

# 498 W San Carlos Residential Addendum Project Custom Report

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# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	498 W San Carlos Residential Addendum Project
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.00
Precipitation (days)	1.60
Location	498 W San Carlos St, San Jose, CA 95110, USA
County	Santa Clara
City	San Jose
Air District	Bay Area AQMD
Air Basin	San Francisco Bay Area
TAZ	1845
EDFZ	1
Electric Utility	San Jose Clean Energy
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.21

## 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
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Apartments Mid Rise	278	Dwelling Unit	0.68	221,846	1,154	—	831	Six additional dwelling units are assumed in this Addendum
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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

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.58	9.89	2.40	33.3	0.04	0.08	3.31	3.39	0.08	0.84	0.92	130	5,625	5,755	13.4	0.23	15.8	6,173
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.95	8.33	2.52	17.5	0.04	0.07	3.31	3.38	0.07	0.84	0.91	130	5,365	5,495	13.4	0.24	1.96	5,906
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.64	8.99	2.48	24.4	0.04	0.08	3.30	3.38	0.08	0.84	0.91	130	5,415	5,545	13.4	0.24	7.74	5,959
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.66	1.64	0.45	4.46	0.01	0.01	0.60	0.62	0.01	0.15	0.17	21.5	897	918	2.22	0.04	1.28	987

### 2.5. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.01	2.84	1.62	17.3	0.04	0.02	3.31	3.33	0.02	0.84	0.86	—	3,705	3,705	0.20	0.17	14.2	3,773
Area	1.50	7.02	0.15	15.7	< 0.005	0.01	—	0.01	0.01	—	0.01	0.00	42.2	42.2	< 0.005	< 0.005	—	42.3
Energy	0.07	0.04	0.62	0.26	< 0.005	0.05	—	0.05	0.05	—	0.05	—	1,792	1,792	0.16	0.01	—	1,800
Water	—	—	—	—	—	—	—	—	—	—	—	19.3	85.4	105	1.99	0.05	—	169
Waste	—	—	—	—	—	—	—	—	—	—	—	111	0.00	111	11.1	0.00	—	388
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.59	1.59
Total	4.58	9.89	2.40	33.3	0.04	0.08	3.31	3.39	0.08	0.84	0.92	130	5,625	5,755	13.4	0.23	15.8	6,173
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.87	2.69	1.91	17.3	0.03	0.02	3.31	3.33	0.02	0.84	0.86	—	3,487	3,487	0.24	0.18	0.37	3,548
Area	0.00	5.60	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
Energy	0.07	0.04	0.62	0.26	< 0.005	0.05	—	0.05	0.05	—	0.05	—	1,792	1,792	0.16	0.01	—	1,800
Water	—	—	—	—	—	—	—	—	—	—	—	19.3	85.4	105	1.99	0.05	—	169
Waste	—	—	—	—	—	—	—	—	—	—	—	111	0.00	111	11.1	0.00	—	388
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.59	1.59
Total	2.95	8.33	2.52	17.5	0.04	0.07	3.31	3.38	0.07	0.84	0.91	130	5,365	5,495	13.4	0.24	1.96	5,906
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.83	2.65	1.79	16.4	0.03	0.02	3.30	3.33	0.02	0.84	0.86	—	3,516	3,516	0.22	0.18	6.15	3,581
Area	0.74	6.30	0.08	7.76	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	20.8	20.8	< 0.005	< 0.005	—	20.9
Energy	0.07	0.04	0.62	0.26	< 0.005	0.05	—	0.05	0.05	—	0.05	—	1,792	1,792	0.16	0.01	—	1,800
Water	—	—	—	—	—	—	—	—	—	—	—	19.3	85.4	105	1.99	0.05	—	169
Waste	—	—	—	—	—	—	—	—	—	—	—	111	0.00	111	11.1	0.00	—	388
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.59	1.59

Total	3.64	8.99	2.48	24.4	0.04	0.08	3.30	3.38	0.08	0.84	0.91	130	5,415	5,545	13.4	0.24	7.74	5,959
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.52	0.48	0.33	3.00	0.01	< 0.005	0.60	0.61	< 0.005	0.15	0.16	—	582	582	0.04	0.03	1.02	593
Area	0.13	1.15	0.01	1.42	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	3.44	3.44	< 0.005	< 0.005	—	3.46
Energy	0.01	0.01	0.11	0.05	< 0.005	0.01	—	0.01	0.01	—	0.01	—	297	297	0.03	< 0.005	—	298
Water	—	—	—	—	—	—	—	—	—	—	—	3.20	14.1	17.3	0.33	0.01	—	27.9
Waste	—	—	—	—	—	—	—	—	—	—	—	18.3	0.00	18.3	1.83	0.00	—	64.2
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.26	0.26
Total	0.66	1.64	0.45	4.46	0.01	0.01	0.60	0.62	0.01	0.15	0.17	21.5	897	918	2.22	0.04	1.28	987

## 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
Apartments Mid Rise	906	906	906	330,792	4,687	4,687	4,687	1,710,849

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Apartments Mid Rise	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0

Electric Fireplaces	0
No Fireplaces	0
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
449238.14999999997	149,746	0.00	0.00	—

### 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

## 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)
Apartments Mid Rise	948,383	388	0.0330	0.0040	2,447,532

## 5.12. Operational Water and Wastewater Consumption

### 5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Mid Rise	10,082,059	3,057,582

## 5.13. Operational Waste Generation

### 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Mid Rise	206	—

## 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
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

## 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
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## 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
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## 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
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## 5.17. User Defined

Equipment Type	Fuel Type
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