Appendix C Air Quality and GHG Emissions Analysis

Jesuit High School Stadium Lighting Detailed Report

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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

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

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

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)	_	-	-	-	-	-	-	_	-	_	_	-	-	_	_	_		—

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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	0.89 t	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	 t					_	< 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 t	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 t	< 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

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 Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Installation	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
10 / 19							
Jesuit High School Stadium Lighting			C-	10		PL	NP2021-00262

Installation	Tractors/Loaders/Backh	Diesel	Average	1.00	8.00	84.0	0.37
			J				

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Тгір Туре	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			
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

Тгее Туре	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
	12	/ 19	
Jesuit High School Stadium Lighting	C-	12	PLNP2021-00262

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 ³/₄ 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

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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

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

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
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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 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.

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

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.

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

No measures selected

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

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

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

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

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
	0.01	0.0.	0.0.	••••			0.0.	0.0.				0.00	00	00			0.00	•

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	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	-	-	_	—	-	_	-	-	-	-	-	-	-	-	-	-	—	-
User Defined Recreatio	0.66 inal	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 Recreatio	0.60 mal	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 Recreatio	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)

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 Recreatio	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 Recreatio	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	_	_	_	_	_	_	-	-	_	-	_	_	-	_	_	_	_	_
User Defined Recreatio	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	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 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

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	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	_	_	—	-	—	—	—	-	—	_	—	_	-	-	-	—
User Defined Recreation		_	_	_	_	_	_	_	_	_	_	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

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Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
User Defined Recreatio		—	_	-	_	_	_	—	_	_	_	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	СО2Т	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

Equipme	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

Equipme nt Type	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	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

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

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	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. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Vegetatio n	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	СО2Т	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	СО2Т	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—							_		—	—			_			—
Total	—	—	—	_	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)		_																—
Total	—	—	—	—	—	—	—	—	—	—	—	_	—	—	—	—	—	—
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_		_
Total	_	_	—	—	—	—	—	—	_	—	_	_	—	—	_	—	_	—

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

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

5.9. 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

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	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	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	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
		rtonigorant		acaaning (ng)	operatione Louit rate	Conneo Louir rate	

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

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

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
		20	/ 28		
Jesuit High School Sta	dium Lighting	C-	39		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
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 (K)//b/vear)	Natural Cas Saved (http://waar)

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	
	21 / 28		
Jesuit High School Stadium Lighting	C-40		PLNP2021-00262

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 ³/₄ 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 fet (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	
Jesuit High School Stadium Lighting	C-42	PLNP2021-00262

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

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.

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

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.

Descised Name	to an Ar Birch, Walk and Para Marca 1 Arb Marca	1							
Project Name	Jesuit High School Stadium Lighting	-							
Climate Zone	6	-							
Land Use Setting	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 ho	ars per day, no night or weekend work						
Land Use		[+	Comment Court	1	N - 4				
Типе	Permition	Acreage	Square Feet	-	Notes	the letic field /	and		
SubType	User Defined Recrational	0.0918	4 000		cand use subtype. stadium ignorg for a	surfeieuc rieiu/	2d1k		
(see.) Je				-					
Construction Schedule	la		I	1					
Phase Name	Phase Type	Weeks	Equipment	Quantity	Hrs/Day	Start	End	Workers	Notes
			Auger (modeled as Bore/Drill Bigs)	1	9				included:
			Backhoe	1	9				
						1			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
									pedestrian pathway
									o Forking and crane for pole installation and held lighting
									o Cament and mortar miver, never, roller for footing concrete
									pour and pedestrian pathway
Installation	Building Construction	2	Forklift	1	9				
			1.00000						
Grading Quantities	1	1	I		1	1			
		Cold Woods		Import Haul Trucks					
Total Material Imported	Site Preparation		Export Haur Hocks	(coaded)		notes			
						1			
Total Material Exported		444				Disturbance v	vould be the 40	' by 15' pa	ad areas where the lighting standards would go. Conservative
	Cradian		20			assumption to	hat up to 4,000 :	square tee	et could be disturbed (50° x 20° x 4) and up to 12,000 cubic feet of
	Grading		20		30	I soli coulu be i	on-nauleu.		
Operational Trips:					1				
Operational Trips:	Round-Trips	One-way Trip Increase:	Project Size (user defined unit)	Trip rate (per size/day):]				
Operational Trips: Kimley Horn 2023, incremental increase in	Round-Trips	One-way Trip Increase:	Project Size (user defined unit)	Trip rate (per size/day):]				
Operational Trips: Kimley Horn 2023, incremental increase in trips per event:	Round-Trips 108	One-way Trip Increase:	Project Size (user defined unit)	Trip rate (per size/day):]				
Operational Trips: Kimley Horn 2023, incremental increase in trips per event:	Round-Trips 108	One-way Trip Increase:	Project Size (user defined unit)	Trip rate (per size/day): 					
Operational Trips: Kimley Horn 2023, incremental increase in trips per event:	Round-Trips 108	One-way Trip Increase: 21	Project Size (user defined unit)	Trip rate (per size/day):]				
Operational Trips: Kinley Horn 2023, incremental increase in trips per event: Fleet Mix Adjustments:	Round-Trips 108	One-way Trip Increase: 21	Project Size (user defined unit)	Trip rate (per size/day): 216	Notes:				
Operational Trips: Kimley Horn 2023, incremental increase in trips per event: Fleet Mix Adjustments:	Round Trips	One-way Trip Increase: 21	Project Size (user defined unit)	Trip rate (per size/day): 216	Notes:				
Operational Trips: Kimky Hon 2023, incremental increase in trips per event: Fleet Mix Adjustments:	Round-Trips 108	One-way Trip Increase: 21	Project Size (user defined unit)	Trip rate (per size/day): 216	Notes:				
Operational Trips: Kimky Non 2023, incremental increase in trips per event: Pleet Mix Adjustments:	Round Trips	One-way Trip Increase:	Project Size (user defined unit)	Trip rate (per size/day): 216	Notes:				
Operational Trips: Kimky Horn 2022, incremental increase in trips per event: Fleet Mix Adjustments:	Round-Trips 108	One-way Trip Increase: 21	Project Size (user defined unit)	Trip rate (per size/day): 216	Notes:				
Operational Trips: Kimley Horn 2023, incremental increase in trips per event: Fleet Mix Adjustments:	Round Trips 108	One-way Trip Increase:	Project Size (user defined unit)	Trip rate (per site/day): 216	Notes: *Adjusted all other vehicle categories				
Operational Trips: Kimiey Hono 2023, incremental increase in trips per event: Fleet Mix Adjustments:	Round-Trips 108	One-way Trip Increase: 21	Project Size (user defined unit)	Trip rate (per site/day): 216	Notes: *Adjusted all other vehicle categories to zero, as these trips are for visions to				
Operational Trips: Kimkey Norn 2023, incremental increase in trips per event: Fleet Mix Adjustments:	Round-Trips 108	One-way Trip Increase: 21	Project Size (user defined unit)	Trip rate (per size/day): 216	Notes: *Adjusted all other vehicle categories to zero, as these trips are for valuors to the intermitted recoming game events.				
Operational Trips: Kimiey Hon 2023, incremental increase in trips per event: Field Mix Adjustments:	Round-Trips 108	One-way Trip Increase: 21	Project Size (user defined unit) 5 1 LDT1	Trip rate (per site/day): 216	Notes: *Adjusted all other vehicle categories to zero, as these trips are for visitors to the intermittent evening game events, primarily in the form of passenger				
Operational Trips: Kimley Norn 2023, incremental increase in trips per event: Fleet Mix Adjustments:	Round-Trips 108	One-way Trip Increase: 21	Project Size (user defined unit)	Trip rate (per size/day): 216	Notes: *Adjusted all other vehicle categories to zero, as these trips are for valors to the internittent exoning game events, primarily in the form of passenger vehicles.				
Operational Trips: Kimley Hon 2023, incremental increase in trips per event: Fleet Mix Adjustments:	Round-Trips 108	One-way Trip Increase: 21	Project Size (user defined unit) 5 CDT1	Trip rate (per site/day): 216	Notes: *Adjusted all other vehicle categories to zero, as these trips are for visitors to the intermittent evening game evenis, primarly in the form of passenger vehicles.				
Operational Trips: Kimicy Nom 2023, incremental increase in trips per event: Fleet Mix Adjustments: CalifEtMod Default Fleet Mis	Round-Trips 108	0ne-way Trip Increase: 21	Project Size (user defined unit)	176p rate (per size/day): 226	Notes: *Adjusted all other vehicle categories to zero, as these trips are for valors to the internitether denoing game events, primarily in the form of passenger vehicles.				
Operational Trips: Kindky Non 2023, incremental increase in trips per event: Fleet Mix Adjustments: CallEEMod Default Fleet Mix CallEEMod Default Fleet Mix Adjustef Fleet Mix with Trucks (12.5%	Round-Trips 108 Total	Dre-way Trip Increase: 21 LDA 497	Project Size (user defined unit) 5 LDT1 4.859	17% rate (per site/day): 216 LD12 21.56%	Notes: *Adjusted all other vehicle categories to zero, at these trips are for visitors to to zero, at these trips are for visitors to to zero, at these trips are events, primarily in the form of passenger vehicles.				
Operational Trips: Kimley Norn 2023, incremental increase in trips per event: Fleet Mis Adjustments: CallEtMod Default Fleet Mis Adjusted Fleet Mis with Trucks (12.5% adjusted Fleet Mis with Trucks (12.5%)	Round-Trips 108 Total NA. 100.005	0ne-way Trip Increase: 21 LDA 49 73.597	Project Size (user defined unit)	169 rate (per size/day): 226 LDT2 2.150%	Notes: *Adjusted all other vehicle categories to zero, as these trips are for valors to the internitent enoming game events, primarily in the form of passenger vehicles.				
Operational Trips: Kimky Hon 2023, incremental increase in trips per event: Fleet Mix Adjustments: CalEEMod Default Fleet Mix Adjusted Fleet Mix with Trucks (22.5% allocated to visiting truck trips)	Round-Trips 108	Die-way Trip Increase: 21 LDA 49 73.597	Project Size (user defined unit) 5 5 5 LDT1 6 4.855 6 4.855	Trip rate (per site/day): 216 UD72 21.56%	Notes: *Adjusted all other vehicle categories to archa, as break trick and for vehicles to the intermittent excelling game events, primarily in the form of passenger vehicles.				
Operational Trips: Kimley Non 2023, incremental increase in trips per event: Fleet Mis Adjustments: CallEEMod Default Fleet Mis Adjusted Fleet Mis with Trucks (22.5% allocated to visiting truck rips)	Round-Trips 108 Total NA. 100.005	0ne-way Trip Increase: 21 LDA 499 73.597	Project Size (user defined unit)	Trip rate (per size/day): 216 LDT2 21.5576	Notes: *Adjusted all other vehicle categories to zero, at these trips are for visitors to the interrutient exoting game events, primarily in the form of passenger vehicles.				
Operational Trips: Kindky Horo 2023, incremental increase in trips per event: Fleet Mix Adjustments: CallElMod Default Fleet Mix Adjusted Fleet Mix with Trucks (32.5% adjusted for visiting truck trips) Electricity Consumption	Round-Trips 108 Total NA 100.00%	0ne-way Trip Increase: 21 LDA 49 73.597	Project Size (user defined unit)	Trip rate (per site/day): 216 LDT2 21.55%	Notes: *Adjusted all other vehicle categories to zero, as these trips are for visions to the internitenter energing game evens, primarily in the form of passenger vehicles.				
Operational Trips: Kimiky Non 2023, Incremental Increase in trips per event: Fleet Mis Adjustments: CallEEMod Default Fleet Mis Adjusted Fleet Mis with Trucks (12.5% allocated to visiting truck trips) Electricity Consumption Duby Electrop Use:	Round-Trips 108 Total 100.00% 117 to 158 kwh per day 107.000 kwh per day	0ne-way Trip Increase: 21 LDA 49 73.597	Project Size (user defined unit)	Trip rate (per size/day): 226 LD72 21.5576	Notes: *Adjusted all other vehicle categories to zero, as these trips are for valions to the internitent encoming game events, primarily in the form of passenger vehicles.				
Operational Trips: Kindky Horo 2023, incremental increase in trips per event: Fleet Mix Adjustments: CallEEMod Default Fleet Mix Adjusted Fleet Mix with Trucks (32.5% allocated to visiting truck trips) Electricity Consumption Dayly RetryCy Use: Levents with Bjuffing use per year:	Round-Trips 108 Total 100.00% 117 to 158 kwh per day 25	0ne-way Trip Increase: 21 LDA 49 73.597	Project Size (user defined unit) 5 ; 6 [UDT] 6 4.859 6 4.859	Trip rate (per site/day): 216 21572 21569 21557% 21557%	Notes: *Adjusted all other vehicle categories to zero, as these trips are for visions to the internitent energing game evens, primarily in the form of passenger vehicles.				
Operational Trips: Kimley Non 2023, Incremental Increase in trips per event: Fleet Mix Adjustments: CallEtMod Default Fleet Mix Adjusted Pleet Mix with Trucks (12.5% adjocated to vixing truck trips) Electricity Consumption Dayl Electry Use: Events with lighting use per year:	Round-Trips 108 Total	0ne-way Trip Increase: 21 LDA 49 73.597	Project Size (user defined unit)	1072	Notes: *Adjusted all other vehicle categories to zero, as these trips are for valions to the internitent enoming game events, primarily in the form of passenger vehicles.				

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Practicies with lighting Annual Electricity Use: