0.00000	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.3. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.74769	2.64443	0.96517	4.56724	0.00583	0.07766	0.00000	0.07766	0.07601	0.00000	0.07601	76.7246	1,221.55	1,298.28	7.85340	0.08292	0.21158	1,519.53
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.07497	2.02364	0.93331	0.78398	0.00560	0.07093	0.00000	0.07093	0.07093	0.00000	0.07093	76.7246	1,205.99	1,282.72	7.85275	0.08278	0.21158	1,503.92
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.40673	2.32979	0.94902	2.64970	0.00571	0.07425	0.00000	0.07425	0.07344	0.00000	0.07344	76.7246	1,213.67	1,290.39	7.85307	0.08285	0.21158	1,511.62
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.43923	0.42519	0.17320	0.48357	0.00104	0.01355	0.00000	0.01355	0.01340	0.00000	0.01340	12.7026	200.936	213.639	1.30017	0.01372	0.03503	250.266

2.4. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Area	2.64503	2.59310	0.03186	3.78326	0.00023	0.00672	—	0.00672	0.00508	—	0.00508	—	15.5597	15.5597	0.00065	0.00013	—	15.6158
Energy	0.10266	0.05133	0.93331	0.78398	0.00560	0.07093	—	0.07093	0.07093	—	0.07093	—	1,203.01	1,203.01	0.09855	0.00210	—	1,206.10
Water	—	—	—	—	—	—	—	—	—	—	—	33.1191	2.98437	36.1034	3.39598	0.08069	—	145.048
Waste	—	—	—	—	—	—	—	—	—	—	—	43.6055	0.00000	43.6055	4.35822	0.00000	—	152.561
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.21158	0.21158
Total	2.74769	2.64443	0.96517	4.56724	0.00583	0.07766	0.00000	0.07766	0.07601	0.00000	0.07601	76.7246	1,221.55	1,298.28	7.85340	0.08292	0.21158	1,519.53
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Area	1.97231	1.97231	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.10266	0.05133	0.93331	0.78398	0.00560	0.07093	—	0.07093	0.07093	—	0.07093	—	1,203.01	1,203.01	0.09855	0.00210	—	1,206.10
Water	—	—	—	—	—	—	—	—	—	—	—	33.1191	2.98437	36.1034	3.39598	0.08069	—	145.048
Waste	—	—	—	—	—	—	—	—	—	—	—	43.6055	0.00000	43.6055	4.35822	0.00000	—	152.561
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.21158	0.21158
Total	2.07497	2.02364	0.93331	0.78398	0.00560	0.07093	0.00000	0.07093	0.07093	0.00000	0.07093	76.7246	1,205.99	1,282.72	7.85275	0.08278	0.21158	1,503.92
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Area	2.30406	2.27845	0.01571	1.86572	0.00011	0.00332	—	0.00332	0.00251	—	0.00251	—	7.67326	7.67326	0.00032	0.00007	—	7.70092
Energy	0.10266	0.05133	0.93331	0.78398	0.00560	0.07093	—	0.07093	0.07093	—	0.07093	—	1,203.01	1,203.01	0.09855	0.00210	—	1,206.10
Water	—	—	—	—	—	—	—	—	—	—	—	33.1191	2.98437	36.1034	3.39598	0.08069	—	145.048
Waste	—	—	—	—	—	—	—	—	—	—	—	43.6055	0.00000	43.6055	4.35822	0.00000	—	152.561
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.21158	0.21158
Total	2.40673	2.32979	0.94902	2.64970	0.00571	0.07425	0.00000	0.07425	0.07344	0.00000	0.07344	76.7246	1,213.67	1,290.39	7.85307	0.08285	0.21158	1,511.62
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Area	0.42049	0.41582	0.00287	0.34049	0.00002	0.00061	—	0.00061	0.00046	—	0.00046	—	1.27040	1.27040	0.00005	0.00001	—	1.27498
Energy	0.01874	0.00937	0.17033	0.14308	0.00102	0.01294	—	0.01294	0.01294	—	0.01294	—	199.172	199.172	0.01632	0.00035	—	199.683

Water	—	—	—	—	—	—	—	—	—	—	—	5.48324	0.49410	5.97733	0.56224	0.01336	—	24.0143
Waste	—	—	—	—	—	—	—	—	—	—	—	7.21939	0.00000	7.21939	0.72155	0.00000	—	25.2582
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03503	0.03503
Total	0.43923	0.42519	0.17320	0.48357	0.00104	0.01355	0.00000	0.01355	0.01340	0.00000	0.01340	12.7026	200.936	213.639	1.30017	0.01372	0.03503	250.266

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Total	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	89.4174	89.4174	0.00000	0.00000	—	89.4174
Total	—	—	—	—	—	—	—	—	—	—	—	—	89.4174	89.4174	0.00000	0.00000	—	89.4174
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	89.4174	89.4174	0.00000	0.00000	—	89.4174
Total	—	—	—	—	—	—	—	—	—	—	—	—	89.4174	89.4174	0.00000	0.00000	—	89.4174
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	14.8041	14.8041	0.00000	0.00000	—	14.8041
Total	—	—	—	—	—	—	—	—	—	—	—	—	14.8041	14.8041	0.00000	0.00000	—	14.8041

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	0.10266	0.05133	0.93331	0.78398	0.00560	0.07093	—	0.07093	0.07093	—	0.07093	—	1,113.59	1,113.59	0.09855	0.00210	—	1,116.68
Total	0.10266	0.05133	0.93331	0.78398	0.00560	0.07093	—	0.07093	0.07093	—	0.07093	—	1,113.59	1,113.59	0.09855	0.00210	—	1,116.68
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	0.10266	0.05133	0.93331	0.78398	0.00560	0.07093	—	0.07093	0.07093	—	0.07093	—	1,113.59	1,113.59	0.09855	0.00210	—	1,116.68
Total	0.10266	0.05133	0.93331	0.78398	0.00560	0.07093	—	0.07093	0.07093	—	0.07093	—	1,113.59	1,113.59	0.09855	0.00210	—	1,116.68
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	0.01874	0.00937	0.17033	0.14308	0.00102	0.01294	—	0.01294	0.01294	—	0.01294	—	184.368	184.368	0.01632	0.00035	—	184.879
Total	0.01874	0.00937	0.17033	0.14308	0.00102	0.01294	—	0.01294	0.01294	—	0.01294	—	184.368	184.368	0.01632	0.00035	—	184.879

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consumer Product	1.86180	1.86180	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.11051	0.11051	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.67272	0.62079	0.03186	3.78326	0.00023	0.00672	—	0.00672	0.00508	—	0.00508	—	15.5597	15.5597	0.00065	0.00013	—	15.6158
Total	2.64503	2.59310	0.03186	3.78326	0.00023	0.00672	—	0.00672	0.00508	—	0.00508	—	15.5597	15.5597	0.00065	0.00013	—	15.6158
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.86180	1.86180	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.11051	0.11051	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	1.97231	1.97231	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.33978	0.33978	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.02017	0.02017	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.06054	0.05587	0.00287	0.34049	0.00002	0.00061	—	0.00061	0.00046	—	0.00046	—	1.27040	1.27040	0.00005	0.00001	—	1.27498
Total	0.42049	0.41582	0.00287	0.34049	0.00002	0.00061	—	0.00061	0.00046	—	0.00046	—	1.27040	1.27040	0.00005	0.00001	—	1.27498

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	33.1191	2.98437	36.1034	3.39598	0.08069	—	145.048
Total	—	—	—	—	—	—	—	—	—	—	—	33.1191	2.98437	36.1034	3.39598	0.08069	—	145.048
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	33.1191	2.98437	36.1034	3.39598	0.08069	—	145.048
Total	—	—	—	—	—	—	—	—	—	—	—	33.1191	2.98437	36.1034	3.39598	0.08069	—	145.048
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	5.48324	0.49410	5.97733	0.56224	0.01336	—	24.0143
Total	—	—	—	—	—	—	—	—	—	—	—	5.48324	0.49410	5.97733	0.56224	0.01336	—	24.0143

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	43.6055	0.00000	43.6055	4.35822	0.00000	—	152.561
Total	—	—	—	—	—	—	—	—	—	—	—	43.6055	0.00000	43.6055	4.35822	0.00000	—	152.561
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	43.6055	0.00000	43.6055	4.35822	0.00000	—	152.561
Total	—	—	—	—	—	—	—	—	—	—	—	43.6055	0.00000	43.6055	4.35822	0.00000	—	152.561
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	7.21939	0.00000	7.21939	0.72155	0.00000	—	25.2582
Total	—	—	—	—	—	—	—	—	—	—	—	7.21939	0.00000	7.21939	0.72155	0.00000	—	25.2582

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Government	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.21158	0.21158
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.21158	0.21158
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.21158	0.21158
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.21158	0.21158
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03503	0.03503
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03503	0.03503

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Government Office Building	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

5.10. Operational Area Sources

5.10.1. Hearths

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
Government Office Building	Wood Fireplaces	0	0
Government Office Building	Gas Fireplaces	0	0
Government Office Building	Propane Fireplaces	0	0

Government Office Building	Electric Fireplaces	0	0
Government Office Building	No Fireplaces	0	0
Government Office Building	Conventional Wood Stoves	0	0
Government Office Building	Catalytic Wood Stoves	0	0
Government Office Building	Non-Catalytic Wood Stoves	0	0
Government Office Building	Pellet Wood Stoves	0	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0.00000	0.00000	130,500	43,500.0	—

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00000
Summer Days	day/yr	180.000

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Government Office Building	2,039,835	16.0000	0.0000	0.0000	3,474,701

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)

Government Office Building	17,283,393	0.00000

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Government Office Building	80.9100	0.00000

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Government Office Building	Household refrigerators and/or freezers	R-134a	1,430.00	0.01679	0.60000	0.00000	1.000000
Government Office Building	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	0.00000	annual days of extreme heat
Extreme Precipitation	0.00000	annual days with precipitation above 20 mm
Sea Level Rise	0.00000	meters of inundation depth
Wildfire	0.00000	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	1	1	1	2
Drought	1	1	1	2

Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	82.4767
AQ-PM	97.6105
AQ-DPM	94.0635
Drinking Water	84.3887
Lead Risk Housing	39.6723
Pesticides	56.3793
Toxic Releases	79.6949
Traffic	13.5500
Effect Indicators	—
CleanUp Sites	58.1747
Groundwater	74.8298
Haz Waste Facilities/Generators	50.1390
Impaired Water Bodies	0.00000
Solid Waste	0.00000

Sensitive Population	—
Asthma	86.8395
Cardio-vascular	94.9900
Low Birth Weights	—
Socioeconomic Factor Indicators	—
Education	88.2055
Housing	37.4778
Linguistic	61.0908
Poverty	92.6759
Unemployment	89.6668

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	—
Employed	—
Median HI	—
Education	—
Bachelor's or higher	—
High school enrollment	—
Preschool enrollment	—
Transportation	—
Auto Access	—
Active commuting	—
Social	—
2-parent households	—
Voting	—

Neighborhood	—
Alcohol availability	—
Park access	—
Retail density	—
Supermarket access	—
Tree canopy	—
Housing	—
Homeownership	—
Housing habitability	—
Low-inc homeowner severe housing cost burden	—
Low-inc renter severe housing cost burden	—
Uncrowded housing	—
Health Outcomes	—
Insured adults	—
Arthritis	54.3
Asthma ER Admissions	21.4
High Blood Pressure	19.3
Cancer (excluding skin)	96.9
Asthma	4.5
Coronary Heart Disease	7.5
Chronic Obstructive Pulmonary Disease	1.5
Diagnosed Diabetes	9.0
Life Expectancy at Birth	0.0
Cognitively Disabled	0.1
Physically Disabled	0.0
Heart Attack ER Admissions	3.5
Mental Health Not Good	0.4
Chronic Kidney Disease	27.1

Obesity	0.8
Pedestrian Injuries	0.0
Physical Health Not Good	1.0
Stroke	5.6
Health Risk Behaviors	—
Binge Drinking	38.6
Current Smoker	0.1
No Leisure Time for Physical Activity	0.6
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	99.4
Elderly	94.7
English Speaking	0.0
Foreign-born	0.0
Outdoor Workers	49.6
Climate Change Adaptive Capacity	—
Impervious Surface Cover	0.8
Traffic Density	0.0
Traffic Access	0.0
Other Indices	—
Hardship	0.0
Other Decision Support	—
2016 Voting	0.0

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	96.0000

Healthy Places Index Score for Project Location (b)	—
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	Central Fresno

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

8.1. Justifications

Screen	Justification
Characteristics: Utility Information	PG&E's 2024 power content label
Land Use	Project specific site acreage
Operations: Vehicle Data	Calculated in Excel using EMFAC 2021 with EPA approved adjustment factors

8.2. Project Characteristics

8.2.2. Utility Information

Model Parameter	Units	Default Value	New Value
CO2	lb/MWh	203.983	16.0000
CH4	lb/MWh	0.03300	0.00000

N2O	lb/MWh	0.00400	0.00000

8.3. Land Use

Model Parameter	Units	Default Value	New Value
Lot Area	acre	1.99725	2.09000
Landscape Area	sq. ft	—	0.00000
Special Landscape Area	sq. ft	—	0.00000

8.5. Operations

8.5.1. Mobile Sources

8.5.1.1. Vehicle Data

Land Use	Model Parameter	Units	Default Value	New Value
Government Office Building	Weekday Trip Rate	size/day	22.5900	0.00000

New Fresno Courthouse Project
On Road Existing Operational Emissions (2025)
EMFAC 2021 with USEPA Adjustment Factors

VMT	3,531,746
Trips	512,390
Vehicles	256,195

Air Quality Emissions (tons)						GHG Emissions (metric ton)			
ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	NO2	CO2e
1.21	1.39	6.74	0.02	1.25	0.33	1444.80	0.08	0.09	1473.028

Vehicle Cat	Fuel	Vehicle Mix	NOx_RUNE	NOx_IDLEX	NOx_STREX	PM2.5_RUN	PM2.5_IDLEX	PM2.5_STR	PM2.5_PMT	PM2.5_PMB	PM10_RUN	PM10_IDLE	PM10_STRE	PM10_PMT
All Other Bu	Diesel	0.01%	1162.265	139.8259	89.48505	30.89448	0.8148943	0	1.458034	7.848138	32.29131	0.851738	0	5.832122
All Other Bu	Natural Ga	0.00%	1.084344	1.021377	0	0.013348	0.0032838	0	0.028182	0.151693	0.014517	0.003571	0	0.112727
LDA	Gasoline	43.27%	54203.07	0	53467.77	1637.219	0	419.4857	3056.094	3160.436	1780.625	0	456.229	12224.38
LDA	Diesel	0.09%	679.1735	0	0	51.02599	0	0	6.421969	6.766455	53.33316	0	0	25.68788
LDA	Electricity	2.26%	0	0	0	0	0	0	159.8869	122.2847	0	0	0	639.5477
LDA	Plug-in Hyb	1.28%	131.9935	0	744.5717	23.96124	0	12.86093	90.69812	57.98973	26.06004	0	13.98744	362.7925
LDT1	Gasoline	4.08%	21653.79	0	9409.808	244.7166	0	64.23159	288.1837	365.9043	266.1516	0	69.85771	1152.735
LDT1	Diesel	0.00%	130.0908	0	0	17.92807	0	0	0.163674	0.235767	18.7387	0	0	0.654697
LDT1	Electricity	0.01%	0	0	0	0	0	0	0.483594	0.36938	0	0	0	1.934375
LDT1	Plug-in Hyb	0.01%	0.593669	0	3.732262	0.074997	0	0.045027	0.454636	0.29579	0.081567	0	0.048971	1.818544
LDT2	Gasoline	20.38%	47835.88	0	34895.41	792.0236	0	201.0951	1439.497	1753.168	861.3979	0	218.7093	5757.99
LDT2	Diesel	0.06%	109.3926	0	0	10.83748	0	0	3.900641	4.621764	11.32751	0	0	15.60256
LDT2	Electricity	0.14%	0	0	0	0	0	0	9.900154	7.556353	0	0	0	39.60062
LDT2	Plug-in Hyb	0.17%	16.74779	0	100.1682	2.488597	0	1.415523	12.20173	7.876673	2.706576	0	1.539511	48.80693
LHD1	Gasoline	1.66%	11276.13	156.7257	5630.646	90.23958	0	2.560159	118.6685	1619.824	98.15126	0	2.784619	474.71
LHD1	Diesel	1.48%	96567.53	8069.027	0	2231.288	101.32888	0	157.7113	1435.173	2336.444	106.1043	0	631.9993
LHD1	Electricity	0.01%	0	0	0	0	0	0	0	0	0	0	0	0
LHD2	Gasoline	0.27%	1695.554	26.19184	964.751	12.31494	0	0.303045	19.43146	309.446	13.39387	0	0.329595	77.72732
LHD2	Diesel	0.56%	30730.01	2957.635	0	772.934	38.063352	0	59.24321	628.9654	809.2524	39.85186	0	237.3746
LHD2	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
MCY	Gasoline	2.16%	47850.36	0	1707.2	122.7816	0	33.67985	76.42484	320.9843	131.1484	0	35.80581	305.6994
MDV	Gasoline	17.65%	62523.86	0	41678.01	708.3847	0	184.8441	1246.906	1577.62	770.4316	0	201.0342	4987.624
MDV	Diesel	0.25%	768.5596	0	0	58.43621	0	0	17.95449	22.66475	61.07843	0	0	71.81796
MDV	Electricity	0.15%	0	0	0	0	0	0	10.87644	8.302003	0	0	0	43.50576
MDV	Plug-in Hyb	0.12%	12.43555	0	71.88901	2.323999	0	1.28417	8.756979	5.625124	2.527561	0	1.396652	35.02791
MH	Gasoline	0.19%	2658.561	0	415.5711	10.68508	0	0.36765	20.46425	107.5507	11.621	0	0.399853	81.85699
MH	Diesel	0.10%	16624.64	0	0	409.8159	0	0	13.77913	54.06456	428.346	0	0	55.11654
Motor Coac	Diesel	0.01%	454.4239	888.4304	81.30047	7.57993	0.3148041	0	0.800379	6.924092	7.914512	0.3287	0	3.198222
OBUS	Gasoline	0.04%	842.7941	6.4904	83.08026	1.329963	0	0.056912	4.200462	21.99684	1.446368	0	0.061893	16.80083
OBUS	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
PTO	Diesel	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
PTO	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
SBUS	Gasoline	0.04%	529.6136	101.4557	163.4607	1.454247	0	0.131786	3.048768	23.96483	1.581542	0	0.143322	12.19443
SBUS	Diesel	0.12%	16364.43	6295.502	358.9763	81.66671	5.8551258	0	12.40002	64.98021	85.46879	6.127718	0	49.66369
SBUS	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
SBUS	Natural Ga	0.02%	321.2915	303.6096	0	2.741627	0.7957253	0	2.434589	12.75805	2.981639	0.865386	0	9.737928
T6 CAIRP C	Diesel	0.00%	30.00089	15.41641	6.358609	0.576582	0.0112917	0	0.223624	1.103945	0.60328	0.011815	0	0.895428
T6 CAIRP C	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
T6 CAIRP C	Diesel	0.00%	37.44056	20.11321	8.494364	0.643634	0.0061694	0	0.295927	1.460877	0.673136	0.006452	0	1.184412
T6 CAIRP C	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
T6 CAIRP C	Diesel	0.01%	112.5591	68.25858	28.9522	2.235819	0.0355517	0	1.005404	4.963288	2.338128	0.037179	0	4.023707
T6 CAIRP C	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
T6 CAIRP C	Diesel	0.02%	212.1235	109.6855	46.59057	3.554045	0.0271275	0	1.645196	8.121691	3.714431	0.028352	0	6.58023
T6 CAIRP C	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate [	Diesel	0.04%	1662.747	1120.524	318.3508	24.14418	2.350551	0	4.307513	23.90242	25.28715	2.461825	0	17.26507
T6 Instate [	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate [	Diesel	0.05%	1488.002	1309.004	410.8662	13.9319	1.4633994	0	5.426046	30.10917	14.58021	1.531498	0	21.73158
T6 Instate [	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate [	Diesel	0.12%	4372.602	3158.598	937.188	58.71197	6.1634605	0	12.47067	69.19985	61.44575	6.450446	0	49.94696
T6 Instate [	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate [	Diesel	0.05%	1819.243	1147.887	376.1806	5.441966	0.8728858	0	4.869335	27.01998	5.689021	0.912513	0	19.48075
T6 Instate [	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate [	Natural Ga	0.00%	2.03143	11.55567	0	0.059148	0.043482	0	0.096528	0.535635	0.064325	0.047288	0	0.386088
T6 Instate (	Diesel	0.08%	3263.413	2586.235	693.8883	57.99317	9.4776844	0	8.487237	44.42307	60.74089	9.926739	0	34.01925
T6 Instate (	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate (	Diesel	0.20%	4578.295	5504.411	1868.427	44.85991	5.2320685	0	21.26181	111.2865	46.91868	5.472185	0	85.10238
T6 Instate (	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate (	Diesel	0.18%	6350.857	5569.932	1593.502	106.7406	18.47217	0	19.06806	99.8042	111.7322	19.336	0	76.38523
T6 Instate (	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate (	Diesel	0.11%	4227.07	3105.811	1052.129	25.94407	5.3490879	0	11.73255	61.40939	27.13678	5.594999	0	46.9642
T6 Instate (	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate (	Natural Ga	0.00%	2.658468	18.73982	0	0.068977	0.0704788	0	0.145971	0.764028	0.075011	0.076644	0	0.58382
T6 Instate T	Diesel	0.00%	68.78542	51.34857	15.86297	1.229663	0.1661668	0	0.1794	0.938997	1.287156	0.173936	0	0.718656
T6 Instate T	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate T	Diesel	0.13%	3593.071	3462.56	1197.327	22.54842	2.5040483	0	13.56348	70.99266	23.57322	2.617854	0	54.26604
T6 Instate T	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate T	Natural Ga	0.00%	3.639576	25.70557	0	0.094465	0.0965258	0	0.199824	1.0459	0.102733	0.104975	0	0.799252
T6 OOS Cla	Diesel	0.00%	20.6944	9.472655	3.724833	0.410514	0.0107189	0	0.13066	0.645019	0.429076	0.011204	0	0.522641
T6 OOS Cla	Diesel	0.00%	22.86694	12.07458	4.982073	0.393229	0.0042961	0	0.172191	0.850042	0.411009	0.00449	0	0.688766
T6 OOS Cla	Diesel	0.01%	74.81151	41.87612	16.89072	1.517075	0.0309443	0	0.585364	2.889715	1.585671	0.032344	0	2.341456
T6 OOS Cla	Diesel	0.01%	118.844	61.40259	25.36803	1.945389	0.0146336	0	0.887479	4.38114	2.033351	0.015295	0	3.549917
T6 Public C	Diesel	0.01%	2097.676	1251.469	41.51317	10.0929	1.3456259	0	1.150104	6.194952	10.57583	1.410012	0	4.612006
T6 Public C	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	0.00%	1.76399	12.73752	0	0.035793	0.0461776	0	0.068506	0.369002	0.038921	0.050214	0	0.273979
T6 Public C	Diesel	0.01%	1319.126	1126.271	93.34917	5.984745	0.6052527	0	1.573955	8.477995	6.265082	0.633604	0	6.305617
T6 Public C	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	0.00%	10.64603	39.32174	0	0.082734	0.1015388	0	0.203418	1.095697	0.089966	0.110416	0	0.813546
T6 Public C	Diesel	0.02%	2416.981	1501.416	111.2957	14.67081	2.3026579	0	1.945625	10.47997	15.37304	2.412876	0	7.802233
T6 Public C	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	0.00%	5.076029	31.55918	0	0.084874	0.1090096	0	0.168545	0.907858	0.092297	0.118543	0	0.674098
T6 Public C	Diesel	0.04%	5167.88	2906.038	234.995	31.85815	6.1956949	0	4.07913	21.97194	33.40144	6.49583	0	16.36689
T6 Public C	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	0.00%	13.50528	80.05587	0	0.210963	0.2602102	0	0.425263	2.290649	0.229427	0.282985	0	1.700948
T6 Utility C	Diesel	0.01%	135.3035	161.355	59.80875	0.831902	0.0396462	0	0.874863	4.643729	0.869941	0.041459	0	3.501163
T6 Utility C	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Utility C	Natural Ga	0.00%	0.130348	0.242628	0	0.000787	0.0006433	0	0.0024	0.012742	0.000856	0.000699	0	0.009599
T6 Utility C	Diesel	0.00%	25.80664	30.48384	11.44903	0.152234	0.0075154	0	0.16584	0.880268	0.159158	0.007857	0	0.663531
T6 Utility C	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Utility C	Natural Ga	0.00%	0.046517	0.072938	0	0.000197	0.000172	0	0.000713	0.003783	0.000214	0.000187	0	0.00285
T6 Utility C	Diesel	0.00%	25.22955	34.49049	12.58591	0.158313	0.0085319	0	0.18827	0.999329	0.165495	0.008919	0	0.75319
T6 Utility C	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0	0
T6 Utility C	Natural Ga	0.00%	0.029073	0.056653	0	0.000189	0.0001463	0	0.000559	0.002967	0.000206	0.000159	0	0.002235

Vehicle Cat	Fuel	PM10_PMB	CO2_RUNEX	CO2_IDLEX	CO2_STREX	CH4_RUNE	CH4_IDLEX	CH4_STREX	N2O_RUNE	N2O_IDLEX	N2O_STREX	ROG_RUNE	ROG_IDLEX	ROG_STREX	ROG_HOTS	ROG_RUNL
All Other Bu	Diesel	22.42319	553943	22138.6	0	4.059967	0.184427	0	87.27395	3.487945	0	87.40997	3.97067	0	0	0
All Other Bu	Natural Ga	0.433408	9344.1247	842.4286	0	7.808326	2.562772	0	1.904861	0.171735	0	0.111566	0.036617	0	0	0
LDA	Gasoline	9029.818	422861062	0	15171604	2955.958	0	14653.65	6479.319	0	7140.452	10845.75	0	65460.37	19792.85	50214.78
LDA	Diesel	19.33273	725371.39	0	0	3.76665	0	0	114.2826	0	0	81.09375	0	0	0	0
LDA	Electricity	349.385	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LDA	Plug-in Hyb	165.6849	5920021.2	0	421253.7	17.43354	0	271.4944	24.09011	0	135.7226	54.94725	0	1100.069	281.9724	255.9122
LDT1	Gasoline	1045.441	48082603	0	1855950	990.7785	0	2551.746	1545.428	0	871.4373	4432.393	0	13560	4656.589	13564.91
LDT1	Diesel	0.673621	32765.618	0	0	1.009983	0	0	5.162237	0	0	21.74435	0	0	0	0
LDT1	Electricity	1.055371	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LDT1	Plug-in Hyb	0.845114	26680.678	0	2236.12	0.078236	0	1.358649	0.107887	0	0.678171	0.247137	0	5.514239	0.809165	0.687407
LDT2	Gasoline	5009.052	245685733	0	9011186	1916.007	0	8522.227	4193.575	0	3887.583	7444.914	0	39390.31	9683.731	26885.46
LDT2	Diesel	13.20504	565368.38	0	0	1.14535	0	0	89.07402	0	0	24.65871	0	0	0	0
LDT2	Electricity	21.58958	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LDT2	Plug-in Hyb	22.50478	752076.64	0	65618.85	2.20912	0	36.49519	3.048947	0	18.23092	6.971897	0	147.9937	23.64793	21.13517
LHD1	Gasoline	4628.423	51727061	510988	219429.4	534.8417	486.4936	280.832	626.8452	12.65772	439.8132	2684.696	1793.499	1397.868	439.3509	2435.262
LHD1	Diesel	4107.995	33462147	509875.4	0	477.6815	19.4042	0	5271.975	80.33108	0	10284.2	417.761	0	0	0
LHD1	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LHD2	Gasoline	884.1483	9719612.4	97556.27	35847.56	56.00654	81.29345	46.16375	102.315	2.065361	73.0629	252.6551	300.1461	227.2881	68.09552	366.2261
LHD2	Diesel	1800.091	15036045	305784	0	168.0719	7.289538	0	2368.935	48.17639	0	3618.49	156.9395	0	0	0
LHD2	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MCY	Gasoline	917.098	14423044	0	578942.3	13098.02	0	2162.178	3196.315	0	98.6459	87810.05	0	16142.1	40309.24	43856.06
MDV	Gasoline	4507.485	264038903	0	9815829	2296.812	0	9684.885	4788.952	0	3867.135	9562.456	0	48887.47	11010.37	32564.01
MDV	Diesel	64.75644	3601061.8	0	0	5.145426	0	0	567.3487	0	0	110.778	0	0	0	0
MDV	Electricity	23.72001	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MDV	Plug-in Hyb	16.07178	557982.2	0	59362.79	1.639486	0	26.17956	2.261712	0	13.07212	5.176762	0	106.2126	20.91827	17.84778
MH	Gasoline	307.2878	13299150	0	31019.82	94.38032	0	36.22515	167.6784	0	43.93171	405.9521	0	151.1944	11966.85	279.8998
MH	Diesel	154.4702	3722613	0	0	22.28803	0	0	586.4992	0	0	479.8482	0	0	0	0
Motor Coac	Diesel	19.76277	466615.7	198066.6	0	0.177741	3.583348	0	73.51549	31.20548	0	3.82672	77.14851	0	0	0
OBUS	Gasoline	62.8443	2471588.5	38448.28	6469.61	23.82054	19.64132	7.462052	38.92278	0.521193	6.190742	118.1702	74.97703	39.93426	8.1794	38.31386
OBUS	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PTO	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PTO	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SBUS	Gasoline	68.46733	1232924.7	285936.3	12350.89	11.06108	280.2014	14.91064	32.88394	9.79173	15.64954	52.2811	1171.665	81.66131	25.0113	58.95644
SBUS	Diesel	185.8959	4616108.3	667450.7	0	10.85173	2.397329	0	727.2697	105.1571	0	233.6348	51.61383	0	0	0
SBUS	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SBUS	Natural Ga	36.44998	978129.46	247903	0	2399.431	830.4929	0	199.3981	50.53665	0	34.28314	11.8661	0	0	0
T6 CAIRP C	Diesel	3.157412	82656.708	3136.368	0	0.032008	0.013316	0	13.0226	0.494136	0	0.689117	0.286683	0	0	0
T6 CAIRP C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 CAIRP C	Diesel	4.176416	109521.05	4179.245	0	0.031214	0.016506	0	17.25509	0.658442	0	0.672029	0.35536	0	0	0
T6 CAIRP C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 CAIRP C	Diesel	14.1882	363601.55	13683.08	0	0.116528	0.057579	0	57.28557	2.155774	0	2.508805	1.239671	0	0	0
T6 CAIRP C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 CAIRP C	Diesel	23.20288	560738.14	22735.72	0	0.15917	0.090979	0	88.34452	3.582023	0	3.426884	1.958744	0	0	0
T6 CAIRP C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate [	Diesel	68.43142	1672632	212198.8	0	2.951617	1.055734	0	263.5238	33.432	0	63.5475	22.72967	0	0	0
T6 Instate [	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate [	Diesel	86.13477	2105797.3	264761	0	1.772815	1.153207	0	331.7692	41.7132	0	38.16822	24.82822	0	0	0
T6 Instate [	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate [	Diesel	197.9686	4810286.6	609971.9	0	6.996568	3.005746	0	757.8626	96.10132	0	150.6342	64.7129	0	0	0
T6 Instate [	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate [	Diesel	77.21343	1879317.8	244155.3	0	0.888294	1.000368	0	296.0873	38.46677	0	19.12472	21.53765	0	0	0
T6 Instate [	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate [	Natural Ga	1.530291	35122.121	10796.68	0	28.03418	26.74284	0	7.159874	2.200974	0	0.400553	0.382102	0	0	0
T6 Instate (	Diesel	127.1859	3199680.7	453104.2	0	5.633545	2.796418	0	504.111	71.38675	0	121.2887	60.20612	0	0	0
T6 Instate (	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate (	Diesel	318.1675	7976915.8	1118121	0	4.181308	4.74496	0	1256.766	176.1604	0	90.02241	102.1577	0	0	0
T6 Instate (	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate (	Diesel	285.5772	7149338.6	1009456	0	10.32344	6.012498	0	1126.381	159.0403	0	222.2607	129.4474	0	0	0
T6 Instate (	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate (	Diesel	175.5824	4303990.4	642841.6	0	2.41245	3.005749	0	678.0954	101.28	0	51.93938	64.71296	0	0	0
T6 Instate (	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate (	Natural Ga	2.182695	46125.912	17520.35	0	33.80496	43.5369	0	9.403069	3.571638	0	0.483006	0.622056	0	0	0
T6 Instate T	Diesel	2.6868	64962.814	9516.719	0	0.10704	0.055715	0	10.23492	1.499363	0	2.304532	1.199528	0	0	0
T6 Instate T	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate T	Diesel	202.8814	4777165.9	724126.2	0	1.957397	2.950746	0	752.6444	114.0864	0	42.14222	63.52876	0	0	0
T6 Instate T	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate T	Natural Ga	2.98812	61938.079	23561.93	0	46.31277	59.61456	0	12.62648	4.803254	0	0.661718	0.851775	0	0	0
T6 OOS Cla	Diesel	1.842912	48199.603	1836.712	0	0.025419	0.008366	0	7.593867	0.289375	0	0.547264	0.180119	0	0	0
T6 OOS Cla	Diesel	2.428691	63657.29	2437.144	0	0.020124	0.009722	0	10.02923	0.383973	0	0.433265	0.209312	0	0	0
T6 OOS Cla	Diesel	8.256328	211513.83	7987.405	0	0.087177	0.034999	0	33.32409	1.258419	0	1.876891	0.753527	0	0	0
T6 OOS Cla	Diesel	12.51754	302550.17	12295.69	0	0.086466	0.049225	0	47.6669	1.937192	0	1.861595	1.0598	0	0	0
T6 Public C	Diesel	17.74445	468333.02	95406.86	0	1.192928	0.317282	0	73.78606	15.03139	0	25.6834	6.830989	0	0	0
T6 Public C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	1.054118	22584.082	11004.96	0	19.9718	30.19995	0	4.603913	2.243433	0	0.285358	0.431498	0	0	0
T6 Public C	Diesel	24.26054	632863.09	130461.1	0	1.309731	0.507756	0	99.70784	20.5542	0	28.19814	10.93185	0	0	0
T6 Public C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	3.130075	68945.458	30818.37	0	56.99944	108.0555	0	14.05498	6.282526	0	0.814409	1.5439	0	0	0
T6 Public C	Diesel	30.01869	786358.63	154575.3	0	1.713918	0.691365	0	123.8911	24.3534	0	36.90018	14.8849	0	0	0
T6 Public C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	2.593556	57153.972	27492.02	0	48.8284	76.68498	0	11.65121	5.604429	0	0.697661	1.095677	0	0	0
T6 Public C	Diesel	62.97078	1638495.8	313434.7	0	3.590863	1.670832	0	258.1457	49.38176	0	77.3103	35.97255	0	0	0
T6 Public C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	6.544308	141688.99	67172.43	0	122.798	200.9956	0	28.88423	13.69354	0	1.754541	2.87183	0	0	0
T6 Utility C	Diesel	13.27428	317067.32	33583.94	0	0.09714	0.133341	0	49.95408	5.291164	0	2.091394	2.870805	0	0	0
T6 Utility C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Utility C	Natural Ga	0.036395	767.32922	196.3131	0	0.572386	0.664308	0	0.156425	0.04002	0	0.008178	0.009492	0	0	0
T6 Utility C	Diesel	2.515704	59884.914	6354.295	0	0.016737	0.025231	0	9.434893	1.001122	0	0.360342	0.543227	0	0	0
T6 Utility C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Utility C	Natural Ga	0.010805	231.86719	58.08808	0	0.165478	0.207111	0	0.047268	0.011842	0	0.002364	0.002959	0	0	0
T6 Utility C	Diesel	2.855638	67766.77	7206.521	0	0.016263	0.028568	0	10.67668	1.13539	0	0.350137	0.615063	0	0	0
T6 Utility C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Utility C	Natural Ga	0.008475	178.93846	45.85054	0	0.134015	0.156467	0	0.036478	0.009347	0	0.001915	0.002236	0	0	0

Vehicle Cat	Fuel	ROG_DIURN	TOG_RUNE	TOG_IDLEX	TOG_STREX	TOG_HOTS	TOG_RUNL	TOG_DIURN	NH3_RUNE	CO_RUNEX	CO_IDLEX	CO_STREX	SOx_RUNE	SOx_IDLEX	SOx_STREX
All Other Bu	Diesel	0	99.5096	4.520306	0	0	0	0	97.54499	242.1355	80.24257	0	5.245509	0.209639	0
All Other Bu	Natural Ga	0	7.968969	2.615497	0	0	0	0	9.957512	31.61897	6.423726	0	0	0	0
LDA	Gasoline	170842.8	15826.09	0	71670.86	19792.85	50214.78	170842.8	54411.18	1074436	0	650690.7	4180.412	0	149.9867
LDA	Diesel	0	92.31984	0	0	0	0	0	9.954048	974.1388	0	0	6.873263	0	0
LDA	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LDA	Plug-in Hyb	1719.053	80.1789	0	1204.437	281.9724	255.9122	1719.053	869.0477	9674.157	0	8453.885	58.52544	0	4.164521
LDT1	Gasoline	40986.37	6467.737	0	14846.49	4656.589	13564.91	40986.37	5389.656	238755.6	0	130019.5	475.3455	0	18.34796
LDT1	Diesel	0	24.75449	0	0	0	0	0	0.253695	147.68	0	0	0.310471	0	0
LDT1	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LDT1	Plug-in Hyb	5.134336	0.360622	0	6.037398	0.809165	0.687407	5.134336	4.157841	43.78282	0	42.3762	0.263766	0	0.022106
LDT2	Gasoline	89968.67	10863.6	0	43127.43	9683.731	26885.46	89968.67	26373.35	617129.1	0	376098.6	2428.854	0	89.08475
LDT2	Diesel	0	28.0723	0	0	0	0	0	6.045992	233.308	0	0	5.357153	0	0
LDT2	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LDT2	Plug-in Hyb	154.2403	10.17338	0	162.0345	23.64793	21.13517	154.2403	117.1318	1232.121	0	1137.312	7.435043	0	0.648709
LHD1	Gasoline	13910.67	3913.232	2614.217	1528.822	438.8721	2432.608	13895.52	2639.504	71509.91	16008.49	25988.36	509.8413	5.03649	2.162778
LHD1	Diesel	0	11677.64	474.3646	0	0	0	0	8504.991	29264.97	3453.674	0	316.1259	4.816931	0
LHD1	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LHD2	Gasoline	2195.68	368.3107	437.5412	248.6068	68.02846	365.8654	2193.518	433.5244	7930.433	2632.981	4035.576	95.83763	0.961927	0.353465
LHD2	Diesel	0	4103.884	177.9917	0	0	0	0	3399.14	9821.794	1295.893	0	142.035	2.888527	0
LHD2	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MCY	Gasoline	31054	104415.5	0	17544.99	40309.24	43856.06	31054	664.0384	1068269	0	91212.47	142.5865	0	5.723434
MDV	Gasoline	103929.6	13952.76	0	53525.61	11010.37	32564.01	103929.6	21902.91	643545.8	0	373043.9	2610.293	0	97.03946
MDV	Diesel	0	126.1134	0	0	0	0	0	27.82945	1832.665	0	0	34.12189	0	0
MDV	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MDV	Plug-in Hyb	129.6347	7.553919	0	116.2894	20.91827	17.84778	129.6347	87.09401	912.6243	0	816.2296	5.516222	0	0.586862
MH	Gasoline	2528.208	592.3644	0	165.5389	11966.85	279.8998	2528.208	306.2203	9437.703	0	3283.142	131.4756	0	0.306663
MH	Diesel	0	546.2753	0	0	0	0	0	463.8281	1635.019	0	0	35.27365	0	0
Motor Coac	Diesel	0	4.356429	87.8277	0	0	0	0	58.57563	18.70826	1134.159	0	4.418572	1.875573	0
OBUS	Gasoline	379.7669	172.1326	109.2153	43.64665	8.165119	38.24696	379.1039	62.31957	2602.735	579.5664	845.1307	24.38685	0.379364	0.063835
OBUS	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PTO	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PTO	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SBUS	Gasoline	204.2211	76.05805	1704.527	89.13883	24.93576	58.77838	203.6043	68.29123	1253.269	9033.197	2004.11	12.17706	2.824069	0.121984
SBUS	Diesel	0	265.8048	58.72072	0	0	0	0	638.9045	751.9969	1441.744	0	43.66017	6.312896	0
SBUS	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SBUS	Natural Ga	0	2435.985	843.1448	0	0	0	0	853.8295	7588.636	1496.795	0	0	0	0
T6 CAIRP C	Diesel	0	0.778899	0.324033	0	0	0	0	16.09565	2.779546	11.19643	0	0.779995	0.029597	0
T6 CAIRP C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 CAIRP C	Diesel	0	0.758592	0.401133	0	0	0	0	21.40679	3.13139	14.72689	0	1.0339	0.039453	0
T6 CAIRP C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 CAIRP C	Diesel	0	2.82212	1.394488	0	0	0	0	72.05321	10.7765	49.94445	0	3.426783	0.128957	0
T6 CAIRP C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 CAIRP C	Diesel	0	3.874987	2.214871	0	0	0	0	119.4607	17.42627	82.12698	0	5.301421	0.214952	0
T6 CAIRP C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate [	Diesel	0	72.22861	25.83473	0	0	0	0	304.4648	233.2934	749.9707	0	15.80381	2.004953	0
T6 Instate [	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate [	Diesel	0	43.33866	28.19157	0	0	0	0	390.5878	179.2897	928.5395	0	19.90066	2.502102	0
T6 Instate [	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate [	Diesel	0	171.0729	73.49343	0	0	0	0	886.8564	588.6674	2164.81	0	45.45788	5.764319	0
T6 Instate [	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate [	Diesel	0	21.73263	24.47458	0	0	0	0	355.9676	153.7041	825.6724	0	17.78152	2.310121	0
T6 Instate [	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate [	Natural Ga	0	28.52675	27.21272	0	0	0	0	34.00984	122.2727	86.46754	0	0	0	0
T6 Instate (	Diesel	0	137.8662	68.43501	0	0	0	0	595.1255	415.7411	1638.557	0	30.22869	4.28066	0
T6 Instate (	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate (	Diesel	0	102.0714	115.8309	0	0	0	0	1537.984	467.7247	3891.849	0	75.38901	10.56724	0
T6 Instate (	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate (	Diesel	0	252.4985	147.0583	0	0	0	0	1348.666	799.3414	3643.014	0	67.55911	9.539061	0
T6 Instate (	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate (	Diesel	0	58.92122	73.41187	0	0	0	0	853.1726	315.3947	2142.843	0	40.66382	6.073526	0
T6 Instate (	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate (	Natural Ga	0	34.25481	44.11626	0	0	0	0	51.16809	129.0777	139.3865	0	0	0	0
T6 Instate T	Diesel	0	2.619482	1.363462	0	0	0	0	12.74011	8.282011	34.341	0	0.614008	0.089949	0
T6 Instate T	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate T	Diesel	0	47.88609	72.18755	0	0	0	0	990.7243	292.604	2468.196	0	45.19631	6.850888	0
T6 Instate T	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Instate T	Natural Ga	0	47.08017	60.60237	0	0	0	0	70.31713	177.3769	191.6521	0	0	0	0
T6 OOS Cla	Diesel	0	0.623018	0.205052	0	0	0	0	9.483592	1.989377	6.670052	0	0.456421	0.017393	0
T6 OOS Cla	Diesel	0	0.493239	0.238286	0	0	0	0	12.59859	1.936228	8.681277	0	0.602796	0.023078	0
T6 OOS Cla	Diesel	0	2.136698	0.857833	0	0	0	0	42.62905	7.386172	29.74972	0	2.002909	0.075636	0
T6 OOS Cla	Diesel	0	2.119285	1.206501	0	0	0	0	65.0818	9.593175	44.75134	0	2.864969	0.116433	0
T6 Public C	Diesel	0	29.18144	7.761359	0	0	0	0	47.07395	60.84463	156.795	0	4.423845	0.901207	0
T6 Public C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	0	20.03114	30.28969	0	0	0	0	23.77068	68.52489	90.02343	0	0	0	0
T6 Public C	Diesel	0	32.0258	12.41575	0	0	0	0	84.51721	79.72109	296.414	0	5.98036	1.232817	0
T6 Public C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	0	57.61972	109.2314	0	0	0	0	71.12591	206.3586	189.9822	0	0	0	0
T6 Public C	Diesel	0	41.93328	16.91516	0	0	0	0	102.1025	94.93688	360.2863	0	7.428135	1.460156	0
T6 Public C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	0	49.08381	77.0861	0	0	0	0	58.61778	169.1138	211.7833	0	0	0	0
T6 Public C	Diesel	0	87.85578	40.87938	0	0	0	0	222.6631	187.1957	789.1307	0	15.46915	2.959158	0
T6 Public C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Public C	Natural Ga	0	123.1277	201.5354	0	0	0	0	147.405	426.1136	499.7528	0	0	0	0
T6 Utility C	Diesel	0	2.349584	3.225216	0	0	0	0	63.03334	13.76319	118.329	0	2.989103	0.316607	0
T6 Utility C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Utility C	Natural Ga	0	0.575202	0.667576	0	0	0	0	0.834477	2.220331	1.201344	0	0	0	0
T6 Utility C	Diesel	0	0.404424	0.609681	0	0	0	0	11.94213	2.597105	22.49674	0	0.56451	0.059899	0
T6 Utility C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Utility C	Natural Ga	0	0.166997	0.209012	0	0	0	0	0.248888	0.667508	0.316043	0	0	0	0
T6 Utility C	Diesel	0	0.391882	0.688392	0	0	0	0	13.51507	2.690787	25.55161	0	0.638325	0.067881	0
T6 Utility C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6 Utility C	Natural Ga	0	0.135215	0.157868	0	0	0	0	0.195068	0.51815	0.273078	0	0	0	0

T6TS	Gasoline	0.12%	1842.248	27.92655	272.4281	5.810453	0	0.331937	13.36047	70.21651	6.319333	0	0.361008
T6TS	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0
T7 CAIRP C	Diesel	0.38%	20792.5	116001.3	4461.327	413.1585	41.61779	0	121.5353	351.0592	432.1543	43.53126	0
T7 CAIRP C	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0
T7 NNOOS	Diesel	0.34%	17646.89	133201.3	4028.157	351.0376	45.855944	0	107.8947	311.6133	366.9099	47.92935	0
T7 NOOS C	Diesel	0.14%	7830.78	56457.79	1685.6	159.3357	19.430686	0	45.71856	132.0812	166.5402	20.30926	0
T7 Other Pc	Diesel	0.01%	442.1287	779.2639	91.77823	5.196284	0.2727206	0	2.430837	8.06268	5.433047	0.285147	0
T7 Other Pc	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0
T7 POAK Cl	Diesel	0.03%	2053.752	3431.912	409.2825	22.94641	1.2046784	0	10.73764	35.61252	23.99074	1.259505	0
T7 POAK Cl	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0
T7 POLA Cl	Diesel	0.04%	2624.069	4167.503	481.0373	30.07669	1.4459039	0	12.88776	42.7306	31.44159	1.51152	0
T7 POLA Cl	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0
T7 POLA Cl	Natural Ga	0.00%	0.115672	1.005232	0	0.00155	0.003818	0	0.006012	0.019977	0.001686	0.004152	0
T7 Public C	Diesel	0.07%	19318.7	5895.356	1466.33	110.8535	13.467375	0	23.90023	103.3469	116.0725	14.10142	0
T7 Public C	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0
T7 Public C	Natural Ga	0.01%	117.2245	126.5661	0	0.611137	0.3619123	0	2.078995	8.354367	0.664625	0.393588	0
T7 Single C	Diesel	0.03%	1200.613	1788.21	591.4105	16.63639	0.7210792	0	10.38786	32.50604	17.39633	0.754018	0
T7 Single C	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0
T7 Single C	Natural Ga	0.00%	10.34367	32.36558	0	0.072008	0.1029949	0	0.348297	1.089974	0.078311	0.112009	0
T7 Single D	Diesel	0.04%	1977.228	2207.298	647.9622	24.4077	1.5421941	0	12.54904	39.25071	25.52629	1.612872	0
T7 Single D	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0
T7 Single D	Natural Ga	0.00%	18.20656	34.20384	0	0.057923	0.0792496	0	0.355992	1.113558	0.062991	0.086185	0
T7 Single O	Diesel	0.16%	6874.977	8949.764	2753.2	85.84249	6.2241794	0	51.29208	160.456	89.75834	6.508106	0
T7 Single O	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0
T7 Single O	Natural Ga	0.01%	59.79008	158.9683	0	0.329725	0.4563375	0	1.689737	5.285541	0.358582	0.496276	0
T7 SWCV C	Diesel	0.05%	11939.56	4278.268	772.4608	25.92789	6.5475788	0	14.83422	121.1462	27.09266	6.841719	0
T7 SWCV C	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0
T7 SWCV C	Natural Ga	0.03%	2612.627	361.8426	0	5.33778	0.0625595	0	8.875065	72.4797	5.805893	0.068046	0
T7 Tractor (	Diesel	0.74%	40948.54	76616.69	15181.18	572.1067	29.35793	0	235.6668	718.861	598.1868	30.69624	0
T7 Tractor (	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0
T7 Tractor (	Natural Ga	0.01%	161.7871	740.9532	0	0.752408	2.0336543	0	4.214221	12.85315	0.81827	2.211672	0
T7 Utility Cl	Diesel	0.01%	274.1128	113.8729	153.3966	1.449234	0.0395377	0	1.895961	6.940306	1.514553	0.04132	0
T7 Utility Cl	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0
T7IS	Gasoline	0.00%	26.45617	0	0.947132	0.009816	0	0.000975	0.019327	0.12552	0.010678	0	0.001061
T7IS	Electricity	0.00%	0	0	0	0	0	0	0	0	0	0	0
UBUS	Gasoline	0.01%	80.57028	0	53.75103	0.541472	0	0.054038	1.291438	16.70808	0.5889	0	0.058772
UBUS	Diesel	0.00%	30.40833	0	0	0.555801	0	0	0.667303	3.60782	0.580931	0	0
UBUS	Electricity	0.00%	0	0	0	0	0	0	0.222373	0.489505	0	0	0
UBUS	Natural Ga	0.02%	213.2986	0	0	0.142382	0	0	5.439633	25.63571	0.14882	0	0
Total		100.00%	#########	#########	#########	9595.57	381.43	922.75	7650.37	14622.17	10189.65	399.31	1002.75

T6TS	Gasoline	53.44132	200.6165	7880462.8	171457	29345.06	60.58657	84.24544	29.76706	93.88386	2.374077	21.0114	299.2295	323.8434
T6TS	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 CAIRP C	Diesel	486.4954	1003.757	20371409	23114914	0	7.867178	475.1633	0	3209.524	3641.764	0	169.3782	10230.14
T7 CAIRP C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 NNOOS	Diesel	431.5788	890.3238	17816058	24928637	0	6.788597	523.0818	0	2806.927	3927.517	0	146.1566	11261.81
T7 NOOS C	Diesel	182.8743	377.375	7644512.3	10753979	0	3.016174	221.6456	0	1204.396	1694.294	0	64.9374	4771.968
T7 Other Pc	Diesel	9.726588	23.04391	444954.68	161276.4	0	0.145318	3.108676	0	70.10279	25.40916	0	3.128662	66.92893
T7 Other Pc	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 POAK Cl	Diesel	42.96274	101.7789	1962228.6	706628.5	0	0.665277	13.75003	0	309.1499	111.3296	0	14.32323	296.0345
T7 POAK Cl	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 POLA Cl	Diesel	51.55917	122.1067	2406515.2	872949.4	0	0.843782	16.49919	0	379.1475	137.5335	0	18.16639	355.2231
T7 POLA Cl	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 POLA Cl	Natural Ga	0.024045	0.057073	797.14901	787.9189	0	0.78346	2.317478	0	0.162504	0.160622	0	0.011194	0.033112
T7 Public C	Diesel	95.77149	295.8037	4901560.6	610047.1	0	12.81772	10.3286	0	772.2429	96.11316	0	275.962	222.3719
T7 Public C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Public C	Natural Ga	8.315451	23.8681	358604.92	97558.78	0	407.6272	336.6966	0	73.10396	19.88799	0	5.824188	4.810731
T7 Single C	Diesel	41.56986	92.9156	1868885	356554.7	0	0.48256	7.227975	0	294.4436	56.17534	0	10.38938	155.6163
T7 Single C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Single C	Natural Ga	1.393102	3.114017	46399.71	25340.73	0	41.11508	82.14007	0	9.458884	5.165873	0	0.587453	1.173619
T7 Single D	Diesel	50.22566	112.2108	2329952.2	463431.7	0	0.862222	8.835575	0	367.0849	73.01385	0	18.56339	190.2275
T7 Single D	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Single D	Natural Ga	1.423862	3.18136	51029.101	25968.78	0	41.79164	97.40971	0	10.40262	5.293905	0	0.59712	1.391793
T7 Single O	Diesel	205.2471	458.6217	9187540.4	1795817	0	3.186106	36.10933	0	1447.501	282.9317	0	68.59598	777.424
T7 Single O	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Single O	Natural Ga	6.758498	15.10054	228145.48	122310.1	0	199.1673	420.878	0	46.50895	24.93371	0	2.845708	6.013517
T7 SWCV C	Diesel	59.32031	346.0351	6413571	431940.5	0	2.093797	6.55714	0	1010.461	68.0524	0	45.07888	141.1734
T7 SWCV C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 SWCV C	Natural Ga	35.50375	207.1052	1591992.7	478932.3	0	3224.185	820.8105	0	324.5381	97.63349	0	161.0893	26.25493
T7 Tractor (	Diesel	943.0012	2054.617	40129880	15585626	0	16.97945	304.6578	0	6322.479	2455.522	0	365.563	6559.198
T7 Tractor (	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Tractor (	Natural Ga	16.85603	36.72142	568836.29	567974.8	0	472.4983	1989.5	0	115.961	115.7854	0	6.751069	28.42603
T7 Utility Cl	Diesel	7.582797	19.82671	356596.64	23967.77	0	0.123297	0.449827	0	56.18195	3.776132	0	2.654542	9.684662
T7 Utility Cl	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
T7IS	Gasoline	0.077321	0.358691	8225.7858	0	29.33736	0.719546	0	0.000162	0.747995	0	0.018733	4.264275	0
T7IS	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
UBUS	Gasoline	5.165752	47.73737	774392	0	6740.994	1.647121	0	6.877533	7.393978	0	4.753723	5.471799	0
UBUS	Diesel	2.669213	10.30806	104241.94	0	0	0.265673	0	0	16.42336	0	0	5.719872	0
UBUS	Electricity	0.889493	1.398585	0	0	0	0	0	0	0	0	0	0	0
UBUS	Natural Ga	21.75853	73.24488	907306.49	0	0	1424.806	0	0	184.9604	0	0	20.57925	0
Total		30604.66	41792.96	#########	#########	#########	31434.89	7771.25	38332.46	57393.79	14187.90	16637.39	#########	40130.93

T6TS	Gasoline	162.2561	24.42165	195.1544	1082.71	435.4898	471.3121	177.184	24.3576	194.6426	1079.871	197.9834	6260.885	4822.549	3458.042	77.71036	1.690762	0.289376
T6TS	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 CAIRP C	Diesel	0	0	0	0	190.6161	11512.87	0	0	0	0	2939.507	718.7072	149240	0	192.4294	218.3447	0
T7 CAIRP C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 NNOOS	Diesel	0	0	0	0	166.3882	12820.71	0	0	0	0	2637.425	583.5844	166254.1	0	168.7074	236.0593	0
T7 NOOS C	Diesel	0	0	0	0	73.92628	5432.522	0	0	0	0	1117.565	276.6251	70426.82	0	72.38896	101.8337	0
T7 Other Pc	Diesel	0	0	0	0	3.547709	75.89327	0	0	0	0	59.14186	26.72231	985.0331	0	4.209804	1.525867	0
T7 Other Pc	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 POAK Cl	Diesel	0	0	0	0	16.22895	335.4221	0	0	0	0	261.3866	123.7435	4353.507	0	18.56698	6.686254	0
T7 POAK Cl	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 POLA Cl	Diesel	0	0	0	0	20.64094	403.6101	0	0	0	0	314.524	165.9941	5238.532	0	22.78109	8.263707	0
T7 POLA Cl	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 POLA Cl	Natural Ga	0	0	0	0	0.794963	2.351503	0	0	0	0	0.703859	3.304762	7.575813	0	0	0	0
T7 Public C	Diesel	0	0	0	0	313.4519	252.5815	0	0	0	0	386.1801	926.586	2154.739	0	46.31601	5.76448	0
T7 Public C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Public C	Natural Ga	0	0	0	0	409.3423	338.1134	0	0	0	0	240.5162	2125.852	683.0285	0	0	0	0
T7 Single C	Diesel	0	0	0	0	11.62735	174.1592	0	0	0	0	248.9979	63.51956	2253.076	0	17.61311	3.360313	0
T7 Single C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Single C	Natural Ga	0	0	0	0	41.19841	82.30653	0	0	0	0	40.22083	207.4481	197.1226	0	0	0	0
T7 Single D	Diesel	0	0	0	0	21.0189	215.3902	0	0	0	0	304.3292	117.6286	2722.613	0	22.01458	4.37874	0
T7 Single D	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Single D	Natural Ga	0	0	0	0	42.31931	98.63963	0	0	0	0	41.54622	318.1591	145.4841	0	0	0	0
T7 Single O	Diesel	0	0	0	0	77.44064	877.6638	0	0	0	0	1239.511	388.5226	11108.3	0	86.76838	16.95994	0
T7 Single O	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Single O	Natural Ga	0	0	0	0	201.1066	424.976	0	0	0	0	196.6212	1143.613	867.1115	0	0	0	0
T7 SWCV C	Diesel	0	0	0	0	51.19914	160.3402	0	0	0	0	207.3185	112.2565	1455.867	0	60.71011	4.088698	0
T7 SWCV C	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 SWCV C	Natural Ga	0	0	0	0	3420.49	853.9775	0	0	0	0	566.9381	16149.03	3912.449	0	0	0	0
T7 Tractor (	Diesel	0	0	0	0	414.1289	7430.603	0	0	0	0	5729.918	2001.511	95690.11	0	379.635	147.4425	0
T7 Tractor (	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7 Tractor (	Natural Ga	0	0	0	0	480.301	2022.354	0	0	0	0	494.061	2985.746	3867.563	0	0	0	0
T7 Utility Cl	Diesel	0	0	0	0	3.004227	10.96043	0	0	0	0	45.95387	27.22345	141.9611	0	3.370179	0.226518	0
T7 Utility Cl	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7IS	Gasoline	0.000879	0.060137	0.531545	2.396952	6.213347	0	0.000961	0.060049	0.53077	2.393457	0.163482	217.647	0	2.373877	0.081151	0	0.000289
T7IS	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UBUS	Gasoline	30.99705	2.25208	6.395952	16.16233	7.984437	0	33.93787	2.25208	6.395952	16.16233	19.69815	121.1427	0	606.5058	7.684317	0	0.066891
UBUS	Diesel	0	0	0	0	6.511639	0	0	0	0	0	20.64552	6.319761	0	0	0.987783	0	0
UBUS	Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UBUS	Natural Ga	0	0	0	0	1454.361	0	0	0	0	0	646.3166	20006.27	0	0	0	0	0
Total		#########	98314.35	#########	#########	#########	51782.17	#########	98313.65	#########	#########	#########	#########	#########	#########	12870.90	839.56	368.97

Appendix B AERMOD and HARP Output Files

*HARP - HRACalc v22118 4/7/2026 5:42:26 PM - Cancer Risk - Input File: C:\Users\MaMcPherson\OneDrive - Stantec\Desktop\JCC Fresno\HRA\HARP\ResidentialHRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBRE	CONC	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_R	MMILK_RIS	WATER_RIS	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISK	PIG_RISK	CHICKEN_	EGG_RISK	1ST_DRIVE	2ND_DRIVE	PASTURE_(	FISH_CONC	WATER_CONC
1			9901	DieselExhP	0.02287	8.71E-06	3YrCancerI	*	8.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION		0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v22118 4/7/2026 5:42:26 PM - Acute Risk - Input File: C:\Users\MaMcPherson\OneDrive - Stantec\Desktop\JCC Fresno\HRA\HARP\ResidentialHRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBRE	CONC	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL
1			9901	DieselExhP	0	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v22118 4/7/2026 5:42:26 PM - Chronic Risk - Input File: C:\Users\MaMcPherson\OneDrive - Stantec\Desktop\JCC Fresno\HRA\HARP\ResidentialHRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBRE	CONC	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL	DETAILS	INH_CONC
1			9901	DieselExhP	0.02287	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*	2.29E-02

HARP2 - HRACalc (dated 22118) 4/7/2026 5:42:26 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 3

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 2
2<9 Years Bin: 1
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors

Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: ON

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed
Calculating cancer risk
Cancer risk saved to: C:\Users\MaMcPherson\OneDrive - Stantec\Desktop\JCC Fresno\HRA\HARP\ResidentialCancerRisk.csv
Calculating chronic risk
Chronic risk saved to: C:\Users\MaMcPherson\OneDrive - Stantec\Desktop\JCC Fresno\HRA\HARP\ResidentialNCChronicRisk.csv
Calculating acute risk
Acute risk saved to: C:\Users\MaMcPherson\OneDrive - Stantec\Desktop\JCC Fresno\HRA\HARP\ResidentialNCAcuteRisk.csv
HRA ran successfully

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 13.0.0
** Lakes Environmental Software Inc.
** Date: 4/7/2026
** File: C:\Lakes\AERMOD View\New Fresno Courthouse Porject\New Fresno Courthouse
Porject.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Lakes\AERMOD View\New Fresno Courthouse Porject\New Fresno Courth
   MODELOPT DFAULT CONC
   AVERTIME 1 ANNUAL
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL "New Fresno Courthouse Porject.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION PAREA1       AREAPOLY   250839.142  4069325.343       88.220
** Source Parameters **
   SRCPARAM PAREA1       9.6135E-08     3.000         4
   AREAVERT PAREA1       250839.142 4069325.343 250889.614 4069269.345
   AREAVERT PAREA1       251001.241 4069361.816 250946.717 4069417.077
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "New Fresno Courthouse Porject.rou"
```

```
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE "Met data\Fresno_18-22.SFC"
   PROFFILE "Met data\Fresno_18-22.PFL"
   SURFDATA 93193 2018 FRESNO/AIR_TERMINAL
   UAIRDATA 23230 2018 OAKLAND/WSO_AP
   PROFBASE 100.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "New Fresno Courthouse Porject.AD\01H1GALL.PLT" 31
   PLOTFILE ANNUAL ALL "New Fresno Courthouse Porject.AD\AN00GALL.PLT" 32
   SUMMFILE "New Fresno Courthouse Porject.sum"
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    World Geodetic System 1984
** DTMRGN   Global Definition
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 13.0.0
** Lakes Environmental Software Inc.
** Date: 4/7/2026
** File: C:\Lakes\AERMOD View\New Fresno Courthouse Porject\New Fresno Courthouse
Porject.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Lakes\AERMOD View\New Fresno Courthouse Porject\New Fresno Courth
   MODELOPT DFAULT CONC
   AVERTIME 1 ANNUAL
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL "New Fresno Courthouse Porject.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION PAREA1       AREAPOLY   250839.142  4069325.343       88.220
** Source Parameters **
   SRCPARAM PAREA1       9.6135E-08     3.000         4
   AREAVERT PAREA1       250839.142 4069325.343 250889.614 4069269.345
   AREAVERT PAREA1       251001.241 4069361.816 250946.717 4069417.077
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
```

```
   INCLUDED "New Fresno Courthouse Porject.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE "Met data\Fresno_18-22.SFC"
   PROFFILE "Met data\Fresno_18-22.PFL"
   SURFDATA 93193 2018 FRESNO/AIR_TERMINAL
   UAIRDATA 23230 2018 OAKLAND/WSO_AP
   PROFBASE 100.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "New Fresno Courthouse Porject.AD\01H1GALL.PLT" 31
   PLOTFILE ANNUAL ALL "New Fresno Courthouse Porject.AD\AN00GALL.PLT" 32
   SUMMFILE "New Fresno Courthouse Porject.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186      63       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
     0.50
 ME W187      63       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
```

```
 **********************************
 *** SETUP Finishes Successfully ***
 **********************************

  *** AERMOD - VERSION 24142  ***   *** C:\Lakes\AERMOD View\New Fresno Courthouse
Porject\New Fresno Courth ***        04/07/26
 *** AERMET - VERSION  21112 ***   ***
                       ***        17:24:50

                                  PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                          ***     MODEL SETUP OPTIONS SUMMARY
 ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 ** Model Options Selected:
      * Model Uses Regulatory DEFAULT Options
      * Model Is Setup For Calculation of Average CONCentration Values.
      * NO GAS DEPOSITION Data Provided.
      * NO PARTICLE DEPOSITION Data Provided.
      * Model Uses NO DRY DEPLETION. DDPLETE  =  F
      * Model Uses NO WET DEPLETION. WETDPLT  =  F
      * Stack-tip Downwash.
      * Model Accounts for ELEVated Terrain Effects.
      * Use Calms Processing Routine.
      * Use Missing Data Processing Routine.
      * No Exponential Decay.
      * Model Uses RURAL Dispersion Only.
      * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
      * CCVR_Sub - Meteorological data includes CCVR substitutions
      * TEMP_Sub - Meteorological data includes TEMP substitutions
      * Model Assumes No FLAGPOLE Receptor Heights.
      * The User Specified a Pollutant Type of: DPM

 **Model Calculates  1 Short Term Average(s) of:   1-HR
     and Calculates ANNUAL Averages

 **This Run Includes:      1 Source(s);       1 Source Group(s); and     203
Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:      0 VOLUME source(s)
                 and:      1 AREA type source(s)
                 and:      0 LINE source(s)
                 and:      0 RLINE/RLINEXT source(s)
                 and:      0 OPENPIT source(s)
                 and:      0 BUOYANT LINE source(s) with a total of     0 line(s)
```

```
 INIT.   URBAN  EMISSION RATE    AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC       X        Y      ELEV.    HEIGHT  OF VERTS.
  SZ     SOURCE  SCALAR VARY
     ID         CATS.   /METER**2)   (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -

 PAREA1           0   0.96135E-07  250839.1 4069325.3    88.2     3.00       4
  0.00     NO                      NO
  *** AERMOD - VERSION 24142  ***   *** C:\Lakes\AERMOD View\New Fresno Courthouse
Porject\New Fresno Courth ***        04/07/26
 *** AERMET - VERSION  21112 ***   ***
                       ***        17:24:50

                                  PAGE   3
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                          SOURCE IDs
 -----------                                          ----------


  ALL        PAREA1      ,
  *** AERMOD - VERSION 24142  ***   *** C:\Lakes\AERMOD View\New Fresno Courthouse
Porject\New Fresno Courth ***        04/07/26
 *** AERMET - VERSION  21112 ***   ***
                       ***        17:24:50

                                  PAGE   4
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                        *** DISCRETE CARTESIAN RECEPTORS ***
                                       (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                (METERS)

     ( 250363.3, 4069583.2,      87.5,      87.5,       0.0);         ( 250373.3,
4069583.2,      87.5,      87.5,       0.0);
     ( 250383.3, 4069583.2,      87.5,      87.5,       0.0);         ( 250393.3,
4069583.2,      87.5,      87.5,       0.0);
     ( 250363.3, 4069593.2,      87.5,      87.5,       0.0);         ( 250373.3,
4069593.2,      87.5,      87.5,       0.0);
     ( 250383.3, 4069593.2,      87.6,      87.6,       0.0);         ( 250393.3,
4069593.2,      87.6,      87.6,       0.0);
     ( 250403.3, 4069593.2,      87.6,      87.6,       0.0);         ( 250353.3,
4069603.2,      87.5,      87.5,       0.0);
     ( 250363.3, 4069603.2,      87.5,      87.5,       0.0);         ( 250373.3,
4069603.2,      87.6,      87.6,       0.0);
```

```
     ( 250383.3, 4069603.2,      87.6,      87.6,       0.0);         ( 250393.3,
4069603.2,      87.6,      87.6,       0.0);
     ( 250403.3, 4069603.2,      87.6,      87.6,       0.0);         ( 250413.3,
4069603.2,      87.6,      87.6,       0.0);
     ( 250423.3, 4069603.2,      87.6,      87.6,       0.0);         ( 250343.3,
4069613.2,      87.5,      87.5,       0.0);
     ( 250353.3, 4069613.2,      87.5,      87.5,       0.0);         ( 250363.3,
4069613.2,      87.5,      87.5,       0.0);
     ( 250373.3, 4069613.2,      87.6,      87.6,       0.0);         ( 250383.3,
4069613.2,      87.6,      87.6,       0.0);
     ( 250393.3, 4069613.2,      87.6,      87.6,       0.0);         ( 250403.3,
4069613.2,      87.6,      87.6,       0.0);
     ( 250413.3, 4069613.2,      87.6,      87.6,       0.0);         ( 250423.3,
4069613.2,      87.7,      87.7,       0.0);
     ( 250433.3, 4069613.2,      87.6,      87.6,       0.0);         ( 250343.3,
4069623.2,      87.5,      87.5,       0.0);
     ( 250353.3, 4069623.2,      87.5,      87.5,       0.0);         ( 250363.3,
4069623.2,      87.5,      87.5,       0.0);
     ( 250373.3, 4069623.2,      87.6,      87.6,       0.0);         ( 250383.3,
4069623.2,      87.6,      87.6,       0.0);
     ( 250393.3, 4069623.2,      87.6,      87.6,       0.0);         ( 250403.3,
4069623.2,      87.6,      87.6,       0.0);
     ( 250413.3, 4069623.2,      87.7,      87.7,       0.0);         ( 250423.3,
4069623.2,      87.7,      87.7,       0.0);
     ( 250433.3, 4069623.2,      87.7,      87.7,       0.0);         ( 250443.3,
4069623.2,      87.7,      87.7,       0.0);
     ( 250343.3, 4069633.2,      87.5,      87.5,       0.0);         ( 250353.3,
4069633.2,      87.6,      87.6,       0.0);
     ( 250363.3, 4069633.2,      87.6,      87.6,       0.0);         ( 250373.3,
4069633.2,      87.6,      87.6,       0.0);
     ( 250383.3, 4069633.2,      87.6,      87.6,       0.0);         ( 250393.3,
4069633.2,      87.6,      87.6,       0.0);
     ( 250403.3, 4069633.2,      87.7,      87.7,       0.0);         ( 250413.3,
4069633.2,      87.7,      87.7,       0.0);
     ( 250423.3, 4069633.2,      87.7,      87.7,       0.0);         ( 250433.3,
4069633.2,      87.7,      87.7,       0.0);
     ( 250443.3, 4069633.2,      87.7,      87.7,       0.0);         ( 250453.3,
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     ( 250353.3, 4069643.2,      87.6,      87.6,       0.0);         ( 250363.3,
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     ( 250373.3, 4069643.2,      87.6,      87.6,       0.0);         ( 250383.3,
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     ( 250393.3, 4069643.2,      87.6,      87.6,       0.0);         ( 250403.3,
4069643.2,      87.7,      87.7,       0.0);
     ( 250413.3, 4069643.2,      87.7,      87.7,       0.0);         ( 250423.3,
4069643.2,      87.8,      87.8,       0.0);
     ( 250433.3, 4069643.2,      87.7,      87.7,       0.0);         ( 250443.3,
4069643.2,      87.7,      87.7,       0.0);
     ( 250353.3, 4069653.2,      87.6,      87.6,       0.0);         ( 250363.3,
4069653.2,      87.6,      87.6,       0.0);
```

```
     ( 250373.3, 4069653.2,      87.6,      87.6,       0.0);         ( 250383.3,
4069653.2,      87.6,      87.6,       0.0);
     ( 250393.3, 4069653.2,      87.7,      87.7,       0.0);         ( 250403.3,
4069653.2,      87.7,      87.7,       0.0);
     ( 250413.3, 4069653.2,      87.7,      87.7,       0.0);         ( 250423.3,
4069653.2,      87.8,      87.8,       0.0);
     ( 250433.3, 4069653.2,      87.8,      87.8,       0.0);         ( 250353.3,
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     ( 250363.3, 4069663.2,      87.6,      87.6,       0.0);         ( 250373.3,
4069663.2,      87.7,      87.7,       0.0);
     ( 250383.3, 4069663.2,      87.7,      87.7,       0.0);         ( 250393.3,
4069663.2,      87.7,      87.7,       0.0);
     ( 250403.3, 4069663.2,      87.8,      87.8,       0.0);         ( 250413.3,
4069663.2,      87.8,      87.8,       0.0);
     ( 250423.3, 4069663.2,      87.8,      87.8,       0.0);         ( 250433.3,
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     ( 250373.3, 4069673.2,      87.7,      87.7,       0.0);         ( 250383.3,
4069673.2,      87.7,      87.7,       0.0);
     ( 250393.3, 4069673.2,      87.8,      87.8,       0.0);         ( 250403.3,
4069673.2,      87.8,      87.8,       0.0);
     ( 250413.3, 4069673.2,      87.8,      87.8,       0.0);         ( 250423.3,
4069673.2,      87.8,      87.8,       0.0);
     ( 250383.3, 4069683.2,      87.8,      87.8,       0.0);         ( 250393.3,
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     ( 250403.3, 4069683.2,      87.8,      87.8,       0.0);         ( 250413.3,
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     ( 250393.3, 4069693.2,      87.9,      87.9,       0.0);         ( 250403.3,
4069693.2,      87.9,      87.9,       0.0);
  *** AERMOD - VERSION 24142  ***   *** C:\Lakes\AERMOD View\New Fresno Courthouse
Porject\New Fresno Courth ***        04/07/26
 *** AERMET - VERSION  21112 ***   ***
                       ***        17:24:50

                                  PAGE   5
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                  (METERS)

     ( 250765.7, 4069577.3,      88.5,      88.5,       0.0);         ( 250775.7,
4069577.3,      88.4,      88.4,       0.0);
     ( 250755.7, 4069587.3,      88.5,      88.5,       0.0);         ( 250765.7,
4069587.3,      88.5,      88.5,       0.0);
     ( 250775.7, 4069587.3,      88.5,      88.5,       0.0);         ( 250785.7,
4069587.3,      88.5,      88.5,       0.0);
     ( 250745.7, 4069597.3,      88.6,      88.6,       0.0);         ( 250755.7,
4069597.3,      88.5,      88.5,       0.0);
     ( 250765.7, 4069597.3,      88.5,      88.5,       0.0);         ( 250775.7,
4069597.3,      88.5,      88.5,       0.0);
```

```
     ( 250785.7, 4069597.3,      88.5,      88.5,       0.0);         ( 250795.7,
4069597.3,      88.4,      88.4,       0.0);
     ( 250745.7, 4069607.3,      88.6,      88.6,       0.0);         ( 250755.7,
4069607.3,      88.6,      88.6,       0.0);
     ( 250765.7, 4069607.3,      88.5,      88.5,       0.0);         ( 250775.7,
4069607.3,      88.5,      88.5,       0.0);
     ( 250785.7, 4069607.3,      88.5,      88.5,       0.0);         ( 250745.7,
4069617.3,      88.6,      88.6,       0.0);
     ( 250755.7, 4069617.3,      88.6,      88.6,       0.0);         ( 250765.7,
4069617.3,      88.6,      88.6,       0.0);
     ( 250775.7, 4069617.3,      88.5,      88.5,       0.0);         ( 250745.7,
4069627.3,      88.6,      88.6,       0.0);
     ( 250755.7, 4069627.3,      88.6,      88.6,       0.0);         ( 250765.7,
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     ( 250334.7, 4069437.6,      87.5,      87.5,       0.0);         ( 250344.7,
4069437.6,      87.6,      87.6,       0.0);
     ( 250324.7, 4069447.6,      87.4,      87.4,       0.0);         ( 250334.7,
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     ( 250344.7, 4069447.6,      87.5,      87.5,       0.0);         ( 250354.7,
4069447.6,      87.7,      87.7,       0.0);
     ( 250314.7, 4069457.6,      87.3,      87.3,       0.0);         ( 250324.7,
4069457.6,      87.4,      87.4,       0.0);
     ( 250334.7, 4069457.6,      87.4,      87.4,       0.0);         ( 250344.7,
4069457.6,      87.5,      87.5,       0.0);
     ( 250354.7, 4069457.6,      87.6,      87.6,       0.0);         ( 250364.7,
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     ( 250334.7, 4069467.6,      87.3,      87.3,       0.0);         ( 250344.7,
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     ( 250354.7, 4069467.6,      87.5,      87.5,       0.0);         ( 250364.7,
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     ( 250334.7, 4069477.6,      87.3,      87.3,       0.0);         ( 250344.7,
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     ( 250354.7, 4069477.6,      87.4,      87.4,       0.0);         ( 250324.7,
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     ( 250334.7, 4069487.6,      87.3,      87.3,       0.0);         ( 250344.7,
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     ( 250334.7, 4069497.6,      87.3,      87.3,       0.0);         ( 250562.0,
4069164.7,      88.2,      88.2,       0.0);
     ( 250572.0, 4069164.7,      88.2,      88.2,       0.0);         ( 250582.0,
4069164.7,      88.3,      88.3,       0.0);
     ( 250552.0, 4069174.7,      88.2,      88.2,       0.0);         ( 250562.0,
4069174.7,      88.2,      88.2,       0.0);
     ( 250572.0, 4069174.7,      88.2,      88.2,       0.0);         ( 250582.0,
4069174.7,      88.2,      88.2,       0.0);
     ( 250592.0, 4069174.7,      88.2,      88.2,       0.0);         ( 250602.0,
4069174.7,      88.2,      88.2,       0.0);
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(250542.0, 4069184.7, 88.1, 88.1, 0.0); (250552.0, 4069184.7, 88.2, 88.2, 0.0);
(250562.0, 4069184.7, 88.2, 88.2, 0.0); (250572.0, 4069184.7, 88.2, 88.2, 0.0);
(250582.0, 4069184.7, 88.2, 88.2, 0.0); (250592.0, 4069184.7, 88.2, 88.2, 0.0);
(250532.0, 4069194.7, 88.0, 88.0, 0.0); (250542.0, 4069194.7, 88.1, 88.1, 0.0);
(250552.0, 4069194.7, 88.2, 88.2, 0.0); (250562.0, 4069194.7, 88.2, 88.2, 0.0);
(250572.0, 4069194.7, 88.2, 88.2, 0.0); (250582.0, 4069194.7, 88.2, 88.2, 0.0);
(250592.0, 4069194.7, 88.2, 88.2, 0.0); (250532.0, 4069204.7, 88.0, 88.0, 0.0);
(250542.0, 4069204.7, 88.1, 88.1, 0.0); (250552.0, 4069204.7, 88.1, 88.1, 0.0);
(250562.0, 4069204.7, 88.2, 88.2, 0.0); (250572.0, 4069204.7, 88.2, 88.2, 0.0);
(250582.0, 4069204.7, 88.2, 88.2, 0.0); (250542.0, 4069214.7, 88.0, 88.0, 0.0);
(250552.0, 4069214.7, 88.1, 88.1, 0.0); (250562.0, 4069214.7, 88.1, 88.1, 0.0);
(250572.0, 4069214.7, 88.1, 88.1, 0.0); (251132.8, 4068860.5, 88.2, 88.2, 0.0);
(251142.8, 4068860.5, 88.2, 88.2, 0.0); (251152.8, 4068860.5, 88.2, 88.2, 0.0);
(251122.8, 4068870.5, 88.3, 88.3, 0.0); (251132.8, 4068870.5, 88.3, 88.3, 0.0);
(251142.8, 4068870.5, 88.2, 88.2, 0.0); (251152.8, 4068870.5, 88.2, 88.2, 0.0);

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(251162.8, 4068870.5, 88.2, 88.2, 0.0); (251122.8, 4068880.5, 88.4, 88.4, 0.0);
(251132.8, 4068880.5, 88.3, 88.3, 0.0); (251142.8, 4068880.5, 88.3, 88.3, 0.0);
(251152.8, 4068880.5, 88.3, 88.3, 0.0); (251162.8, 4068880.5, 88.3, 88.3, 0.0);
(251142.8, 4068890.5, 88.4, 88.4, 0.0); (251152.8, 4068890.5, 88.3, 88.3, 0.0);

```
     ( 251152.8, 4068900.5,      88.4,      88.4,       0.0);         ( 251238.6,
4069235.2,      89.2,      89.2,       0.0);
     ( 251228.6, 4069245.2,      89.2,      89.2,       0.0);         ( 251238.6,
4069245.2,      89.2,      89.2,       0.0);
     ( 251248.6, 4069245.2,      89.1,      89.1,       0.0);         ( 251218.6,
4069255.2,      89.2,      89.2,       0.0);
     ( 251228.6, 4069255.2,      89.2,      89.2,       0.0);         ( 251238.6,
4069255.2,      89.2,      89.2,       0.0);
     ( 251248.6, 4069255.2,      89.1,      89.1,       0.0);         ( 251208.6,
4069265.2,      89.2,      89.2,       0.0);
     ( 251218.6, 4069265.2,      89.2,      89.2,       0.0);         ( 251228.6,
4069265.2,      89.2,      89.2,       0.0);
     ( 251238.6, 4069265.2,      89.1,      89.1,       0.0);         ( 251218.6,
4069275.2,      89.2,      89.2,       0.0);
     ( 251228.6, 4069275.2,      89.2,      89.2,       0.0);

  *** AERMOD - VERSION 24142  ***   *** C:\Lakes\AERMOD View\New Fresno Courthouse
Porject\New Fresno Courth ***        04/07/26
 *** AERMET - VERSION  21112 ***   ***
                       ***        17:24:50

                                   PAGE   7
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                          *** METEOROLOGICAL DAYS SELECTED FOR
PROCESSING ***
                                                                (1=YES; 0=NO)

           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1

               NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON
WHAT IS INCLUDED IN THE DATA FILE.


                                   *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED
```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL
DATA ***

Surface file: Met data\Fresno_18-22.SFC
Met Version: 21112
Profile file: Met data\Fresno_18-22.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 93193 Upper air station no.: 23230
Name: FRESNO/AIR_TERMINAL Name:
OAKLAND/WSO_AP
Year: 2018 Year: 2018

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
18	01	01	1	01	-6.0	0.108	-9.000	-9.000	-999.	85.	18.7	0.17	1.06	1.00	1.20	347.	10.0	280.9	2.0
18	01	01	1	02	-2.0	0.062	-9.000	-9.000	-999.	38.	10.9	0.02	1.06	1.00	0.91	174.	10.0	279.2	2.0
18	01	01	1	03	-3.4	0.076	-9.000	-9.000	-999.	50.	11.8	0.03	1.06	1.00	1.20	265.	10.0	279.2	2.0
18	01	01	1	04	-5.1	0.095	-9.000	-9.000	-999.	71.	15.2	0.06	1.06	1.00	1.35	316.	10.0	278.1	2.0
18	01	01	1	05	-8.8	0.123	-9.000	-9.000	-999.	104.	19.1	0.04	1.06	1.00	1.87	96.	10.0	277.0	2.0
18	01	01	1	06	-2.6	0.067	-9.000	-9.000	-999.	43.	10.7	0.02	1.06	1.00	1.08	177.	10.0	277.5	2.0
18	01	01	1	07	-3.7	0.078	-9.000	-9.000	-999.	52.	11.5	0.02	1.06	1.00	1.33	181.	10.0	277.5	2.0
18	01	01	1	08	-15.2	0.167	-9.000	-9.000	-999.	164.	30.7	0.06	1.06	0.65	2.32	76.	10.0	276.4	2.0

```
 18 01 01   1 09   -3.5  0.149 -9.000 -9.000 -999.  139.     86.8  0.04   1.06
0.36    2.15  109.   10.0  278.1    2.0
 18 01 01   1 10   56.2  0.204  0.651  0.006  177.  221.    -13.6  0.04   1.06
0.26    2.37  134.   10.0  281.4    2.0
 18 01 01   1 11   92.0  0.233  1.067  0.016  477.  270.    -12.4  0.04   1.06
0.22    2.62  105.   10.0  283.1    2.0
 18 01 01   1 12  116.8  0.202  1.234  0.018  581.  219.     -6.4  0.04   1.06
0.21    2.11  102.   10.0  285.9    2.0
 18 01 01   1 13  112.5  0.144  1.280  0.019  673.  132.     -2.4  0.02   1.06
0.21    1.55  183.   10.0  287.5    2.0
 18 01 01   1 14   84.0  0.122  1.190  0.019  723.  103.     -2.0  0.02   1.06
0.22    1.28  200.   10.0  289.2    2.0
 18 01 01   1 15   57.9  0.161  1.059  0.019  738.  155.     -6.5  0.03   1.06
0.26    1.81  262.   10.0  290.4    2.0
 18 01 01   1 16   16.8  0.124  0.702  0.019  742.  105.    -10.3  0.03   1.06
0.35    1.47  259.   10.0  289.9    2.0
 18 01 01   1 17   -2.5  0.068 -9.000 -9.000 -999.   44.     11.3  0.02   1.06
0.62    1.14  297.   10.0  287.5    2.0
 18 01 01   1 18   -7.4  0.111 -9.000 -9.000 -999.   89.     16.9  0.03   1.06
1.00    1.84  239.   10.0  286.4    2.0
 18 01 01   1 19   -4.0  0.085 -9.000 -9.000 -999.   60.     13.8  0.06   1.06
1.00    1.21   83.   10.0  284.9    2.0
 18 01 01   1 20  -10.4  0.137 -9.000 -9.000 -999.  122.     22.3  0.06   1.06
1.00    1.93   76.   10.0  283.8    2.0
 18 01 01   1 21   -4.7  0.090 -9.000 -9.000 -999.   65.     14.0  0.04   1.06
1.00    1.38  109.   10.0  283.1    2.0
 18 01 01   1 22   -4.1  0.084 -9.000 -9.000 -999.   58.     13.0  0.04   1.06
1.00    1.30  127.   10.0  281.4    2.0
 18 01 01   1 23  -11.7  0.145 -9.000 -9.000 -999.  133.     23.6  0.06   1.06
1.00    2.04   70.   10.0  280.9    2.0
 18 01 01   1 24   -3.4  0.079 -9.000 -9.000 -999.   54.     13.0  0.06   1.06
1.00    1.09   80.   10.0  281.4    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 18 01 01 01   10.0 1  347.    1.20   281.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
  *** AERMOD - VERSION 24142  ***   *** C:\Lakes\AERMOD View\New Fresno Courthouse
Porject\New Fresno Courth ***        04/07/26
 *** AERMET - VERSION  21112 ***   ***
                       ***        17:24:50

                                  PAGE   9
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                   *** THE ANNUAL AVERAGE CONCENTRATION    VALUES AVERAGED OVER   5
YEARS FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):     PAREA1      ,
```

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
250363.28	4069583.21	0.00723	250373.28	4069583.21	0.00739
250383.28	4069583.21	0.00756	250393.28	4069583.21	0.00773
250363.28	4069593.21	0.00709	250373.28	4069593.21	0.00725
250383.28	4069593.21	0.00741	250393.28	4069593.21	0.00757
250403.28	4069593.21	0.00774	250353.28	4069603.21	0.00681
250363.28	4069603.21	0.00695	250373.28	4069603.21	0.00710
250383.28	4069603.21	0.00726	250393.28	4069603.21	0.00741
250403.28	4069603.21	0.00757	250413.28	4069603.21	0.00773
250423.28	4069603.21	0.00790	250343.28	4069613.21	0.00654
250353.28	4069613.21	0.00668	250363.28	4069613.21	0.00682
250373.28	4069613.21	0.00696	250383.28	4069613.21	0.00710
250393.28	4069613.21	0.00725	250403.28	4069613.21	0.00740
250413.28	4069613.21	0.00756	250423.28	4069613.21	0.00771
250433.28	4069613.21	0.00786	250343.28	4069623.21	0.00642
250353.28	4069623.21	0.00655	250363.28	4069623.21	0.00668
250373.28	4069623.21	0.00681	250383.28	4069623.21	0.00695
250393.28	4069623.21	0.00709	250403.28	4069623.21	0.00723
250413.28	4069623.21	0.00738	250423.28	4069623.21	0.00752
250433.28	4069623.21	0.00766	250443.28	4069623.21	0.00780
250343.28	4069633.21	0.00629	250353.28		

```
4069633.21        0.00642
         250363.28    4069633.21        0.00654                      250373.28
4069633.21        0.00667
         250383.28    4069633.21        0.00680                      250393.28
4069633.21        0.00693
         250403.28    4069633.21        0.00706                      250413.28
4069633.21        0.00719
         250423.28    4069633.21        0.00732                      250433.28
4069633.21        0.00745
         250443.28    4069633.21        0.00758                      250453.28
4069633.21        0.00770
         250353.28    4069643.21        0.00629                      250363.28
4069643.21        0.00641
         250373.28    4069643.21        0.00653                      250383.28
4069643.21        0.00665
         250393.28    4069643.21        0.00677                      250403.28
4069643.21        0.00689
         250413.28    4069643.21        0.00701                      250423.28
4069643.21        0.00713
         250433.28    4069643.21        0.00724                      250443.28
4069643.21        0.00735
         250353.28    4069653.21        0.00616                      250363.28
4069653.21        0.00627
         250373.28    4069653.21        0.00638                      250383.28
4069653.21        0.00649
         250393.28    4069653.21        0.00660                      250403.28
4069653.21        0.00671
         250413.28    4069653.21        0.00682                      250423.28
4069653.21        0.00693
         250433.28    4069653.21        0.00703                      250353.28
4069663.21        0.00603
         250363.28    4069663.21        0.00613                      250373.28
4069663.21        0.00623
         250383.28    4069663.21        0.00634                      250393.28
4069663.21        0.00644
         250403.28    4069663.21        0.00654                      250413.28
4069663.21        0.00663
         250423.28    4069663.21        0.00672                      250433.28
4069663.21        0.00681
         250373.28    4069673.21        0.00608                      250383.28
4069673.21        0.00618
  *** AERMOD - VERSION 24142  ***   *** C:\Lakes\AERMOD View\New Fresno Courthouse
Porject\New Fresno Courth ***        04/07/26
 *** AERMET - VERSION  21112 ***   ***
                      ***        17:24:50

                                 PAGE  10
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                  *** THE ANNUAL AVERAGE CONCENTRATION    VALUES AVERAGED OVER   5
```

YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
250393.28	4069673.21	0.00627	250403.28	4069673.21	0.00636
250413.28	4069673.21	0.00644	250423.28	4069673.21	0.00652
250383.28	4069683.21	0.00602	250393.28	4069683.21	0.00610
250403.28	4069683.21	0.00617	250413.28	4069683.21	0.00624
250393.28	4069693.21	0.00592	250403.28	4069693.21	0.00599
250765.73	4069577.32	0.01232	250775.73	4069577.32	0.01220
250755.73	4069587.32	0.01142	250765.73	4069587.32	0.01132
250775.73	4069587.32	0.01122	250785.73	4069587.32	0.01110
250745.73	4069597.32	0.01062	250755.73	4069597.32	0.01054
250765.73	4069597.32	0.01045	250775.73	4069597.32	0.01035
250785.73	4069597.32	0.01024	250795.73	4069597.32	0.01013
250745.73	4069607.32	0.00983	250755.73	4069607.32	0.00976
250765.73	4069607.32	0.00967	250775.73	4069607.32	0.00958
250785.73	4069607.32	0.00949	250745.73	4069617.32	0.00913
250755.73	4069617.32	0.00906	250765.73	4069617.32	0.00899
250775.73	4069617.32	0.00890	250745.73	4069627.32	0.00851
250755.73	4069627.32	0.00844	250765.73	4069627.32	0.00838
250334.74	4069437.63	0.00886	250344.74	4069437.63	0.00910
250324.74	4069447.63	0.00849	250334.74		

4069447.63   0.00871
         250344.74   4069447.63   0.00894   250354.74
4069447.63   0.00919
         250314.74   4069457.63   0.00815   250324.74
4069457.63   0.00835
         250334.74   4069457.63   0.00857   250344.74
4069457.63   0.00879
         250354.74   4069457.63   0.00903   250364.74
4069457.63   0.00927
         250314.74   4069467.63   0.00801   250324.74
4069467.63   0.00821
         250334.74   4069467.63   0.00842   250344.74
4069467.63   0.00863
         250354.74   4069467.63   0.00886   250364.74
4069467.63   0.00910
         250314.74   4069477.63   0.00788   250324.74
4069477.63   0.00807
         250334.74   4069477.63   0.00827   250344.74
4069477.63   0.00848
         250354.74   4069477.63   0.00870   250324.74
4069487.63   0.00793
         250334.74   4069487.63   0.00812   250344.74
4069487.63   0.00832
         250334.74   4069497.63   0.00798   250562.02
4069164.66   0.01478
         250572.02   4069164.66   0.01513   250582.02
4069164.66   0.01548
         250552.02   4069174.66   0.01513   250562.02
4069174.66   0.01552
         250572.02   4069174.66   0.01592   250582.02
4069174.66   0.01632
         250592.02   4069174.66   0.01673   250602.02
4069174.66   0.01715
         250542.02   4069184.66   0.01539   250552.02
4069184.66   0.01583
         250562.02   4069184.66   0.01627   250572.02
4069184.66   0.01672
         250582.02   4069184.66   0.01719   250592.02
4069184.66   0.01766
         250532.02   4069194.66   0.01558   250542.02
4069194.66   0.01604
         250552.02   4069194.66   0.01653   250562.02
4069194.66   0.01703

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
250572.02	4069194.66	0.01754	250582.02	4069194.66	0.01806
250592.02	4069194.66	0.01860	250532.02	4069204.66	0.01617
250542.02	4069204.66	0.01668	250552.02	4069204.66	0.01722
250562.02	4069204.66	0.01777	250572.02	4069204.66	0.01834
250582.02	4069204.66	0.01894	250542.02	4069214.66	0.01731
250552.02	4069214.66	0.01790	250562.02	4069214.66	0.01851
250572.02	4069214.66	0.01914	251132.75	4068860.54	0.00722
251142.75	4068860.54	0.00745	251152.75	4068860.54	0.00770
251122.75	4068870.54	0.00736	251132.75	4068870.54	0.00761
251142.75	4068870.54	0.00787	251152.75	4068870.54	0.00813
251162.75	4068870.54	0.00839	251122.75	4068880.54	0.00777
251132.75	4068880.54	0.00804	251142.75	4068880.54	0.00831
251152.75	4068880.54	0.00858	251162.75	4068880.54	0.00886
251142.75	4068890.54	0.00879	251152.75	4068890.54	0.00908
251152.75	4068900.54	0.00961	251238.62	4069235.23	0.02081
251228.62	4069245.23	0.02151	251238.62	4069245.23	0.02007
251248.62	4069245.23	0.01875	251218.62	4069255.23	0.02220
251228.62	4069255.23	0.02064	251238.62		

4069255.23 0.01922
 251248.62 4069255.23 0.01793 251208.62
4069265.23 0.02287
 251218.62 4069265.23 0.02118 251228.62
4069265.23 0.01966
 251238.62 4069265.23 0.01828 251218.62
4069275.23 0.02005
 251228.62 4069275.23 0.01858

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
250363.28	4069583.21	0.58804	(19122709)	250373.28	4069583.21	0.61307	(19122709)
250383.28	4069583.21	0.63754	(19122709)	250393.28	4069583.21	0.66112	(19122709)
250363.28	4069593.21	0.61153	(19122709)	250373.28	4069593.21	0.63354	(19122709)
250383.28	4069593.21	0.65450	(19122709)	250393.28	4069593.21	0.67413	(19122709)
250403.28	4069593.21	0.69214	(19122709)	250353.28	4069603.21	0.60755	(19122709)
250363.28	4069603.21	0.62719	(19122709)	250373.28	4069603.21	0.64564	(19122709)
250383.28	4069603.21	0.66259	(19122709)	250393.28	4069603.21	0.67798	(19122709)
250403.28	4069603.21	0.69132	(19122709)	250413.28	4069603.21	0.70249	(19122709)
250423.28	4069603.21	0.71138	(19122709)	250343.28	4069613.21	0.60184	(19122709)
250353.28	4069613.21	0.61900	(19122709)	250363.28			

4069613.21 0.63486 (19122709)
250373.28 4069613.21 0.64919 (19122709) 250383.28
4069613.21 0.66188 (19122709)
250393.28 4069613.21 0.67267 (19122709) 250403.28
4069613.21 0.68137 (19122709)
250413.28 4069613.21 0.68768 (19122709) 250423.28
4069613.21 0.69161 (19122709)
250433.28 4069613.21 0.69275 (19122709) 250343.28
4069623.21 0.60923 (19122709)
250353.28 4069623.21 0.62271 (19122709) 250363.28
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4069673.21 0.50935 (19122709)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
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250413.28	4069673.21	0.54219	(18110317)	250423.28	4069673.21	0.55331	(18110317)
250383.28	4069683.21	0.50469	(18110317)	250393.28	4069683.21	0.51801	(18110317)
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250765.73	4069577.32	1.33633	(18100107)	250775.73	4069577.32	1.41684	(18100107)
250755.73	4069587.32	1.25416	(22112808)	250765.73	4069587.32	1.33927	(18100107)
250775.73	4069587.32	1.40738	(18100107)	250785.73	4069587.32	1.45602	(18100107)
250745.73	4069597.32	1.20025	(22112808)	250755.73			

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4069597.32        1.26199  (18100107)
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4069447.63        0.48533  (20021308)
        250344.74   4069447.63        0.49247  (20021308)                250354.74
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        250334.74   4069497.63        0.46864  (22010517)                250562.02
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        250572.02   4069164.66        1.01028  (21022308)                250582.02
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

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        251142.75   4068870.54        0.36320  (22021320)                251152.75
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        251152.75   4068880.54        0.40743  (22021320)                251162.75
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4069255.23        1.23777  (19012217)
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4069265.23        1.27315  (19012217)
        251218.62   4069265.23        1.22715  (19012217)                251228.62
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4069275.23        1.20481  (21102817)
        251228.62   4069275.23        1.18518  (21102817)

  *** AERMOD - VERSION 24142  ***   *** C:\Lakes\AERMOD View\New Fresno Courthouse
Porject\New Fresno Courth ***        04/07/26
 *** AERMET - VERSION  21112 ***   ***
                      ***        17:24:50

                                  PAGE  15
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                   *** THE SUMMARY OF MAXIMUM ANNUAL RESULTS
AVERAGED OVER   5 YEARS ***


                                    ** CONC OF DPM      IN MICROGRAMS/M**3
             **


                     NETWORK
GROUP ID                    AVERAGE CONC                RECEPTOR  (XR, YR, ZELEV,
ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -
```

```
ALL       1ST HIGHEST VALUE IS       0.02287 AT (  251208.62,  4069265.23,    89.24,
   89.24,    0.00)  DC
          2ND HIGHEST VALUE IS       0.02220 AT (  251218.62,  4069255.23,    89.21,
   89.21,    0.00)  DC
          3RD HIGHEST VALUE IS       0.02151 AT (  251228.62,  4069245.23,    89.21,
   89.21,    0.00)  DC
          4TH HIGHEST VALUE IS       0.02118 AT (  251218.62,  4069265.23,    89.20,
   89.20,    0.00)  DC
          5TH HIGHEST VALUE IS       0.02081 AT (  251238.62,  4069235.23,    89.21,
   89.21,    0.00)  DC
          6TH HIGHEST VALUE IS       0.02064 AT (  251228.62,  4069255.23,    89.19,
   89.19,    0.00)  DC
          7TH HIGHEST VALUE IS       0.02007 AT (  251238.62,  4069245.23,    89.18,
   89.18,    0.00)  DC
          8TH HIGHEST VALUE IS       0.02005 AT (  251218.62,  4069275.23,    89.24,
   89.24,    0.00)  DC
          9TH HIGHEST VALUE IS       0.01966 AT (  251228.62,  4069265.23,    89.17,
   89.17,    0.00)  DC
         10TH HIGHEST VALUE IS       0.01922 AT (  251238.62,  4069255.23,    89.16,
   89.16,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
  *** AERMOD - VERSION 24142  ***   *** C:\Lakes\AERMOD View\New Fresno Courthouse
Porject\New Fresno Courth ***        04/07/26
 *** AERMET - VERSION  21112 ***   ***
                       ***        17:24:50

                                  PAGE  16
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                                *** THE SUMMARY OF HIGHEST  1-HR
RESULTS ***


                                    ** CONC OF DPM      IN MICROGRAMS/M**3
             **

                                                        DATE
                                          NETWORK
GROUP ID                             AVERAGE CONC     (YYMMDDHH)             RECEPTOR
(XR, YR, ZELEV, ZHILL, ZFLAG)    OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

ALL      HIGH   1ST HIGH VALUE IS       1.45602  ON 18100107: AT (  250785.73,
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```
4069587.32,    88.46,    88.46,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
  *** AERMOD - VERSION 24142  ***   *** C:\Lakes\AERMOD View\New Fresno Courthouse
Porject\New Fresno Courth ***        04/07/26
 *** AERMET - VERSION  21112 ***   ***
                       ***        17:24:50

                                  PAGE  17
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            4 Warning Message(s)
 A Total of         1361 Informational Message(s)

 A Total of        43824 Hours Were Processed

 A Total of          750 Calm Hours Identified

 A Total of          611 Missing Hours Identified (  1.39 Percent)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186      63       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
     0.50
 ME W187      63       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 MX W420    7582        METQA: Wind Speed Out-of-Range.   KURDAT =
 18111222
 MX W420    7588        METQA: Wind Speed Out-of-Range.   KURDAT =
 18111304

    ***********************************
    *** AERMOD Finishes Successfully ***
    ***********************************
```

Stantec

Stantec is a global leader in sustainable architecture, engineering, and environmental consulting. The diverse perspectives of our partners and interested parties drive us to think beyond what's previously been done on critical issues like climate change, digital transformation, and future-proofing our cities and infrastructure. We innovate at the intersection of community, creativity, and client relationships to advance communities everywhere, so that together we can redefine what's possible.

Appendix C Biological Resources Technical Report

Biological Resources Technical Report

New Fresno Courthouse Project

Date:
April 23, 2026

Prepared for:
Judicial Council of California

Prepared by:
Stantec Consulting Services Inc.
621 W Line Street, Suite 205
Bishop, California 93514

Project/File:
185806843

Stantec

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Approved by:

Signature

StephAnnie Roberts, Principal, Environmental Planner

Table of Contents

1 Introduction 1
2 Project Description 2
3 Methods 3
3.1 Definitions 3
3.1.1 Special-Status Species and Sensitive Communities 3
3.2 Literature and Database Review 4
4 Regulatory Context 6
4.1 Federal Regulatory Requirements 6
4.1.1 Federal Endangered Species Act 6
4.1.2 Clean Water Act 6
4.1.3 Migratory Bird Treaty Act 6
4.2 State Regulatory Requirements 6
4.2.1 California Endangered Species Act 6
4.2.2 Porter-Cologne Water Quality Control Act 7
4.2.3 California Fish and Game Code 7
4.3 Local Regulations 7
4.3.1 City of Fresno General Plan 8
4.3.2 Fresno Municipal Code 8
5 Environmental Setting 9
5.1 Site Conditions and Land Use 9
5.1.1 Local Setting and Existing Land Use 9
5.1.2 Physical Conditions 9
5.2 Biotic Habitats 10
5.2.1 Vegetation Communities 10
5.2.2 Habitat Connectivity 11
5.2.3 Special-Status Plant Species 11
5.2.4 Special-Status Animal Species 13
6 Results 18
6.1 Habitats and Natural Communities of Concern 18
6.1.1 Sensitive Natural Communities 18
6.1.2 Wetlands and Other Waters 18
6.1.3 Critical Habitat 18
6.1.4 Habitat Connectivity 18
6.2 Special-Status Plant Species 18
6.3 Special-Status Animal Species 18
6.3.1 Western Mastiff Bat 19
6.3.2 Nesting Raptors and Other Migratory Birds 20
7 Conclusions and Recommendations 21
7.1 Special Status Animal Species 21
7.1.1 Western Mastiff Bat 21
7.1.2 Raptors and Other Migratory Bird Species 22
8 References 23

List of Tables

Table 1. Invasive Species Know to Occur within the Project Area 11
Table 2. Special Status Plant Species with Potential to Occur within the Study Area 12
Table 3. Special Status Animal Species with Potential to Occur within the Study Area 14

List of Appendices

Appendix A Figures
- A.1 Project Location
- A.2 Project Area
- A.3 Study Area
- A.4 CNDDB Special-Status Plant & Animal Species Occurrence within Five Miles of the Project Area

Appendix B Database Results
- B.1 USFWS
- B.2 CNDDB
- B.3 CNPS

Appendix C Representative Photographs

Acronyms / Abbreviations

Acronym / Abbreviation	Full Name
APN	Assessor's Parcel Number
CDFW	California Department of Fish and Wildlife
CEQA	California Environmental Quality Act
CESA	California Endangered Species Act
CNDDB	California Natural Diversity Database
CNPS	California Native Plant Society
COOP	Continuity of Operations Plan
CRPR	California Rare Plant Rank
CWA	Clean Water Act
DPS	Distinct Population Segment
EAP	Emergency Action Plan
EIR	Environmental Impact Report
ESA / FESA	Federal Endangered Species Act
FC	Federal Candidate
FE	Federally Endangered
FGC	California Fish and Game Code
FT	Federally Threatened
GIS	Geographic Information System
HSEEP	Homeland Security Exercise and Evaluation Program
IPaC	Information for Planning and Consultation (USFWS)
LEED	Leadership in Energy and Environmental Design
MBTA	Migratory Bird Treaty Act
NWI	National Wetlands Inventory
NPPA	Native Plant Protection Act
P	Proposed for Listing (Federal)
RWQCB	Regional Water Quality Control Board
SF	Square Feet
SR	State Route
SR (Status)	State Rare
SSC	Species of Special Concern (CDFW)
State T / ST	State Threatened
State E / SE	State Endangered
SWRCB	State Water Resources Control Board
USACE	U.S. Army Corps of Engineers
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
WDR	Waste Discharge Requirement
WOTS	Waters of the State
WOTUS	Waters of the United States
WRCC	Western Regional Climate Center

1 Introduction

This Biological Resources Technical Report (Report) addresses biological resources in and around the Judicial Council of California's (Judicial Council's) proposed New Fresno Courthouse Project (Project). The Report describes the environmental conditions within the vicinity of the Project and evaluates the potential for biological resources to occur, with an emphasis on special-status plant and animal species (i.e. those listed as endangered or threatened or given another designation by the state or federal regulatory agencies owing to heightened conservation concern) as well as jurisdictional features and regulated habitats. Together, this summary of desktop resources and field surveys will help inform analysis for California Environmental Quality Act (CEQA) review and requirements for State of California regulatory agency permitting and compliance.

The Project is located in the City of Fresno (City), in Fresno County, California **(Appendix A -Figure 1)**. The Project consists of the demolition of two existing buildings and the construction of a new courthouse for the Superior Court of California, County of Fresno (County), to support criminal, juvenile, drug, behavioral health, and general trial cases. The proposed courthouse facility is located on a 2.09-acre portion of the 7.60-acre L-shaped lot (Site 1), which occupies the western portion of the 13.94-acre Courtyard Park parcel, County-owned Courthouse Park property at 2200 Fresno Street **(Appendix A -Figure 2)**. Site 1 is located on the western side of the parcel and is bound by Fresno Street to the northwest, M Street to the northeast, Tulare Street southeast, and Van Ness Avenue to the southwest. It encompasses the existing County Sheriff's Office and South Annex Jail, which are connected via an underground tunnel to the Main Jail located across Fresno Street to the west. In addition to Site 1, an adjacent staging area is proposed at the intersection of Fresno Street and M Street. Together, Site 1 and the adjacent staging area (staging area 3) make up the Project Area **(Appendix A - Figure 2).**

This Report is based on existing information, including information gathered from a review of desktop resources (i.e. existing literature, data, and maps), a 2023 field reconnaissance survey and accompanying Due Diligence Report (PlaceWorks 2024), and a 2025 field reconnaissance survey (Stantec 2025). The Study Area for this Report encompasses the Project Area and a 500-foot buffer **(Appendix A - Figure 3).**

The overall purpose of this Report is to:

- Characterize the habitat and vegetation communities present;
- Evaluate the potential for special-status plant and animal species to occur; and
- Discuss potential impacts to special-status species, sensitive natural communities, and jurisdictional aquatic features.

2 Project Description

The Judicial Council is proposing to construct and operate a new consolidated courthouse for the Fresno County Superior Court of California (Project) to support criminal, civil, juvenile, drug, behavioral health, and general trial cases. The Project will be delivered through a Design-Build process. Although final plans have not yet been prepared, the Project is anticipated to include demolition, site preparation, grading, building construction, paving, and architectural finishing activities.

The Project is located on a County-owned Courthouse Park property at 2200 Fresno Street (Fresno County Assessor's Parcel Number 466-160-01T). The Project Area, along with the larger Courthouse Park parcel, features paved walkways, manicured lawns, and a variety of ornamental trees and plantings. Trees planted along street frontages are largely non-native ornamental species. Within Courthouse Park, tree plantings are diverse and include mature deodar cedar (*Cedrus deodara*), Italian stone pine (*Pinus pinea*), Chinese elm (*Ulmus parvifolia*), ginkgo (*Ginkgo biloba*), and other ornamental species.

Demolition of the Sheriff Administration and South Annex Jail buildings will be completed as part of the Project. Following demolition, the Judicial Council would construct a new, approximately 413,000 square-foot (SF) courthouse designed to accommodate current judicial functions and future growth in judgeships. The proposed building would consist of a basement level, podium levels of approximately 43,700 SF each, and tower levels of approximately 27,560 SF each, totaling no more than 11 stories above ground and one level below ground.

The proposed new courthouse would include additional courtrooms, support spaces, and secure parking for judges and officers. The support spaces would include, but are not limited to, judicial chambers, clerks' offices, jury assembly and deliberation rooms, temporary in-custody holding, administrative office space, parking loading dock, and secure prisoner sallyport. The courthouse would include a connection to the existing tunnel to the County Jail across Fresno Street for transport of prisoners. Secured parking would be provided for judges and officers only; no staff or public parking is included as part of the Project scope. The new courthouse would be staffed by approximately 390 full-time employees and 14 part-time employees daily.

The Project would implement sustainable elements throughout its design, construction, and operation and maintenance. The Project would be designed for sustainability and, at a minimum, to the standards of a Leadership in Energy and Environmental Design (LEED) Silver-certified rating. The Project is anticipated to result in an increase of approximately 65,000 SF of paved/impervious surfaces within the Project Area as compared to the existing facilities.

Project construction is planned to occur over 48 months and is anticipated to start in October 2029 and be completed by October 2033. Construction would be phased to align with the Office of the State Fire Marshal's permitting guidelines and the Judicial Council Building Official's requirements. Construction is anticipated to occur in the following phases: Site Preparation, Grading, Building Construction, Paving, and Architectural Coating.

3 Methods

The analysis presented in this Report includes a review and update of existing information about sensitive biological resources known to occur within the Project's Study Area **(Appendix A - Figure 3).**

3.1 Definitions

3.1.1 Special-Status Species and Sensitive Communities

For the purpose of this evaluation, special-status plant and/or animal species are defined as the following:

- species listed as rare, threatened, or endangered and protected under the California Endangered Species Act (CESA)
- species that are proposed for listing by California as threatened or endangered under CESA (14 California Code of Regulations 670.5)
- species that are listed or proposed for listing as threatened or endangered under the Federal Endangered Species Act (FESA);
- species that are recognized as fully protected or as species of special concern (SSC) by the CDFW
- species fully protected by California Fish and Game Code Sections 3511, 4700, 5050, or 5515
- species ranked as "rare, threatened, or endangered in California" by the California Native Plant Society (CNPS) as California Rare Plant Rank (CRPR) 1A, 1B, 2A or 2B plant species
- species included on the CDFW Special Vascular Plants, Bryophytes, and Lichens List (CDFW 2025a)
- species covered under the CDNPA listed in Chapter 3, Division 23, of the California Food and Agriculture Code
- species protected by the Migratory Bird Treaty Act or California Fish and Game Code

Sensitive natural communities are those communities that have a highly limited distribution, and may or may not contain rare, threatened, or endangered species. The California Natural Diversity Database (CNDDB) ranks natural communities according to their rarity and endangerment in California. Habitats are considered "sensitive" if they are identified on the CDFW List of Vegetation Alliances and Associations as being highly imperiled or classified by CDFW in the CNDDB as natural communities of special concern – Ranks S1 to S3.

3.1.1.1 Potential to Occur

The potential for special-status species to occur within the Study Area was classified under one of five categories as described below. Only those special-status species with an occurrence potential of "Moderate" or greater are evaluated in detail as those species are most likely to occur.

- **Present:** The species is known to be present or has been recently observed in the Study Area.
- **High:** The species has been observed and documented within five miles of the Study Area within the last five years and suitable habitat for the species is present.
- **Moderate:** The Project is located within the range of the species, there are documented occurrences within five miles of the Study Area, and/or suitable habitat for the species exists in the Study Area.
- **Low:** The Project is located within the range of the species, and low-quality (e.g., disturbed, agricultural) habitat is present in the Study Area.
- **Absent:** The Project is located outside of the range of the species and/or potential habitat to support the species is not present in the Study Area.

3.2 Literature and Database Review

The Project is located within the *Fresno South, California* USGS 7.5-minute quadrangle. CNDDB and CNPS database searches for special-status species included the *Fresno South* USGS 7.5-minute quadrangle and eight surrounding quadrangles: *Herndon, Fresno North, Clovis, Kearney Park, Malaga, Raisin, Caruthers, and Conejo.* A 5-mile radius search of CDFW's CNDDB was conducted based on habitat types and migration distances for potential special-status plant and animal species that have potential to occur within the Study Area (CDFW 2025a; **Appendix A - Figure 4**). Calflora and CNPS's online inventory databases were used to obtain detailed habitat information for rare plant species. The USFWS's IPaC database was also queried for federally endangered, threatened, candidate, and proposed animal and plant species that have potential to occur in the Study Area. Detailed location-specific Information about habitat types and special-status species that could occur within the Study Area was obtained from the following sources:

- CDFW CNDDB plant and animal records (CDFW 2025a; **Appendix B – CNDDB Species List**)
- CNPS online *Inventory of Rare and Endangered Plants* (CNPS 2025a; **Appendix B – CNPS Species List**)
- Manual of California Vegetation, Online Edition (CNPS 2025b)
- Calflora (Calflora 2025)
- U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) resource list of endangered and threatened species that may occur in the Project Area (USFWS 2025a; **Appendix B – USFWS Species List**)
- USFWS Designated Critical Habitat within the Project Area (USFWS 2025b)
- USFWS National Wetlands Inventory (USFWS 2025c)
- U.S. Geological Survey (USGS) National Hydrography Dataset Plus V2 (USGS 2025)

Other information sources consulted to determine which special-status species could potentially occur in the Study Area included:

- *New Fresno Courthouse Due Diligence Review: Site 1* report, prepared by PlaceWorks which included a desktop review and 2023 field reconnaissance survey of Site 1 (PlaceWorks 2024)
- Google Earth Imagery (Google Earth 2024)
- Results from a field reconnaissance survey conducted by Stantec staff in November 2025. The site visit included photo documentation of the green spaces within the Project Area (**Appendix C – Representative Photographs**) and a reconnaissance-level habitat assessment of staging area 3 (Stantec 2025)
- Biological Resources Technical Memorandum for the City of Fresno Water and Sewer Improvements Project, Fresno County, California (Rincon 2025)

4 Regulatory Context

4.1 Federal Regulatory Requirements

4.1.1 Federal Endangered Species Act

The FESA of 1973 was established to protect and recover endangered and threatened species and the ecosystems upon which they depend. According to the FESA "endangered" indicates a species is in danger of extinction throughout all or a significant portion of its range. In addition, the FESA defines a species as "threatened" if that species is likely to become endangered within the foreseeable future. The USFWS maintains a list of endangered and threatened species. The USFWS and the National Marine Fisheries Service administer FESA and are responsible for consulting with other federal agencies pursuant to FESA. Consultation with the USFWS would be necessary if a Project action has the potential to affect federally listed species, their habitat, as well as areas of Designated Critical Habitat. This consultation would proceed under Section 7 of the FESA if a federal action is required for the Project or it would proceed through Section 10 of the FESA if no such federal nexus were available.

4.1.2 Clean Water Act

The objective of the Clean Water Act (CWA) of 1977, as amended, is to maintain and restore the chemical, physical, and biological integrity of the nation’s waters. The discharge of dredged or fill material into waters of the U.S. (WOTUS), including jurisdictional wetlands, is regulated under Section 404 of the CWA by the USACE via a permitting process. Surface water quality is further regulated by the U.S. Environmental Protection Agency (USEPA); in California this authority is delegated to the State Water Resources Control Board (SWRCB) or the Regional Water Quality Control Board (RWQCB). Applicants for Section 404 permits are also required to comply with Section 401 of the CWA by obtaining Water Quality Certification (WQC) through the State.

4.1.3 Migratory Bird Treaty Act

The Migratory Bird Treaty Act (MBTA) of 1918 enacts the provisions of treaties between the U.S., Great Britain, Mexico, Japan, and Russia and authorizes the U.S. Secretary of the Interior to protect and regulate the taking of migratory birds. This treaty prohibits “take,” which has been defined to include harming any migratory bird listed under the MBTA, including nests, eggs, and/or young.

4.2 State Regulatory Requirements

4.2.1 California Endangered Species Act

The CESA prohibits “take” of plants or animals threatened with extinction or experiencing a significant decline which, if not halted, would lead to a threatened or endangered designation, which includes protecting native plant and animal species and their habitats. “Take” is defined in Section 86 of the California Fish and Game Code (FGC) as to “hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill.” CESA authorizes CDFW to issue incidental take permits for state-listed species when specific criteria are met.

4.2.2 Porter-Cologne Water Quality Control Act

The Porter-Cologne Water Quality Control Act (Porter-Cologne), Sections 1601 to 1602 of the California FGC, authorizes the SWRCB to oversee water rights and water quality policy, and the SWRCB has established nine RWQCBs to protect and enhance water quality at the regional and local levels. In addition to preparing WQCs to designate beneficial uses of water bodies in each region, each RWQCB may issue a permit, referred to as a Waste Discharge Requirement (WDR), for activities that result in pollutant or nuisance discharges that may affect surface or groundwater, including isolated wetlands not subject to the jurisdiction of the USACE.

4.2.3 California Fish and Game Code

The California FGC has several provisions for the protection of waters of the State (WOTS), and special-status plant, fish, and wildlife resources, including their habitat. The applicable sections of the California FGC are as follows:

- **Sections 1600–1616 (Streambed Alteration):** The CDFW is responsible for the protection and conservation of fish and wildlife resources in California. Under Section 1602, CDFW has the authority to issue Lake or Streambed Alteration Agreements for construction activities that substantially divert or obstruct the natural flow or substantially change the bed, channel, or bank of any river, stream, or lake designated by the CDFW as providing resources for fish or wildlife.
- **Sections 1900–1913 (Native Plant Protection Act):** The Native Plant Protection Act (NPPA) of 1977 prohibits the taking, possessing, or sale within the State of any plants that the CDFW has determined are rare, threatened, or endangered. The CDFW has the authority to enforce the provisions of this act and authorize measures to salvage native plants that may otherwise be affected by project activities, if deemed appropriate.
- **Sections 3500–3516 (Game Birds and Birds of Prey):** The CDFW protects game birds, birds of prey, migratory birds, and fully protected birds and their nests, eggs, and young from take or possession, except as otherwise provided by the code (e.g., incidental take under CESA).
- **Sections 3511, 4700, 5050, and 5515 (Fully Protected Species):** California statutes accord a “fully protected” status to specific birds, mammals, reptiles, amphibians, and fish. These species cannot be “taken,” and no process exists for the issuance of incidental take permits for fully protected species.

4.3 Local Regulations

The Judicial Council, acting as the Judicial Branch of State government, is not subject to local land use regulations; however, the Judicial Council, as lead agency, considers local policies in evaluating whether the proposed Project’s impacts would be significant.

4.3.1 City of Fresno General Plan

The City of Fresno General Plan (General Plan) establishes a comprehensive and long-term strategy for development within Fresno. With respect to biological resources, Objective POSS-5 of the Parks, Open Space and Schools Element of the General Plan calls for providing long-term preservation, restoration, enhancement, and enjoyment of plant, wildlife, and aquatic habitat (City of Fresno 2014). Policies that govern the implementation of this objective that are relevant to this Project include:

- POSS-5-c: Buffers for Natural Areas. Require development projects, where appropriate and warranted, to incorporate natural features (such as ponds, hedgerows, and wooded strips) to serve as buffers for adjacent natural areas with high ecological value.
- In 2021, the City of Fresno released a Mitigation Monitoring and Reporting Program to support their General Plan Environmental Impact Report (LSA 2021). This Mitigation Monitoring and Reporting Program includes mitigation measures to protect biological resources that are consistent with the Federal and State regulatory requirements outlined in the preceding sections of this report.

4.3.2 Fresno Municipal Code

Article 3, *Street Trees and Parkways*, of Chapter 13 of the Fresno Municipal Code contains the public tree policy, tree beautification and preservation regulations, and Special Tree List authorization. Section 13-304, *Tree Beautification*, establishes and defines the Master Tree Plan requirements, Parkway Tree requirements, and other requirements related to new and existing development and the provision of parkway trees. Section 13-305, *Tree Preservation*, outlines tree removal and maintenance requirements, tree permit conditions, and payment of fees in-lieu of replacing a removed tree. Lastly, Section 13-306, *Special Tree List*, outlines the Special Tree List requirements and tree removal requests for Special Trees.

The Public Works Director is authorized to develop and maintain a Special Tree List. Such list is intended to include those trees of special interest to the City, including, but not limited to, landmark trees or trees of outstanding size or beauty. The City Council may also designate trees on the Special Tree List by resolution.

5 Environmental Setting

5.1 Site Conditions and Land Use

5.1.1 Local Setting and Existing Land Use

The Project Area is situated in the western portion of the 13.94-acre Courtyard Park parcel (the parcel) in the City of Fresno, Fresno County, California. It is located in the highly developed and urban City center, situated in a 1,500-acre area between State Route (SR) 99, SR 180, and SR 41 (**Appendix A - Figure 1**).

The parcel has been developed as Courthouse Park (formerly known as Court House Square) since the late 1800s. Initial development included a three-story courthouse constructed in 1874, with a copper dome added by 1885. A jail has occupied the northeastern portion of the parcel since at least 1888. The current jail building, located in the northern section of the Project Area, was constructed in 1942, with an annex added in 1960. The Fresno County Sheriff's Office building, located in the southern section of the Project Area, was constructed in 1970, as part of a broader effort to redevelop downtown Fresno. This redevelopment also included the demolition of the original 1874 County Courthouse, construction of the Fresno Courthouse and its associated underground parking in 1966, located east of Site 1, placement of 22 commemorative statues, and planned landscaping throughout the overall Courthouse Park parcel (**Appendix A - Figure 2)**.

Courthouse Park is the largest green space in downtown Fresno and houses the County Courthouse along with various other County facilities. Existing buildings within the park include the Fresno Superior Court and Hall of Records, located southeast of the Project Area, and the Fresno County Sheriff's Office and South Jail Annex, both situated within the Project Area boundaries. An underground parking facility is located east of the Project Area, with access from M Street to the north. The overall Courthouse Park parcel features paved walkways, lawns, ornamental trees, and landscaping (**Appendix C – Representative Photographs**).

5.1.2 Physical Conditions

The overall topography is extremely low gradient with elevations ranging from approximately 285 to 300 feet above mean sea level. The regional climate is typical of the Central Valley and is characterized by a Mediterranean climate with cool, wet winters and hot, dry summers. Precipitation in the region primarily occurs as rain. The average annual rainfall is approximately 10.89 inches and typically occurs between October and April. The Project Area climate typically exhibits a nine-month growing season from February through November. Most herbaceous growth occurs during spring and ceases as soil moisture depletes in early summer. Air temperatures range from an average January high of 54.6 degrees Fahrenheit (ºF) to an average July high of 98.3 ºF. The annual average high temperature is 76.5 ºF (WRCC 2025).

5.2 Biotic Habitats

5.2.1 Vegetation Communities

Vegetation types in the Project Area were classified based on descriptions provided in *A Guide to Wildlife Habitats of California* (Mayer and Laudenslayer 1988), as well as the *California Natural Community List* (CDFW 2025b), which is adapted from the technical approach and vegetation alliance classification system described in *A Manual of California Vegetation,* Online Edition (CNPS 2025b). The vegetation communities present in the Project Area are urban. No aquatic features were observed within the Project Area. Descriptions of the vegetation communities within the Project Area are provided below.

5.2.1.1 Urban Vegetation

Urban vegetation can be classified into five general areas: tree grove, street strip, shade tree/lawn, lawn, and shrub cover. Urban areas typically have a small diversity of trees, shrubs, and grasses, but greater productivity than natural grasslands due to abundant water and fertilizer (McBride and Reid 2008). Examples include residential landscapes, golf courses, parks, and school grounds. Non-native landscape species and invasive weeds are common.

Ornamental non-native vegetation species known to occur within the Project Area include mature deodar cedars, Italian stone pine, Chinese elm, and ginkgo (PlaceWorks 2024). Invasive species, including non-native grasses, were also observed in the Project Area and are further discussed below (**Appendix C – Representative Photographs**).

5.2.1.2 Invasive Plant Species

Invasive plants (i.e., noxious weeds) are undesirable, non-native plants that commonly invade disturbed sites. Most species were introduced from Europe and Asia, and many are known to negatively affect native wildlife habitat and plant communities. When disturbance results in the creation of habitat openings or in the loss of intact native vegetation, invasive plants may colonize the site and spread, often out-competing native species. Once established, they are very difficult to eradicate.

All pertinent non-native plant species were reviewed to determine their status as invasive plants according to the ratings in the California Invasive Plant Inventory produced by California Invasive Plant Council (Cal-IPC) (Cal-IPC 2025). Cal-IPC categorizes non-native invasive plants into three categories of overall negative ecological impact in California as “high”, “moderate”, and “limited”.

Invasive species with a Cal-IPC rating of “high”, “moderate”, or “limited” were not observed within Site 1 during PlaceWork’s field reconnaissance survey but were observed within staging area 3 during Stantec’s field reconnaissance survey (**Appendix C – Representative Photographs**). Invasive species observed within the Project Area include *Bromus* spp., redstem filaree (*Erodium cicutarium*), and puncture vine (*Tribulus terrestris*) (Stantec 2025). Invasive species ratings are depicted in **Table 1.**

Table 1. Invasive Species Know to Occur within the Project Area

Common Name ***Scientific Name***	**Cal-IPC Rating**[1]	**Occurrence**
Bromus Spp.	n/a	Observed in northmost staging area.
Redstem filaree *Erodium cicutarium*	Limited	Observed in northmost staging area.
Puncture vine *Tribulus terrestris*	Limited	Observed in northmost staging area.

[1]**Cal-IPC Ratings:**
High – These species have severe ecological impacts on physical processes, plant and animal communities, and vegetation structure. Their reproductive biology and other attributes are conducive to moderate to high rates of dispersal and establishment. Most are widely distributed ecologically.
Moderate – These species have substantial and apparent-but generally not severe-ecological impacts on physical processes, plant and animal communities, and vegetation structure. Their reproductive biology and other attributes are conducive to moderate to high rates of dispersal, though establishment is generally dependent upon ecological disturbance. Ecological amplitude and distribution may range from limited to widespread.
Limited – These species are invasive but their ecological impacts are minor on a statewide level or there was not enough information to justify a higher score. Their reproductive biology and other attributes result in low to moderate rates of invasiveness. Ecological amplitude and distribution are generally limited, but these species may be locally persistent and problematic.

5.2.1.3 Sensitive Natural Communities

Habitats are considered “sensitive” by CDFW if they are identified on the List of Vegetation Alliances and Associations as being highly imperiled or classified by CDFW in the CNDDB as natural communities of special concern – Ranks S1 to S3. No sensitive natural communities are present within the Project Area as the Project is located within a heavily urbanized and developed area (CDFW 2025a).

5.2.2 Habitat Connectivity

Habitat corridors are segments of land that provide linkages for wildlife movement between different habitats while also providing cover. Corridors also function as avenues along which plants can propagate, genetic interchange can occur, populations can move in response to environmental changes and natural disasters, and populations can be replenished from other areas. Habitat corridors often consist of riparian areas along streams, rivers, or other natural features. The Project Area is surrounded by urban development and does not provide habitat corridors for any plant or animal species.

5.2.3 Special-Status Plant Species

Regionally occurring special-status plant species were identified based on a review of pertinent literature, the IPaC resource list, and CNDDB and CNPS database records (USFWS 2025a, CDFW 2025a, CNPS 2025a). Ten special status plant species were identified by the above databases to potentially occur within the Study Area (**Appendix A - Figure 4**). For each species identified as having potential to occur, habitat requirements were assessed and compared to the habitats in the Study Area to determine if suitable habitat is present. Of the ten species, none were found to have a potential to occur in the Project Area, due to the lack of suitable habitat and the heavily developed and urbanized nature of the Project Area. Additionally, all documented observations were historic (greater than 50 years old) and no special-status plants were observed during the field survey’s conducted by PlaceWorks in Site 1 (PlaceWorks 2024) and by Stantec in staging area 3 (Stantec 2025).

All special-status plant species that were identified through desktop research as potentially occurring in the Study Area are described below in **Table 2**.

Table 2. Special Status Plant Species with Potential to Occur within the Study Area

Common Name *Scientific Name*	Listing Status[1] (Fed/State/CRPR)	Known Habitat & Elevation Range	Blooming Period	Potential for Occurrence
Lesser saltscale *Atriplex minuscula*	-/-/1B.1	Chenopod scrub, playas, valley and foothill grassland. In alkali sink and grassland in sandy, alkaline soils. Occurs from 0–73 feet.	May–Oct	**Absent.** No CNDDB occurrences within 5 miles of the Project Area. The Project Area does not contain chenopod scrub, playas, or valley and foothill grassland habitats preferred by this species.
Succulent owl's-clover *Castilleja campestris var. succulenta*	FT/SE/1B.2	Vernal pools. Moist places, often in acidic soils. Occurs from 66–2,313 feet.	(March) April–May	**Absent.** No CNDDB occurrences within 5 miles of the Project Area. The Project Area does not contain vernal pool habitats preferred by this species.
California jewelflower *Caulanthus californicus*	FE/SE/1B.2	Chenopod scrub, valley and foothill grassland, pinyon and juniper woodland. Sandy soils. Occurs from 213–6,102 feet.	Feb–May	**Absent.** One documented historical (no date given) CNDDB occurrence approximately 3 miles north of the Project Area. Occurrence details suggest habitat in the vicinity has been eliminated by urbanization and agriculture. The Project Area does not contain the chenopod scrub, valley and foothill grassland, pinyon and juniper woodland habitats preferred by this species.
California satintail *Imperata brevifolia*	-/-/2B.1	Coastal scrub, chaparral, riparian scrub, Mojave Desert scrub, meadows and seeps (alkali). Mesic sites, alkali seeps, riparian areas. Occurs from 10–4,905 feet.	Sept–May	**Absent.** One documented historical (1893) CNDDB occurrence recorded as in the vicinity of Fresno. The Project Area does not contain the coastal scrub, chaparral, riparian scrub, Mojave Desert scrub, and meadows and seeps (alkali) habitats preferred by this species.
Alkali-sink goldfields *Lasthenia chrysantha*	-/-/1B.1	Vernal Pools. Alkaline. Occurs from 0–656 feet.	Feb–April	**Absent.** No CNDDB occurrences within 5 miles of the Project Area. The Project Area does not contain vernal pool habitats preferred by this species.
Madera leptosiphon *Leptosiphon serrulatus*	-/-/1B.2	Cismontane woodland, lower montane coniferous forest. Dry slopes; often on decomposed granite in woodland. Occurs from 262–5,397 feet.	April–May	**Absent.** One documented historical (1922) CNDDB occurrence recorded as near Fresno. The Project Area does not contain the Cismontane woodland and lower montane coniferous forest habitats preferred by this species.
San Joaquin Valley Orcutt grass	FT/SE/1B.1	Vernal pools. Occurs from 33–2,477 feet.	April–Sept	**Absent.** No CNDDB occurrences within 5 miles of the Project Area. The Project Area does not contain vernal pool habitats preferred by this species.

Common Name *Scientific Name*	Listing Status[1] (Fed/State/CRPR)	Known Habitat & Elevation Range	Blooming Period	Potential for Occurrence
Orcuttia inaequalis				
Hairy Orcutt grass *Orcuttia pilosa*	FE/SE/1B.1	Vernal pools. Occurs from 82–410 feet.	May–Sept	**Absent.** No CNDDB occurrences within 5 miles of the Project Area. The Project Area does not contain vernal pool habitats preferred by this species.
Sandford's arrowhead *Sagittaria sanfordii*	-/-/1B.2	Marshes and swamps. In standing or slow-moving freshwater ponds, marshes, and ditches. Occurs from 0–1,985 feet.	May–Oct (Nov)	**Absent.** No CNDDB occurrences within 5 miles of the Project Area. The Project Area does not contain the marsh and swamp habitats preferred by this species.
Greene's tuctoria *Tuctoria greenei*	FE/SR/1B.1	Vernal pools. Vernal pools in open grasslands. Occurs from 82–4,347 feet.	May- July (Sept)	**Absent.** No CNDDB occurrences within 5 miles of the Project Area. The Project Area does not contain vernal pool habitats preferred by this species.

[1]Federal and State Status Codes
- = No status, or not applicable
FE = Listed as endangered under the FESA;
FT = Listed as threatened under the FESA;
SE = Listed as endangered under the CESA;
SR = Listed as rare under the Native Plant Protection Act.

CNPS Ranking
1A = Presumed extinct in California and either rare or extinct elsewhere.
1B = Rare, threatened, or endangered in California and elsewhere.
2A = Presumed extinct in California but common elsewhere.
2B = Rare, threatened, or endangered in California but more common elsewhere.

Threat Ranks
0.1 = Seriously threatened in California (more than 80% of occurrences threatened/high degree and immediacy of threat).
0.2 = Moderately threatened in California (20-80% occurrences threatened/moderate degree and immediacy of threat).
0.3 = Not very threatened in California (less than 20% of occurrences threatened/low degree and immediacy of threat or no current threats known)

5.2.4 Special-Status Animal Species

Regionally occurring special-status animal species were identified based on a review of pertinent literature, the USFWS species list, CNDDB database records, and the reconnaissance-level biological field survey results (USFWS 2025a, CDFW 2025a, PlaceWorks 2024). Twenty-two (22) special-status animal species were identified by the above databases to potentially occur within the Study Area (**Appendix A - Figure 4)**. For each species, habitat requirements were assessed and compared to existing information about habitats present in the Project Area to determine the species' potential to occur. Based on habitat assessments conducted during the field reconnaissance surveys, only one of the 22 animal species identified was determined to have a moderate potential to occur – western mastiff bat (*Eumops perotis californicus)*; for the remaining 21 special status animal species, habitat was determined to be absent within the Project Area.

All special-status animal species that were identified through desktop research as potentially occurring in the Study Area are described below in **Table 3**.

Table 3. Special Status Animal Species with Potential to Occur within the Study Area

Common Name *Scientific Name*	Listing Status[1] (Fed/State)	Known Habitat Requirements[2]	Potential for Occurrence
Invertebrates			
Crotch's bumble bee *Bombus crotchii*	-/CE	Found near grasslands and shrublands and generally prefers hotter and drier habitats than other bumblebee species. Nests found underground in abandoned rodent burrows, old bird nests, rock piles or in cavities of dead trees.	**Absent.** One documented CNDDB occurrence recorded a foraging individual on a sage species at a private residence in 2019. Limited suitable nesting habitat is present in the Project Area due to lack of food plants (milkweeds, dusty maidens, lupines, medics, phacelias, sages, snapdragons, clarkia, poppies, and wild buckwheats) and nesting habitat[3,4]. This species was once common in the Central Valley of California but is now scarce in that area[3].
Monarch butterfly - California overwintering population *Danaus plexippus plexippus pop. 1*	FC/-	Occurs in a variety of habitats spring through fall and uses milkweed (*Asclepias spp.*) as the larval host plant. Migrates to overwintering sites within 1.5 miles off the California coast from September to November. They overwinter on eucalyptus trees (*Eucalyptus globulus*), Monterey pines *(Pinus radiata)*, and/or Monterey cypress (*Cupressus macrocarpa)*.	**Absent.** The Project Area does not provide suitable larval host plant habitat and there is no suitable foraging habitat within the Project Area.
Valley elderberry longhorn beetle *Desmocerus californicus dimorphus*	FE/-	Occurs only in the Central Valley of California, in association with blue elderberry (*Sambucus mexicana*). Prefers to lay eggs in elderberries 2-8 inches in diameter; some preference shown for "stressed" elderberries.	**Absent.** No CNDDB occurrences within 5 miles of the Project Area. The Project Area does not contain any elderberry species and therefore does not provide suitable habitat for this species.
Crustaceans			
Vernal pool fairy shrimp *Branchinecta lynchi*	FT/-	Endemic to the grasslands of the Central Valley, Central Coast mountains, and South Coast mountains, in astatic rain-filled pools. Inhabit small, clear-water sandstone-depression pools and grassed swale, earth slump, or basalt-flow depression pools.	**Absent.** No CNDDB occurrences within 5 miles of the Project Area. The Project Area does not provide suitable aquatic habitat for this species.
Amphibians			
California tiger salamander – central California DPS *Ambystoma californiense pop. 1*	FT/ST	Lives in vacant or mammal-occupied burrows throughout most of the year; in grassland, savanna, or open woodland habitats. Requires underground refuges, such as California ground squirrel (*Otospermophilus beecheyi*) burrows, and vernal pools or other seasonal water sources for breeding.	**Absent.** One documented historical (1936) CNDDB occurrence recorded as Fresno. The Project Area does not provide suitable burrowing habitat and does not contain a seasonal water source.
Western spadefoot	P/-	Occurs primarily in grassland habitats but can be found in valley-foothill	**Absent.** No CNDDB occurrences within 5 miles of the Project Area. The Project

Common Name *Scientific Name*	Listing Status[1] (Fed/State)	Known Habitat Requirements[2]	Potential for Occurrence
Spea hammondii		hardwood woodlands. Vernal pools are essential for breeding and egg-laying.	Area does not provide suitable aquatic or terrestrial habitat for this species.
Reptiles			
Northwestern pond turtle *Actinemys marmorata*	P/SSC	Slow water aquatic habitat with available basking sites. Hatchlings require shallow water with dense submergent or short emergent vegetation. Require an upland oviposition site near the aquatic site.	**Absent.** No CNDDB occurrences within 5 miles of the Project Area. The Project Area does not provide suitable aquatic habitat for this species.
Northern California legless lizard *Anniella pulchra*	-/SSC	Sandy or loose loamy soils under sparse vegetation. Soil moisture is essential. They prefer soils with a high moisture content.	**Absent.** One documented historical (given as 188X) CNDDB occurrence recorded as Fresno. The Project Area does not contain the appropriate sandy or loose loamy soils with sparse vegetation.
California glossy snake *Arizona elegans occidentalis*	-/SSC	Patchily distributed from the eastern portion of San Francisco Bay, southern San Joaquin Valley, and the Coast, Transverse, and Peninsular ranges, south to Baja California. Generalist reported from a range of scrub and grassland habitats, often with loose or sandy soils.	**Absent.** One documented historical (1893) CNDDB occurrence recorded as Fresno. The Project Area does not provide suitable scrub or grassland habitat.
Blunt-nosed leopard lizard *Gambelia silus*	FE/-	Primarily inhabits the San Joaquin Valley and surrounding foothills in California, favoring open, sparsely vegetated areas with scattered shrubs and mammal burrows for shelter.[3]	**Absent.** The Project Area does not provide suitable open shrub habitat and mammal burrows required for this species.
Coast horned lizard *Phrynosoma blainvillii*	-/SSC	Frequents a wide variety of habitats, most common in lowlands along sandy washes with scattered low bushes. Open areas for sunning, bushes for cover, patches of loose soil for burial, and abundant supply of ants and other insects.	**Absent.** One documented historical (1893) CNDDB occurrence recorded as Fresno. The Project Area does not provide suitable sandy loose soil and open habitat required for this species.
Giant gartersnake *Thamnophis gigas*	FT/ST	Prefers freshwater marsh and low gradient streams. Has adapted to drainage canals and irrigation ditches. This is the most aquatic of all the gartersnake species in California.	**Absent.** No CNDDB occurrences within 5 miles of the Project Area. The Project Area does not provide suitable aquatic habitat for this species.
Birds			
Tricolored blackbird *Agelaius tricolor*	-/ST	Highly colonial species, most numerous in Central Valley and vicinity. Largely endemic to California. Requires open water, protected nesting substrate (e.g. cattail [*Typha* sp.] tule marshes), and foraging area with insect prey within a few kilometers of the colony.	**Absent.** No CNDDB occurrences within 5 miles of the Project Area. No suitable colony nesting habitat is present in the Project Area.
Burrowing owl *Athene cunicularia*	-/CE	Grasslands and ruderal habitats. Uses mammal burrows or other suitable underground cavities.	**Absent.** One documented CNDDB occurrence recorded at the Fresno Airport in 1990. No suitable nesting or

Common Name *Scientific Name*	Listing Status[1] (Fed/State)	Known Habitat Requirements[2]	Potential for Occurrence
			foraging habitat is present in the Project Area due to lack of rodent burrows.
Swainson's hawk *Buteo swainsoni*	-/ST	Breeds in grasslands with scattered trees, juniper-sage flats, riparian areas, savannahs, and agricultural or ranchlands with groves or lines of trees. Requires adjacent suitable foraging areas such as grasslands, or alfalfa or grain fields supporting rodent populations.	**Absent.** One documented historical (1956) CNDDB occurrence recorded as Fresno and one nesting CNDDB occurrence recorded in trees within pasture approximately 4.5 miles south of Frenso in 2016. The Project Area does not provide suitable nesting or foraging habitat for this species.
Western yellow-billed cuckoo *Coccyzus americanus occidentalis*	FT/SE	Riparian forest nester, along the broad, lower flood-bottoms of larger river systems. Nests in riparian jungles of willow (*Salix* sp.), often mixed with cottonwood (*Populus* sp.), with lower story of blackberry (*Rubus* sp.), nettle (*Urtica* sp.), or Cailfornia wild grape (*Vitis californica*).	**Absent.** No CNDDB occurrences within 5 miles of the Project Area. The Project Area does not provide suitable nesting or foraging habitat for this species.
Least Bell's vireo *Vireo bellii pusillus*	FE/SE	Summer resident of Southern California in low riparian in vicinity of water or in dry river bottoms; below 2000 feet. Nests placed along margins of bushes or on twigs projecting into pathways, usually willow, *Baccharis* sp., mesquite.	**Absent.** No CNDDB occurrences within 5 miles of the Project Area. The Project Area does not provide suitable nesting or foraging habitat for this species.
Mammals			
Pallid bat *Antrozous pallidus*	-/SSC	Found in deserts, grasslands, shrublands, woodlands, and forests. Most common in open, dry habitats with rocky areas for roosting. Roosts must protect bats from high temperatures. Very sensitive to disturbance of roosting sites.	**Absent.** One documented historical (1909) CNDDB occurrence recorded as Fresno. The Project Area does not contain suitable roosting habitat or foraging habitat for this species.
Fresno kangaroo rat *Dipodomys nitratoides exilis*	FE/SE	Alkali sink-open grassland habitats in western Fresno County. Bare alkaline clay-based soils subject to seasonal inundation, with more friable soil mounds around shrubs and grasses.	**Absent.** One documented historical (1898) CNDDB occurrence recorded as northwest Fresno. The Project Area does not contain any suitable alkali sink-open grassland habitats.
Western mastiff bat *Eumops perotis californicus*	-/SSC	Many open, semi-arid to arid habitats, including conifer and deciduous woodlands, coastal scrub, grasslands, chaparral, etc. Roosts in crevices in cliff faces, high buildings, trees and tunnels.	**Moderate.** Three documented CNDDB occurrences recorded in Fresno: two in 1991 and one in 1958. A recent biological assessment conducted for a water and sewer improvements project within the vicinity of Project Area suggested that suitable foraging habitat may be present (Rincon 2025). The Project Area may provide foraging and roosting for this species, as high buildings are present and insects (moths) are likely present.
American badger *Taxidea taxus*	-/SSC	Most abundant in drier, open stages of most shrub, forest, and herbaceous habitats, with friable soils. Needs open,	**Absent.** No CNDDB occurrences within 5 miles of the Project Area. The Project Area does not provide suitable

Common Name *Scientific Name*	Listing Status[1] (Fed/State)	Known Habitat Requirements[2]	Potential for Occurrence
		uncultivated ground in which to dig burrows. Preys on burrowing rodents.	burrowing or foraging habitat for this species.
San Joaquin kit fox *Vulpes macrotis mutica*	FE/ST	Annual grasslands or grassy open stages with scattered shrubby vegetation. Need loose-textured sandy soils for burrowing, and suitable prey base.	**Absent.** No CNDDB occurrences within 5 miles of the Project Area. The Project Area does not provide suitable burrowing or foraging habitat for this species.

[1]Federal and State Status Codes
- = No status, or not applicable
FE = Listed as endangered under the Federal Endangered Species Act (FESA)
FT = Listed as threatened under FESA
SE = Listed as endangered under the California Endangered Species Act (CESA)
ST = Listed as threatened under CESA
SSC = Designated as a Species of Special Concern by CDFW under the California Environmental Quality Act (CEQA)
FP = Fully Protected under the California Fish and Game Code (F.G.C.)
C = Candidate for listing as either endangered or threatened under FESA
CE = Candidate for listing as endangered under CESA
CT = Candidate for listing as threatened under CESA
P = Proposed for listing as either endangered or threatened under FESA
[2]Sources: CNDDB Species Descriptions, CDFW 1990, CDFW 2023, CDFW 1990, Hatfield et al. 2015, Koch et al. 2012, Pierson and Rainey 1998, Texas Tech 2025, USFWS 2025d, Vaughan 1959
[3]USFWS Species Description. https://www.fws.gov/species/blunt-nosed-leopard-lizard-gambelia-silus

6 Results

6.1 Habitats and Natural Communities of Concern

6.1.1 Sensitive Natural Communities

There are no sensitive natural communities within the Study Area.

6.1.2 Wetlands and Other Waters

There are no wetlands or other waters that could be considered potential WOTUS or WOTS within the Study Area. According to a USFWS National Wetlands Inventory query, the closest recorded water resource, classified as a freshwater pond, is located 0.36 miles south of the Project Area on the south side of Chukchansi Park (USFWS 2025b, Google Earth 2024).

6.1.3 Critical Habitat

There is no designated critical habitat within the Study Area.

6.1.4 Habitat Connectivity

There are no habitat corridors within the Study Area.

6.2 Special-Status Plant Species

There is no potential for special-status plant species to occur within the Study Area due to lack of native vegetation communities and the developed and urban nature of the habitat within the Project Area. Landscaped vegetation growing throughout the Project Area is actively maintained and does not provide suitable habitat for any special-status plant species. In addition, no special-status plants were observed during the July 2023 field reconnaissance survey or the November 2025 site visit (PlaceWorks 2024, Stantec 2025). Furthermore, all the vegetation within the Project Area consists of non-native landscape species, with no native species observed.

6.3 Special-Status Animal Species

The Project Area is located in an urban city center, fully developed with buildings, parking lots, landscaping, and roadways, creating little to no habitat for most special-status animal species. Similarly, the five-mile radius area surrounding the Project Area is generally urban, with significant human development present in all directions. Thus, it is not surprising that, of the sensitive status animal species that do have recorded occurrences within five miles of the Project Area, approximately a third of them are historic (CDFW 2025a). To the southwest of the Project Area, the parcels are considerably less developed and contain some agriculture areas which may provide suitable habitat for some animal species, but there is no obvious connectivity corridor between the agricultural lands and the Project Area; furthermore, the SR 99 exists as a significant barrier to animal movement/corridors, with only species that can fly able to travel between the two areas.

One special-status animal species was found to have moderate potential to occur within the Project Area: western mastiff bat (*Eumops perotis californicus)*. This species is considered to have moderate potential to occur because the Project Area is located within the range of the species, there are documented occurrences within five miles of the Study Area, and/or suitable foraging and roosting habitat for the species may exist in the Study Area. The remaining 21 species were determined to likely be absent from the Project Area, as no potentially suitable habitat for these special-status animal species is present.

Nesting raptors and other migratory bird species were also found to have low potential to occur within the Project Area. These species are considered to have low potential to nest in the Project Area because the area is located within the range of many bird species and low-quality (e.g., disturbed) habitat is present in the Study Area.

6.3.1 Western Mastiff Bat

6.3.1.1 Distribution, Biology, and Habitat Requirements

The western mastiff bat is considered a California Species of Special Concern (SSC) by CDFW. They are an uncommon resident in southeastern San Joaquin Valley and Coastal Ranges from Monterey County southward through southern California, from the coast eastward to the Colorado Desert. The species occurs in many open, semi-arid to arid habitats, including conifer and deciduous woodlands, coastal scrub, annual and perennial grasslands, palm oases, chaparral, desert scrub, and urban. Suitable habitat consists of extensive open areas with abundant roost locations provided by crevices in rock outcrops and buildings that are at least 10 feet above the ground (CDFW 1990, Pierson and Rainey 1998).

Unlike most North American bats, the western mastiff bat does not undergo either migration or prolonged hibernation but are periodically active all winter and move among alternate daytime roosts (CDFW 1990, Texas Tech 2025). The size of colonies varies, but they usually consist of less than 100 bats. Males and females live together year-round, even during maternity periods (Texas Tech 2025).

The western mastiff bat is nocturnal, leaving roosts at night to find food (UW 2025). They catch and feed on insects in flight. Moths are their biggest food source, but they have been observed to eat beetles, ants, dragonflies, crickets, and grasshoppers (Cockrum 1960, Chebes n.d.). They are known to spend up to seven hours foraging at night and may travel up to 15 miles in the process (Vaughan 1959). Their long, narrow wings allow the bat to maintain flight for long periods of time, flying from near ground level to up to 196 feet (Chebes n.d.). Compared with other California bat species, the western mastiff bat is considered relatively easy to detect, due to their high-pitched echolocation call that is audible to the human ear.

6.3.1.2 Occurrence Records

Three CNDDB occurrences for western mastiff bat exist within five miles of the Project Area: two recorded in 1991 and one in 1958 (CDFW 2025a). One of the 1991 observations was of a single individual, collected at an address approximately four miles northwest of the Project Area; the other 1991 observation was of an individual, collected at Washington Grammar School (now Yokomi Elementary School) approximately one mile northeast of the Project Area. The 1958 observation was of a single individual collected at the base of a power pole, approximately 4.5 miles north of the Project Area.

6.3.1.3 Suitable Habitat within the Project Area

There is a moderate potential for western mastiff bat to forage or roost in the Project Area as the Project is within the range of the species, there are several documented occurrences within five miles of the Study Area, and suitable habitat for the species exists in the Study Area. Though no western mastiff bats were observed during the 2023 reconnaissance survey (PlaceWorks 2024), the existing tall buildings may provide roosting habitat and the maintained greenspace, night lighting, and large water foundation in the Courthouse Park suggest there is potential suitable habitat for the species main food source – moths (**Appendix C – Representative Photographs**).

6.3.2 Nesting Raptors and Other Migratory Birds

In addition to special-status avian species, nesting raptors and other migratory bird species are protected under the MBTA and/or California FGC. The Project Area contains suitable foraging, roosting, and possibly nesting habitat for a variety of bird species in the form of ornamental trees and shrubs.

There were no nesting birds or nesting behavior observed in Site 1 during the field reconnaissance survey conducted on July 12, 2023 (during nesting bird season); however, several avian species were noted to be either observed or assumed present, including house finch (*Haemorhous mexicanus*), house sparrow (*Passer domesticus*), mourning dove *(Zenaida macroura)*, northern mockingbird (*Mimus polyglottos*), American robin (*Turdus migratorius*), dark-eyed junco (*Junco hyemalis)*, bushtit (*Psaltriparus minimus*), Wilson's warbler (*Cardellina pusilla*), Anna's hummingbird (*Calypte anna*), American goldfinch (*Spinus tristis*), California scrub jay (*Aphelocoma californica*), and American crow (*Corvus brachyrhynchos*). A pair of red-tailed hawks (*Buteo jamaicensis*) were also observed flying over Site 1. No special status bird species were observed (PlaceWorks 2024).

7 Conclusions and Recommendations

The information provided in this Report provides a summary of the biological resources present and/or likely to occur in the Project Area and can be used to support compliance with applicable federal and state regulations.

The results of the desktop review and accompanying field data indicate that no sensitive natural communities, wetlands and/or waters, critical habitat, and sensitive status plant species occur and/or have suitable habitat within the Study Area; therefore, no adverse effects to these sensitive biological resources are anticipated. Conversely, results suggest that sensitive status animal species, including western mastiff bat and nesting raptors and other migratory birds may occur within the Study Area. Details and proposed recommendations for limiting potential impacts are further discussed below.

7.1 Special Status Animal Species

7.1.1 Western Mastiff Bat

The western mastiff bat, a CDFW protected species, was found to have a moderate potential to occur within the Project Area because the Project is located within the range of the species, suitable foraging and roosting habitat exists within the Project Area, and there are documented occurrences within five miles of the Study Area (CDFW 2025a). Though no western mastiff bats were observed during the 2023 reconnaissance survey (PlaceWorks 2024), the survey was conducted during the day. However, with the presence of suitable roosting habitat (i.e., tall buildings for roosting) and foraging opportunities (i.e., the presence of greenspace, night lighting, and a large water foundation) in the Courthouse Park, this suggests there is also potential suitable habitat for the species main food source – moths.

Western mastiff bats may be found roosting in trees or on existing structures within the Project Area and the larger Courthouse Park parcel. Inadvertent destruction or disturbance of active roosts, including maternal roosts, would be a potentially significant impact under CEQA. Therefore, measures for avoidance or mitigation of impacts to active roosts are recommended as follows:

BIO-1. Western Mastiff Bat Survey. Within 6 months prior to the start of construction, a qualified biologist with at least 5 years' experience conducting surveys or assessments of bat habitat shall conduct a survey and conduct a visual inspection of suitable habitat features in buildings and trees, as access allows, at the Project site and a minimum of 500-feet adjacent to areas that may be impacted by Project activities. If no suitable bat roosting habitat is identified, no further action is required. If evidence of bat roosting is observed, an evening survey using bat acoustic detectors will be conducted to determine whether bats are actively roosting on or near the Project Site, the species, and the location of the roost. If an active roost is detected, demolition and/or construction activities will be modified or revised to avoid disturbing the roost. If disturbance of the roost cannot be avoided, removal or disturbance of the roost shall occur outside of the maternity roost season in accordance with a bat mitigation plan developed by the qualified biologist. The bat mitigation plan shall include methods for humane bat exclusion and no-disturbance buffers, as needed to accomplish the removal or disturbance of the roost. If a lapse in Project construction activities of more than six months occurs, the qualified biologist shall complete another habitat assessment before Project construction activities can be reinitiated.

7.1.2 Raptors and Other Migratory Bird Species

Raptors and other bird species protected under the MBTA and/or California FGC may be found nesting in trees, other vegetation, or on existing structures within the Project Area and the larger Courthouse Park parcel during nesting season (typically between February 1 and August 31). Inadvertent destruction or disturbance of active bird nests, including nest failure, would be a potentially significant impact and a violation of the MBTA and California FGC.

Therefore, if demolition and/or construction work is anticipated to occur within the typical nesting season (February 1 to August 31), a pre-construction nesting bird survey is recommended:

BIO-2: Nesting Bird Survey. If demolition and/or construction (including any tree removal) occurs during the typical nesting season (February 1 through August 31) a pre-construction nesting bird survey shall be conducted by a qualified biologist with at least 5 years' experience conducting nesting bird surveys to document any nests within the vicinity of the Project Area (within 250 feet of the Project Area for nesting songbirds and within 500 feet of the Project Area for nesting raptors). Nesting bird surveys will be performed not more than 7 days prior to the start of Project demolition and/or construction activities. If an active nest is observed, a protective buffer will be established around the nest to avoid any disturbances. During any vegetation removal, if an active nest is identified within the Project Area, a biological monitor shall monitor the nest during Project activities to ensure there are no disturbances to the nesting bird and prevent nest failure.

8 References

Calflora. 2025. A non-profit database providing information on wild California plants. Berkeley, CA https://www.calflora.org/search.html. Accessed November 2025.

California Department of Fish and Wildlife (CDFW). 2025a. Rarefind 5. California Natural Diversity Database (CNDDB). Biogeographic Data Branch, California Department of Fish and Wildlife. https://www.wildlife.ca.gov/Data/CNDDB/Maps-and-Data. Accessed November 2025.

CDFW. 2025b. California Natural Community List. Biogeographic Data Branch, California Department of Fish and Wildlife. https://www.wildlife.ca.gov/Data/VegCAMP/Natural-Communities.Updated February 27, 2025. Accessed November 2025.

CDFW. 2023. Crotch's Bumble Bee (*Bombus crotchii)* Current and historic range map. CDFW Wildlife Branch, GIS-LS, May 24, 2023. https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=213184&inline. Accessed November 2025.

CDFW. 1990. California Wildlife Habitat Relationships (CWHR) System. California Department of Fish and Wildlife California Interagency Wildlife Task Group. Life History for Western Mastiff Bat. Originally published in: Zeiner, D.C., W.F.Laudenslayer, Jr., K.E. Mayer, and M. White, eds. 1988-1990. California's Wildlife. Vol. I-III. California Depart. of Fish and Game, Sacramento, California. Updates are noted in accounts that have been added or edited since original publication.

California Invasive Species Council (Cal-IPC). 2025a. California Invasive Plant Inventory. Cal-IPC Publication 2006-02. Cal-IPC: Berkeley, California. www.cal-ipc.org. Accessed November 2025.

California Native Plant Society (CNPS). 2025a. Inventory of Rare And Endangered Plants (Online Edition, V8-02). Sacramento, California. http://www.rareplants.cnps.org. Accessed November 2025.

CNPS. 2025b. A Manual of California Vegetation, Online Edition. Available: http://www.cnps.org/cnps/vegetation/;. Accessed November 2025. California Native Plant Society, Sacramento, CA.Chebes, Lukasz. n.d. *Eumops perotis* (western bonneted bat). *Animal Diversity Web*. https://animaldiversity.org/accounts/Eumops_perotis/. Accessed November 2025.

City of Fresno. 2014. Fresno General Plan. Development and Resource Management Department. City of Fresno. Adopted December 18, 2014.

City of Fresno. 2025. Code of Ordinances: Supplement 53 Update 1. Chapter 13 – Sidewalks, Streets, Parkways, and Underground Utility Districts. Updated October 22, 2025. https://library.municode.com/ca/fresno/codes/code_of_ordinances?nodeId=MUCOFR_CH13SISTPAUNUTDI. Accessed November 2025.

Cockrum, E. Lendell. 1960. Distribution, Habitat and Habits of the Mastiff Bat, *Eumops perotis*, in North America. *Journal of the Arizona Academy of Science*. 1 (3): 79–84.

Google Earth. 2025. earth.google.com/web/. Imagery from February 11, 2024. Accessed November 2025.

Hatfield, R.; Jepsen, S.; Thorp, R.; Richardson, L. & Colla, S. 2015. "Crotch's bumblebee". *IUCN Red List of Threatened Species*: e.T44937582A46440211. https://www.iucnredlist.org/species/44937582/46440211. Accessed November 2025.

Koch, J; Strange, J; William, P. 2012. *Bumble Bees of the Western United States*. https://www.ars.usda.gov/ARSUserFiles/20800500/BumbleBeeGuideWestern2012.pdf Accessed November 2025.

LSA Associates, Inc (LSA). 2021. *General Plan EIR - Mitigation Monitoring and Reporting Program*. Fresno, California. September 2021. Retrieved from: https://www.fresno.gov/wp-content/uploads/2023/10/J35.5-GP-PEIR-MMRP-September-2021.pdf. Accessed January 2026.

Mayer, K. E. and Laudenslayer, W. F. 1998. A Guide to Wildlife Habitats of California.

McBride, J. R. and C. Reid. 2008. Urban. California Wildlife Habitat Relationships Systems. https://wildlife.ca.gov/Data/CWHR/Wildlife-Habitats. Accessed November 2025.

Pierson, Elizabeth D. and William E. Rainey, 1998. Western mastiff bat, *Eumops perotis*. *Terrestrial Mammal Species of Special Concern in California, Bolster, B.C., Ed. 66. Pg. 66-71.*

PlaceWorks. 2024. *New Fresno Courthouse Due Diligence Review: Site 1*. January 2024.

Stantec. 2025. Field Reconnaisance Survey – Personal Comms. and Photographic Documentation. November 18, 2025.

Texas Tech University (Texas Tech). 2025. Western Bonneted Bat. *Eumops perotis* (Schinz 1821). *Natural Science Research Laboratory: Mammals of Texas*. https://www.depts.ttu.edu/nsrl/mammals-of-texas-online-edition/Accounts_Chiroptera/Eumops_perotis.php. Accessed November 2025.

U.S. Fish and Wildlife Service (USFWS). 2025a. Information for Planning and Consultation (IPaC) resource list. https://ecos.fws.gov/ipac/. Accessed November 2025.

USFWS. 2025b. Critical Habitat for Threatened & Endangered Species Mapper. https://fws.maps.arcgis.com/home/webmap/viewer.html. Accessed November 2025.

USFWS. 2025c. USFWS National Wetlands Inventory (NWI). https://www.fws.gov/wetlands/. Accessed November 2025.

USFWS. 2025d. Blunt-nosed Leopard Lizard – Species Profile. https://www.fws.gov/species/blunt-nosed-leopard-lizard-gambelia-silus. Accessed November 2025.

U.S. Geological Survey (USGS). 2025. National Hydrography Dataset Plus V2. https://www.epa.gov/waterdata/nhdplus-national-hydrography-dataset-plus. Accessed November 2025.

University of Wisconsin Stevens Point (UW). 2025. *Eumops perotis* – Western Bonneted Bat. *University of Wisconsin Department of Biology: Vertebrate Collection.* https://www3.uwsp.edu/biology/VertebrateCollection/Pages/Vertebrates/Mammals%20of%20Paraguay/Eumops%20perotis/Eumops%20perotis.aspx. Accessed November 2025.

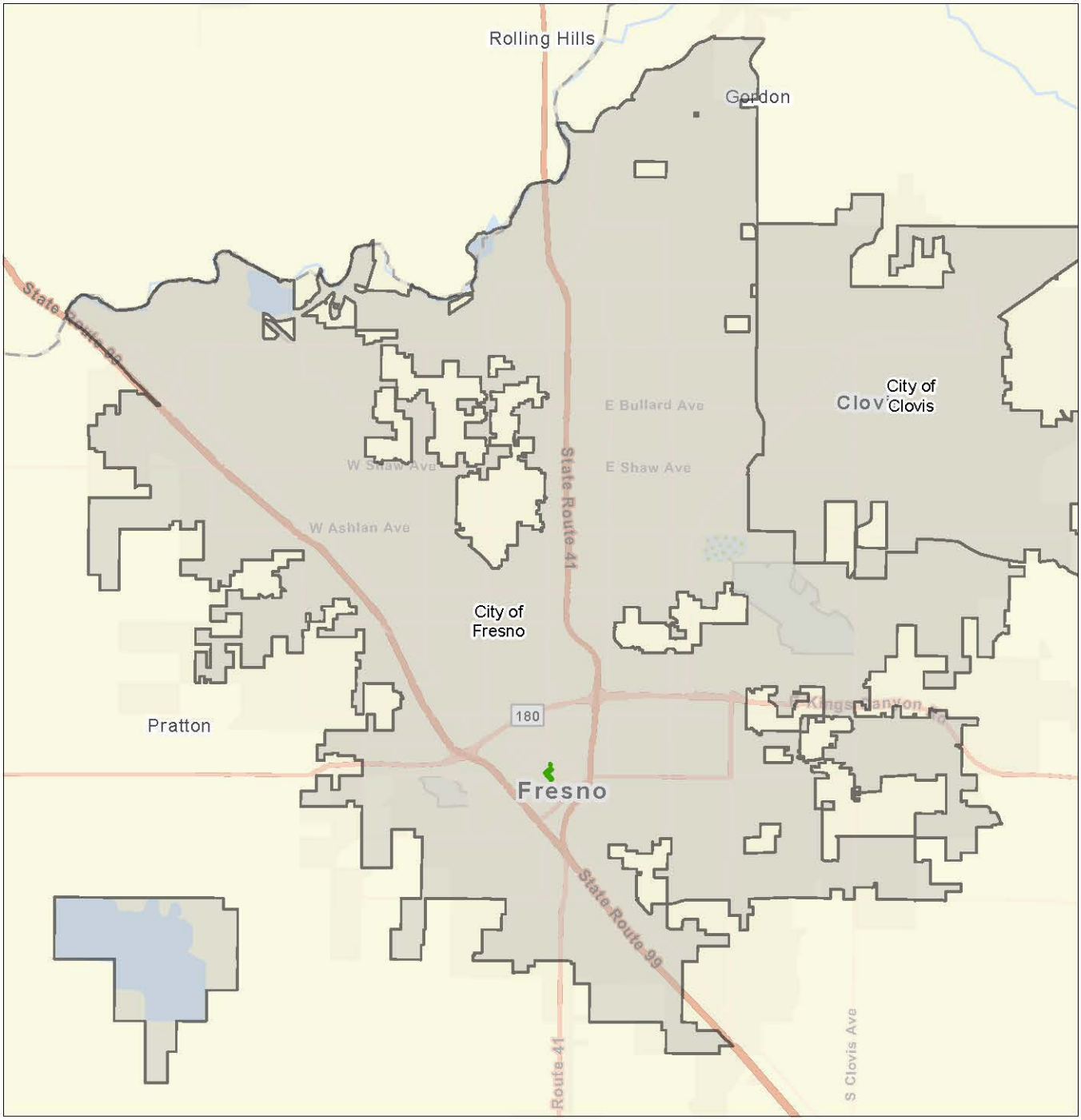
Rincon Consultants, Inc. (Rincon). 2025. Biological Resources Technical Memorandum for the City of Fresno Water and Sewer Improvements Project, Fresno County, California. April 29, 2025. Retrieved from: https://ceqanet.lci.ca.gov/2025100590. Accessed January 2026.

Vaughan, T. A. 1959. Functional morphology of three bats: Eumops, Myotis, Macrotus. Univ. Kans., Mus. Nat. Hist. Publ. 12:1-153. Information retrieved from: http://nrm.dfg.ca.gov file handler 'Life history account for Western Mastiff Bat'. Accessed November 2025.

Western Regional Climate Center (WRCC) 2025. Cooperative Climatological Data Summaries. NOAA Cooperative Stations – temperature and Precipitation. Regional Climate Center. FRESNO YOSEMITE INTL AP, CALIFORNIA (043257). https://wrcc.dri.edu/Climate/west_coop_summaries.php. Accessed November 2025.

Figures

A.1 Project Location



Project Area
City Limits

0 1.25 2.5 Miles

(At original document size of 8.5x11)
1:158,400

N

Stantec

Project Location
City of Fresno
Fresno County, California

Prepared by DL on 2025-12-04
TR by SET on 2025-12-04
IR by SR on 2025-12-04

Client/Project 185806843

Judicial Council of California
New Fresno Courthouse Project

Figure No.
1

Title
Project Location

Notes
1. Coordinate System: NAD 1983 StatePlane California III FIPS 0403 Feet
2. Data Sources: Stantec 2025.
3. Background: World Street Map: City of Fresno, Fresno County Dept. PWP, California State Parks, Esri, TomTom, Garmin, SafeGraph, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, USDA, USFWS

V:\185806\Active\185806843_JCC_Fresno_Courthouse\03_data\gis_cad\gis\pro\Fresno_Courthouse_20251112\Fresno_Courthouse_20251112.aprx Revised: 2025-12-04 By: dalaw

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A.2 Project Area

Project Area
Potential Staging Areas
Courthouse Park

0 125 250 Feet
(At original document size of 8.5x11)
1:3,000

N

Stantec

Project Location
City of Fresno
Fresno County, California

Prepared by DL on 2025-12-04
TR by SET on 2025-12-04
IR by SR on 2025-12-04

Client/Project 185806843

Judicial Council of California
New Fresno Courthouse Project

Figure No.
2

Title
Project Area

Notes
1. Coordinate System: NAD 1983 StatePlane California III FIPS 0403 Feet
2. Data Sources: Stantec 2025.
3. Background: NAIP Imagery. Source: Esri, USDA FSA
World Imagery (Firefly): Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

V:\185806\Active\185806843_JCC_Fresno_Courthouse\03_data\gis_cadgis\pro\Fresno_Courthouse_20251112\Fresno_Courthouse_20251112.aprx Revised: 2025-12-04 By: dalaw

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A.3 Study Area

Study Area (500 ft. Buffer)
Project Area

0 175 350 Feet
(At original document size of 8.5x11)
1:4,200

N

Stantec

Project Location	Prepared by DL on 2025-12-04
City of Fresno	TR by SET on 2025-12-04
Fresno County, California	IR by SR on 2025-12-04
Client/Project	185806843

Judicial Council of California
New Fresno Courthouse Project

Figure No.
3

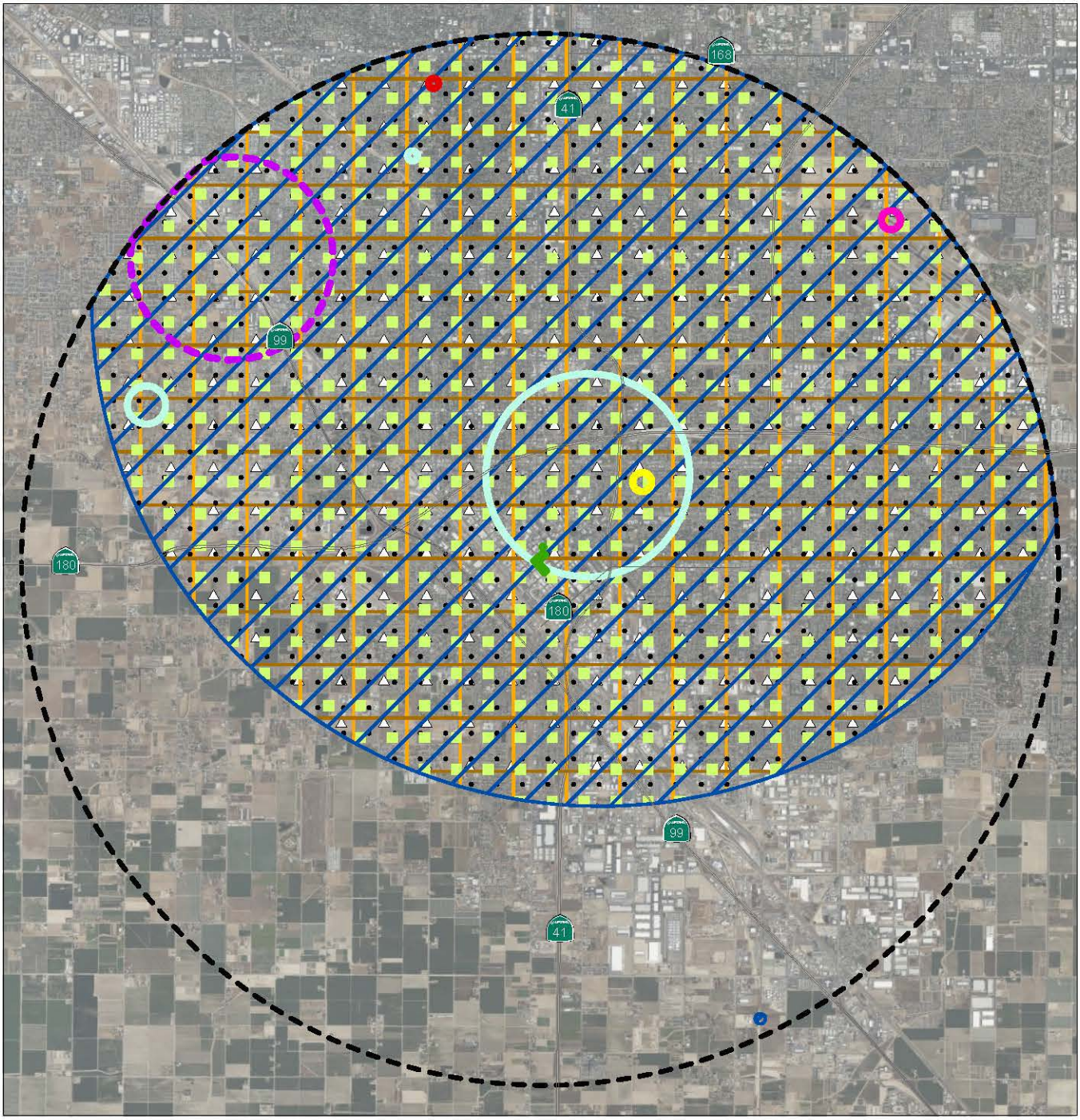
Title
Study Area

Notes
1. Coordinate System: NAD 1983 StatePlane California III FIPS 0403 Feet
2. Data Sources: Stantec 2025.
3. Background: NAIP Imagery: Source: Esri, USDA FSA
World Imagery (Firefly): Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

V:\185806\Active\185806843_JCC_Fresno_Courthouse\03_data\gis_cad\gis\pro\Fresno_Courthouse_20251112\Fresno_Courthouse_20251112.aprx Revised: 2025-12-04 By: dalaw

Disclaimer: This document has been prepared based on information provided by others as cited in the Notes section. Stantec has not verified the accuracy and/or completeness of this information and shall not be responsible for any errors or omissions which may be incorporated herein as a result. Stantec assumes no responsibility for data supplied in electronic format, and the recipient accepts full responsibility for verifying the accuracy and completeness of the data.

A.4 CNDDB Special-Status Plant & Animal Species Occurrence within Five Miles of the Project Area



Project Area
5-Mile Search Radius

CNDDB

Wildlife

Crotch's bumble bee
California tiger salamander
California glossy snake
coast horned lizard
Northern California legless lizard
burrowing owl
Swainson's hawk
Fresno kangaroo rat
pallid bat
western mastiff bat

Plants

California jewelflower

0 0.75 1.5 Miles

(At original document size of 8.5x11)
1:95,040

N

Stantec

Project Location
City of Fresno
Fresno County, California

Prepared by DL on 2025-12-04
TR by SET on 2025-12-04
IR by SR on 2025-12-04

Client/Project
185806843

Judicial Council of California
New Fresno Courthouse Project

Figure No.
4

Title
CNDDB Special-Status Plant and Animal Species Occurrences Within Five Miles of the Project Area

Notes
1. Coordinate System: NAD 1983 StatePlane California III FIPS 0403 Feet
2. Data Sources: Stantec 2025. CNDDB Data From CDFW 2025.
3. Background: Bing Maps Aerial: © 2025 Microsoft Corporation Earthstar Geographics SIO

V:\185806\Active\185806843_JCC_Fresno_Courthouse\03_data\gis_cad\gis\pro\Fresno_Courthouse_20251112\Fresno_Courthouse_20251112.aprx Revised: 2025-12-04 By: dalaw

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Appendix B Database Results

B.1 USFWS

IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

Project information

NAME

New Fresno Courthouse Project

LOCATION

Fresno County, California

DESCRIPTION

Some(The Superior Court of California, County of Fresno – New Fresno Courthouse project (proposed project) would provide 36 courtrooms and support spaces of approximately 413,000 square feet. Development of the proposed project would allow the County court to consolidate operations that are currently located in three existing facilities: Fresno County Courthouse, north Annex Jail, and M Street Courthouse. The proposed project would also provide space for growth in future new judgeships.)

Local office

Sacramento Fish And Wildlife Office

(916) 414-6600
(916) 414-6713

Federal Building
2800 Cottage Way, Room W-2605
Sacramento, CA 95825-1846

NOT FOR CONSULTATION

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Log in to IPaC.
2. Go to your My Projects list.
3. Click PROJECT HOME for this project.
4. Click REQUEST SPECIES LIST.

Listed species[1] and their critical habitats are managed by the Ecological Services Program of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries[2]).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact NOAA Fisheries for species under their jurisdiction.

1. Species listed under the Endangered Species Act are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the listing status page for more information. IPaC only shows species that are regulated by USFWS (see FAQ).
2. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

Mammals

NAME	STATUS
Fresno Kangaroo Rat Dipodomys nitratoides exilis Wherever found There is **final** critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/5150	Endangered
San Joaquin Kit Fox Vulpes macrotis mutica Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/2873	Endangered

Reptiles

NAME	STATUS
Blunt-nosed Leopard Lizard Gambelia silus Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/625	Endangered
Northwestern Pond Turtle Actinemys marmorata Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/1111	Proposed Threatened

NOT FOR CONSULTATION

Amphibians

NAME	STATUS
California Tiger Salamander Ambystoma californiense There is **final** critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/2076	Threatened
Western Spadefoot Spea hammondii No critical habitat has been designated for this species.	Proposed Threatened

Insects

NAME	STATUS
Monarch Butterfly Danaus plexippus Wherever found There is **proposed** critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/9743	Proposed Threatened

Crustaceans

NAME	STATUS
Vernal Pool Fairy Shrimp Branchinecta lynchi Wherever found There is **final** critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/498	Threatened

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

There are no critical habitats at this location.

You are still required to determine if your project(s) may have effects on all above listed species.

Bald & Golden Eagles

Bald and Golden Eagles are protected under the Bald and Golden Eagle Protection Act [2] and the Migratory Bird Treaty Act (MBTA) [1]. Any person or organization who plans or conducts activities that may result in impacts to Bald or Golden Eagles, or their habitats, should follow appropriate regulations and consider implementing appropriate avoidance and minimization measures, as described in the various links on this page.

Additional information can be found using the following links:

- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide avoidance and minimization measures for birds https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf
- Supplemental Information for Migratory Birds and Eagles in IPaC https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action

There are Bald Eagles and/or Golden Eagles in your project area.

Measures for Proactively Minimizing Eagle Impacts
For information on how to best avoid and minimize disturbance to nesting bald eagles, please review the National Bald Eagle Management Guidelines. You may employ the timing and activity-specific distance recommendations in this document when designing your project/activity to avoid and minimize eagle impacts. For bald eagle information specific to Alaska, please refer to Bald Eagle Nesting and Sensitivity to Human Activity.

The FWS does not currently have guidelines for avoiding and minimizing disturbance to nesting Golden Eagles. For site-specific recommendations regarding nesting Golden Eagles, please consult with the appropriate Regional Migratory Bird Office or Ecological Services Field Office.

NOT FOR CONSULTATION

If disturbance or take of eagles cannot be avoided, an incidental take permit may be available to authorize any take that results from, but is not the purpose of, an otherwise lawful activity. For assistance making this determination for Bald Eagles, visit the Do I Need A Permit Tool. For assistance making this determination for golden eagles, please consult with the appropriate Regional Migratory Bird Office or Ecological Services Field Office.

Ensure Your Eagle List is Accurate and Complete
If your project area is in a poorly surveyed area in IPaC, your list may not be complete and you may need to rely on other resources to determine what species may be present (e.g. your local FWS field office, state surveys, your own surveys). Please review the Supplemental Information on Migratory Birds and Eagles, to help you properly interpret the report for your specified location, including determining if there is sufficient data to ensure your list is accurate.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to bald or golden eagles on your list, see the "Probability of Presence Summary" below to see when these bald or golden eagles are most likely to be present and breeding in your project area.

Review the FAQs
The FAQs below provide important additional information and resources.

NAME	BREEDING SEASON
Bald Eagle Haliaeetus leucocephalus This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Jan 1 to Aug 31
Golden Eagle Aquila chrysaetos This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1680	Breeds Jan 1 to Aug 31

NOT FOR CONSULTATION

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read "Supplemental Information on Migratory Birds and Eagles", specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (■)
Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

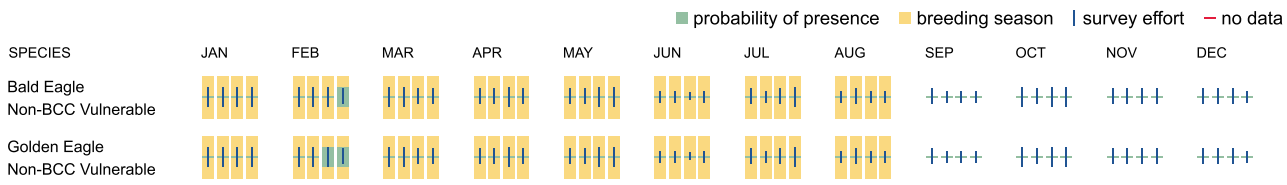
Survey Effort (|)
Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

To see a bar's survey effort range, simply hover your mouse cursor over the bar.

No Data (–)
A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.



Bald & Golden Eagles FAQs

What does IPaC use to generate the potential presence of bald and golden eagles in my specified location?

The potential for eagle presence is derived from data provided by the Avian Knowledge Network (AKN). The AKN data is based on a growing collection of survey, banding, and citizen science datasets and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are an eagle (Bald and Golden Eagle Protection Act requirements may apply).

Proper interpretation and use of your eagle report
On the graphs provided, please look carefully at the survey effort (indicated by the black vertical line) and for the existence of the "no data" indicator (a red horizontal line). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort line or no data line (red horizontal) means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list and associated information help you know what to look for to confirm presence and helps guide you in knowing when to implement avoidance and minimization measures to eliminate or reduce potential impacts from your project activities or get the appropriate permits should presence be confirmed.

How do I know if eagles are breeding, wintering, or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating, or resident), you may query your location using the RAIL Tool and view the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If an eagle on your IPaC migratory bird species list has a breeding season associated with it (indicated by yellow vertical bars on the phenology graph in your "IPaC PROBABILITY OF PRESENCE SUMMARY" at the top of your results list), there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

Interpreting the Probability of Presence Graphs

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. A taller bar indicates a higher probability of species presence. The survey effort can be used to establish a level of confidence in the presence score.

How is the probability of presence score calculated? The calculation is done in three steps:
The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.

To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.

The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

Breeding Season ()
Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort ()
Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

No Data ()
A week is marked as having no data if there were no survey events for that week.

Survey Timeframe
Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.

Migratory birds

The Migratory Bird Treaty Act (MBTA) [1] prohibits the take (including killing, capturing, selling, trading, and transport) of protected migratory bird species without prior authorization by the Department of Interior U.S. Fish and Wildlife Service (Service).

1. The Migratory Birds Treaty Act of 1918.

NOT FOR CONSULTATION

2. The Bald and Golden Eagle Protection Act of 1940.

Additional information can be found using the following links:

- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide avoidance and minimization measures for birds
- Supplemental Information for Migratory Birds and Eagles in IPaC https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action

Measures for Proactively Minimizing Migratory Bird Impacts

Your IPaC Migratory Bird list showcases birds of concern, including Birds of Conservation Concern (BCC), in your project location. This is not a comprehensive list of all birds found in your project area. However, you can help proactively minimize significant impacts to all birds at your project location by implementing the measures in the Nationwide avoidance and minimization measures for birds document, and any other project-specific avoidance and minimization measures suggested at the link Measures for avoiding and minimizing impacts to birds for the birds of concern on your list below.

Ensure Your Migratory Bird List is Accurate and Complete

If your project area is in a poorly surveyed area, your list may not be complete and you may need to rely on other resources to determine what species may be present (e.g. your local FWS field office, state surveys, your own surveys). Please review the Supplemental Information on Migratory Birds and Eagles document, to help you properly interpret the report for your specified location, including determining if there is sufficient data to ensure your list is accurate.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the "Probability of Presence Summary" below to see when these birds are most likely to be present and breeding in your project area.

Review the FAQs
The FAQs below provide important additional information and resources.

NAME	BREEDING SEASON
Bald Eagle Haliaeetus leucocephalus This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Jan 1 to Aug 31
Belding's Savannah Sparrow Passerculus sandwichensis beldingi This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/8	Breeds Apr 1 to Aug 15
Bullock's Oriole Icterus bullockii This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds Mar 21 to Jul 25
California Gull Larus californicus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Mar 1 to Jul 31
Clark's Grebe Aechmophorus clarkii This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Jun 1 to Aug 31
Common Yellowthroat Geothlypis trichas sinuosa This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/2084	Breeds May 20 to Jul 31
Golden Eagle Aquila chrysaetos This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1680	Breeds Jan 1 to Aug 31

NOT FOR CONSULTATION

Lawrence's Goldfinch Spinus lawrencei This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9464	Breeds Mar 20 to Sep 20
Northern Harrier Circus hudsonius This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/8350	Breeds Apr 1 to Sep 15
Nuttall's Woodpecker Dryobates nuttallii This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/9410	Breeds Apr 1 to Jul 20
Oak Titmouse Baeolophus inornatus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9656	Breeds Mar 15 to Jul 15
Olive-sided Flycatcher Contopus cooperi This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/3914	Breeds May 20 to Aug 31
Santa Barbara Song Sparrow Melospiza melodia graminea This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/5513	Breeds Mar 1 to Sep 5
Tricolored Blackbird Agelaius tricolor This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/3910	Breeds Mar 15 to Aug 10
Western Screech-owl Megascops kennicottii cardonensis This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds Mar 1 to Jun 30

NOT FOR CONSULTATION

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read "Supplemental Information on Migratory Birds and Eagles", specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (■)

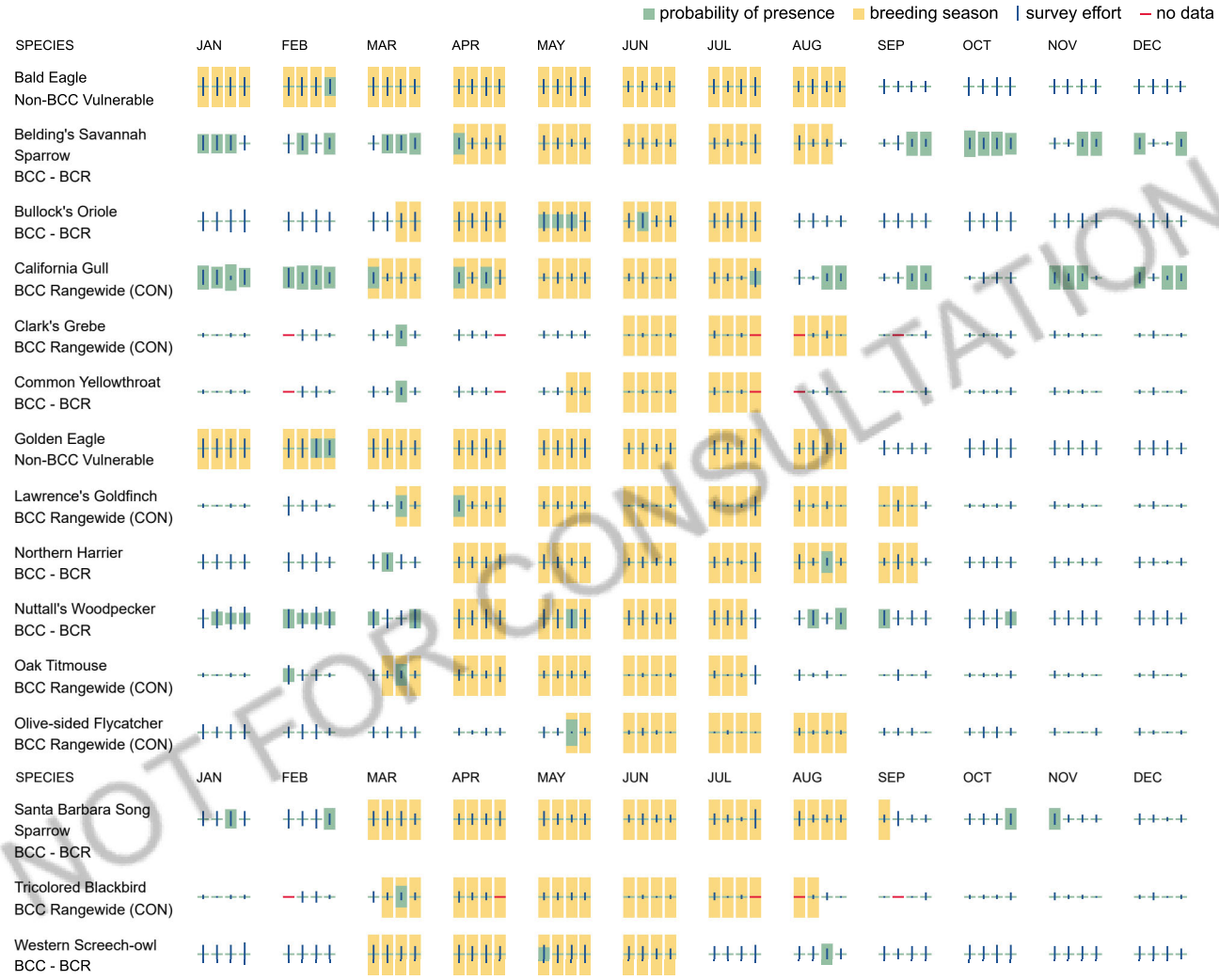
Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)
Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

To see a bar's survey effort range, simply hover your mouse cursor over the bar.

No Data (–)
A week is marked as having no data if there were no survey events for that week.

Survey Timeframe
Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.



NOT FOR CONSULTATION

Migratory Bird FAQs

Tell me more about avoidance and minimization measures I can implement to avoid or minimize impacts to migratory birds.

Nationwide Avoidance & Minimization Measures for Birds describes measures that can help avoid and minimize impacts to all birds at any location year-round. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is one of the most effective ways to minimize impacts. To see when birds are most likely to occur and breed in your project area, view the Probability of Presence Summary. Additional measures or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?

The Migratory Bird Resource List is comprised of Birds of Conservation Concern (BCC) and other species that may warrant special attention in your project location, such as those listed under the Endangered Species Act or the Bald and Golden Eagle Protection Act and those species marked as "Vulnerable". See the FAQ "What are the levels of concern for migratory birds?" for more information on the levels of concern covered in the IPaC migratory bird species list.

The migratory bird list generated for your project is derived from data provided by the Avian Knowledge Network (AKN). The AKN data is based on a growing collection of survey, banding, and citizen science datasets and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) with which your project intersects. These species have been identified as warranting special attention because they are BCC species in that area, an eagle (Bald and Golden Eagle Protection Act requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, and to verify survey effort when no results present, please visit the Rapid Avian Information Locator (RAIL) Tool.

Why are subspecies showing up on my list?

Subspecies profiles are included on the list of species present in your project area because observations in the AKN for **the species** are being detected. If the species are present, that means that the subspecies may also be present. If a subspecies shows up on your list, you may need to rely on other resources to determine if that subspecies may be present (e.g. your local FWS field office, state surveys, your own surveys).

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the Avian Knowledge Network (AKN). This data is derived from a growing collection of survey, banding, and citizen science datasets.

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go to the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating, or resident), you may query your location using the RAIL Tool and view the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your IPaC migratory bird species list has a breeding season associated with it (indicated by yellow vertical bars on the phenology graph in your “IPaC PROBABILITY OF PRESENCE SUMMARY” at the top of your results list), there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are Birds of Conservation Concern (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the Bald and Golden Eagle Protection Act requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially BCC species. For more information on avoidance and minimization measures you can implement to help avoid and minimize migratory bird impacts, please see the FAQ “Tell me more about avoidance and minimization measures I can implement to avoid or minimize impacts to migratory birds”.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the Northeast Ocean Data Portal. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.

Proper interpretation and use of your migratory bird report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please look carefully at the survey effort (indicated by the black vertical line) and for the existence of the "no data" indicator (a red horizontal line). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list does not represent all birds present in your project area. It is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list and associated information help you know what to look for to confirm presence and helps guide implementation of avoidance and minimization measures to eliminate or reduce potential impacts from your project activities, should presence be confirmed. To learn more about avoidance and minimization measures, visit the FAQ "Tell me about avoidance and minimization measures I can implement to avoid or minimize impacts to migratory birds".

Interpreting the Probability of Presence Graphs
Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. A taller bar indicates a higher probability of species presence. The survey effort can be used to establish a level of confidence in the presence score.

How is the probability of presence score calculated? The calculation is done in three steps:
The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.

To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.

The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

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Breeding Season ()
Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort ()
Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

No Data ()
A week is marked as having no data if there were no survey events for that week.

Survey Timeframe
Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.

Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the National Wildlife Refuge system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

There are no refuge lands at this location.

Fish hatcheries

There are no fish hatcheries at this location.

Wetlands in the National Wetlands Inventory (NWI)

Impacts to NWI wetlands and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local U.S. Army Corps of Engineers District.

This location did not intersect any wetlands mapped by NWI.

NOTE: This initial screening does **not** replace an on-site delineation to determine whether wetlands occur. Additional information on the NWI data is provided below.

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving

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modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

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B.2 CNDDB

Summary Table Report

California Department of Fish and Wildlife

California Natural Diversity Database

Query Criteria: Quad IS (Fresno South (3611967) OR Herndon (3611978) OR Fresno North (3611977) OR Clovis (3611976) OR Kearney Park (3611968) OR Malaga (3611966) OR Raisin (3611958) OR Caruthers (3611957) OR Conejo (3611956))

Name (Scientific/Common)	CNDDB Ranks	Listing Status (Fed/State)	Other Lists	Elev. Range (ft.)	Total EO's	Element Occ. Ranks						Population Status		Presence		
						A	B	C	D	X	U	Historic > 20 yr	Recent <= 20 yr	Extant	Poss. Extirp.	Extirp.
Actinemys marmorata northwestern pond turtle	G2 SNR	Proposed Threatened None	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_VU-Vulnerable USFS_S-Sensitive	388 388	1160 S:1	0	0	0	0	0	1	0	1	1	0	0
Agelaius tricolor tricolored blackbird	G1G2 S2	None Threatened	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_EN-Endangered USFWS_BCC-Birds of Conservation Concern	330 365	960 S:3	0	0	0	0	2	1	3	0	1	1	1
Ambystoma californiense pop. 1 California tiger salamander - central California DPS	G3T3 S3	Threatened Threatened	CDFW_WL-Watch List IUCN_VU-Vulnerable	297 400	1329 S:4	0	1	1	0	2	0	2	2	2	0	2
Anniella pulchra Northern California legless lizard	G3 S2S3	None None	CDFW_SSC-Species of Special Concern USFS_S-Sensitive	300 300	386 S:1	0	0	0	0	0	1	1	0	1	0	0
Antrozous pallidus pallid bat	G4 S3	None None	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFS_S-Sensitive	310 310	425 S:1	0	0	0	0	0	1	1	0	1	0	0
Ardea alba great egret	G5 S4	None None	CDF_S-Sensitive IUCN_LC-Least Concern	296 296	43 S:1	0	0	0	0	0	1	0	1	1	0	0
Arizona elegans occidentalis California glossy snake	G5T2 S2	None None	CDFW_SSC-Species of Special Concern	250 300	260 S:2	0	0	0	0	0	2	2	0	2	0	0
Athene cunicularia burrowing owl	G4 S2	None Candidate Endangered	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern	213 351	2291 S:6	1	1	1	1	0	2	5	1	6	0	0

Summary Table Report

California Department of Fish and Wildlife

California Natural Diversity Database

Name (Scientific/Common)	CNDDB Ranks	Listing Status (Fed/State)	Other Lists	Elev. Range (ft.)	Total EO's	Element Occ. Ranks						Population Status		Presence		
						A	B	C	D	X	U	Historic > 20 yr	Recent <= 20 yr	Extant	Poss. Extirp.	Extirp.
Atriplex minuscula lesser saltscale	G2 S2	None None	Rare Plant Rank - 1B.1 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden		52 S:1	0	0	0	0	0	1	1	0	1	0	0
Bombus crotchii Crotch's bumble bee	G2 S2	None Candidate Endangered	IUCN_EN-Endangered	253 319	880 S:3	0	1	0	0	0	2	1	2	3	0	0
Bombus pensylvanicus American bumble bee	G3G4 S2	None None	IUCN_VU-Vulnerable	300 300	810 S:1	0	0	0	0	0	1	1	0	1	0	0
Branchinecta lynchi vernal pool fairy shrimp	G3 S3	Threatened None	IUCN_VU-Vulnerable	385 395	804 S:2	0	0	0	1	0	1	1	1	2	0	0
Buteo swainsoni Swainson's hawk	G5 S4	None Threatened	BLM_S-Sensitive IUCN_LC-Least Concern	250 300	2585 S:6	0	2	1	1	0	2	3	3	6	0	0
Castilleja campestris var. succulenta succulent owl's-clover	G4?T2T3 S2S3	Threatened Endangered	Rare Plant Rank - 1B.2	350 350	99 S:1	0	0	0	0	1	0	1	0	0	1	0
Caulanthus californicus California jewelflower	G1 S1	Endangered Endangered	Rare Plant Rank - 1B.1 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden SB_SBBG-Santa Barbara Botanic Garden SB_UCBG-UC Botanical Garden at Berkeley		67 S:1	0	0	0	0	1	0	1	0	0	0	1
Coccyzus americanus occidentalis western yellow-billed cuckoo	G5T2T3 S1	Threatened Endangered	BLM_S-Sensitive USFS_S-Sensitive	300 345	165 S:2	0	0	0	0	2	0	2	0	0	1	1
Desmocerus californicus dimorphus valley elderberry longhorn beetle	G3T3 S3	Threatened None		225 225	271 S:1	0	0	0	0	0	1	1	0	1	0	0
Dipodomys nitratoides exilis Fresno kangaroo rat	G2TH SH	Endangered Endangered	IUCN_VU-Vulnerable	220 225	12 S:3	0	0	0	0	3	0	3	0	0	0	3
Efferia antiochi Antioch efferian robberfly	G1G2 S1S2	None None		260 300	4 S:2	0	0	0	0	0	2	2	0	2	0	0

Summary Table Report

California Department of Fish and Wildlife

California Natural Diversity Database

Name (Scientific/Common)	CNDDB Ranks	Listing Status (Fed/State)	Other Lists	Elev. Range (ft.)	Total EO's	Element Occ. Ranks						Population Status		Presence		
						A	B	C	D	X	U	Historic > 20 yr	Recent <= 20 yr	Extant	Poss. Extirp.	Extirp.
Egretta thula snowy egret	G5 S4	None None	IUCN_LC-Least Concern	296 296	20 S:1	0	0	0	0	0	1	0	1	1	0	0
Eriastrum hooveri Hoover's eriastrum	G3 S3	Delisted None	Rare Plant Rank - 4.2 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	235 235	47 S:1	0	0	0	0	1	0	1	0	0	0	1
Eumops perotis californicus western mastiff bat	G4G5T4 S3S4	None None	BLM_S-Sensitive CDFW_SSC-Species of Special Concern	310 320	296 S:4	0	0	0	0	0	4	4	0	4	0	0
Imperata brevifolia California satintail	G3 S3	None None	Rare Plant Rank - 2B.1 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden SB_SBBG-Santa Barbara Botanic Garden USFS_S-Sensitive	300 300	32 S:1	0	0	0	0	0	1	1	0	1	0	0
Lasiurus cinereus hoary bat	G3G4 S4	None None	IUCN_LC-Least Concern	270 270	238 S:1	0	0	0	0	0	1	1	0	1	0	0
Lasthenia chrysantha alkali-sink goldfields	G2 S2	None None	Rare Plant Rank - 1B.1		55 S:1	0	0	0	0	1	0	1	0	0	1	0
Leptosiphon serrulatus Madera leptosiphon	G3 S3	None None	Rare Plant Rank - 1B.2 BLM_S-Sensitive SB_SBBG-Santa Barbara Botanic Garden USFS_S-Sensitive		26 S:1	0	0	0	0	0	1	1	0	1	0	0
Linderiella occidentalis California linderiella	G2G3 S2S3	None None	IUCN_NT-Near Threatened	400 400	509 S:1	0	0	0	0	0	1	1	0	1	0	0
Lytta molesta molestan blister beetle	G2 S2	None None		275 360	17 S:2	0	0	0	0	0	2	2	0	1	1	0
Metapogon hurdi Hurd's metapogon robberfly	G1G2 S1S2	None None		325 325	3 S:1	0	0	0	0	0	1	1	0	0	1	0
Nannopterum auritum double-crested cormorant	G5 S4	None None	CDFW_WL-Watch List IUCN_LC-Least Concern	332 332	39 S:1	0	0	0	0	0	1	0	1	1	0	0

Summary Table Report

California Department of Fish and Wildlife

California Natural Diversity Database

Name (Scientific/Common)	CNDDB Ranks	Listing Status (Fed/State)	Other Lists	Elev. Range (ft.)	Total EO's	Element Occ. Ranks						Population Status		Presence		
						A	B	C	D	X	U	Historic > 20 yr	Recent <= 20 yr	Extant	Poss. Extirp.	Extirp.
Northern Claypan Vernal Pool	G1	None		350	21	0	0	0	0	0	1	1	0	1	0	0
Northern Claypan Vernal Pool	S1.1	None		350	S:1											
Nycticorax nycticorax	G5	None	IUCN_LC-Least Concern	296	37	0	0	0	0	0	1	0	1	1	0	0
black-crowned night heron	S4	None		296	S:1											
Orcuttia inaequalis	G1	Threatened	Rare Plant Rank - 1B.1	300	47	0	0	0	0	1	0	1	0	0	0	1
San Joaquin Valley Orcutt grass	S1	Endangered		300	S:1											
Orcuttia pilosa	G1	Endangered	Rare Plant Rank - 1B.1 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	310	35	0	0	0	0	1	0	1	0	0	1	0
hairy Orcutt grass	S1	Endangered		310	S:1											
Perognathus inornatus	G3	None	BLM_S-Sensitive IUCN_LC-Least Concern	265	140	0	0	0	0	1	2	3	0	2	0	1
San Joaquin pocket mouse	S2S3	None		265	S:3											
Phrynosoma blainvillii	G4	None	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern	300	841	0	0	0	0	1	0	1	0	0	1	0
coast horned lizard	S4	None		300	S:1											
Sagittaria sanfordii	G3	None	Rare Plant Rank - 1B.2 BLM_S-Sensitive	295	143	0	2	1	0	0	6	6	3	9	0	0
Sanford's arrowhead	S3	None		360	S:9											
Spea hammondii	G2G3	Proposed Threatened	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_NT-Near Threatened	259	1445	0	0	1	0	0	1	2	0	2	0	0
western spadefoot	S3S4	None		355	S:2											
Taxidea taxus	G5	None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern	250	648	0	0	0	0	0	2	2	0	2	0	0
American badger	S3	None		315	S:2											
Thamnophis gigas	G2	Threatened	IUCN_VU-Vulnerable	195	381	0	0	0	0	1	0	1	0	0	1	0
giant gartersnake	S2	Threatened		195	S:1											
Tuctoria greenei	G1	Endangered	Rare Plant Rank - 1B.1	405	50	0	0	0	0	1	0	1	0	0	0	1
Greene's tuctoria	S1	Rare		405	S:1											
Vireo bellii pusillus	G5T2	Endangered		345	505	0	0	0	0	2	0	2	0	0	2	0
least Bell's vireo	S3	Endangered		360	S:2											

Summary Table Report

California Department of Fish and Wildlife

California Natural Diversity Database

Name (Scientific/Common)	CNDDB Ranks	Listing Status (Fed/State)	Other Lists	Elev. Range (ft.)	Total EO's	Element Occ. Ranks						Population Status		Presence		
						A	B	C	D	X	U	Historic > 20 yr	Recent <= 20 yr	Extant	Poss. Extirp.	Extirp.
Vulpes macrotis mutica	G4T2	Endangered		200	1026	0	0	0	0	0	2	2	0	2	0	0
San Joaquin kit fox	S3	Threatened		302	S:2											

B.3 CNPS

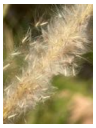
CALIFORNIA NATIVE PLANT SOCIETY

CNPS Rare Plant Inventory

Search Results

10 matches found. Click on scientific name for details

Search Criteria: , CRPR is one of [1A:1B:2A:2B] , 9-Quad include [3611966:3611976:3611968:3611967:3611978:3611977:3611958:3611956:3611957]

▲ SCIENTIFIC NAME	COMMON NAME	FAMILY	LIFEFORM	BLOOMING PERIOD	FED LIST	STATE LIST	GLOBAL RANK	STATE RANK	CA RARE PLANT RANK	CA ENDEMIC	DATE ADDED	PHOTO
Atriplex minuscula	lesser saltscale	Chenopodiaceae	annual herb	May-Oct	None	None	G2	S2	1B.1	Yes	1994-01-01	© 2000 Robert E. Preston, Ph.D.
Castilleja campestris var. *succulenta*	succulent owl's-clover	Orobanchaceae	annual herb (hemiparasitic)	(Mar)Apr-May	FT	CE	G4? T2T3	S2S3	1B.2	Yes	1984-01-01	No Photo Available
Caulanthus californicus	California jewelflower	Brassicaceae	annual herb	Feb-May	FE	CE	G1	S1	1B.1	Yes	1984-01-01	No Photo Available
Imperata brevifolia	California satintail	Poaceae	perennial rhizomatous herb	Sep-May	None	None	G3	S3	2B.1		2006-12-26	 © 2020 Matt C. Berger
Lasthenia chrysantha	alkali-sink goldfields	Asteraceae	annual herb	Feb-Apr	None	None	G2	S2	1B.1	Yes	2019-09-30	© 2009 California State University, Stanislaus

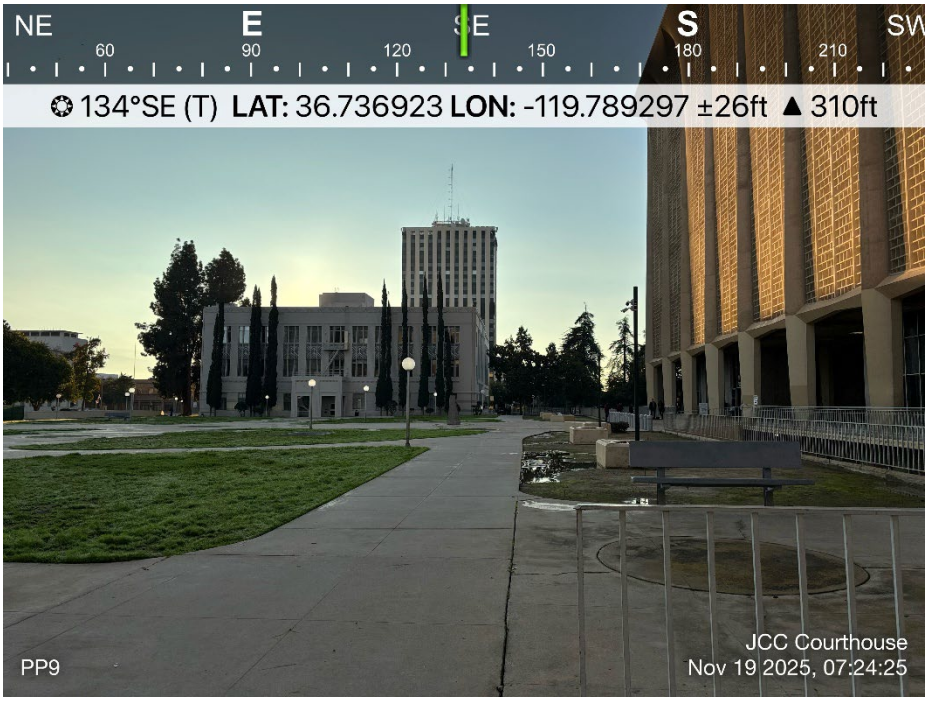
Leptosiphon serrulatus	Madera leptosiphon	Polemoniaceae	annual herb	Apr-May	None	None	G3	S3	1B.2	Yes	1980-01-01	© 2008 Chris Winchell
Orcuttia inaequalis	San Joaquin Valley Orcutt grass	Poaceae	annual herb	Apr-Sep	FT	CE	G1	S1	1B.1	Yes	1974-01-01	No Photo Available
Orcuttia pilosa	hairy Orcutt grass	Poaceae	annual herb	May-Sep	FE	CE	G1	S1	1B.1	Yes	1980-01-01	© 2003 George W. Hartwell
Sagittaria sanfordii	Sanford's arrowhead	Alismataceae	perennial rhizomatous herb (emergent)	May-Oct(Nov)	None	None	G3	S3	1B.2	Yes	1984-01-01	©2013 Debra L. Cook
Tuctoria greenei	Greene's tuctoria	Poaceae	annual herb	May-Jul(Sep)	FE	CR	G1	S1	1B.1	Yes	1974-01-01	©2008 F. Gauna

Showing 1 to 10 of 10 entries

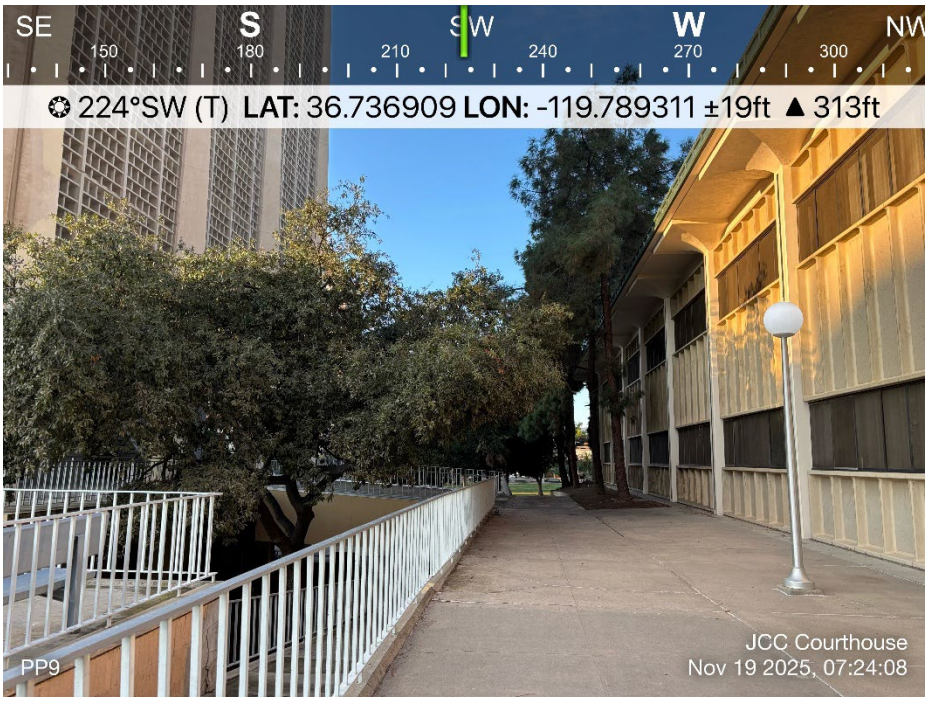
Go to top

Suggested Citation:
California Native Plant Society, Rare Plant Program. 2025. Rare Plant Inventory (online edition, v9.5.1). Website https://www.rareplants.cnps.org [accessed 13 November 2025].
}

Appendix C Representative Photographs

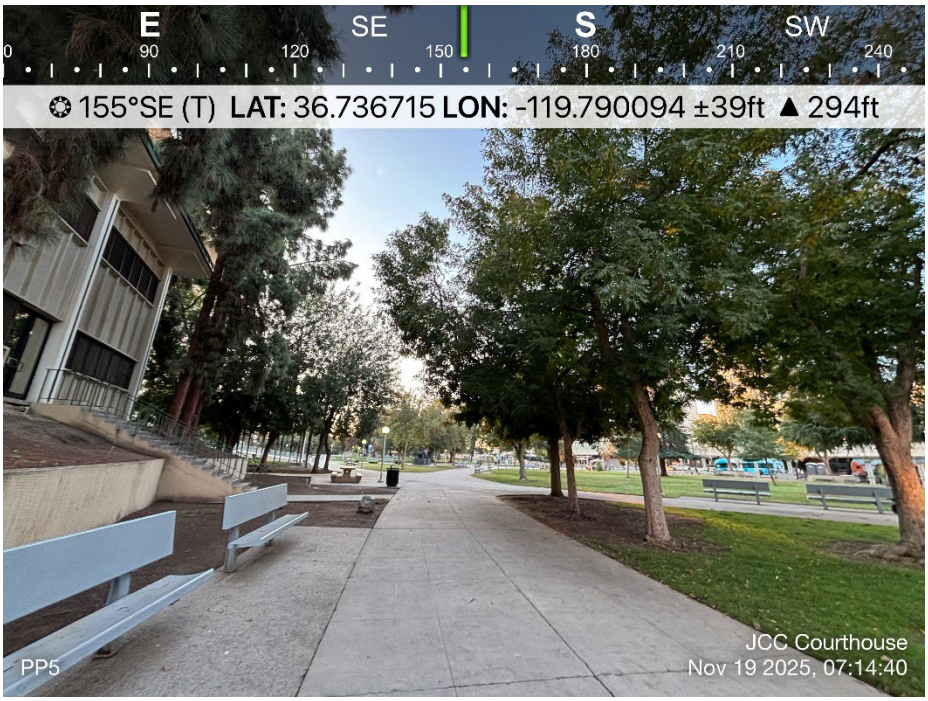


Portion of Project Area within Courthouse Park – tall buildings, grass, ornamental trees, and standing water present.



Portion of Project Area within Courthouse Park –ornamental trees present.

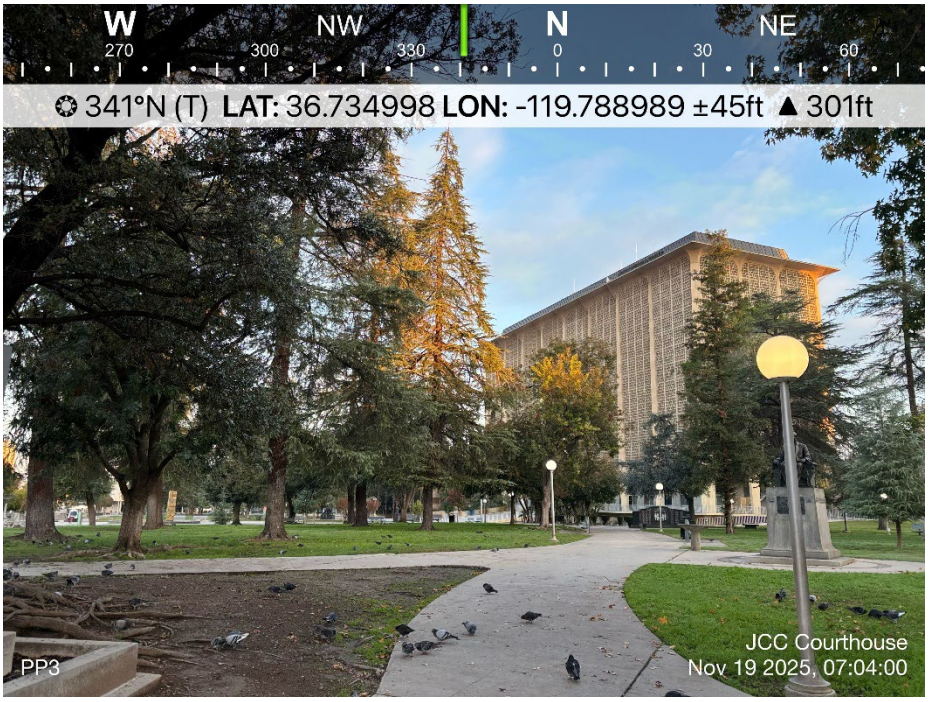
Portion of Project Area within Courthouse Park – ornamental trees and grass present.



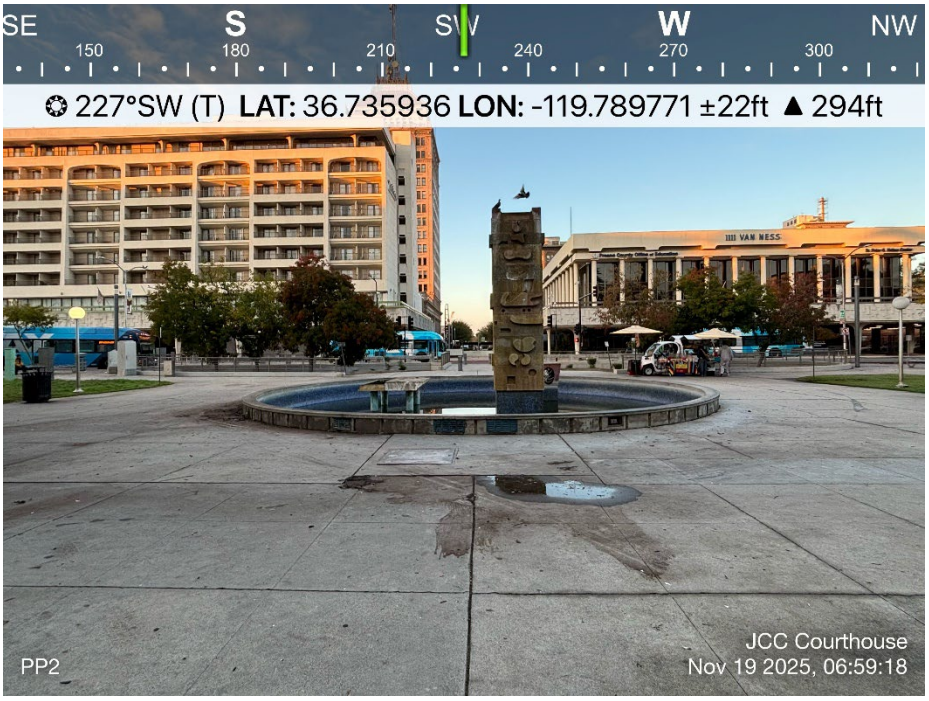
Portion of Project Area within Courthouse Park – ornamental trees and grass present.

Portion of Project Area within Courthouse Park – ornamental trees and grass present.

Portion of Project Area within Courthouse Park – ornamental trees and grass present.



Portion of Project Area within Courthouse Park – tall building, ornamental trees, and grass present. Pigeons foraging at ground level.



Portion of Project Area within Courthouse Park – water fountain at center with urban surroundings.

Portion of proposed staging Area – grass with some bare patches present.

Portion of proposed staging Area – broken concrete and trash present.

Appendix D Historic Resources Evaluation Report – Confidential not included within this report

Appendix E Archaeological Resources Study Report - Confidential not included within this report

Appendix F Paleontological Resources Assessment

Draft Paleontological Resources Assessment for the New Fresno Courthouse Project, Fresno, California

Results of an analysis of existing data to assess potential impacts to paleontological resources

Stantec

Prepared for:
Judicial Council of California

Date:
April 10, 2026

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Revision Record

Revision	Description	Author	Date	Quality Check	Date	Independent Review	Date

Disclaimer

The conclusions in the Report titled Draft Paleontological Resources Assessment for the New Fresno Courthouse Project, Fresno, California are Stantec's professional opinion, as of the time of the Report, and concerning the scope described in the Report. The opinions in the document are based on conditions and information existing at the time the scope of work was conducted and do not take into account any subsequent changes. The Report relates solely to the specific project for which Stantec was retained and the stated purpose for which the Report was prepared. The Report is not to be used or relied on for any variation or extension of the project, or for any other project or purpose, and any unauthorized use or reliance is at the recipient's own risk.

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Table of Contents

Executive Summary ..... **ii**
Acronyms / Abbreviations ..... **iv**
Glossary ..... **v**
1 Introduction **1**
1.1 Project Description 1
1.1.1 Supporting Infrastructure 2
1.2 Demolition Activities 3
1.3 Project Construction and Staging 3
1.4 Project Location 4
1.5 Paleontological Resources 8
1.5.1 Professional Standards 8
2 Regulatory Framework **9**
2.1 State of California 9
2.1.1 California Environmental Quality Act 9
3 Methodology **9**
3.1 Analysis of Existing Data 9
3.2 Paleontological Potential 10
3.3 Paleontological Impacts Assessment 11
4 Results **12**
4.1 Geologic Setting 12
4.2 Museum Records Searches 12
4.3 Project Site Geology and Paleontology 13
4.4 Potential Impacts to Paleontological Resources from Project Activities 17
5 Recommendations and Management Considerations **18**
6 Summary **19**
7 References **21**

List of Tables

Table 1. Summary of the Society of Vertebrate Paleontology's (2025) Fossil Prediction Map System 10
Table 2. Museum Database Search Results 13
Table 3. Paleontological Potential of Geologic Units in the Project Site. 15

List of Figures

Figure 1. Project Location Map. 5
Figure 2. Project Site Map 6
Figure 3. Proposed Site Plan. 7
Figure 4. Project Site Geology. 14

Executive Summary

Stantec Consulting Services Inc. (Stantec) conducted a paleontological resources assessment on behalf of the Judicial Council of California (Judicial Council) for the New Fresno Courthouse Project (the Project) on 2.09 acres within the Courthouse Park parcel at 2200 Fresno Street in Fresno, Fresno County, California. This study was conducted in support of the proposed demolition of the existing Fresno County Sheriff's Office Administration Building and South Annex Jail and construction of a modern courtroom, approximately 413,000 square-foot courthouse.

The proposed Project is subject to compliance with the California Environmental Quality Act (CEQA) regarding the Project's potential impacts on paleontological resources. The lead agency for this Project is the Judicial Council. This study consisted of an analysis of existing data including a review of geologic mapping, relevant scientific literature, and online databases of the University of California Museum of Paleontology, National Museum of Natural History of the Smithsonian, and the American Museum of Natural History. This research was used to assign paleontological potential rankings of the Society of Vertebrate Paleontology (SVP) (2025) to the geologic units present in the Project Site, either at the surface or in the subsurface. Following this, Project plans were reviewed to identify potential impacts to paleontological resources and develop mitigation recommendations to reduce potential impacts to less than significant.

The results of the study indicate that two geologic units are present in the Project Site: the Modesto Formation at the surface and the Riverbank Formation in the subsurface. Stantec assesses these units as having high (Fossil Prediction Map System [FPMS] 4) paleontological potential. Project activities include demolition, grading, and construction of the new courthouse facility, which involve ground disturbance that may encounter the Modesto and Riverbank Formations. Should unique paleontological resources be damaged or destroyed by Project activities, it would constitute an adverse impact for the purposes of CEQA.

In order to reduce potential impacts to paleontological resources to less than significant, in compliance with CEQA, Stantec recommends a paleontologist meeting SVP (2025) standards as a Paleontological Principal Investigator be retained to oversee a paleontological mitigation program. The following mitigation activities are recommended for the Project, as part of the mitigation program:

- The Paleontological Principal Investigator should develop and oversee the implementation of a Paleontological Mitigation Plan tailored to the Project plans that provides for paleontological monitoring of earthwork and ground disturbing activities into undisturbed geologic units with high (FPMS 4) paleontological potential to be conducted by a Paleontological Technician meeting industry standards (SVP 2025). This plan should include provisions for worker training, depths and locations for monitoring, monitoring procedures, a fossil discovery plan in the event a fossil is found during construction, including a plan for assessment and treatment, and requirements for final reporting of the results of the mitigation program.
- The Project Paleontologist should develop a Worker's Environmental Awareness Program training that communicates requirements and procedures for the discovery of fossils during

construction, to be delivered by the paleontological monitor to the construction crew prior to the onset of ground disturbance.

- Fulltime paleontological monitoring should be implemented once excavations exceed the depth of previously disturbed sediments or artificial fill across the Project Site. Spot check monitoring may be conducted initially, until the depth of previous disturbance is known. The Paleontological Principal Investigator may alter the frequency or depth of monitoring based on subsurface conditions.
- In the event that fossils are encountered during construction activities, work should stop in a safe radius of the finds, usually 100 feet, while the Paleontological Technician documents the fossils. The Paleontological Principal Investigator shall assess the fossils. Should fossils meet criteria of scientific importance to be considered a unique paleontological resource, they should be collected and curated in an accredited repository along with associated data and curation fees.

Based on the findings in this study and the implementation of the above mitigation recommendations, the proposed Project should not cause an adverse impact to paleontological resources. Changes to the Project plans or Project Site from those assessed in this study may require additional assessment for impacts to paleontological resources.

Acronyms / Abbreviations

Acronym / Abbreviation	Full Name
AMNH	American Museum of Natural History
bgs	below ground surface
BVMNH	Buena Vista Museum of Natural History and Science
CEQA	California Environmental Quality Act
Cogstone	Cogstone Resource Management, Inc.
CY	Cubic yards
Chico State	California State University-Chico
FPMS	Fossil Prediction Map System
Fresno State	California State University-Fresno
GIS	Geographic Information System
Judicial Council	Judicial Council of California
NHMLA	Natural History Museum of Los Angeles County
Ma	Million years ago
NMNH	National Museum of Natural History at the Smithsonian
PRC	Public Resources Code
Project	New Fresno Courthouse Project
RAM	Raymond M. Alf Museum of Paleontology
SCNHM	Sierra College Natural History Museum
SF	Square feet
SJSU	San Jose State University
SR	State Route
Stantec	Stantec Consulting Services Inc.
Stanford	Stanford University
SVP	Society of Vertebrate Paleontology
UCMP	University of California Museum of Paleontology

Glossary

Term	Definition
Fossil	Evidence of ancient life, typically regarded by the Society of Vertebrate Paleontology (2025) as 11,700 years (Pleistocene) or older.
Paleontological Technician	An individual with academic training (college or university degree) with an emphasis in paleontology or demonstrated equivalent experience. Academic training as defined herein must include completed basic coursework in paleontology, geology, and biology. Equivalent experience is defined as a minimum of two years of cumulative professional or non-professional work in laboratory preparation, curation, and/or fieldwork related to paleontology, as well as documented knowledge of the discipline of paleontology. Also referred to as a Field Paleontologist [Society of Vertebrate Paleontology 2025].
Paleontological Monitoring	Observation of construction activities by a Paleontological Technician, under supervision of the Paleontological Principal Investigator. Monitoring may be fulltime (observation of the entire duration of a particular activity) or consist of a spot check (observation of a portion of the activity or of an area following the activity).
Paleontological Principal Investigator	Someone with an advanced degree (Master's or Ph.D.) with an emphasis in paleontology plus a minimum of two years (or 50 completed mitigation projects) of demonstrated professional experience and competency with paleontological resource mitigation projects at the level of field supervisor, under the direct supervision of a principal investigator. [Society of Vertebrate Paleontology 2025].
Project Site	The 2.09-acre footprint in which Project activities will occur.
Unique Paleontological Resource	The Society of Vertebrate Paleontology's 2025 Guidelines proposes five significance criteria, suggesting that fossils are scientifically significant if they: (1) provide data on evolutionary relationships; (2) provide data in determining the age of geologic stratum; (3) provide data regarding the development or interaction of biological communities; (4) demonstrate "unusual or spectacular circumstances in the history of life;" or (5) are in short supply and/or in danger of being depleted or destroyed. Since CEQA does not provide a threshold of significance for environmental impacts to paleontological resources, the Judicial Council adopts these professional criteria for determining whether the Project may impact a unique paleontological resource as referenced in the CEQA Guidelines (14 Cal. Code of Regs. Appendix G).

1 Introduction

Stantec Consulting Services Inc. (Stantec) conducted a paleontological resources assessment on behalf of the Judicial Council of California (Judicial Council) for the New Fresno Courthouse Project (the Project) on 2.09 acres within the Courthouse Park parcel at 2200 Fresno Street in Fresno, Fresno County, California. This study was conducted in support of the proposed demolition of the existing Fresno County Sheriff's Administration Building and South Annex Jail and construction of a modern courtroom, approximately 413,000 square-foot courthouse

The proposed Project is subject to compliance with the California Environmental Quality Act (CEQA; Pub. Res. Code sections 21000 *et seq*.) requirements regarding the Project's potential impacts on paleontological resources. The lead agency for the Project is the Judicial Council. As part of CEQA compliance, a paleontological resources assessment was conducted to assess potential impacts of the proposed Project on paleontological resources.

1.1 Project Description

The Judicial Council is proposing to construct and operate a new consolidated courthouse for the Superior Court of California, County of Fresno, to support criminal, civil, juvenile, drug, behavioral health, and general trial cases. The Project will be delivered through a Design-Build process. Although final plans have not yet been prepared, the Project is anticipated to include site preparation, grading, building construction, paving, and architectural finishing activities. The proposed courthouse facility would be located on a 2.09-acre portion of the 7.6-acre L-shaped Site 1, which occupies the western portion of the 13.94-acre parcel, County-owned Courthouse Park property at 2200 Fresno Street in the City of Fresno. The Project Site is situated in the northern section of Courthouse Park. The Project Site also contains an underground tunnel connection that travels north to the Main Jail, located on the southeast corner of the intersection of 'M' Street and Fresno Street.

Demolition of the Sheriff Administration and South Annex Jail buildings would be completed as part of the project. Following demolition, the Judicial Council would construct a new, approximately 413,000 square feet (SF), courthouse designed to accommodate current judicial functions and future growth in judgeships. The proposed building would consist of a basement level, podium levels of approximately 43,700 SF each, and tower levels of approximately 27,560 SF each, totaling up to 11 stories above ground and one level below ground.

The proposed new courthouse would provide additional courtrooms, support spaces, and secure parking for judges and officers. The support spaces would include, but are not limited to, judicial chambers, clerks' offices, jury assembly and deliberation rooms, temporary in-custody holding, administrative office space, parking loading dock, and secure prisoner sallyport. The courthouse would include a connection to the existing tunnel to the Fresno County Jail across Fresno Street for transport of prisoners. Secured parking would be provided for judges and officers only; no staff or public parking is included as part of the project scope. The new courthouse would be staffed by approximately 390 full-time employees and 14 part-time employees daily.

The Project would implement sustainable elements throughout its design, construction, and operation and maintenance. The Project would be designed for sustainability and, at a minimum, to the standards of a Leadership in Energy and Environmental Design Silver certified rating. The Project is anticipated to result in an increase of approximately 65,000 SF of paved/impervious surfaces within the Project Site as compared to the existing facilities.

1.1.1 Supporting Infrastructure

The Project Site is served by existing utilities that would be realigned to support operation of the Project. Utility needs of the Project would not substantially differ from those currently available at the site. The Project's potential impacts to these utility systems are analyzed elsewhere, and the conclusions are included here for reference when evaluating the scope of potential subsurface disturbance that could impact paleontological resources.

Stormwater Drainage

The Fresno Metropolitan Flood Control District provides flood control and urban stormwater management services for the Fresno and Clovis metropolitan areas. The Project Site is located within Drainage Area 'FF,' which conveys runoff to a stormwater retention basin at the northeast corner of South West Avenue and West Eden Avenue. Currently, onsite drainage inlets collect and convey stormwater to a 12-inch stormwater pipe along Fresno Street. This existing 12-inch connection is anticipated to accommodate runoff from the Project. The Project generated runoff is not expected to exceed the capacity of the existing drainage system.

Potable and Recycled Water

The existing site is served by an 8-inch water main on Mariposa Street and a 12-inch water main on Tulare Street. These connections are expected to be used for the Project. Water pressure is not anticipated to be affected, as the Project's demand is similar to that of the existing courthouse. Additionally, the Project will include a new fire suppression sprinkler system. The current water system is expected to have sufficient capacity to meet the required flow for fire protection.

Wastewater

An existing 12-inch sewer main currently serves the existing Courthouse via a connection along Tulare Street. The sewer main runs through the alley located northeast of the Fresno County District Attorney building. This same sewer main is anticipated to service the Project. Future wastewater flows are expected to be consistent with existing conditions; therefore, no impacts to the existing sewer collection system are anticipated.

Electricity

The existing electrical distribution system in the area should be adequate and capable of servicing the proposed Project.

Natural Gas

The existing gas distribution system in the area should be adequate and capable of servicing the proposed Project.

1.2 Demolition Activities

Existing Site Development

The Project Site has been developed as Courthouse Park (historically referred to as Court House Square) since the late 1800s. Initial development included construction of a three-story courthouse in 1874, which was subsequently modified with the addition of a copper dome by 1885. A jail facility has occupied the northeastern portion of the parcel since at least 1888.

The existing jail building, located in the northern section of the Project Site, was constructed in 1942, and an annex was added in 1960. The Fresno County Sheriff's Office building, located in the southern portion of the Project Site, was constructed in 1970 as part of a broader downtown redevelopment effort.

Demolition Scope

As part of the proposed New Fresno Courthouse Project, demolition activities would include removal of the existing Sheriff Administration Building and South Annex Jail. These activities would prepare the site for future construction and site development associated with the Project.

Demolition would include the systematic removal and off-haul of aboveground structures, foundations, utilities, and associated improvements. In addition, the Project would include removal of approximately 40,000 SF of existing paving, full repaving of 2,000 SF of existing drive access road.

Demolition work would occur within the existing developed footprint of the Project Site, and no new ground disturbance would extend beyond the Project Site boundaries.

Duration and Equipment

Demolition and abatement activities are anticipated to occur over approximately four months. Equipment likely to be used during demolition includes excavators, loaders, haul trucks, cranes, compressors, and other standard construction equipment. Activities would generally occur during daytime construction hours consistent with City of Fresno noise regulations.

1.3 Project Construction and Staging

Construction is planned to occur over 36 months and is anticipated to start in October 2028 and be completed by October 2031. Construction will be phased to align with the Office of the State Fire Marshal's permitting guidelines and the Judicial Council Building Official's requirements. Construction is anticipated to occur in the following phases: Site Preparation, Grading, Building Construction, Paving, and Architectural Coating. Site Preparation is expected to begin and conclude in September 2028, followed by Site Grading from October to November 2028. Building construction would commence in November 2028 and is

anticipated to be completed by September 2031. Paving is expected to take place between May and June 2031, while Architectural Coating is anticipated to occur between January and May 2030.

It is anticipated construction would require the export of approximately 1,000,000 cubic yards (CY) of material and import of approximately 1,000 CY of fill material. The estimated maximum depth of excavation is expected to be 15 feet.

1.4 Project Location

The proposed new courthouse would be constructed within the 2.09-acre Site 1a (the Project Site), which is part of the larger 7.60-acre Site 1, which is located within the 13.94-acre Courthouse Park parcel at 2200 Fresno Street and identified by Assessor's Parcel Number 466-160-01T, within the City of Fresno, Fresno County, California (**Figure 1**). Site 1 consists of a 7.60-acre L-shaped portion of the western side of the Courthouse Park parcel and is bound by Fresno Street to the northwest, 'M' Street to the northeast, Tulare Street southeast, and Van Ness Avenue to the southwest. The Project Site is located within the northern corner of Site 1, southeast of the intersection of 'M' Street and Fresno Street (**Figure 2, Figure 3**). It encompasses the existing Fresno County Sheriff's Office and South Annex Jail, which is connected via an underground tunnel to the Main Jail located across Fresno Street to the west. The Project Site is located in portions of Sections 3, 4, and 10 of Township 14 South, Range 20 East, as depicted on the Fresno South, California United States Geological Survey 7.5-minute series topographic quadrangle.

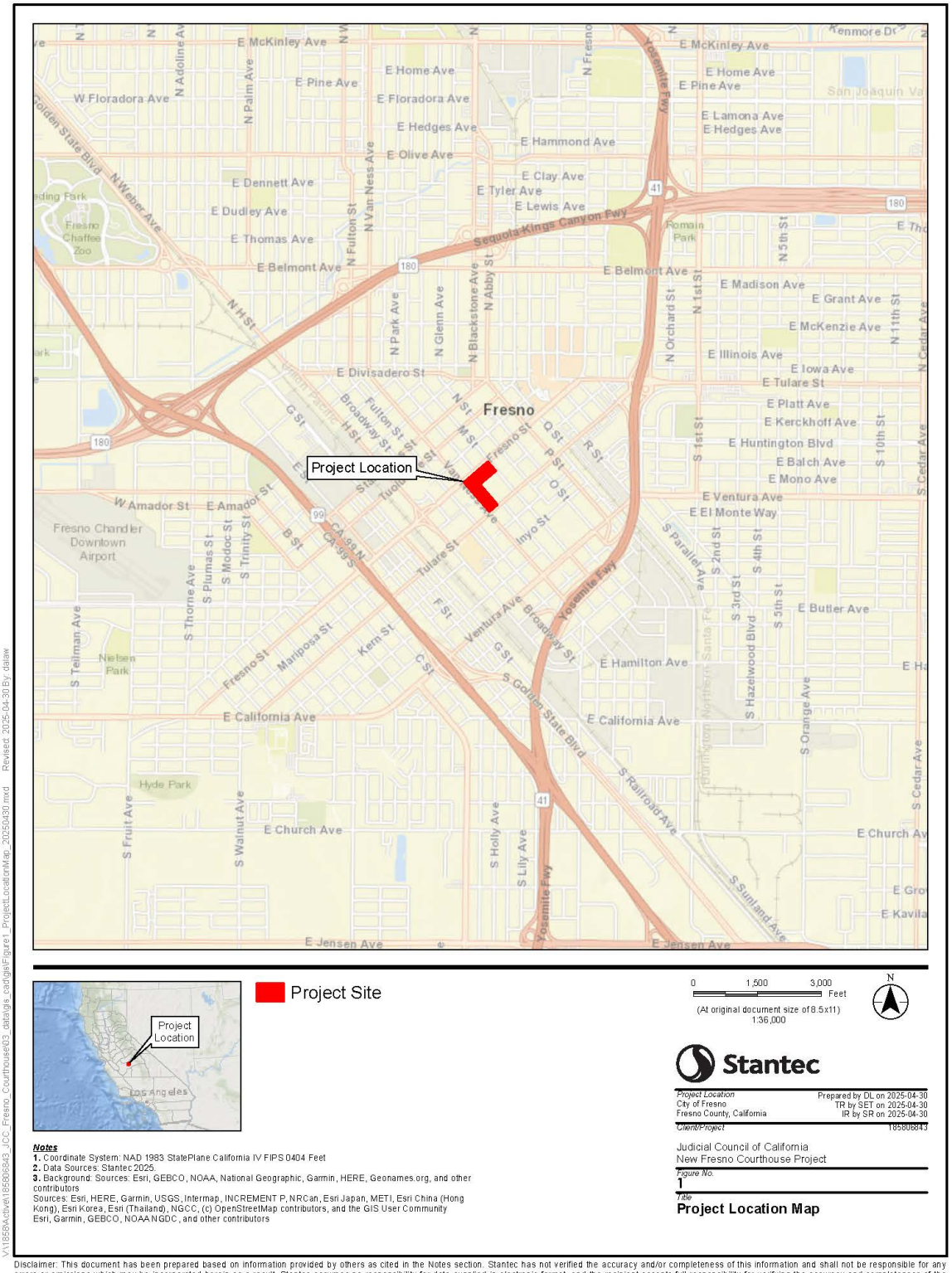

Figure 1. Project Location Map.

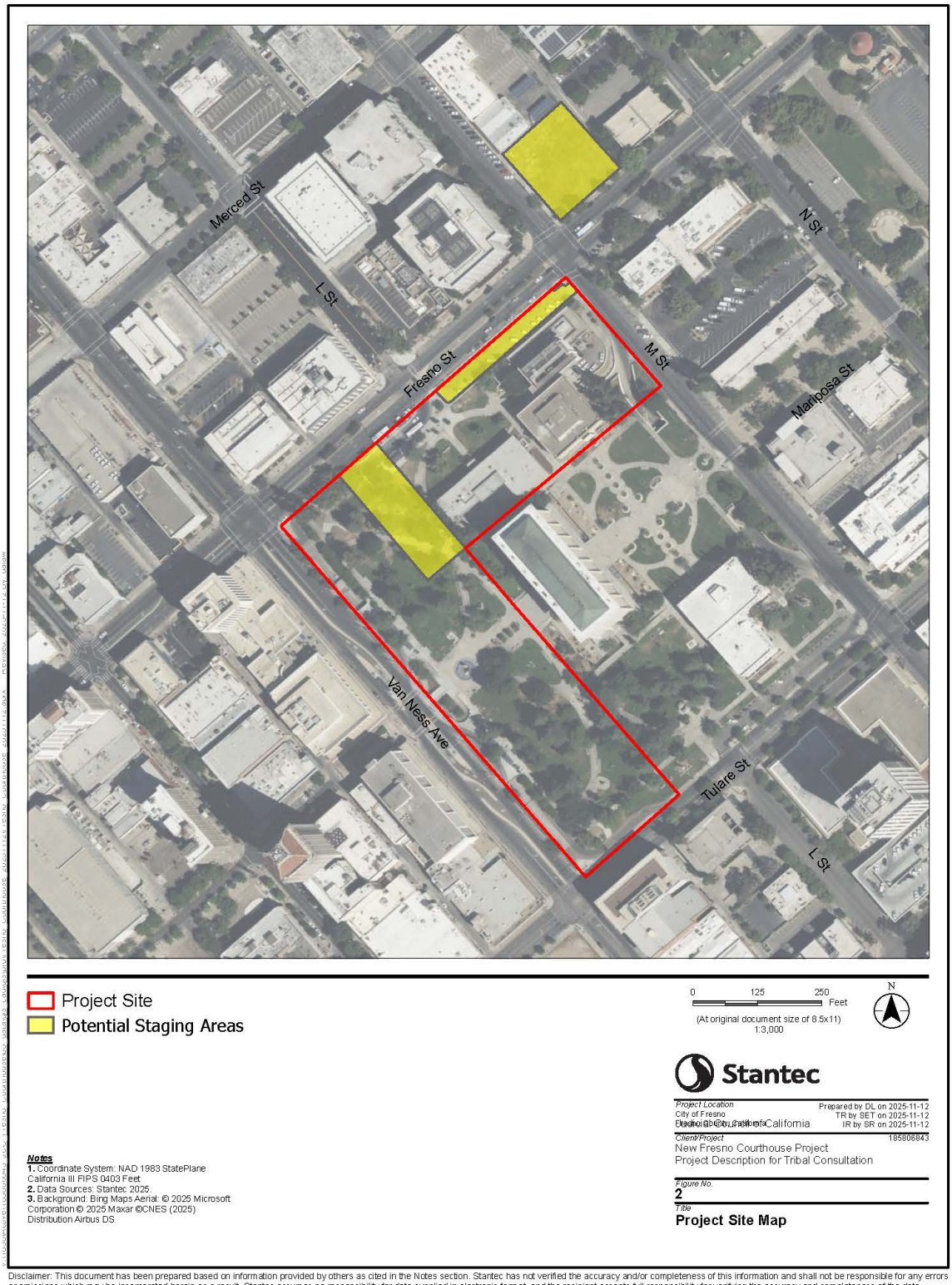

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Figure 2. Project Site Map.

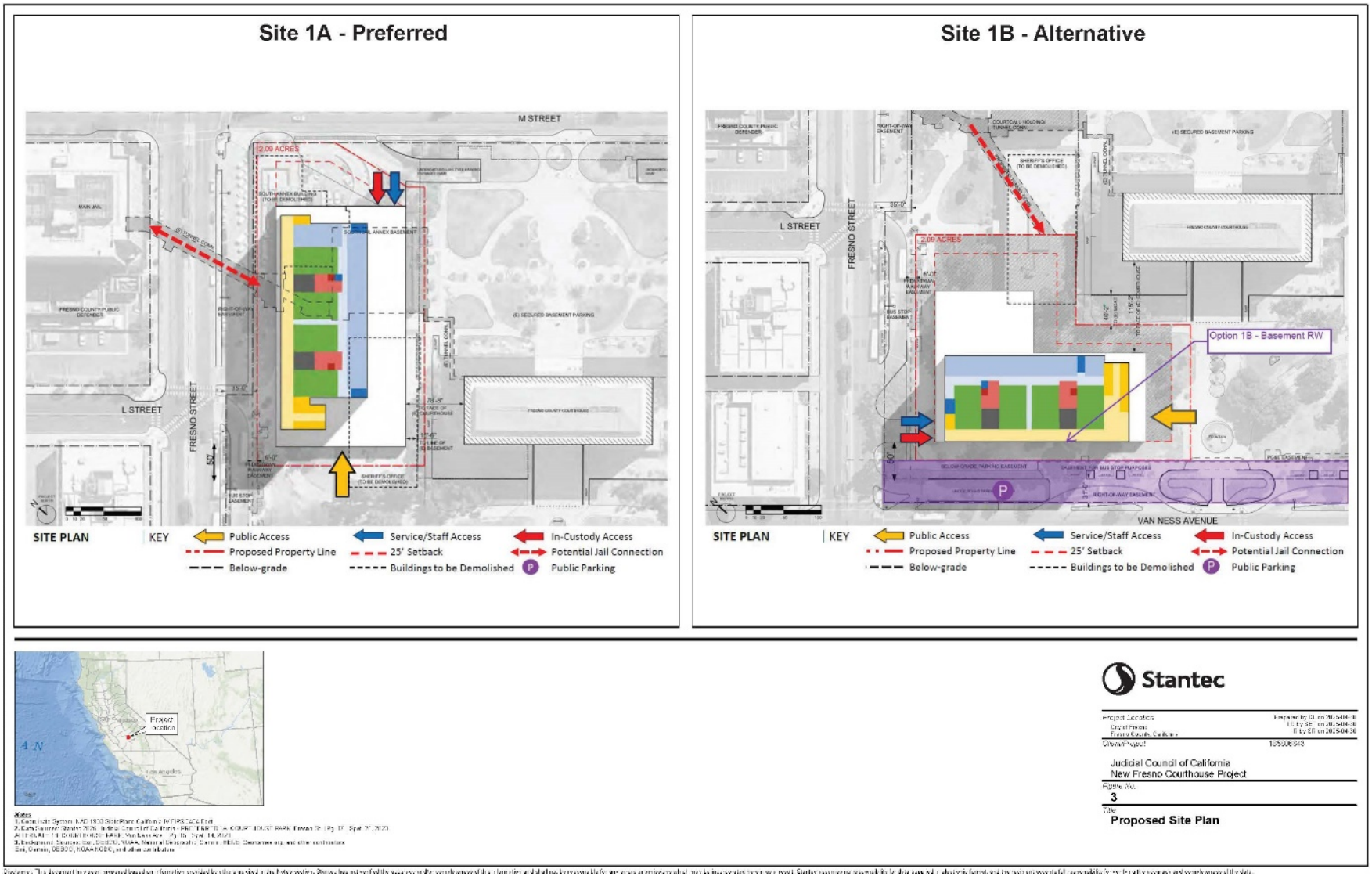

Figure 3. Proposed Site Plan.

1.5 Paleontological Resources

Fossils are evidence of ancient life, defined by the Society of Vertebrate Paleontology (SVP) (2025) as being over approximately 11,700 years in age, or Pleistocene and older. This includes the remains of the body of an organism, such as bones, skin impressions, shell, or leaves, as well as traces of an organism's activity, such as footprints or burrows, called trace fossils. Fossils can have scientific and educational value; however, if damaged, destroyed, or improperly collected, fossils can lose this value (Murphey et al. 2019).

CEQA does not define what constitutes a unique paleontological resource.In the absence of a legal definition, the Society of Vertebrate Paleontology (SVP) developed Best Practice Guidelines for Mitigation of Adverse Impacts on Paleontological Resources (SVP Guidelines 2025), which recommends five criteria for determining whether a paleontological resource is significant. "Fossils are considered scientifically significant if one or more of these five criteria are met (from Scott and Springer, 2003).

1. The Fossils provide data on the evolutionary relationships and developmental trends among organisms, both living and extinct.
2. The fossils provide data useful in determining the age(s) of the rock unit or sedimentary stratum, including data important in determining the depositional history of the region and the timing of geologic events therein.
3. he fossils provide data regarding the development of biological communities or interaction between paleobotanical and paleozoological biotas.
4. The fossils demonstrate unusual or spectacular circumstances in the history of life.
5. The fossils are in short supply and/or in danger of being depleted or destroyed by the elements, vandalism, or commercial exploitation, and are not found in other geographic locations.

(SVP Guidelines 2025, p. 8, Table 5.) Through these criteria, the paleontology profession has articulated science-based standards for determining whether a paleontological resource is scientifically significant. Because CEQA requires analysis of significant environmental effects, the Project's effects on insignificant paleontological resources do not need to be considered. The Judicial Council finds the SVP Guidelines 2025 articulates reasonable and science-based criteria for determining whether the Project may have a significant effect on paleontological resources. If the Project would destroy, directly or indirectly, a paleontological resource that meets the significance criteria stated above, it would have a significant effect on the environment. (*See* CEQA Guidelines, 14 Cal. Code of Regs. 15000, *et seq*., Appendix G, Section VII(f).)

1.5.1 Professional Standards

A variety of professional guidelines have been developed that outline protocols and practices for conducting mitigation paleontology. In particular, some studies have focused on establishing best practices for conducting mitigation paleontology, including resource assessments and surveys, monitoring and other forms of mitigation, and data and fossil recovery in a mitigation context, which differs from academic paleontology in the constraints of working on construction sites and schedules as well as the purpose of mitigation paleontology as a tool for regulatory compliance (Eisentraut and Cooper 2002; Murphey et al. 2019; Scott and Springer 2003; SVP 2025). A robust body of scientific literature also exists outlining best practices for paleontological data collection and management of fossils and fossil localities, some of which

is authored by agency representatives (Santucci and McClelland 2001 references therein; Santucci et al. 2009). This study conforms to these industry best practices.

2 Regulatory Framework

The Judicial Council, acting as the Judicial Branch of State government, is not subject to local land use regulations; however, the Judicial Council, as appropriate, considers local policies in evaluating whether the Project's impacts would be significant.

2.1 State of California

2.1.1 California Environmental Quality Act

CEQA requires that before approving most discretionary projects, the Lead Agency must identify and examine significant adverse environmental effects that may result from activities associated with such projects. CEQA separates the consideration of paleontological resources from cultural resources (PRC Section 21083.09). The CEQA Guidelines Appendix G initial study checklist includes the question, "Will the proposed project directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?"

3 Methodology

The paleontological resources assessment reported herein consisted of an analysis of existing data including museum collections data, geologic mapping, and the scientific literature. To assess whether paleontological resources are likely to be encountered in a given area, the paleontological potential of the geologic units present in the area is assessed. Paleontological potential is derived from the known fossil data collected from the geologic unit as a whole, not just from a specific survey or study. Paleontological potential of a geologic unit consists of both (a) the potential for yielding abundant vertebrate fossils or for yielding scientifically important fossils, whether large or small, vertebrate, invertebrate, plant, or trace fossils and (b) the importance of recovered evidence for new and scientifically important taxonomic, phylogenetic, paleoecologic, taphonomic, biochronologic, or stratigraphic data (SVP Guidelines 2025).

The paleontological assessment presented here was conducted by Senior Principal Paleontologist Alyssa Bell, Ph.D. with support from Paleontologist Joshua Broussard, M.S. Geographic Information System (GIS) maps were drafted by GIS Technician Danny Law, B.S. This report was authored by Mr. Broussard and reviewed by Paleontologist Joe Kobler, B.A., and Dr. Bell. Stantec's work in support of the Project was managed by Principal Environmental Planner StephAnnie Roberts, who coordinated Stantec's work and provided quality assurance and control.

3.1 Analysis of Existing Data

In order to assess the paleontological potential of the Project Site, geologic mapping was consulted to identify the geologic units present at the surface or likely present in the subsurface. Museum records enquiries were sent to the following museums in early December of 2025: the Natural History Museum of

Los Angeles County (NHMLA), University of California Museum of Paleontology (UCMP), San Jose State University (SJSU), Sierra College Natural History Museum (SCNHM), California State University-Chico (Chico State), California State University-Fresno (Fresno State), Stanford University (Stanford), Raymond M. Alf Museum of Paleontology (RAM), and the Buena Vista Museum of Natural History and Science (BVMNH).

As the majority of these museums did not provide relevant information (see Section 4.0, *Results*), the online databases of the UCMP, National Museum of Natural History of the Smithsonian (NMNH), and the American Museum of Natural History (AMNH) were searched for relevant records. Searches were conducted using both the names of formal geologic units in the Project Site as well as for localities listed without formal units attributed but from the appropriate geologic age. Online searches were restricted to Fresno County. The online databases searched do not provide specific geographic locations beyond the county the fossils were recovered from but do include locality names that can sometimes be used to infer the general area of the locality.

3.2 Paleontological Potential

The results of the analysis of existing data were used to assign the paleontological potential rankings of the SVP (2025) Fossil Prediction Map System (FPMS) to the geologic units likely present in the Project Site. The FPMS is a resource management tool based on the premise that the history of a geologic unit for preserving fossils can be used to predict the presence of fossils using geologic mapping. The FPMS scale is a six-tier system that ranges from very low (FPMS 1) to very high (FPMS 5) paleontological potential, also including a rank for unknown (U) paleontological potential, closely following the design of the Bureau of Land Management's (2022) Potential Fossil Yield Classification System (**Table 3**).

Table 1. Summary of the Society of Vertebrate Paleontology's (2025) Fossil Prediction Map System

FPMS Rank	Assignment Criteria	Management Summary
Very High (5)	Highly fossiliferous geologic units that consistently and predictably preserve scientifically significant fossils.	Management concern is very high. Typical actions include pre-construction field surveys, full-time monitoring, and collection or avoidance of scientifically significant resources.
High (4)	Highly fossiliferous geologic units that preserve scientifically significant fossils, but their concentrations vary and are less predictable than 5.	Management concern is high. Typical actions include pre-construction field surveys, full-time or part-time monitoring, and collection or avoidance of scientifically significant resources.
Moderate (3)	Fossiliferous geologic units that are often marine in origin and in which fossils may be common, but scientifically significant fossils are isolated or sparse.	Management concern is moderate. Typical actions may include pre-construction field surveys, full-time or part-time monitoring, based on the results of paleontological resources impact evaluations, and collection or avoidance of scientifically significant resources
Low (2)	Geologic units that are not likely to preserve fossils, including sedimentary deposits that are generally younger than 11,700 years before present, older sedimentary units that only rarely	Management concern is generally low. Actions such as surveys or monitoring are not typically recommended except in rare situations in which

FPMS Rank	Assignment Criteria	Management Summary
	preserve fossils, or units that exhibit diagenetic changes that make fossil preservation unlikely.	isolated scientifically significant fossils are known to be present in the study area.
Very Low (1)	Geologic units that are not likely to contain recognizable fossils including Precambrian units and units that are igneous or metamorphic, excluding air-fall and reworked volcanic ash.	Management concerns are very low. Impact mitigation is unlikely to be recommended except in rare circumstances.
Unknown (U)	Geologic units that cannot be assigned an informed rank. This includes units that have not been subject to prior field surveys but that contain lithologies or preserve depositional settings that are known to be conducive to fossil preservation, units that have not been published in the scientific literature, and units in which reports of fossils have not been verified.	Management concern is medium to high until a provisional designation is made. Actions usually include pre-construction field survey to collect data to assign a rank of 1 to 5, with additional action based on the assigned rank.

3.3 Paleontological Impacts Assessment

Following the assessment of paleontological potential, an impacts assessment was conducted comparing planned Project activities with mapped geologic units. Where potential adverse impacts from Project activities were identified, mitigation recommendations were developed to avoid or mitigate those impacts.

Impacts to paleontological resources can be classified as direct, indirect, or cumulative. Impacts can also be considered as adverse impacts or as beneficial impacts. Direct adverse impacts on paleontological resources result from destruction of these nonrenewable resources by surface disturbing actions including construction excavations. Therefore, in areas that contain paleontologically sensitive geologic units, ground disturbance has the potential to adversely impact significant paleontological resources by destroying them and rendering them permanently unavailable to science and society. Beneficial direct impacts, however, may result when paleontological resources are identified during construction and are appropriately documented and salvaged, thus ensuring the specimens are protected for future study and education.

Indirect impacts typically include those effects which result from the continuing implementation of management decisions and resulting activities, including normal ongoing operations of facilities constructed within a given Project Site. Human activities that increase erosion can also cause indirect impacts to surface and subsurface fossils as the result of exposure, transport, weathering, and reburial.

Cumulative adverse impacts can result from incrementally minor but collectively significant actions taking place over time. The incremental loss of significant paleontological resources over time from construction-related surface disturbance or vandalism and unlawful collection would represent a significant cumulative adverse impact, because it would result in the destruction of non-renewable paleontological resources and the associated irretrievable loss of scientific information.

The impact assessment conducted here takes into consideration planned Project activities in terms of aerial and subsurface extents, including the possibility of subsurface geologic units having a different paleontological potential than surficial units. For example, artificial fill is unlikely to preserve paleontological resources; yet may overly older units that have paleontological potential. In areas with this underlying

geologic setting surficial work may be of low risk for impacting paleontological resources while activities that require deeper excavations would be at greater risk of impacting paleontological resources. For this reason, the impact assessment takes into consideration both the surface and subsurface geology and is tailored to Project activities.

4 Results

4.1 Geologic Setting

The Project Site is located within the City of Fresno in the central portion of Fresno County within the San Joaquin Valley of California. The San Joaquin Valley lies within the Great Valley geomorphic province, an alluvial plain extending from the Tehachapi Mountains in the south to the Klamath Mountains in the north, a distance of about 450 miles. The San Joaquin Valley comprises two-thirds of the Great Valley, bound by the Sierra Nevada in the east, the Diablo and Temblor Ranges in the west, and the Tehachapi Mountains to the south (Galloway and Riley 1999). The San Joaquin Valley is primarily comprised of Cenozoic and Mesozoic sediments up to 5 miles thick, capped with younger Pleistocene- to Holocene-aged alluvial deposits. The San Joaquin Valley can be subdivided into five regions, of which the Project Site is in the southern Sierra block, which occupies the eastern side of the broad syncline that forms the Great Valley (Bartow 1991). The Sierra block captures sediments shed off the Sierra Nevada to the east, and as such consists of a series of alluvial fans that prograde into the valley (Weissmann et al. 2002). These sediments preserve continuous deposition from the last ice ages (Weissmann et al. 2002). These sediments are generally similar, being alluvial in nature and sourced from the Sierra Nevada, but can be distinguished on the basis of soil profile development, cross-cutting and fill relationships, topographic expression, and local lithological differences (Marchand and Allwardt 1981).

4.2 Museum Records Searches

Of the museums from which records were requested, the NHMLA, SJSU, Chico State, Fresno State, BVMNH, and Stanford indicated their collections do not focus on the Fresno area. The NHMLA and Fresno State indicated the UCMP collections did include relevant data. At the time of writing, the SCNHM, UCMP, and RAM have not replied to the original or follow up requests. If the Judicial Council receives additional data from these museums before approving the Project's CEQA reviewthe Judicial Council will evaluate that data. While there is a potential gap in data based on the lack of response from these museums, the available data and online resource supplements enable a reasonably complete analysis of the Project's potential significant impacts on paleontological resources.

The online databases of the UCMP (2025) and the NMNH (2025) returned records of specimens in Fresno County from relevant geologic units, while the AMNH (2025) returned no results in Fresno County. These results are summarized in **Table 4** below, with data shown limited by available data in the various databases. Results are discussed further for relevant geologic units in Section 4.3.

Table 2. Museum Database Search Results

Geologic Unit	NMNH	UCMP
Pleistocene-aged specimens from unattributed deposits	One locality preserving a bivalve specimen	Two localities preserving 167 specimens
Modesto Formation	None	Four localities preserving mammal, plant, and invertebrate specimens
Riverbank Formation	None	Two localities preserving mammal and plant specimens

4.3 Project Site Geology and Paleontology

Geologic mapping by Matthews and Burnett (1965) indicates the surface of the Project Site consists of the Modesto Formation, with exposures of the underlying Riverbank Formation at the surface within 0.5 miles of the Project Site (**Figure 4; Table 5**). These geologic units range in age from the late to the middle Pleistocene (approximately 13,000 to 450,000 years ago) and are described below.

Modesto Formation (Qf in Figure 4). The Modesto Formation is mapped across the footprint of the Project Site (Matthews and Burnett 1965). The Modesto Formation is the uppermost of the older alluvial units that comprise the top of the Great Valley sequence, dating from the late Pleistocene, approximately 12,000 to at least 42,000 years ago; however, the latter date is poorly constrained, and the unit may be older (Helley and Harwood 1985). The Modesto Formation was first named by Davis and Hall (1959) for young fluvial deposits in eastern Stanislaus and northern Merced Counties.

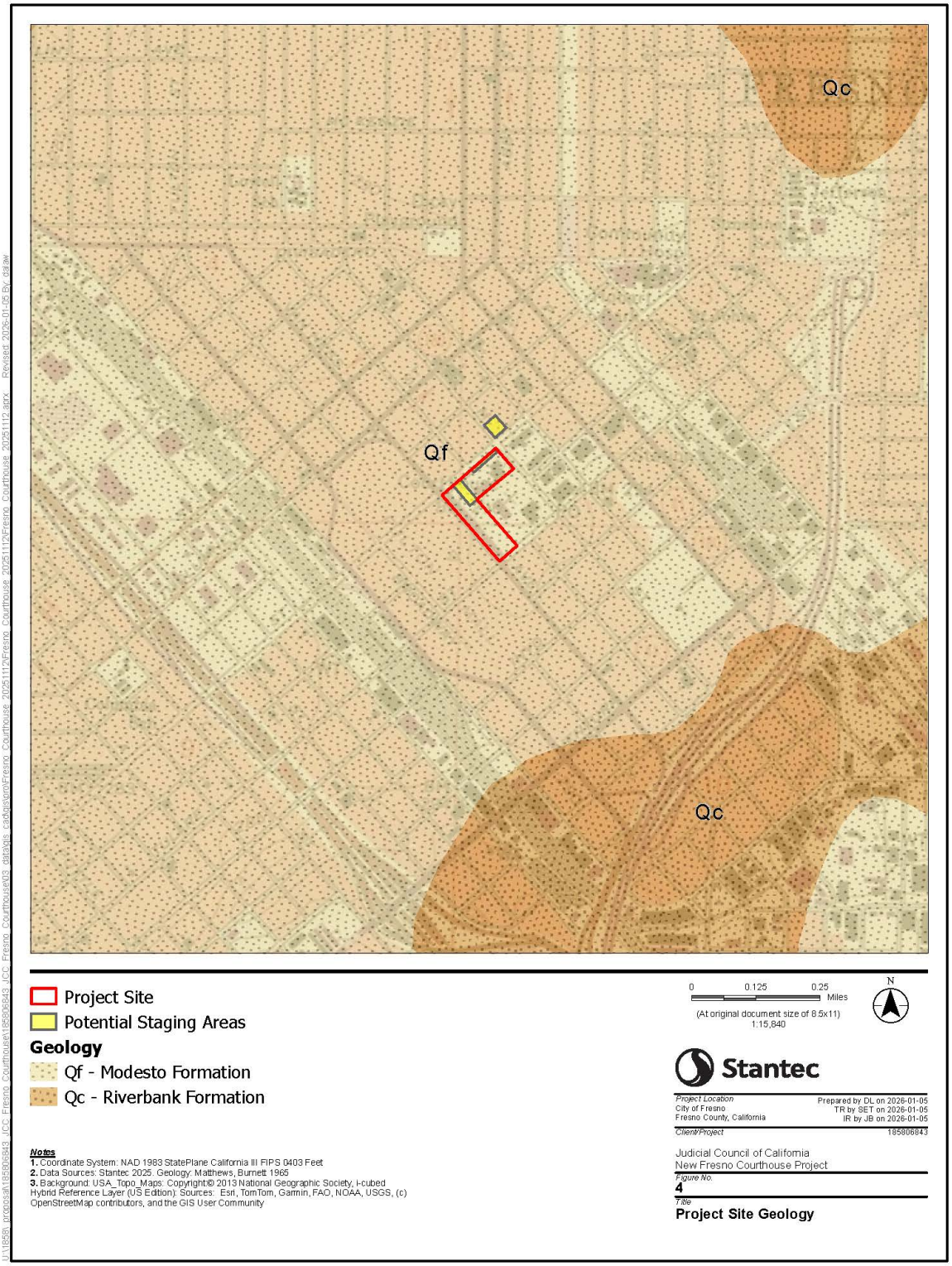

Figure 4. Project Site Geology.

Table 3. Paleontological Potential of Geologic Units in the Project Site.

Geologic Unit	Age (years)	Occurrence within Project Site	Paleontological Potential
Modesto Formation (Qf)	12,000 – 42,000	Surface across Project Site	High (FPMS 4)
Riverbank Formation (Qc)	130,000 – 450,000	Subsurface across Project Site	High (FPMS 4)

In the eastern San Joaquin Valley, the Modesto Formation is a series of coalescing alluvial fans of arkosic silt, sand, and gravels. Thickness of the formation varies greatly across its extent (Marchand and Allward 1981). Marchand and Allwardt (1981) separate the Modesto Formation into an upper and lower member. The lower member is primarily composed of buff to grey, fine- to medium-grained sand and locally derived detritus of andesitic and metamorphic material, with much of the lower portion comprised of well-stratified silt and fine sands. The upper member is primarily composed of cross-bedded, arkosic, light-brown, fine- to medium fine to medium sands and gravels, with more silt and fine sands present near the San Joaquin River (Marchand and Allwardt 1981). The lower member is thicker than the upper member by at least 25 meters in places, whereas the upper member rarely exceeds 10 meters thick (Marchand and Allward 1981). The Modesto Formation comprises several facies of river terraces, thin eolian dunes, and fan deposits across its extent (Marchand and Allward 1981). Previous mitigation work in the Modesto Formation in the vicinity of Fresno has documented sediments of the Modesto Formation consisting of interbedded, largely unconsolidated, and moderately to well sorted, buff colored, subangular to subrounded, moderately compacted fine- to coarse-grained sand (Paleo Solutions [2018], Cogstone Resource Management, Inc. [Cogstone] [2015, 2016] as cited in Caltrans 2020).

The Modesto Formation was deposited during the latest series of aggradational events in the eastern San Joaquin Valley (Marchand and Allwardt 1981). During interglacial erosion, sediments were carried from the foothills and deposited in the valley as series of alluvial fans and distinct terrace deposits along existing rivers such as the San Joaquin, Stanislaus, Chowchilla, and Fresno River (Helley and Harwood 1985; Marchand and Allwardt 1981). Fluvial streams later bisected these earlier fan and terrace deposits and deposited coarser stream channel sediments and terraces on top of the existing alluvial fans and terraces (Helley and Harwood 1985; Marchand and Allwardt 1981). The Modesto and underlying Riverbank Formations are noted by Marchand and Allwardt (1981) as lithologically similar, however the less erosionally modified alluvial fans and low terraces of the Modesto Formation differentiate it from the Riverbank Formation.

The online database of the UCMP (2025) contains four localities attributed to the Modesto Formation in Fresno County, two vertebrate localities, one plant locality, and one invertebrate locality. The specimens from these localities have not been catalogued in the available online data (UCMP 2025). One of these localities is listed as the Ashlan onramp, which may refer to the Ashlan Avenue onramp to either State Route 41, 99, or 168, in the City of Fresno. Location information is not provided for the other three localities. Additionally, the UCMP (2025) has records of two localities and 167 specimens from Pleistocene-aged localities not assigned to a formal geologic unit; these may be representative of the Modesto or Riverbank Formations. The majority of these localities preserved vertebrates, with four preserving invertebrate specimens (UCMP 2025). One of these localities, the Tranquillity locality is located southwest of Fresno in sediments recognized by Bishop and Chapman (1980) as the upper part of the Great Valley Sequence, which is contemporaneous with the Modesto Formation. The Tranquillity locality preserves a diverse

vertebrate fauna, including macrofauna such as mammoth, camel, deer, horse, and wolf, as well as microfauna such as several types of rodents, snakes, birds, and turtles (UCMP 2025; Angel 1966). The NMNH (2025) database did not contain records of localities attributed to the Modesto Formation but does contain records of one bivalve specimen from the Pleistocene-aged sediments in Fresno County. The online database of the AMNH (2025) did not have records of localities attributed to the Modesto Formation in Fresno County.

A review of the scientific literature and paleontological mitigation reports reveal additional scientifically significant Pleistocene-aged fossils have been documented from localities attributed to the Modesto Formation within the region. Nearby projects along SR 99 in areas mapped as the Modesto Formation, including the SR 99 Plainsburg Road/Arboleda Drive Freeway Project in Merced County (PaleoResource Consultants 2017; Cogstone 2012; Haasl et al. 2015) and the South Stockton Six-Lane Project in San Joaquin County (Haasl and Fisk 2017) encountered hundreds of fossils from Pleistocene megafauna. Specimens recovered included Columbian mammoth, giant ground sloth, American llama, ancient bison, dire wolf, and cougar, along with smaller mammals, birds, and reptiles (Caltrans 2020). Monitoring of construction for the SR 99 Plainsburg Road/Arboleda Drive Freeway Project along SR 99 in Merced County by Cogstone (2012) documented 128 localities preserving 1,667 specimens in the lower and upper Modesto Formation. The localities produced a variety of Pleistocene taxa, including mammoths, camels, bison, deer, horses, cougars, dire wolves, coyotes, giant ground sloths, birds, rabbit, rats, voles, mice, rattlesnakes, frogs, turtles, and lizards (Cogstone 2012). Later monitoring along SR 99 in Merced County by PaleoResources Consultants (2017) documented ten localities in the Modesto Formation preserving horse, camel, giant ground sloth, bison, rabbit, lizard, and rodent remains.

Given the documentation of scientifically significant and diverse Pleistocene taxa from the Modesto Formation in the Great Valley, this unit is assessed as having high (FPMS 4) paleontological potential.

Riverbank Formation (Qc in Figure 4). The Riverbank Formation is mapped approximately 0.5 miles southeast of the Project Site (Matthews and Burnett 1965). The Riverbank Formation underlies the Modesto Formation and is likely present beneath the Project Site at unknown depths. These deposits are much older than the Modesto Formation, dating from 130,000 to 450,000 years ago (Helley and Harwood 1985). The Riverbank Formation was first named by Davis and Hall (1959) for fluvial deposits in eastern Stanislaus and northern Merced Counties. In the eastern San Joaquin Valley, the Riverbank Formation is a series of coalescing alluvial fans of arkosic sand and scattered pebbles with gravel lenses, and some interbedded silt and fine sands (Marchand and Allward 1981). Sediments are derived from the nearby Sierran granitic plutons through glacial and interglacial weathering processes (Haasl and Fisk 2017). Thickness of the formation varies greatly across its extent, with the thickness increasing towards river channels and basinward (Marchand and Allward 1981). Marchand and Allwardt (1981) separate the Riverbank Formation into an upper, middle, and lower unit from observations at the type locality on the Stanislaus River near Riverbank, exposures near Fresno, and in the Sacramento Valley. The lower member is described as an older, eroded alluvial surface and is primarily composed of buff to grey, well-stratified, silt, fine- to medium-grained sands with gravel lenses. The middle member is described as a thin, broad alluvial surface representing a single aggradational unit (Marchand and Allward 1981). It is composed of yellowish-brown to dark-brown sandy loam and sandy clay loam coarsening upwards into buff to light-brown coarse-grained sands with pebbles (Marchand and Allward 1981). The upper member represents a single aggradational unit that dissects older fans towards the east and spreads out over lower and middle Riverbank Formation

fans further westward into the valley (Marchand and Allward 1981). It is composed of grayish-brown, well-stratified gray silt and very fine-grained sands to reddish-brown coarse-grained sand with pebbles (Marchand and Allward 1981). Previous mitigation work in the Riverbank Formation in the vicinity of Fresno have documented sediments of gray to reddish-brown, moderately to well sorted, subangular to rounded, poorly to moderately compacted clay, silt, and very fine- to medium grained sand, with sedimentary structures including planar laminations, ripples, channels, and bioturbation (Paleo Solutions [2018], Cogstone [2015, 2016] as cited in Caltrans 2020). The Riverbank Formation represents an older aggradational fan sequence of material eroded from the surrounding Sierra Nevada mountains. These fans were later dissected by streams which created terrace deposits that are topographically higher than the younger terraces of the Modesto Formation (Marchand and Allward 1981).

The online database of the UCMP (2025) contains two localities attributed to the Riverbank Formation in Fresno County, which preserve mammal and plant fossils, the specimens from which are not catalogued. The NMNH (2025) database did not contain records of localities attributed to the Riverbank Formation but the bivalve locality discussed above may be from either the Riverbank or Modesto Formations.

A review of the scientific literature and paleontological mitigation reports shows a diverse and scientifically important fossil fauna has been recovered from the Riverbank Formation. Some of the same projects along SR 99 which encountered the Modesto Formation, also recovered fossils from the Riverbank Formation. Specimens recovered include Columbian mammoth, camel, horse, pronghorn, and rabbit (Haasl et al. 2015; PaleoResource Consultants 2017). During monitoring of construction along SR 180 West in Fresno, California, Fresno State staff recovered partial mammoth tusks, molars, pelvic fragments, and rib remains in the Riverbank Formation approximately four miles west of the Project Site (Dundas et al. 2009). Further out, work at the Fairmead Landfill in Madera County has documented a diverse vertebrate fauna dominated by large mammals, including two types of sloth, saber-toothed cat, two types of wolf, camel, several types of pronghorn, and deer, as well as some microfauna like rodents (Dundas et al. 1996; Dundas and Blades 1999). Additionally, fossils including Harlan's ground sloth, bison, horse, camel, squirrel, and mammoth, and plants were discovered in the Riverbank Formation during the construction of the ARCO Arena in Sacramento, California (Hilton et al. 2000; Caltrans 2020).

Given the documentation of significant and diverse Pleistocene taxa from the Riverbank Formation in the Great Valley, this unit is assessed as having high (FPMS 4) paleontological potential.

4.4 Potential Impacts to Paleontological Resources from Project Activities

The Project plans to demolish existing facilities and construct a new courthouse. This will entail ground disturbance consisting of the following:

- Demolition of existing structures, parking areas, hardscape, and landscaping.
- Earthwork cut and fill to prepare a new building pad; cut and fill depths are unknown at this time.
- Construction of a 413,000-square-foot, eleven-story courthouse building with basement parking level.
- Underground utilities and other infrastructure improvements.
- Bioretention and landscape areas.

Of these activities, those that involve ground disturbance into the Modesto and Riverbank Formations may encounter fossils. As the Project is in a developed, urban setting, there may be previously disturbed sediments or artificial fill underlying the Project Site; however, at this time geotechnical data is not available to address this aspect of the subsurface of the Project Site. The depth of the proposed Project activities is not established at this time, and so identifying which activities will exceed the depth of artificial fill or previous disturbance at the Project Site and extend into the Modesto Formation (and perhaps subsequently the Riverbank Formation) cannot be specified at this time. In general, activities limited to the shallow subsurface, like landscaping, are unlikely to encounter undisturbed sensitive units. More substantial excavations, such as for the underground parking, are more likely to encounter sensitive units, depending on the presence and depth of previous disturbance.

Should fossils with scientific significance that can be considered unique paleontological resources be encountered during construction, their destruction would constitute a direct adverse impact. It is not anticipated that the Project will pose indirect adverse impacts to paleontological resources, as the final Project will not entail increased exposure or erosion of native sediments beyond the duration of the ground disturbance described above. Should direct impacts occur, they would contribute to cumulative impacts in the region, such as the collective loss of nonrenewable paleontological resources across the region over time.

5 Recommendations and Management Considerations

A successful mitigation program is one which provides for the identification and appropriate treatment of unique paleontological resources. Important components include worker training, so the construction personnel can assist with identifying potential unique paleontological resources and take action in the event they discover a fossil; and monitoring of ground disturbing activities in areas of potential impact by trained paleontologists. Paleontological monitoring is the most common mitigation tool, during which a trained Paleontological Technician, under the supervision of the Paleontological Principal Investigator, observes construction activities and halts construction temporarily to inspect the exposed sediments. Monitoring by experienced paleontologists greatly increases the probability that fossils will be identified during ground-disturbing activities and that, if they are scientifically significant, successful mitigation and salvage efforts will prevent adverse impacts to these resources.

The ability to apply mitigation is tied to the nature of the ground disturbing activity. Construction monitoring requires a Paleontological Technician to be able to observe either cuts into the ground, such as the sidewalls of trenches or a graded ground surface, or to observe spoils piles, such as from drilling or trenching. As the methods of ground disturbance planned for this Project produce cuts, spoils, or, in some cases, both, they are ideal targets of paleontological monitoring as a successful means of reducing potential impacts on paleontological resources to a less-than-significant level.

The depth at which monitoring should be implemented depends on the presence of artificial fill or previously disturbed sediments. Spot checks by a Paleontological Technician are appropriate in the absence of geotechnical data to establish the depth of previous disturbance or the thickness of artificial fill. Once this has been established, through either spot checks or geotechnical data, fulltime paleontological monitoring

should be implemented when ground disturbing activities exceed the depth of fill or previous disturbance and work is occurring in the Modesto or Riverbank Formations.

Therefore, Stantec recommends a qualified paleontologist meeting SVP (2025) standards as a Paleontological Principal Investigator be retained to oversee a paleontological mitigation program. Stantec recommends the following mitigation activities for the Project, as part of the mitigation program:

- The Paleontological Principal Investigator should develop and oversee the implementation of a Paleontological Mitigation Plan tailored to the Project plans that provides for paleontological monitoring of earthwork and ground disturbing activities into undisturbed geologic units with high (FPMS 4) paleontological potential to be conducted by a Paleontological Technician meeting industry standards (SVP 2025). This plan should include provisions for worker training, depths and locations for monitoring, monitoring procedures, a fossil discovery plan in the event a fossil is found during construction, including a plan for assessment and treatment, and requirements for final reporting of the results of the mitigation program.
- The Paleontological Principal Investigator should develop a Worker's Environmental Awareness Program training that communicates requirements and procedures for the discovery of fossils during construction, to be delivered by the Paleontological Technician to the construction crew prior to the onset of ground disturbance.
- Fulltime paleontological monitoring should be implemented once excavations exceed the depth of previously disturbed sediments or artificial fill across the Project Site. Spot check monitoring may be conducted initially, until the depth of previous disturbance is known. The Paleontological Principal Investigator may alter the frequency or depth of monitoring based on subsurface conditions.
- In the event that fossils are encountered during construction activities, work should stop in a safe radius of the finds, usually 100 feet, while the Paleontological Technician documents the fossils. The Paleontological Principal Investigator shall assess the fossils. Should the fossils meet criteria of scientific significance to be considered a unique paleontological resource, they should be collected and curated in an accredited repository along with associated data and curation fees.

Based on the findings in this study and the implementation of the above mitigation recommendations, the proposed Project should not cause an adverse impact to paleontological resources. Changes to the Project plans or Project Site from those assessed in this study may require additional assessment for impacts to paleontological resources.

6 Summary

Stantec conducted an analysis of existing data to assess the paleontological potential of the geologic units in the Project Site, both in the surface and in the subsurface, followed by a review of Project plans and an impacts assessment to identify potential impacts to paleontological resources from Project activities. This study identified two geologic units with high (FPMS 4) paleontological potential in the Project Site, the Modesto Formation and the underlying Riverbank Formation. Project activities that involve ground disturbance that exceeds the depth of artificial fill or previous disturbance may encounter unique

paleontological resources in these units. If this occurs, the destruction of those resources would constitute a direct adverse impact. Therefore, Stantec has developed recommendations for the development and implementation of a paleontological mitigation program by a qualified Paleontological Principal Investigator (as defined by the SVP [2025]).

7 References

American Museum of Natural History (AMNH). 2025. Search of online collections database. Available at https://emu-prod.amnh.org/imulive/paleo/paleontology.html. Accessed on December 15, 2025.

Angel, J. 1966. "Early skeletons from Tranquillity, California." *Smithsonian Contributions to Anthropology* Volume 2, 32 pp.

Bartow, J. Alan. 1991. *The Cenozoic Evolution of the San Joaquin Valley, California.* U.S. Geological Survey Professional Paper 1501.

Bishop, C.C., and R. Chapman. 1980. *Geologic Map of California, Santa Cruz Sheet*. California Geological Survey, Bouguer Gravity Map of California BGA-20. Scale 1:250,000.

Bureau of Land Management (BLM). 2022. *Potential Fossil Yield Classification (PFYC) System for Paleontological Resources on Public Lands*. Permanent Instruction Memorandum No. 2022-009.

California Department of Transportation (Caltrans). 2020. *Paleontological Evaluation Report and Preliminary Mitigation Measures El Dorado to Clinton Avenue Rehabilitation Project Post Miles 21.2 to 24.4, Fresno County, California.* Fresno, CA. Prepared for California Department of Transportation, Southern San Joaquin Valley Engineering, Hazardous Waste, and Paleontological Branch, District 6. 68 Pp.

California State University, Chico (Chico State). 2025. Paleontological locality records search inquiry. Email response received December 12, 2025.

City of Fresno. 2014. *General Plan*. Available online at https://www.fresno.gov/planning/general-plan-development-code/#general-plan. Accessed on January 12, 2026.

Cogstone Resource Management, Inc. (Cogstone). 2012. *Paleontological Monitoring Report for the Arboleda Drive Freeway Project, State Route 99, Merced County, California*. 10-MER-99 (PM 4.6/10.5; KP 7.4/16.9) EA 10-415701. Report prepared for California Department of Transportation, District 6. 149 Pp.

----------. 2015. *Paleontological Monitoring Report for the Olive Avenue at State Route 99 Traffic Signal and Ramp Metering Project, Fresno County, California*. 06-FRE-99 (PM 23.4); EA 06-012700. Report prepared for California Department of Transportation, District 6. 76 Pp.

----------. 2016. *Paleontological Monitoring Report for Construction Phase I of the State Route 99 Realignment for the High Speed Train in Fresno, Fresno County, California*. 06-FRE-99 (PM 23.5/26.6); EA 06-2HT101; Contract 06Al 786. Report prepared for California Department of Transportation, District 6.

County of Fresno. 2024. *General Plan.* Accessed online at https://www.fresnocountyca.gov/files/sharedassets/county/v/1/public-works-and-planning/development-services/planning-and-land-use/general-plan/fcgpr_general-plan_county_final_2024_02.pdf . Accessed on December 18, 2025.

Davis, G.H., and F.R. Hall. 1959. “Water quality of eastern Stanislaus and northern Merced counties, California.” *Stanford University Publications, Geological Sciences* 6(1): 1-56.

Dundas R., R. Smith, K. Verosub. 1996. “The Fairmead Landfill Locality (Pleistocene, Irvingtonian), Madera County, California: preliminary report and significance.” *PaleoBios* 17 (2–4): 50-58.

Dundas, R. and D. Blades. 1999. “The Fairmead Landfill Locality (Pleistocene, Irvingtonian), Madera County, California.” *Geological Society of America, Abstracts with Programs* 31 (7): 465.

Eisentraut, P.J., and J.D. Cooper. 2002. *Development of a Model Curation Program for Orange County’s Archaeological and Paleontological Collections–Final Report*. Submitted to the County of Orange.

Galloway, D., and F. Riley. 1999. “San Joaquin Valley, California.” In: *Land Subsidence in the United States.* United States Geological Survey Circular 1182: 23-34.

Haasl, D. M. and L.H. Fisk. 2017. *Paleontological Mitigation Report for the South Stockton Six-Lane Project in San Joaquin County, California*.

Haasl, D. M., H.M. Wagner, and L.H. Fisk. 2015. *Paleontological Mitigation Report for the State Route 99 Arboleda Drive Freeway Project, Merced County, California*. Fresno: Central Region Hazardous Waste and Paleontology Branch, California Department of Transportation, District 6.

Hilton, R.P., D.C. Dailey, and H.G. McDonald. 2000. “A late Pleistocene biota from the ARCO Arena site, Sacramento, California.” *PaleoBios* 20 (1): 7-12.

Helley, E. and D. Harwood. 1985. *Geologic Map of Late Cenozoic Deposits of the Sacramento Valley and Northern Sierran Foothills, California*. US Geological Survey Miscellaneous Field Studies Map MF-1790. Scale 1:62,500.

Marchand, D. and A. Allwardt. 1981. *Late Cenozoic Stratigraphic Units, Northeastern San Joaquin Valley, California*. United States Geological Survey Bulletin 1470. Washington D.C. 77 Pp.

Matthews, R.A., and Burnett, J.L. 1965. *Geologic Map of California, Fresno Sheet.* California Division of Mines and Geology. Scale 1:250,000.

Murphey, P., G. Knauss, L. Fisk, T. Demere, and R. Reynolds. 2019. “Best practices in mitigation paleontology.” *Proceedings of the San Diego Society of Natural History* 47: 43.

National Museum of Natural History (NMNH). 2025. Search of online collections database. Available at https://collections.nmnh.si.edu/search/paleo/. Accessed on December 15, 2025.

Natural History Museum of Los Angeles County (NHMLA). 2025. Paleontological locality records search letter. Email response received December 21, 2025.

Nilsen, T. 1990. “Santonian, Campanian, and Maastrichtian depositional systems, Sacramento Basin, California.” *In* Ingersoll, R. and T. Nilsen, eds. *Sacramento Valley Symposium and Guidebook*. Pacific Section SEPM 65: 95-132.

Orme, D.A., S.A. Graham, R.V. Ingersoll, and T.F. Lawton. 2018. “Four-dimensional model of Cretaceous depositional geometry and sediment flux in the northern Great Valley forearc, California.” In *Tectonics, Sedimentary Basins, and Provenance: A Celebration of the Career of William R. Dickinson*. Geological Society of America, pp. 409-424.

PaleoResource Consultants. 2017. *Paleontological Mitigation Report for the Plainsburg at State Route 99 Project, Merced County, California. 10-MER-99 (PM 0.0-5.1)*. Prepared for California Department of Transportation, Southern San Joaquin Valley Engineering, Hazardous Waste, and Paleontological Branch, District 6.

Paleo Solutions, Inc. 2018. *Paleontological Mitigation Report for the Southbound State Route 99 Ramp Metering Project, Fresno County, California*. 06-FRE-99 (PM 22.7/28.1); EA 06-0K2904; Contract 06A2126, TO-64, Report prepared for California Department of Transportation, District 6.

San Jose State University Geology Department (SJSU). 2025. Paleontological locality records search inquiry. Email response received December 18, 2025.

Santucci, V., J. Kenworthy, and A. Mims. 2009. “Monitoring *in situ* paleontological resources.” In Young, R., and Norby, L., eds. *Geological Monitoring.* Geological Society of America, p. 189–204.

Santucci, V. and L. McClelland. 2001. *Proceedings of the 6th Fossil Resource Conference*. Geological Resources Division Technical Report NPS/NRGRD/GRDTR-01/01. National Park Service. 224 pp.

Scott, E., and K. Springer. 2003. “CEQA and fossil preservation in southern California.” *The Environmental Monitor* 4-10.

Society of Vertebrate Paleontology (SVP). 2025. *Best Practice Guidelines for Mitigation of Adverse Impacts on Paleontological Resources (First edition: Released in October 2025)*. Available at: SVP_Mitigation_Paleontology_Best_Practices_First_edition_October_2025.pdf Accessed on October 30, 2025.

University of California Museum of Paleontology (UCMP). 2025. Review of the online collections database. Accessed at https://ucmpdb.berkeley.edu/. Search conducted on December 15, 2025.

Weissmann, Gary S., Jeffrey F. Mount, and Graham E. Fogg. 2002, "Glacially driven cycles in accumulation space and sequence stratigraphy of a stream-dominated alluvial fan, San Joaquin Valley, California, USA." *Journal of Sedimentary Research* 72:2, 240-251.