



DOUGLASKIM+ASSOCIATES,LLC

## FUTURE EMISSIONS

# 3880 Mission Road Detailed Report

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# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	3880 Mission Road
Construction Start Date	3/1/2024
Lead Agency	City of Los Angeles
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	8.60
Location	3880 N Mission Rd, Los Angeles, CA 90031, USA
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4100
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.12

## 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
General Light Industry	0.00	1000sqft	1.00	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.	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Unmit.	—	38,617	38,617	1.97	5.66	81.6	40,434
Daily, Winter (Max)	—	—	—	—	—	—	—
Unmit.	—	38,621	38,621	1.97	5.66	2.12	40,358
Average Daily (Max)	—	—	—	—	—	—	—
Unmit.	—	13,013	13,013	0.66	1.91	11.9	13,610
Annual (Max)	—	—	—	—	—	—	—
Unmit.	—	2,154	2,154	0.11	0.32	1.97	2,253

### 2.2. Construction Emissions by Year, Unmitigated

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

Year	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—
2024	—	38,617	38,617	1.97	5.66	81.6	40,434
Daily - Winter (Max)	—	—	—	—	—	—	—
2024	—	38,621	38,621	1.97	5.66	2.12	40,358
Average Daily	—	—	—	—	—	—	—
2024	—	13,013	13,013	0.66	1.91	11.9	13,610
Annual	—	—	—	—	—	—	—

2024	—	2,154	2,154	0.11	0.32	1.97	2,253
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### 3. Construction Emissions Details

#### 3.1. Grading (2024) - Unmitigated

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

Location	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Off-Road Equipment	—	3,397	3,397	0.14	0.03	—	3,409
Dust From Material Movement	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Off-Road Equipment	—	3,397	3,397	0.14	0.03	—	3,409
Dust From Material Movement	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	—	1,145	1,145	0.05	0.01	—	1,149
Dust From Material Movement	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	—	190	190	0.01	< 0.005	—	190
Dust From Material Movement	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—
Worker	—	141	141	0.01	< 0.005	0.56	143
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	35,079	35,079	1.83	5.63	81.0	36,883
Daily, Winter (Max)	—	—	—	—	—	—	—
Worker	—	134	134	0.01	< 0.005	0.01	135
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	35,090	35,090	1.83	5.63	2.10	36,814
Average Daily	—	—	—	—	—	—	—
Worker	—	45.8	45.8	< 0.005	< 0.005	0.08	46.4
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	11,823	11,823	0.62	1.90	11.8	12,415
Annual	—	—	—	—	—	—	—
Worker	—	7.58	7.58	< 0.005	< 0.005	0.01	7.68
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	1,957	1,957	0.10	0.31	1.95	2,055

## 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)

Vegetation	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—



Total	-	-	-	-	-	-	-
Annual	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

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

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

Land Use	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-
Daily, Winter (Max)	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-
Annual	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

Species	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	-	-	-	-	-	-	-
Avoided	-	-	-	-	-	-	-
Subtotal	-	-	-	-	-	-	-
Sequestered	-	-	-	-	-	-	-
Subtotal	-	-	-	-	-	-	-
Removed	-	-	-	-	-	-	-
Subtotal	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
Daily, Winter (Max)	-	-	-	-	-	-	-
Avoided	-	-	-	-	-	-	-

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

## 5. Activity Data

### 5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Soil Import	Grading	3/1/2024	8/20/2024	5.00	123	—

### 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
Soil Import	Rubber Tired Dozers	Diesel	Average	2.00	6.00	367	0.40
Soil Import	Off-Highway Trucks	Diesel	Average	2.00	4.00	376	0.38

## 5.3. Construction Vehicles

### 5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Soil Import	—	—	—	—
Soil Import	Worker	10.0	18.5	LDA,LDT1,LDT2
Soil Import	Vendor	—	10.2	HHDT,MHDT
Soil Import	Hauling	400	25.0	HHDT
Soil Import	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 (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)

## 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)
Soil Import	344,000	0.00	1.00	0.00	—

### 5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction

Water Exposed Area	2	61%	61%
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### 5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
General Light Industry	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
2024	0.00	690	0.05	0.01

### 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
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#### 5.18.1. Biomass Cover Type

##### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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#### 5.18.2. Sequestration

##### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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## 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	12.3	annual days of extreme heat
Extreme Precipitation	6.65	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  $\frac{3}{4}$  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	0	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	0	0	0	N/A
Wildfire	0	0	0	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	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

### 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
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	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

### 6.4. Climate Risk Reduction Measures

## 7. Health and Equity Details

### 7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
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Exposure Indicators	—
AQ-Ozone	62.5
AQ-PM	90.7
AQ-DPM	76.9
Drinking Water	83.2
Lead Risk Housing	79.1
Pesticides	0.00
Toxic Releases	76.5
Traffic	51.5
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	53.1
Haz Waste Facilities/Generators	86.2
Impaired Water Bodies	91.9
Solid Waste	0.00
Sensitive Population	—
Asthma	55.6
Cardio-vascular	15.3
Low Birth Weights	26.9
Socioeconomic Factor Indicators	—
Education	90.0
Housing	93.6
Linguistic	89.3
Poverty	93.4
Unemployment	94.8

## 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	7.519568844
Employed	13.7944309
Median HI	3.708456307
Education	—
Bachelor's or higher	25.15077634
High school enrollment	100
Preschool enrollment	17.59271141
Transportation	—
Auto Access	7.314256384
Active commuting	87.42461183
Social	—
2-parent households	22.03259335
Voting	6.800975234
Neighborhood	—
Alcohol availability	20.5825741
Park access	81.35506224
Retail density	92.50609521
Supermarket access	47.1448736
Tree canopy	44.39881945
Housing	—
Homeownership	11.60015398
Housing habitability	4.106249198
Low-inc homeowner severe housing cost burden	1.963300398
Low-inc renter severe housing cost burden	9.162068523
Uncrowded housing	13.28114975



Health Outcomes	—
Insured adults	17.25907866
Arthritis	19.5
Asthma ER Admissions	52.4
High Blood Pressure	9.7
Cancer (excluding skin)	63.4
Asthma	30.0
Coronary Heart Disease	5.6
Chronic Obstructive Pulmonary Disease	13.3
Diagnosed Diabetes	1.6
Life Expectancy at Birth	17.8
Cognitively Disabled	22.1
Physically Disabled	29.8
Heart Attack ER Admissions	78.5
Mental Health Not Good	13.8
Chronic Kidney Disease	2.1
Obesity	25.8
Pedestrian Injuries	76.2
Physical Health Not Good	3.6
Stroke	5.0
Health Risk Behaviors	—
Binge Drinking	96.8
Current Smoker	21.9
No Leisure Time for Physical Activity	2.2
Climate Change Exposures	—
Wildfire Risk	38.2
SLR Inundation Area	0.0

Children	45.9
Elderly	43.3
English Speaking	10.8
Foreign-born	93.8
Outdoor Workers	24.3
Climate Change Adaptive Capacity	—
Impervious Surface Cover	30.3
Traffic Density	46.5
Traffic Access	87.4
Other Indices	—
Hardship	93.4
Other Decision Support	—
2016 Voting	10.8

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	84.0
Healthy Places Index Score for Project Location (b)	7.00
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	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
Construction: Construction Phases	Developer information
Land Use	.
Construction: Off-Road Equipment	Developer information
Construction: Dust From Material Movement	Developer information
Construction: Trips and VMT	Consultant assumptions