# Appendix C Air Quality and GHG Emissions Analysis

# Jesuit High School Stadium Lighting 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, Unmitigated
- 3. Construction Emissions Details
  - 3.1. Building Construction (2023) Unmitigated
- 4. Operations Emissions Details
  - 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
  - 5.1. Construction Schedule
  - 5.2. Off-Road Equipment
    - 5.2.1. Unmitigated
  - 5.3. Construction Vehicles
    - 5.3.1. Unmitigated
  - 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
  - 5.18. 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

# 1. Basic Project Information

# 1.1. Basic Project Information

Data Field	Value
Project Name	Jesuit High School Stadium Lighting
Construction Start Date	7/5/2023
Lead Agency	_
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.70
Precipitation (days)	35.4
Location	1200 Jacob Ln, Carmichael, CA 95608, USA
County	Sacramento
City	Unincorporated
Air District	Sacramento Metropolitan AQMD
Air Basin	Sacramento Valley
TAZ	649
EDFZ	13
Electric Utility	Sacramento Municipal Utility District
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.13

# 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
User Defined Recreational	1.00	User Defined Unit	20.0	0.00	0.00	_	_	_

## 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

# 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	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	1.06	0.85	8.98	10.4	0.02	0.35	0.34	0.69	0.32	0.08	0.41	_	2,604	2,604	0.13	0.11	2.21	2,642
Average Daily (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	0.03	0.02	0.25	0.27	< 0.005	0.01	0.01	0.02	0.01	< 0.005	0.01	_	70.7	70.7	< 0.005	< 0.005	0.03	71.8
Annual (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	0.01	< 0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	11.7	11.7	< 0.005	< 0.005	< 0.005	11.9

## 2.2. Construction Emissions by Year, Unmitigated

Year	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2023	1.06	0.85	8.98	10.4	0.02	0.35	0.34	0.69	0.32	0.08	0.41	_	2,604	2,604	0.13	0.11	2.21	2,642
Daily - Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_		_	_

Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2023	0.03	0.02	0.25	0.27	< 0.005	0.01	0.01	0.02	0.01	< 0.005	0.01	_	70.7	70.7	< 0.005	< 0.005	0.03	71.8
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2023	0.01	< 0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	11.7	11.7	< 0.005	< 0.005	< 0.005	11.9

# 3. Construction Emissions Details

## 3.1. Building Construction (2023) - Unmitigated

		(,	,	.,, , .					· · · · · · · · · · · · · · · ·		,							
Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.74	7.84	8.57	0.02	0.34	_	0.34	0.31	_	0.31	_	1,816	1,816	0.07	0.01	_	1,822
Dust From Material Movemen	<del>-</del>	_	_	_	_	_	< 0.005	< 0.005	_	< 0.005	< 0.005	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	_	_	_	_	_	-	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily		_	_	_	_	_	_			_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.02	0.21	0.23	< 0.005	0.01	_	0.01	0.01	_	0.01	_	49.8	49.8	< 0.005	< 0.005	_	49.9

Dust From Material Movemen		_	_	_	_	_	< 0.005	< 0.005	_	< 0.005	< 0.005	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		< 0.005	0.04	0.04	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	8.24	8.24	< 0.005	< 0.005	_	8.27
Dust From Material Movemen	_	_	_	_	_	_	< 0.005	< 0.005	_	< 0.005	< 0.005	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_
Worker	0.11	0.09	0.07	1.40	0.00	0.00	0.20	0.20	0.00	0.05	0.05	_	236	236	0.01	0.01	1.03	240
Vendor	0.01	0.01	0.24	0.08	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	_	120	120	0.01	0.02	0.30	126
Hauling	0.06	0.01	0.83	0.30	0.01	0.01	0.11	0.11	0.01	0.03	0.04	_	432	432	0.04	0.07	0.88	454
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	5.88	5.88	< 0.005	< 0.005	0.01	5.97
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	3.29	3.29	< 0.005	< 0.005	< 0.005	3.44
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	11.8	11.8	< 0.005	< 0.005	0.01	12.4
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	0.97	0.97	< 0.005	< 0.005	< 0.005	0.99
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	0.54	0.54	< 0.005	< 0.005	< 0.005	0.57

7 / 19

Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	1.96	1.96	< 0.005	< 0.005	< 0.005	2.06

# 4. Operations Emissions Details

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)

Vegetatio n	TOG	ROG	NOx	со	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

Land Use	TOG	ROG	NOx	со	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

Species	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_		_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

# 5. Activity Data

#### 5.1. Construction Schedule

Phase N	Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Installat	tion	Building Construction	7/5/2023	7/19/2023	5.00	10.0	_

# 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
Installation	Cranes	Diesel	Average	1.00	8.00	367	0.29
Installation	Bore/Drill Rigs	Diesel	Average	1.00	8.00	83.0	0.50
Installation	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20

Installation	Tractors/Loaders/Backh	DIESEI	Average	1.00	8.00	84.0	0.37

#### 5.3. Construction Vehicles

#### 5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Installation	_	_	_	_
Installation	Worker	20.0	14.3	LDA,LDT1,LDT2
Installation	Vendor	4.00	8.80	HHDT,MHDT
Installation	Hauling	5.60	20.0	HHDT
Installation	Onsite truck	_	_	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	Residential Exterior Area Coated	Non-Residential Interior Area	Non-Residential Exterior Area	Parking Area Coated (sq ft)
	(sq ft)	(sq ft)	Coated (sq ft)	Coated (sq ft)	

#### 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 (sq. ft.)	Acres Paved (acres)
Installation	_	444	0.00	0.00	_

## 5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

#### 5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
User Defined Recreational	0.00	0%

## 5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2023	0.00	375	0.01	< 0.005

- 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
regetation Land Goo Type	regeration con type		

- 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)
The second secon			

# 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	20.7	annual days of extreme heat
Extreme Precipitation	6.00	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	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 (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth 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 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

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	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A

Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	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	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	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 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
14	/ 19
Jesuit High School Stadium Lighting C-	14 PLNP2021-00262

Exposure Indicators	_
AQ-Ozone	55.4
AQ-PM	40.7
AQ-DPM	44.0
Drinking Water	74.3
Lead Risk Housing	29.3
Pesticides	0.00
Toxic Releases	25.7
Traffic	19.5
Effect Indicators	_
CleanUp Sites	0.00
Groundwater	59.6
Haz Waste Facilities/Generators	16.6
Impaired Water Bodies	66.7
Solid Waste	0.00
Sensitive Population	_
Asthma	47.9
Cardio-vascular	28.6
Low Birth Weights	96.6
Socioeconomic Factor Indicators	_
Education	3.11
Housing	2.99
Linguistic	1.81
Poverty	4.57
Unemployment	7.77

# 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	92.39060695
Employed	37.66200436
Median HI	91.10740408
Education	_
Bachelor's or higher	93.58398563
High school enrollment	100
Preschool enrollment	66.32875658
Transportation	_
Auto Access	62.47914795
Active commuting	42.96163223
Social	_
2-parent households	80.03336327
Voting	99.0632619
Neighborhood	_
Alcohol availability	82.26613628
Park access	53.98434492
Retail density	42.93596818
Supermarket access	34.63364558
Tree canopy	94.94418067
Housing	
Homeownership	89.69588092
Housing habitability	85.24316694
Low-inc homeowner severe housing cost burden	32.27255229
Low-inc renter severe housing cost burden	73.36070833
Uncrowded housing	89.4649044
16	7/19

Health Outcomes	_
Insured adults	86.94982677
Arthritis	0.0
Asthma ER Admissions	50.9
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	46.6
Cognitively Disabled	70.6
Physically Disabled	57.4
Heart Attack ER Admissions	74.8
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	62.1
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	_
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	_
Wildfire Risk	0.0
SLR Inundation Area	0.0

Children	95.4
Elderly	4.7
English Speaking	94.5
Foreign-born	6.9
Outdoor Workers	98.2
Climate Change Adaptive Capacity	_
Impervious Surface Cover	80.6
Traffic Density	48.9
Traffic Access	23.0
Other Indices	_
Hardship	6.9
Other Decision Support	
2016 Voting	95.7

#### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	21.0
Healthy Places Index Score for Project Location (b)	90.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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.

#### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

#### 7.5. Evaluation Scorecard

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.

Health & Equity Evaluation Scorecard not completed.

# 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

# 8. User Changes to Default Data

Screen	Justification
Land Use	Project-specific lot acreage.
Construction: Construction Phases	Project-specific schedule.
Construction: Off-Road Equipment	Project-specific equipment.
Construction: On-Road Fugitive Dust	Project-specific paved percentages.
Construction: Trips and VMT	Project-specific worker and vendor.
Construction: Dust From Material Movement	Project-specific materials exported.

# Jesuit High School Stadium Lighting Operations 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
  - 2.4. Operations Emissions Compared Against Thresholds
  - 2.5. 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

- 4.3.2. Unmitigated
- 4.4. Water Emissions by Land Use
  - 4.4.2. Unmitigated
- 4.5. Waste Emissions by Land Use
  - 4.5.2. 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
      - 5.10.1.1. Unmitigated
    - 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

# 1. Basic Project Information

# 1.1. Basic Project Information

Data Field	Value
Project Name	Jesuit High School Stadium Lighting Operations
Operational Year	2023
Lead Agency	_
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.70
Precipitation (days)	35.4
Location	1200 Jacob Ln, Carmichael, CA 95608, USA
County	Sacramento
City	Unincorporated
Air District	Sacramento Metropolitan AQMD
Air Basin	Sacramento Valley
TAZ	649
EDFZ	13
Electric Utility	Sacramento Municipal Utility District
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.13

# 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
User Defined Recreational	1.00	User Defined Unit	20.0	0.00	0.00	_	_	_

#### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

# 2. Emissions Summary

## 2.4. 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	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	0.66	0.63	0.33	6.76	0.01	0.01	0.48	0.48	0.01	0.08	0.09	0.00	1,374	1,374	0.05	0.04	6.12	1,392
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	0.60	0.56	0.42	5.46	0.01	0.01	0.48	0.48	0.01	0.08	0.09	0.00	1,218	1,218	0.06	0.04	0.16	1,232
Average Daily (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	0.09	0.08	0.05	0.77	< 0.005	< 0.005	0.07	0.07	< 0.005	0.01	0.01	0.00	207	207	0.01	0.01	0.38	209
Annual (Max)	_	_	_	_	_	_	_	_	_	_	_	_		_	_	_	_	_
Unmit.	0.02	0.01	0.01	0.14	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.00	34.3	34.3	< 0.005	< 0.005	0.06	34.7

# 2.5. Operations Emissions by Sector, Unmitigated

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

Mobile	0.66	0.63	0.33	6.76	0.01	0.01	0.48	0.48	0.01	0.08	0.09	_	1,341	1,341	0.05	0.04	6.12	1,359
Area	_	0.00	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Energy	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	33.3	33.3	< 0.005	< 0.005	_	33.3
Water	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Waste	_	_	_	-	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	0.66	0.63	0.33	6.76	0.01	0.01	0.48	0.48	0.01	0.08	0.09	0.00	1,374	1,374	0.05	0.04	6.12	1,392
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	0.60	0.56	0.42	5.46	0.01	0.01	0.48	0.48	0.01	0.08	0.09	_	1,185	1,185	0.06	0.04	0.16	1,199
Area	_	0.00	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Energy	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	33.3	33.3	< 0.005	< 0.005	_	33.3
Water	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Waste	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	0.60	0.56	0.42	5.46	0.01	0.01	0.48	0.48	0.01	0.08	0.09	0.00	1,218	1,218	0.06	0.04	0.16	1,232
Average Daily	_	_		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	0.09	0.08	0.05	0.77	< 0.005	< 0.005	0.07	0.07	< 0.005	0.01	0.01	_	174	174	0.01	0.01	0.38	176
Area	_	0.00	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Energy	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	33.3	33.3	< 0.005	< 0.005	_	33.3
Water	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Waste	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	0.09	0.08	0.05	0.77	< 0.005	< 0.005	0.07	0.07	< 0.005	0.01	0.01	0.00	207	207	0.01	0.01	0.38	209
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	0.02	0.01	0.01	0.14	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	28.8	28.8	< 0.005	< 0.005	0.06	29.1
Area	_	0.00	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Energy	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	5.51	5.51	< 0.005	< 0.005	_	5.52
Water	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Waste	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00

8 / 28 C-27

Total	0.02	0.01	0.01	0.14	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.00	34.3	34.3	< 0.005	< 0.005	0.06	34.7
iotai	0.02	0.01	0.01	0	1 0.000	1 0.000	0.0.	0.0.	1 0.000	1 0.000	1 0.000	0.00	0 1.0	0 1.0	1 0.000	1 0.000	0.00	0

# 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	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	СО2Т	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
User Defined Recreation	0.66 nal	0.63	0.33	6.76	0.01	0.01	0.48	0.48	0.01	0.08	0.09	_	1,341	1,341	0.05	0.04	6.12	1,359
Total	0.66	0.63	0.33	6.76	0.01	0.01	0.48	0.48	0.01	0.08	0.09	_	1,341	1,341	0.05	0.04	6.12	1,359
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
User Defined Recreation	0.60 nal	0.56	0.42	5.46	0.01	0.01	0.48	0.48	0.01	0.08	0.09	_	1,185	1,185	0.06	0.04	0.16	1,199
Total	0.60	0.56	0.42	5.46	0.01	0.01	0.48	0.48	0.01	0.08	0.09	_	1,185	1,185	0.06	0.04	0.16	1,199
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
User Defined Recreation	0.02 mal	0.01	0.01	0.14	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	-	28.8	28.8	< 0.005	< 0.005	0.06	29.1
Total	0.02	0.01	0.01	0.14	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	28.8	28.8	< 0.005	< 0.005	0.06	29.1

## 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)

		1110 (10/44	<i>,</i>	.,,,.	.0	J. J		,		, ,	J							
Land Use	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	-	_	-
User Defined Recreation	— nal	_	_	_	_	_	_	_	_	_	_	_	33.3	33.3	< 0.005	< 0.005	_	33.3
Total	_	_	_	_	_	_	_	_	_	_	_	_	33.3	33.3	< 0.005	< 0.005	_	33.3
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	-
User Defined Recreation	— nal	_	_	_	_	_	_	_	_	_	_	_	33.3	33.3	< 0.005	< 0.005	_	33.3
Total	_	_	_	_	_	_	_	_	_	_	_	_	33.3	33.3	< 0.005	< 0.005	_	33.3
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
User Defined Recreation	— nal	_	_	_	_	_	_	_	_	_	_	_	5.51	5.51	< 0.005	< 0.005	_	5.52
Total	_	_	_	_	_	_	_	_	_	_	_	_	5.51	5.51	< 0.005	< 0.005	_	5.52

## 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

User Defined Recreation	0.00 nal	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	_	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	_	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_
User Defined Recreation	0.00 nal	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	_	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	_	0.00
Annual	_	_	<u> </u>	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_
User Defined Recreation	0.00 nal	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	-	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	_	0.00

# 4.3. Area Emissions by Source

## 4.3.2. Unmitigated

Source	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consum er Products		0.00	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Architect ural Coatings	_	0.00	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	0.00	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Daily, Winter (Max)	_	_	_	_	_	_	_		_	_	_	_	_	_	_	_	_	_
Consum er Products	_	0.00	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Architect ural Coatings	_	0.00	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	0.00	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consum er Products	_	0.00	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Architect ural Coatings	_	0.00	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	0.00	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

# 4.4. Water Emissions by Land Use

#### 4.4.2. Unmitigated

Land Use	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
User Defined Recreation	_ nal	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00

Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
User Defined Recreation	— nal	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
User Defined Recreation	— าal	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00

# 4.5. Waste Emissions by Land Use

#### 4.5.2. Unmitigated

Land Use	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	СО2Т	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
User Defined Recreation	— nal	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
User Defined Recreation	— nal	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00

Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
User Defined Recreatio	_ nal	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00

## 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	со	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. Offroad Emissions By Equipment Type

#### 4.7.1. Unmitigated

Equip	ne 1	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
nt																			
Туре																			

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)

Equipme nt	TOG	ROG	NOx	СО	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)

Equipme nt Type				СО		PM10E				PM2.5D		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

Vegetatio n	TOG	ROG		СО	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																		
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		со	SO2	PM10E				PM2.5D		BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	<u> </u>	_	_	_	_	<u> </u>	_	_	_	_	_	<u> </u>	_	_	_	_	_
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		СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	СО2Т	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_		_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_		_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Remove d	_	_	_	_	_	_		_	_	_	_	_	_	_		_	_	_

0																		
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Remove d	_	_	_	_	_	_	_	_	_	_		_	_	_	_	_	_	_
Subtotal		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
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
User Defined Recreational	0.00	216	0.00	11,263	0.00	1,783	0.00	92,946

# 5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

### 5.10.2. Architectural Coatings

I	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)
(	)	0.00	0.00	0.00	_

### 5.10.3. Landscape Equipment

Equipment Type	Fuel Type	Number Per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

# 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)
User Defined Recreational	32,390	375	0.0129	0.0017	0.00

## 5.12. Operational Water and Wastewater Consumption

## 5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
User Defined Recreational	0.00	0.00

# 5.13. Operational Waste Generation

#### 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
User Defined Recreational	0.00	_

# 5.14. Operational Refrigeration and Air Conditioning Equipment

## 5.14.1. Unmitigated

Land Use Type Ed	quipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
------------------	---------------	-------------	-----	---------------	----------------------	-------------------	----------------

# 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

Equipment Type Fuel Type Engine Tier Number per Day Hours Per Day Horsepower Load Factor
--

# 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

#### 5.16.2. Process Boilers

Equipment Type Fuel Type Number Boiler Rating (MMBtu/hr) Daily Heat Input (MMBtu/day) Annual Heat Input (MMBtu/y	Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
--	----------------	-----------	--------	--------------------------	------------------------------	------------------------------

PLNP2021-00262

#### 5.17. User Defined

Equipment Type	Fuel Type
_	_

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
a a de rement menter e ca colle a	1 - 8		

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	20.7	annual days of extreme heat
Extreme Precipitation	6.00	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	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 (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth 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 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

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	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	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	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	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 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	55.4
AQ-PM	40.7
AQ-DPM	44.0
Drinking Water	74.3
Lead Risk Housing	29.3
23	/ 28

Pesticides	0.00
Toxic Releases	25.7
Traffic	19.5
Effect Indicators	_
CleanUp Sites	0.00
Groundwater	59.6
Haz Waste Facilities/Generators	16.6
Impaired Water Bodies	66.7
Solid Waste	0.00
Sensitive Population	_
Asthma	47.9
Cardio-vascular	28.6
Low Birth Weights	96.6
Socioeconomic Factor Indicators	_
Education	3.11
Housing	2.99
Linguistic	1.81
Poverty	4.57
Unemployment	7.77

# 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	92.39060695
Employed	37.66200436
Median HI	91.10740408

Education	_
Bachelor's or higher	93.58398563
High school enrollment	100
Preschool enrollment	66.32875658
Transportation	_
Auto Access	62.47914795
Active commuting	42.96163223
Social	_
2-parent households	80.03336327
Voting	99.0632619
Neighborhood	_
Alcohol availability	82.26613628
Park access	53.98434492
Retail density	42.93596818
Supermarket access	34.63364558
Tree canopy	94.94418067
Housing	_
Homeownership	89.69588092
Housing habitability	85.24316694
Low-inc homeowner severe housing cost burden	32.27255229
Low-inc renter severe housing cost burden	73.36070833
Uncrowded housing	89.4649044
Health Outcomes	_
Insured adults	86.94982677
Arthritis	0.0
Asthma ER Admissions	50.9
High Blood Pressure	0.0

Asthma         0.0           Coronary Heart Disease         0.0           Chronic Obstructive Pulmonary Disease         0.0           Diagnosed Diabetes         0.0           Life Expectancy at Birth         46.6           Cognitively Disabled         70.6           Physically Disabled         57.4           Heart Attack ER Admissions         74.8           Mental Health Not Good         0.0           Chronic Kidney Disease         0.0           Obesity         0.0           Pedestrian Injuries         62.1           Physical Health Not Good         0.0           Stroke         0.0           Health Risk Behaviors         —           Binge Drinking         0.0           Current Smoker         0.0           No Leisure Time for Physical Activity         0.0           Climate Change Exposures         —           Wildfire Risk         0.0		
Coronary Heart Disease         0.0           Chronic Obstructive Pulmonary Disease         0.0           Diagnosed Diabetes         0.0           Life Expectancy at Birth         46.6           Cognitively Disabled         70.6           Physically Disabled         57.4           Heart Attack ER Admissions         74.8           Mental Health Not Good         0.0           Chronic Kidney Disease         0.0           Obesity         0.0           Pedestrian Injuries         62.1           Physical Health Not Good         0.0           Stroke         0.0           Health Risk Behaviors         —           Binge Drinking         0.0           Current Smoker         0.0           No Leisure Time for Physical Activity         0.0           Climate Change Exposures         —           Wildfire Risk         0.0	Cancer (excluding skin)	0.0
Chronic Obstructive Pulmonary Disease         0.0           Diagnosed Diabetes         0.0           Life Expectancy at Birth         46.6           Cognitively Disabled         70.6           Physically Disabled         57.4           Heart Attack ER Admissions         74.8           Mental Health Not Good         0.0           Chronic Kidney Disease         0.0           Obesity         0.0           Pedestrian Injuries         62.1           Physical Health Not Good         0.0           Stroke         0.0           Health Risk Behaviors         —           Binge Drinking         0.0           Current Smoker         0.0           No Leisure Time for Physical Activity         0.0           Climate Change Exposures         —           Wildfire Risk         0.0	Asthma	0.0
Diagnosed Diabetes         0.0           Life Expectancy at Birth         46.6           Cognitively Disabled         70.6           Physically Disabled         57.4           Heart Attack ER Admissions         74.8           Mental Health Not Good         0.0           Chronic Kidney Disease         0.0           Obesity         0.0           Pedestrian Injuries         62.1           Physical Health Not Good         0.0           Stroke         0.0           Health Risk Behaviors         -           Binge Drinking         0.0           Current Smoker         0.0           No Leisure Time for Physical Activity         0.0           Climate Change Exposures         -           Wildfire Risk         0.0	Coronary Heart Disease	0.0
Life Expectancy at Birth       46.6         Cognitively Disabled       70.6         Physically Disabled       57.4         Heart Attack ER Admissions       74.8         Mental Health Not Good       0.0         Chronic Kidney Disease       0.0         Obesity       0.0         Pedestrian Injuries       62.1         Physical Health Not Good       0.0         Stroke       0.0         Health Risk Behaviors       -         Binge Drinking       0.0         Current Smoker       0.0         No Leisure Time for Physical Activity       0.0         Climate Change Exposures       -         Wildfire Risk       0.0	Chronic Obstructive Pulmonary Disease	0.0
Cognitively Disabled         70.6           Physically Disabled         57.4           Heart Attack ER Admissions         74.8           Mental Health Not Good         0.0           Chronic Kidney Disease         0.0           Obesity         0.0           Pedestrian Injuries         62.1           Physical Health Not Good         0.0           Stroke         0.0           Health Risk Behaviors         —           Binge Drinking         0.0           Current Smoker         0.0           No Leisure Time for Physical Activity         0.0           Climate Change Exposures         —           Wildfire Risk         0.0	Diagnosed Diabetes	0.0
Physically Disabled         57.4           Heart Attack ER Admissions         74.8           Mental Health Not Good         0.0           Chronic Kidney Disease         0.0           Obesity         0.0           Pedestrian Injuries         62.1           Physical Health Not Good         0.0           Stroke         0.0           Health Risk Behaviors         —           Binge Drinking         0.0           Current Smoker         0.0           No Leisure Time for Physical Activity         0.0           Climate Change Exposures         —           Wildfire Risk         0.0	Life Expectancy at Birth	46.6
Heart Attack ER Admissions       74.8         Mental Health Not Good       0.0         Chronic Kidney Disease       0.0         Obesity       0.0         Pedestrian Injuries       62.1         Physical Health Not Good       0.0         Stroke       0.0         Health Risk Behaviors       —         Binge Drinking       0.0         Current Smoker       0.0         No Leisure Time for Physical Activity       0.0         Climate Change Exposures       —         Wildfire Risk       0.0	Cognitively Disabled	70.6
Mental Health Not Good         0.0           Chronic Kidney Disease         0.0           Obesity         0.0           Pedestrian Injuries         62.1           Physical Health Not Good         0.0           Stroke         0.0           Health Risk Behaviors         —           Binge Drinking         0.0           Current Smoker         0.0           No Leisure Time for Physical Activity         0.0           Climate Change Exposures         —           Wildfire Risk         0.0	Physically Disabled	57.4
Chronic Kidney Disease         0.0           Obesity         0.0           Pedestrian Injuries         62.1           Physical Health Not Good         0.0           Stroke         0.0           Health Risk Behaviors         —           Binge Drinking         0.0           Current Smoker         0.0           No Leisure Time for Physical Activity         0.0           Climate Change Exposures         —           Wildfire Risk         0.0	Heart Attack ER Admissions	74.8
Obesity         0.0           Pedestrian Injuries         62.1           Physical Health Not Good         0.0           Stroke         0.0           Health Risk Behaviors         —           Binge Drinking         0.0           Current Smoker         0.0           No Leisure Time for Physical Activity         0.0           Climate Change Exposures         —           Wildfire Risk         0.0	Mental Health Not Good	0.0
Pedestrian Injuries 62.1  Physical Health Not Good 0.0  Stroke 0.0  Health Risk Behaviors —  Binge Drinking 0.0  Current Smoker 0.0  No Leisure Time for Physical Activity 0.0  Climate Change Exposures —  Wildfire Risk 0.0	Chronic Kidney Disease	0.0
Physical Health Not Good 0.0 Stroke 0.0 Health Risk Behaviors — Binge Drinking 0.0 Current Smoker 0.0 No Leisure Time for Physical Activity 0.0 Climate Change Exposures — Wildfire Risk 0.0	Obesity	0.0
Stroke 0.0 Health Risk Behaviors — Binge Drinking 0.0 Current Smoker 0.0 No Leisure Time for Physical Activity 0.0 Climate Change Exposures — Wildfire Risk 0.0	Pedestrian Injuries	62.1
Health Risk Behaviors —  Binge Drinking 0.0  Current Smoker 0.0  No Leisure Time for Physical Activity 0.0  Climate Change Exposures —  Wildfire Risk 0.0	Physical Health Not Good	0.0
Binge Drinking 0.0 Current Smoker 0.0 No Leisure Time for Physical Activity 0.0 Climate Change Exposures — Wildfire Risk 0.0	Stroke	0.0
Current Smoker0.0No Leisure Time for Physical Activity0.0Climate Change Exposures—Wildfire Risk0.0	Health Risk Behaviors	_
No Leisure Time for Physical Activity  Climate Change Exposures  Wildfire Risk  0.0  0.0	Binge Drinking	0.0
Climate Change Exposures — Wildfire Risk 0.0	Current Smoker	0.0
Wildfire Risk 0.0	No Leisure Time for Physical Activity	0.0
	Climate Change Exposures	_
	Wildfire Risk	0.0
SLR Inundation Area 0.0	SLR Inundation Area	0.0
Children 95.4	Children	95.4
Elderly 4.7	Elderly	4.7
English Speaking 94.5	English Speaking	94.5
Foreign-born 6.9	Foreign-born	6.9
Outdoor Workers 98.2	Outdoor Workers	98.2

Climate Change Adaptive Capacity	_
Impervious Surface Cover	80.6
Traffic Density	48.9
Traffic Access	23.0
Other Indices	_
Hardship	6.9
Other Decision Support	_
2016 Voting	95.7

## 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract					
CalEnviroScreen 4.0 Score for Project Location (a)	21.0					
Healthy Places Index Score for Project Location (b)	90.0					
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No					
Project Located in a Low-Income Community (Assembly Bill 1550)	No					
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No					

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.

## 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

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.

Screen	Justification					
Land Use	Project-specific information.					
Operations: Vehicle Data	Project-specific vehicle data.					
Operations: Fleet Mix	Project-specific fleet mix.					
Operations: Consumer Products	No consumer products.					
Operations: Architectural Coatings	No architectural coatings.					
Operations: Energy Use	Project-specific energy use.					

CalEEMod Assumptions and Inputs									
		_							
Project Name	Jesuit High School Stadium Lighting								
Project Location	Carmichael, CA 95608 (Sacramento County)								
Climate Zone	6								
	Urban								
Operational Year	2023	Construction Start Date: July 5, 2023							
Utility	Sacramento Municipal Utility District (SMUD)								
Construction Workdays	5 days per week; 8 hours per day	2 week construction duration. 5 days/week, 9 hou	rs per day, no night or weekend work						
Land Use									
cuito osc		Acreage	Square Feet		Notes				
Туре	Recration				Land Use Subtype: Stadium lighting for a	atheletic field/n	ark		
SubType	User Defined Recrational	0.0918	4,000			,			
Construction Schedule									
	Phase Type	Weeks	Equipment	Quantity	Hrs/Day	Start	End	Workers	Notes
This truthe	Thuse Type	Weeks .	Cranes	1	9	Start	Liiu	VIOIRCI 3	Per design, project will use existing conduit, so no trenching
			Auger (modeled as Bore/Drill Rigs)	1	9	1			included:
			Backhoe	1	9	1			
					-	i			o Site prep: concrete/industrial saw (if there is hardscape to
									break up for pole installation), backhoe, excavator, drill rig
									mounted on truck
						7/5/2023	7/19/2023	10	o Tractor/loader/backhoe and roller for fine grading and
					1	.,.,	,,		pedestrian pathway
					1				o Forklift and crane for pole installation and field lighting
					1				mounting, as well as semi-trucks for materials delivery.
					1				o Cement and mortar mixer, paver, roller for footing concrete
									pour and pedestrian pathway
		_			_				pour una peucatium putitivaly
Installation	Building Construction	2	Forklift	1	9				
Grading Quantities									
orating quantities				Import Haul Trucks		1			
Material	Phases	Cubic Yards	Export Haul Trucks	(Loaded)	Total (one-way)	Notes			
Total Material Imported	Site Preparation		-		-	1			
						1			
Total Material Exported		444							l areas where the lighting standards would go. Conservative
Total Waterial Exported								quare feet	could be disturbed (50' x 20' x 4) and up to 12,000 cubic feet of
	Grading		28		56	soil could be o	ff-hauled.		
Operational Trips:									
Operational Trips.	Round-Trips	One-way Trip Increase:	Project Size (user defined unit)	Trip rate (per size/day):	٦				
Kimley Horn 2023, incremental increase in	nound 1143	One-way mp increase.	Troject Size (daer defined dinty	Trip rate (per sac) day).					
trips per event:	108	216	,	216					
	100	110	_	110	9				
Fleet Mix Adjustments:					Notes:				
,					1				
					*Adjusted all other vehicle categories				
	Total	LDA	LDT1	LDT2	to zero, as these trips are for visitors to				
					the intermittent evening game events,				
					primarily in the form of passenger				
					vehicles.				
					4				
CalEEMod Default Fleet Mix	NA .	49%	4.85%	21.56%					
Adjusted Fleet Mix with Trucks (32.5%					1				
allocated to visiting truck trips)	100.00%	73.597%	4.846%	21.557%	1				
Electricity Consumption	4474-4561	1							
Daily Electricty Use:	117 to 158 kwh per day								
Events with lighting use per year:	25	1							
		Assumes practices utilize lighting 5 days per week assumption, as lighting is not needed during longer							
Barrier Company Control	180		uays not do practices occur s days per	week ail school year.					
Practicies with lighting	180	1							