
APPENDIX A

CALIFORNIA EMISSIONS ESTIMATOR MODEL (CALEEMOD) DATA



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City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Annual

City of San José Fire Training and Emergency Operation Center Relocation Project
Bay Area AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------|--------|----------|-------------|--------------------|------------|
| General Office Building | 72.39 | 1000sqft | 1.66 | 72,393.00 | 0 |
| Parking Lot | 285.00 | Space | 2.56 | 114,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|--------------------------------|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 64 |
| Climate Zone | 4 | | | Operational Year | 2022 |
| Utility Company | Pacific Gas & Electric Company | | | | |
| CO2 Intensity (lb/MW hr) | 328.8 | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Annual

Project Characteristics - CO2 intensity factor based on 5-year average (PG&E 2015)

Land Use - Government Office Building includes the new buildings and renovated Building D4. The entire project site is approximately 26 acres; however site improvements would only occur on a portion of the site.

Construction Phase - Construction of the proposed Project is anticipated to occur over the course of 16 months. Project construction is estimated to begin in January 2021 and be completed by June 2022.

Trips and VMT - Approximately 30 workers would be on the site on a typical day during project construction. Hauling/deliveries to and from the construction site would amount to approximately 5 to 10 trips per day.

Grading - The design is intended to minimize import or export but less than 5,000 cubic yards export is anticipated. Duration of grading operations is likely two to six months.

Vehicle Trips - Based on the trip generation prepared for the project. Assuming operational Monday through Saturday to be conservative.

Construction Off-road Equipment Mitigation - Assuming compliance with BAAQMD Basic Construction Mitigation Measures and tier 2 construction equipment

Mobile Land Use Mitigation -

Energy Mitigation - Assuming compliance with 2019 Title 24 standards, high efficiency lighting, and PV panels to produce an estimated annual 830,657 kWh.

Water Mitigation - Assuming low-flow appliances and water-efficient landscaping and irrigation.

Waste Mitigation - Consistent with the CalRecycle Waste Diversion and Recycling Mandate which will reduce solid waste production by 75 percent.

Stationary Sources - Emergency Generators and Fire Pumps - Assuming the emergency generator would run 30 minutes per month.

Energy Use -

| Table Name | Column Name | Default Value | New Value |
|-------------------------|------------------------------|---------------|-----------|
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed | 0 | 15 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 4.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Annual

| | | | |
|---------------------------|----------------------------|-----------|-----------|
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 6.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 11.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | Tier | No Change | Tier 2 |
| tblConstEquipMitigation | Tier | No Change | Tier 2 |
| tblConstEquipMitigation | Tier | No Change | Tier 2 |
| tblConstEquipMitigation | Tier | No Change | Tier 2 |
| tblConstEquipMitigation | Tier | No Change | Tier 2 |
| tblConstEquipMitigation | Tier | No Change | Tier 2 |
| tblConstEquipMitigation | Tier | No Change | Tier 2 |
| tblConstEquipMitigation | Tier | No Change | Tier 2 |
| tblConstEquipMitigation | Tier | No Change | Tier 2 |
| tblConstEquipMitigation | Tier | No Change | Tier 2 |
| tblConstEquipMitigation | Tier | No Change | Tier 2 |
| tblConstEquipMitigation | Tier | No Change | Tier 2 |
| tblConstEquipMitigation | Tier | No Change | Tier 2 |
| tblConstEquipMitigation | Tier | No Change | Tier 2 |
| tblConstructionPhase | NumDays | 18.00 | 30.00 |
| tblConstructionPhase | NumDays | 230.00 | 240.00 |
| tblConstructionPhase | NumDays | 20.00 | 30.00 |
| tblConstructionPhase | NumDays | 8.00 | 20.00 |
| tblConstructionPhase | NumDays | 18.00 | 30.00 |
| tblConstructionPhase | NumDays | 5.00 | 15.00 |
| tblGrading | MaterialExported | 0.00 | 5,000.00 |
| tblLandUse | LandUseSquareFeet | 72,390.00 | 72,393.00 |
| tblProjectCharacteristics | CO2IntensityFactor | 641.35 | 328.8 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Annual

| | | | |
|---------------------------------|-------------------|-------------|-------------|
| tblStationaryGeneratorsPumpsEF | CH4_EF | 0.07 | 0.07 |
| tblStationaryGeneratorsPumpsEF | ROG_EF | 2.2480e-003 | 2.2477e-003 |
| tblStationaryGeneratorsPumpsUse | HorsePowerValue | 0.00 | 335.00 |
| tblStationaryGeneratorsPumpsUse | HoursPerDay | 0.00 | 0.02 |
| tblStationaryGeneratorsPumpsUse | HoursPerYear | 0.00 | 1.00 |
| tblStationaryGeneratorsPumpsUse | NumberOfEquipment | 0.00 | 1.00 |
| tblTripsAndVMT | HaulingTripNumber | 625.00 | 200.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 5.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 5.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 5.00 |
| tblTripsAndVMT | VendorTripNumber | 31.00 | 5.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 5.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 5.00 |
| tblTripsAndVMT | WorkerTripNumber | 15.00 | 30.00 |
| tblTripsAndVMT | WorkerTripNumber | 18.00 | 30.00 |
| tblTripsAndVMT | WorkerTripNumber | 15.00 | 30.00 |
| tblTripsAndVMT | WorkerTripNumber | 71.00 | 30.00 |
| tblTripsAndVMT | WorkerTripNumber | 20.00 | 30.00 |
| tblTripsAndVMT | WorkerTripNumber | 14.00 | 30.00 |
| tblVehicleTrips | ST_TR | 2.46 | 3.87 |
| tblVehicleTrips | SU_TR | 1.05 | 0.00 |
| tblVehicleTrips | WD_TR | 11.03 | 3.87 |

2.0 Emissions Summary

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| Quarter | Start Date | End Date | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|-----------|--|--|
| 2 | 11-7-2020 | 2-6-2021 | 0.4288 | 0.4206 |
| 3 | 2-7-2021 | 5-6-2021 | 0.8938 | 0.8912 |
| 4 | 5-7-2021 | 8-6-2021 | 0.6577 | 0.8320 |
| 5 | 8-7-2021 | 11-6-2021 | 0.6581 | 0.8323 |
| 6 | 11-7-2021 | 2-6-2022 | 0.6314 | 0.8322 |
| 7 | 2-7-2022 | 5-6-2022 | 0.5265 | 0.6907 |
| 8 | 5-7-2022 | 8-6-2022 | 0.2176 | 0.2240 |
| | | Highest | 0.8938 | 0.8912 |

2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 0.3305 | 3.0000e-005 | 3.2900e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | 0.0000 | 6.3900e-003 | 6.3900e-003 | 2.0000e-005 | 0.0000 | 6.8100e-003 |
| Energy | 6.3900e-003 | 0.0581 | 0.0488 | 3.5000e-004 | | 4.4100e-003 | 4.4100e-003 | | 4.4100e-003 | 4.4100e-003 | 0.0000 | 261.6973 | 261.6973 | 0.0187 | 4.7800e-003 | 263.5899 |
| Mobile | 0.0603 | 0.2986 | 0.6856 | 2.4600e-003 | 0.2136 | 2.2300e-003 | 0.2158 | 0.0573 | 2.0900e-003 | 0.0594 | 0.0000 | 226.2552 | 226.2552 | 8.2900e-003 | 0.0000 | 226.4624 |
| Stationary | 2.7000e-004 | 7.7000e-004 | 7.0000e-004 | 0.0000 | | 4.0000e-005 | 4.0000e-005 | | 4.0000e-005 | 4.0000e-005 | 0.0000 | 0.1276 | 0.1276 | 2.0000e-005 | 0.0000 | 0.1280 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 13.6654 | 0.0000 | 13.6654 | 0.8076 | 0.0000 | 33.8553 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 4.0818 | 14.4993 | 18.5811 | 0.4205 | 0.0102 | 32.1230 |
| Total | 0.3975 | 0.3575 | 0.7384 | 2.8100e-003 | 0.2136 | 6.6900e-003 | 0.2203 | 0.0573 | 6.5500e-003 | 0.0639 | 17.7472 | 502.5858 | 520.3329 | 1.2552 | 0.0149 | 556.1655 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Annual

2.2 Overall Operational

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|--------------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 0.3305 | 3.0000e-005 | 3.2900e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | 0.0000 | 6.3900e-003 | 6.3900e-003 | 2.0000e-005 | 0.0000 | 6.8100e-003 |
| Energy | 5.9400e-003 | 0.0540 | 0.0454 | 3.2000e-004 | | 4.1100e-003 | 4.1100e-003 | | 4.1100e-003 | 4.1100e-003 | 0.0000 | 92.9021 | 92.9021 | 4.1300e-003 | 1.7000e-003 | 93.5121 |
| Mobile | 0.0577 | 0.2797 | 0.6262 | 2.1900e-003 | 0.1884 | 2.0000e-003 | 0.1904 | 0.0506 | 1.8700e-003 | 0.0524 | 0.0000 | 201.4859 | 201.4859 | 7.6000e-003 | 0.0000 | 201.6758 |
| Stationary | 2.7000e-004 | 7.7000e-004 | 7.0000e-004 | 0.0000 | | 4.0000e-005 | 4.0000e-005 | | 4.0000e-005 | 4.0000e-005 | 0.0000 | 0.1276 | 0.1276 | 2.0000e-005 | 0.0000 | 0.1280 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 3.4163 | 0.0000 | 3.4163 | 0.2019 | 0.0000 | 8.4638 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 3.2655 | 12.1716 | 15.4371 | 0.3365 | 8.1400e-003 | 26.2750 |
| Total | 0.3945 | 0.3345 | 0.6756 | 2.5100e-003 | 0.1884 | 6.1600e-003 | 0.1945 | 0.0506 | 6.0300e-003 | 0.0566 | 6.6818 | 306.6935 | 313.3754 | 0.5501 | 9.8400e-003 | 330.0615 |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|-------------|-------------|-------------|--------------|---------------|--------------|--------------|----------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Percent Reduction | 0.77 | 6.42 | 8.50 | 10.68 | 11.80 | 7.92 | 11.68 | 11.79 | 7.94 | 11.40 | 62.35 | 38.98 | 39.77 | 56.17 | 34.14 | 40.65 |

3.0 Construction Detail

Construction Phase

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| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1 | Demolition | Demolition | 1/4/2021 | 2/12/2021 | 5 | 30 | |
| 2 | Site Preparation | Site Preparation | 2/15/2021 | 3/5/2021 | 5 | 15 | |
| 3 | Grading | Grading | 3/8/2021 | 4/2/2021 | 5 | 20 | |
| 4 | Building Construction | Building Construction | 4/5/2021 | 3/4/2022 | 5 | 240 | |
| 5 | Paving | Paving | 3/7/2022 | 4/15/2022 | 5 | 30 | |
| 6 | Architectural Coating | Architectural Coating | 4/18/2022 | 5/27/2022 | 5 | 30 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 2.56

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 108,590; Non-Residential Outdoor: 36,197; Striped Parking Area: 6,840 (Architectural Coating – sqft)

OffRoad Equipment

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Annual

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Demolition | Excavators | 3 | 8.00 | 158 | 0.38 |
| Demolition | Rubber Tired Dozers | 2 | 8.00 | 247 | 0.40 |
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |
| Grading | Excavators | 1 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Tractors/Loaders/Backhoes | 3 | 8.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |
| Paving | Cement and Mortar Mixers | 2 | 6.00 | 9 | 0.56 |
| Paving | Pavers | 1 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 6.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 6.00 | 80 | 0.38 |
| Paving | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

Trips and VMT

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Annual

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition | 6 | 30.00 | 5.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 7 | 30.00 | 5.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 6 | 30.00 | 5.00 | 200.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 30.00 | 5.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 8 | 30.00 | 5.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 30.00 | 5.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2021

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0475 | 0.4716 | 0.3235 | 5.8000e-004 | | 0.0233 | 0.0233 | | 0.0216 | 0.0216 | 0.0000 | 51.0012 | 51.0012 | 0.0144 | 0.0000 | 51.3601 |
| Total | 0.0475 | 0.4716 | 0.3235 | 5.8000e-004 | | 0.0233 | 0.0233 | | 0.0216 | 0.0216 | 0.0000 | 51.0012 | 51.0012 | 0.0144 | 0.0000 | 51.3601 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Annual

3.2 Demolition - 2021

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 2.4000e-004 | 7.8300e-003 | 1.9600e-003 | 2.0000e-005 | 4.9000e-004 | 2.0000e-005 | 5.1000e-004 | 1.4000e-004 | 2.0000e-005 | 1.6000e-004 | 0.0000 | 1.9451 | 1.9451 | 1.0000e-004 | 0.0000 | 1.9475 |
| Worker | 1.3800e-003 | 9.5000e-004 | 0.0101 | 3.0000e-005 | 3.5600e-003 | 2.0000e-005 | 3.5800e-003 | 9.5000e-004 | 2.0000e-005 | 9.7000e-004 | 0.0000 | 3.0060 | 3.0060 | 7.0000e-005 | 0.0000 | 3.0076 |
| Total | 1.6200e-003 | 8.7800e-003 | 0.0121 | 5.0000e-005 | 4.0500e-003 | 4.0000e-005 | 4.0900e-003 | 1.0900e-003 | 4.0000e-005 | 1.1300e-003 | 0.0000 | 4.9510 | 4.9510 | 1.7000e-004 | 0.0000 | 4.9551 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0189 | 0.4900 | 0.3701 | 5.8000e-004 | | 0.0137 | 0.0137 | | 0.0137 | 0.0137 | 0.0000 | 51.0011 | 51.0011 | 0.0144 | 0.0000 | 51.3600 |
| Total | 0.0189 | 0.4900 | 0.3701 | 5.8000e-004 | | 0.0137 | 0.0137 | | 0.0137 | 0.0137 | 0.0000 | 51.0011 | 51.0011 | 0.0144 | 0.0000 | 51.3600 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Annual

3.2 Demolition - 2021

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 2.4000e-004 | 7.8300e-003 | 1.9600e-003 | 2.0000e-005 | 4.9000e-004 | 2.0000e-005 | 5.1000e-004 | 1.4000e-004 | 2.0000e-005 | 1.6000e-004 | 0.0000 | 1.9451 | 1.9451 | 1.0000e-004 | 0.0000 | 1.9475 |
| Worker | 1.3800e-003 | 9.5000e-004 | 0.0101 | 3.0000e-005 | 3.5600e-003 | 2.0000e-005 | 3.5800e-003 | 9.5000e-004 | 2.0000e-005 | 9.7000e-004 | 0.0000 | 3.0060 | 3.0060 | 7.0000e-005 | 0.0000 | 3.0076 |
| Total | 1.6200e-003 | 8.7800e-003 | 0.0121 | 5.0000e-005 | 4.0500e-003 | 4.0000e-005 | 4.0900e-003 | 1.0900e-003 | 4.0000e-005 | 1.1300e-003 | 0.0000 | 4.9510 | 4.9510 | 1.7000e-004 | 0.0000 | 4.9551 |

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.1355 | 0.0000 | 0.1355 | 0.0745 | 0.0000 | 0.0745 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0292 | 0.3037 | 0.1587 | 2.9000e-004 | | 0.0153 | 0.0153 | | 0.0141 | 0.0141 | 0.0000 | 25.0768 | 25.0768 | 8.1100e-003 | 0.0000 | 25.2796 |
| Total | 0.0292 | 0.3037 | 0.1587 | 2.9000e-004 | 0.1355 | 0.0153 | 0.1508 | 0.0745 | 0.0141 | 0.0886 | 0.0000 | 25.0768 | 25.0768 | 8.1100e-003 | 0.0000 | 25.2796 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Annual

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 1.2000e-004 | 3.9200e-003 | 9.8000e-004 | 1.0000e-005 | 2.5000e-004 | 1.0000e-005 | 2.5000e-004 | 7.0000e-005 | 1.0000e-005 | 8.0000e-005 | 0.0000 | 0.9725 | 0.9725 | 5.0000e-005 | 0.0000 | 0.9737 |
| Worker | 6.9000e-004 | 4.8000e-004 | 5.0500e-003 | 2.0000e-005 | 1.7800e-003 | 1.0000e-005 | 1.7900e-003 | 4.7000e-004 | 1.0000e-005 | 4.8000e-004 | 0.0000 | 1.5030 | 1.5030 | 3.0000e-005 | 0.0000 | 1.5038 |
| Total | 8.1000e-004 | 4.4000e-003 | 6.0300e-003 | 3.0000e-005 | 2.0300e-003 | 2.0000e-005 | 2.0400e-003 | 5.4000e-004 | 2.0000e-005 | 5.6000e-004 | 0.0000 | 2.4755 | 2.4755 | 8.0000e-005 | 0.0000 | 2.4776 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0610 | 0.0000 | 0.0610 | 0.0335 | 0.0000 | 0.0335 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 9.0700e-003 | 0.2529 | 0.1722 | 2.9000e-004 | | 7.1000e-003 | 7.1000e-003 | | 7.1000e-003 | 7.1000e-003 | 0.0000 | 25.0768 | 25.0768 | 8.1100e-003 | 0.0000 | 25.2795 |
| Total | 9.0700e-003 | 0.2529 | 0.1722 | 2.9000e-004 | 0.0610 | 7.1000e-003 | 0.0681 | 0.0335 | 7.1000e-003 | 0.0406 | 0.0000 | 25.0768 | 25.0768 | 8.1100e-003 | 0.0000 | 25.2795 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Annual

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 1.2000e-004 | 3.9200e-003 | 9.8000e-004 | 1.0000e-005 | 2.5000e-004 | 1.0000e-005 | 2.5000e-004 | 7.0000e-005 | 1.0000e-005 | 8.0000e-005 | 0.0000 | 0.9725 | 0.9725 | 5.0000e-005 | 0.0000 | 0.9737 |
| Worker | 6.9000e-004 | 4.8000e-004 | 5.0500e-003 | 2.0000e-005 | 1.7800e-003 | 1.0000e-005 | 1.7900e-003 | 4.7000e-004 | 1.0000e-005 | 4.8000e-004 | 0.0000 | 1.5030 | 1.5030 | 3.0000e-005 | 0.0000 | 1.5038 |
| Total | 8.1000e-004 | 4.4000e-003 | 6.0300e-003 | 3.0000e-005 | 2.0300e-003 | 2.0000e-005 | 2.0400e-003 | 5.4000e-004 | 2.0000e-005 | 5.6000e-004 | 0.0000 | 2.4755 | 2.4755 | 8.0000e-005 | 0.0000 | 2.4776 |

3.4 Grading - 2021

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0658 | 0.0000 | 0.0658 | 0.0337 | 0.0000 | 0.0337 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0229 | 0.2474 | 0.1586 | 3.0000e-004 | | 0.0116 | 0.0116 | | 0.0107 | 0.0107 | 0.0000 | 26.0537 | 26.0537 | 8.4300e-003 | 0.0000 | 26.2644 |
| Total | 0.0229 | 0.2474 | 0.1586 | 3.0000e-004 | 0.0658 | 0.0116 | 0.0774 | 0.0337 | 0.0107 | 0.0444 | 0.0000 | 26.0537 | 26.0537 | 8.4300e-003 | 0.0000 | 26.2644 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Annual

3.4 Grading - 2021

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 7.9000e-004 | 0.0270 | 5.7500e-003 | 8.0000e-005 | 1.6900e-003 | 8.0000e-005 | 1.7700e-003 | 4.6000e-004 | 8.0000e-005 | 5.4000e-004 | 0.0000 | 7.5654 | 7.5654 | 3.9000e-004 | 0.0000 | 7.5751 |
| Vendor | 1.6000e-004 | 5.2200e-003 | 1.3000e-003 | 1.0000e-005 | 3.3000e-004 | 1.0000e-005 | 3.4000e-004 | 9.0000e-005 | 1.0000e-005 | 1.1000e-004 | 0.0000 | 1.2967 | 1.2967 | 6.0000e-005 | 0.0000 | 1.2983 |
| Worker | 9.2000e-004 | 6.4000e-004 | 6.7300e-003 | 2.0000e-005 | 2.3700e-003 | 2.0000e-005 | 2.3900e-003 | 6.3000e-004 | 1.0000e-005 | 6.4000e-004 | 0.0000 | 2.0040 | 2.0040 | 4.0000e-005 | 0.0000 | 2.0051 |
| Total | 1.8700e-003 | 0.0329 | 0.0138 | 1.1000e-004 | 4.3900e-003 | 1.1000e-004 | 4.5000e-003 | 1.1800e-003 | 1.0000e-004 | 1.2900e-003 | 0.0000 | 10.8661 | 10.8661 | 4.9000e-004 | 0.0000 | 10.8785 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0296 | 0.0000 | 0.0296 | 0.0152 | 0.0000 | 0.0152 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0101 | 0.2628 | 0.1899 | 3.0000e-004 | | 7.7200e-003 | 7.7200e-003 | | 7.7200e-003 | 7.7200e-003 | 0.0000 | 26.0537 | 26.0537 | 8.4300e-003 | 0.0000 | 26.2643 |
| Total | 0.0101 | 0.2628 | 0.1899 | 3.0000e-004 | 0.0296 | 7.7200e-003 | 0.0373 | 0.0152 | 7.7200e-003 | 0.0229 | 0.0000 | 26.0537 | 26.0537 | 8.4300e-003 | 0.0000 | 26.2643 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Annual

3.4 Grading - 2021

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 7.9000e-004 | 0.0270 | 5.7500e-003 | 8.0000e-005 | 1.6900e-003 | 8.0000e-005 | 1.7700e-003 | 4.6000e-004 | 8.0000e-005 | 5.4000e-004 | 0.0000 | 7.5654 | 7.5654 | 3.9000e-004 | 0.0000 | 7.5751 |
| Vendor | 1.6000e-004 | 5.2200e-003 | 1.3000e-003 | 1.0000e-005 | 3.3000e-004 | 1.0000e-005 | 3.4000e-004 | 9.0000e-005 | 1.0000e-005 | 1.1000e-004 | 0.0000 | 1.2967 | 1.2967 | 6.0000e-005 | 0.0000 | 1.2983 |
| Worker | 9.2000e-004 | 6.4000e-004 | 6.7300e-003 | 2.0000e-005 | 2.3700e-003 | 2.0000e-005 | 2.3900e-003 | 6.3000e-004 | 1.0000e-005 | 6.4000e-004 | 0.0000 | 2.0040 | 2.0040 | 4.0000e-005 | 0.0000 | 2.0051 |
| Total | 1.8700e-003 | 0.0329 | 0.0138 | 1.1000e-004 | 4.3900e-003 | 1.1000e-004 | 4.5000e-003 | 1.1800e-003 | 1.0000e-004 | 1.2900e-003 | 0.0000 | 10.8661 | 10.8661 | 4.9000e-004 | 0.0000 | 10.8785 |

3.5 Building Construction - 2021

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1853 | 1.6996 | 1.6161 | 2.6200e-003 | | 0.0935 | 0.0935 | | 0.0879 | 0.0879 | 0.0000 | 225.8463 | 225.8463 | 0.0545 | 0.0000 | 227.2085 |
| Total | 0.1853 | 1.6996 | 1.6161 | 2.6200e-003 | | 0.0935 | 0.0935 | | 0.0879 | 0.0879 | 0.0000 | 225.8463 | 225.8463 | 0.0545 | 0.0000 | 227.2085 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Annual

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 1.5500e-003 | 0.0509 | 0.0127 | 1.3000e-004 | 3.2000e-003 | 1.1000e-004 | 3.3100e-003 | 9.2000e-004 | 1.1000e-004 | 1.0300e-003 | 0.0000 | 12.6430 | 12.6430 | 6.2000e-004 | 0.0000 | 12.6586 |
| Worker | 8.9800e-003 | 6.1900e-003 | 0.0656 | 2.2000e-004 | 0.0231 | 1.5000e-004 | 0.0233 | 6.1500e-003 | 1.4000e-004 | 6.2900e-003 | 0.0000 | 19.5387 | 19.5387 | 4.4000e-004 | 0.0000 | 19.5497 |
| Total | 0.0105 | 0.0571 | 0.0783 | 3.5000e-004 | 0.0263 | 2.6000e-004 | 0.0266 | 7.0700e-003 | 2.5000e-004 | 7.3200e-003 | 0.0000 | 32.1817 | 32.1817 | 1.0600e-003 | 0.0000 | 32.2082 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1054 | 2.2966 | 1.7427 | 2.6200e-003 | | 0.0881 | 0.0881 | | 0.0881 | 0.0881 | 0.0000 | 225.8461 | 225.8461 | 0.0545 | 0.0000 | 227.2082 |
| Total | 0.1054 | 2.2966 | 1.7427 | 2.6200e-003 | | 0.0881 | 0.0881 | | 0.0881 | 0.0881 | 0.0000 | 225.8461 | 225.8461 | 0.0545 | 0.0000 | 227.2082 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Annual

3.5 Building Construction - 2021

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 1.5500e-003 | 0.0509 | 0.0127 | 1.3000e-004 | 3.2000e-003 | 1.1000e-004 | 3.3100e-003 | 9.2000e-004 | 1.1000e-004 | 1.0300e-003 | 0.0000 | 12.6430 | 12.6430 | 6.2000e-004 | 0.0000 | 12.6586 |
| Worker | 8.9800e-003 | 6.1900e-003 | 0.0656 | 2.2000e-004 | 0.0231 | 1.5000e-004 | 0.0233 | 6.1500e-003 | 1.4000e-004 | 6.2900e-003 | 0.0000 | 19.5387 | 19.5387 | 4.4000e-004 | 0.0000 | 19.5497 |
| Total | 0.0105 | 0.0571 | 0.0783 | 3.5000e-004 | 0.0263 | 2.6000e-004 | 0.0266 | 7.0700e-003 | 2.5000e-004 | 7.3200e-003 | 0.0000 | 32.1817 | 32.1817 | 1.0600e-003 | 0.0000 | 32.2082 |

3.5 Building Construction - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0384 | 0.3514 | 0.3682 | 6.1000e-004 | | 0.0182 | 0.0182 | | 0.0171 | 0.0171 | 0.0000 | 52.1382 | 52.1382 | 0.0125 | 0.0000 | 52.4505 |
| Total | 0.0384 | 0.3514 | 0.3682 | 6.1000e-004 | | 0.0182 | 0.0182 | | 0.0171 | 0.0171 | 0.0000 | 52.1382 | 52.1382 | 0.0125 | 0.0000 | 52.4505 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Annual

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 3.3000e-004 | 0.0111 | 2.7600e-003 | 3.0000e-005 | 7.4000e-004 | 2.0000e-005 | 7.6000e-004 | 2.1000e-004 | 2.0000e-005 | 2.3000e-004 | 0.0000 | 2.8890 | 2.8890 | 1.4000e-004 | 0.0000 | 2.8924 |
| Worker | 1.9300e-003 | 1.2800e-003 | 0.0139 | 5.0000e-005 | 5.3300e-003 | 3.0000e-005 | 5.3700e-003 | 1.4200e-003 | 3.0000e-005 | 1.4500e-003 | 0.0000 | 4.3436 | 4.3436 | 9.0000e-005 | 0.0000 | 4.3459 |
| Total | 2.2600e-003 | 0.0124 | 0.0167 | 8.0000e-005 | 6.0700e-003 | 5.0000e-005 | 6.1300e-003 | 1.6300e-003 | 5.0000e-005 | 1.6800e-003 | 0.0000 | 7.2326 | 7.2326 | 2.3000e-004 | 0.0000 | 7.2383 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0243 | 0.5300 | 0.4022 | 6.1000e-004 | | 0.0203 | 0.0203 | | 0.0203 | 0.0203 | 0.0000 | 52.1381 | 52.1381 | 0.0125 | 0.0000 | 52.4504 |
| Total | 0.0243 | 0.5300 | 0.4022 | 6.1000e-004 | | 0.0203 | 0.0203 | | 0.0203 | 0.0203 | 0.0000 | 52.1381 | 52.1381 | 0.0125 | 0.0000 | 52.4504 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Annual

3.5 Building Construction - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 3.3000e-004 | 0.0111 | 2.7600e-003 | 3.0000e-005 | 7.4000e-004 | 2.0000e-005 | 7.6000e-004 | 2.1000e-004 | 2.0000e-005 | 2.3000e-004 | 0.0000 | 2.8890 | 2.8890 | 1.4000e-004 | 0.0000 | 2.8924 |
| Worker | 1.9300e-003 | 1.2800e-003 | 0.0139 | 5.0000e-005 | 5.3300e-003 | 3.0000e-005 | 5.3700e-003 | 1.4200e-003 | 3.0000e-005 | 1.4500e-003 | 0.0000 | 4.3436 | 4.3436 | 9.0000e-005 | 0.0000 | 4.3459 |
| Total | 2.2600e-003 | 0.0124 | 0.0167 | 8.0000e-005 | 6.0700e-003 | 5.0000e-005 | 6.1300e-003 | 1.6300e-003 | 5.0000e-005 | 1.6800e-003 | 0.0000 | 7.2326 | 7.2326 | 2.3000e-004 | 0.0000 | 7.2383 |

3.6 Paving - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0147 | 0.1428 | 0.1829 | 2.8000e-004 | | 7.3100e-003 | 7.3100e-003 | | 6.7600e-003 | 6.7600e-003 | 0.0000 | 24.5638 | 24.5638 | 7.7200e-003 | 0.0000 | 24.7567 |
| Paving | 3.3500e-003 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0180 | 0.1428 | 0.1829 | 2.8000e-004 | | 7.3100e-003 | 7.3100e-003 | | 6.7600e-003 | 6.7600e-003 | 0.0000 | 24.5638 | 24.5638 | 7.7200e-003 | 0.0000 | 24.7567 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Annual

3.6 Paving - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 2.2000e-004 | 7.4200e-003 | 1.8400e-003 | 2.0000e-005 | 4.9000e-004 | 1.0000e-005 | 5.1000e-004 | 1.4000e-004 | 1.0000e-005 | 1.6000e-004 | 0.0000 | 1.9260 | 1.9260 | 9.0000e-005 | 0.0000 | 1.9283 |
| Worker | 1.2900e-003 | 8.5000e-004 | 9.2800e-003 | 3.0000e-005 | 3.5600e-003 | 2.0000e-005 | 3.5800e-003 | 9.5000e-004 | 2.0000e-005 | 9.7000e-004 | 0.0000 | 2.8958 | 2.8958 | 6.0000e-005 | 0.0000 | 2.8973 |
| Total | 1.5100e-003 | 8.2700e-003 | 0.0111 | 5.0000e-005 | 4.0500e-003 | 3.0000e-005 | 4.0900e-003 | 1.0900e-003 | 3.0000e-005 | 1.1300e-003 | 0.0000 | 4.8218 | 4.8218 | 1.5000e-004 | 0.0000 | 4.8256 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0113 | 0.2413 | 0.2030 | 2.8000e-004 | | 8.4000e-003 | 8.4000e-003 | | 8.4000e-003 | 8.4000e-003 | 0.0000 | 24.5638 | 24.5638 | 7.7200e-003 | 0.0000 | 24.7567 |
| Paving | 3.3500e-003 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0146 | 0.2413 | 0.2030 | 2.8000e-004 | | 8.4000e-003 | 8.4000e-003 | | 8.4000e-003 | 8.4000e-003 | 0.0000 | 24.5638 | 24.5638 | 7.7200e-003 | 0.0000 | 24.7567 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Annual

3.6 Paving - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 2.2000e-004 | 7.4200e-003 | 1.8400e-003 | 2.0000e-005 | 4.9000e-004 | 1.0000e-005 | 5.1000e-004 | 1.4000e-004 | 1.0000e-005 | 1.6000e-004 | 0.0000 | 1.9260 | 1.9260 | 9.0000e-005 | 0.0000 | 1.9283 |
| Worker | 1.2900e-003 | 8.5000e-004 | 9.2800e-003 | 3.0000e-005 | 3.5600e-003 | 2.0000e-005 | 3.5800e-003 | 9.5000e-004 | 2.0000e-005 | 9.7000e-004 | 0.0000 | 2.8958 | 2.8958 | 6.0000e-005 | 0.0000 | 2.8973 |
| Total | 1.5100e-003 | 8.2700e-003 | 0.0111 | 5.0000e-005 | 4.0500e-003 | 3.0000e-005 | 4.0900e-003 | 1.0900e-003 | 3.0000e-005 | 1.1300e-003 | 0.0000 | 4.8218 | 4.8218 | 1.5000e-004 | 0.0000 | 4.8256 |

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 0.4013 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 3.0700e-003 | 0.0211 | 0.0272 | 4.0000e-005 | | 1.2300e-003 | 1.2300e-003 | | 1.2300e-003 | 1.2300e-003 | 0.0000 | 3.8299 | 3.8299 | 2.5000e-004 | 0.0000 | 3.8361 |
| Total | 0.4043 | 0.0211 | 0.0272 | 4.0000e-005 | | 1.2300e-003 | 1.2300e-003 | | 1.2300e-003 | 1.2300e-003 | 0.0000 | 3.8299 | 3.8299 | 2.5000e-004 | 0.0000 | 3.8361 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Annual

3.7 Architectural Coating - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 2.2000e-004 | 7.4200e-003 | 1.8400e-003 | 2.0000e-005 | 4.9000e-004 | 1.0000e-005 | 5.1000e-004 | 1.4000e-004 | 1.0000e-005 | 1.6000e-004 | 0.0000 | 1.9260 | 1.9260 | 9.0000e-005 | 0.0000 | 1.9283 |
| Worker | 1.2900e-003 | 8.5000e-004 | 9.2800e-003 | 3.0000e-005 | 3.5600e-003 | 2.0000e-005 | 3.5800e-003 | 9.5000e-004 | 2.0000e-005 | 9.7000e-004 | 0.0000 | 2.8958 | 2.8958 | 6.0000e-005 | 0.0000 | 2.8973 |
| Total | 1.5100e-003 | 8.2700e-003 | 0.0111 | 5.0000e-005 | 4.0500e-003 | 3.0000e-005 | 4.0900e-003 | 1.0900e-003 | 3.0000e-005 | 1.1300e-003 | 0.0000 | 4.8218 | 4.8218 | 1.5000e-004 | 0.0000 | 4.8256 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 0.4013 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 1.7100e-003 | 0.0353 | 0.0275 | 4.0000e-005 | | 1.4300e-003 | 1.4300e-003 | | 1.4300e-003 | 1.4300e-003 | 0.0000 | 3.8299 | 3.8299 | 2.5000e-004 | 0.0000 | 3.8361 |
| Total | 0.4030 | 0.0353 | 0.0275 | 4.0000e-005 | | 1.4300e-003 | 1.4300e-003 | | 1.4300e-003 | 1.4300e-003 | 0.0000 | 3.8299 | 3.8299 | 2.5000e-004 | 0.0000 | 3.8361 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Annual

3.7 Architectural Coating - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 2.2000e-004 | 7.4200e-003 | 1.8400e-003 | 2.0000e-005 | 4.9000e-004 | 1.0000e-005 | 5.1000e-004 | 1.4000e-004 | 1.0000e-005 | 1.6000e-004 | 0.0000 | 1.9260 | 1.9260 | 9.0000e-005 | 0.0000 | 1.9283 |
| Worker | 1.2900e-003 | 8.5000e-004 | 9.2800e-003 | 3.0000e-005 | 3.5600e-003 | 2.0000e-005 | 3.5800e-003 | 9.5000e-004 | 2.0000e-005 | 9.7000e-004 | 0.0000 | 2.8958 | 2.8958 | 6.0000e-005 | 0.0000 | 2.8973 |
| Total | 1.5100e-003 | 8.2700e-003 | 0.0111 | 5.0000e-005 | 4.0500e-003 | 3.0000e-005 | 4.0900e-003 | 1.0900e-003 | 3.0000e-005 | 1.1300e-003 | 0.0000 | 4.8218 | 4.8218 | 1.5000e-004 | 0.0000 | 4.8256 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Diversity

Improve Pedestrian Network

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Annual

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|--------|----------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.0577 | 0.2797 | 0.6262 | 2.1900e-003 | 0.1884 | 2.0000e-003 | 0.1904 | 0.0506 | 1.8700e-003 | 0.0524 | 0.0000 | 201.4859 | 201.4859 | 7.6000e-003 | 0.0000 | 201.6758 |
| Unmitigated | 0.0603 | 0.2986 | 0.6856 | 2.4600e-003 | 0.2136 | 2.2300e-003 | 0.2158 | 0.0573 | 2.0900e-003 | 0.0594 | 0.0000 | 226.2552 | 226.2552 | 8.2900e-003 | 0.0000 | 226.4624 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------|-------------------------|----------|--------|-------------|------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| General Office Building | 280.15 | 280.15 | 0.00 | 573,846 | 506,133 |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Total | 280.15 | 280.15 | 0.00 | 573,846 | 506,133 |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|-------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| General Office Building | 9.50 | 7.30 | 7.30 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Parking Lot | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| General Office Building | 0.576985 | 0.039376 | 0.193723 | 0.112069 | 0.016317 | 0.005358 | 0.017943 | 0.025814 | 0.002614 | 0.002274 | 0.005874 | 0.000887 | 0.000768 |
| Parking Lot | 0.576985 | 0.039376 | 0.193723 | 0.112069 | 0.016317 | 0.005358 | 0.017943 | 0.025814 | 0.002614 | 0.002274 | 0.005874 | 0.000887 | 0.000768 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Annual

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Kilowatt Hours of Renewable Electricity Generated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|-------------|--------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 34.0727 | 34.0727 | 3.0100e-003 | 6.2000e-004 | 34.3331 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 198.4573 | 198.4573 | 0.0175 | 3.6200e-003 | 199.9741 |
| NaturalGas Mitigated | 5.9400e-003 | 0.0540 | 0.0454 | 3.2000e-004 | | 4.1100e-003 | 4.1100e-003 | | 4.1100e-003 | 4.1100e-003 | 0.0000 | 58.8295 | 58.8295 | 1.1300e-003 | 1.0800e-003 | 59.1791 |
| NaturalGas Unmitigated | 6.3900e-003 | 0.0581 | 0.0488 | 3.5000e-004 | | 4.4100e-003 | 4.4100e-003 | | 4.4100e-003 | 4.4100e-003 | 0.0000 | 63.2400 | 63.2400 | 1.2100e-003 | 1.1600e-003 | 63.6158 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| General Office Building | 1.18507e+006 | 6.3900e-003 | 0.0581 | 0.0488 | 3.5000e-004 | | 4.4100e-003 | 4.4100e-003 | | 4.4100e-003 | 4.4100e-003 | 0.0000 | 63.2400 | 63.2400 | 1.2100e-003 | 1.1600e-003 | 63.6158 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 6.3900e-003 | 0.0581 | 0.0488 | 3.5000e-004 | | 4.4100e-003 | 4.4100e-003 | | 4.4100e-003 | 4.4100e-003 | 0.0000 | 63.2400 | 63.2400 | 1.2100e-003 | 1.1600e-003 | 63.6158 |

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| General Office Building | 1.10242e+006 | 5.9400e-003 | 0.0540 | 0.0454 | 3.2000e-004 | | 4.1100e-003 | 4.1100e-003 | | 4.1100e-003 | 4.1100e-003 | 0.0000 | 58.8295 | 58.8295 | 1.1300e-003 | 1.0800e-003 | 59.1791 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 5.9400e-003 | 0.0540 | 0.0454 | 3.2000e-004 | | 4.1100e-003 | 4.1100e-003 | | 4.1100e-003 | 4.1100e-003 | 0.0000 | 58.8295 | 58.8295 | 1.1300e-003 | 1.0800e-003 | 59.1791 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|-----------------|-----------------|---------------|--------------------|-----------------|
| Land Use | kWh/yr | MT/yr | | | |
| General Office Building | 1.29077e+006 | 192.5065 | 0.0170 | 3.5100e-003 | 193.9779 |
| Parking Lot | 39900 | 5.9507 | 5.2000e-004 | 1.1000e-004 | 5.9962 |
| Total | | 198.4573 | 0.0175 | 3.6200e-003 | 199.9741 |

Mitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|-----------------|----------------|--------------------|--------------------|----------------|
| Land Use | kWh/yr | MT/yr | | | |
| General Office Building | 633813 | 94.5276 | 8.3400e-003 | 1.7200e-003 | 95.2500 |
| Parking Lot | -405354 | -60.4549 | -0.0053 | -0.0011 | -60.9170 |
| Total | | 34.0727 | 3.0100e-003 | 6.2000e-004 | 34.3331 |

6.0 Area Detail

6.1 Mitigation Measures Area

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Annual

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|-------------|-------------|--------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-------------|-------------|--------|-------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.3305 | 3.0000e-005 | 3.2900e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | 0.0000 | 6.3900e-003 | 6.3900e-003 | 2.0000e-005 | 0.0000 | 6.8100e-003 |
| Unmitigated | 0.3305 | 3.0000e-005 | 3.2900e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | 0.0000 | 6.3900e-003 | 6.3900e-003 | 2.0000e-005 | 0.0000 | 6.8100e-003 |

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|--------------------|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.0401 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.2901 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 3.1000e-004 | 3.0000e-005 | 3.2900e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | 0.0000 | 6.3900e-003 | 6.3900e-003 | 2.0000e-005 | 0.0000 | 6.8100e-003 |
| Total | 0.3305 | 3.0000e-005 | 3.2900e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | 0.0000 | 6.3900e-003 | 6.3900e-003 | 2.0000e-005 | 0.0000 | 6.8100e-003 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Annual

6.2 Area by SubCategory

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|--------------------|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.0401 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.2901 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 3.1000e-004 | 3.0000e-005 | 3.2900e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | 0.0000 | 6.3900e-003 | 6.3900e-003 | 2.0000e-005 | 0.0000 | 6.8100e-003 |
| Total | 0.3305 | 3.0000e-005 | 3.2900e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | 0.0000 | 6.3900e-003 | 6.3900e-003 | 2.0000e-005 | 0.0000 | 6.8100e-003 |

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Annual

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|-------------|---------|
| Category | MT/yr | | | |
| Mitigated | 15.4371 | 0.3365 | 8.1400e-003 | 26.2750 |
| Unmitigated | 18.5811 | 0.4205 | 0.0102 | 32.1230 |

7.2 Water by Land Use

Unmitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|--------------------|----------------|---------------|---------------|----------------|
| Land Use | Mgal | MT/yr | | | |
| General Office Building | 12.8661 / 7.8857 | 18.5811 | 0.4205 | 0.0102 | 32.1230 |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 18.5811 | 0.4205 | 0.0102 | 32.1230 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Annual

7.2 Water by Land Use

Mitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|--------------------|----------------|---------------|--------------------|----------------|
| Land Use | Mgal | MT/yr | | | |
| General Office Building | 10.2929 / 7.40467 | 15.4371 | 0.3365 | 8.1400e-003 | 26.2750 |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 15.4371 | 0.3365 | 8.1400e-003 | 26.2750 |

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Annual

Category/Year

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|--------|---------|
| | MT/yr | | | |
| Mitigated | 3.4163 | 0.2019 | 0.0000 | 8.4638 |
| Unmitigated | 13.6654 | 0.8076 | 0.0000 | 33.8553 |

8.2 Waste by Land Use

Unmitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|----------------|---------------|---------------|----------------|
| Land Use | tons | MT/yr | | | |
| General Office Building | 67.32 | 13.6654 | 0.8076 | 0.0000 | 33.8553 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 13.6654 | 0.8076 | 0.0000 | 33.8553 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Annual

8.2 Waste by Land Use

Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|---------------|---------------|---------------|---------------|
| Land Use | tons | MT/yr | | | |
| General Office Building | 16.83 | 3.4163 | 0.2019 | 0.0000 | 8.4638 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 3.4163 | 0.2019 | 0.0000 | 8.4638 |

9.0 Operational Offroad

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

| Equipment Type | Number | Hours/Day | Hours/Year | Horse Power | Load Factor | Fuel Type |
|---------------------|--------|-----------|------------|-------------|-------------|-----------|
| Emergency Generator | 1 | 0.02 | 1 | 335 | 0.73 | Diesel |

Boilers

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Annual

10.1 Stationary Sources

Unmitigated/Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|--------------------|--------------------|--------------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Equipment Type | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Emergency Generator - Diesel (300 - 600 HP) | 2.7000e-004 | 7.7000e-004 | 7.0000e-004 | 0.0000 | | 4.0000e-005 | 4.0000e-005 | | 4.0000e-005 | 4.0000e-005 | 0.0000 | 0.1276 | 0.1276 | 2.0000e-005 | 0.0000 | 0.1280 |
| Total | 2.7000e-004 | 7.7000e-004 | 7.0000e-004 | 0.0000 | | 4.0000e-005 | 4.0000e-005 | | 4.0000e-005 | 4.0000e-005 | 0.0000 | 0.1276 | 0.1276 | 2.0000e-005 | 0.0000 | 0.1280 |

11.0 Vegetation

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Summer

**City of San José Fire Training and Emergency Operation Center Relocation Project
Bay Area AQMD Air District, Summer**

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------|--------|----------|-------------|--------------------|------------|
| General Office Building | 72.39 | 1000sqft | 1.66 | 72,393.00 | 0 |
| Parking Lot | 285.00 | Space | 2.56 | 114,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|--------------------------------|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 64 |
| Climate Zone | 4 | | | Operational Year | 2022 |
| Utility Company | Pacific Gas & Electric Company | | | | |
| CO2 Intensity (lb/MW hr) | 328.8 | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Summer

Project Characteristics - CO2 intensity factor based on 5-year average (PG&E 2015)

Land Use - Government Office Building includes the new buildings and renovated Building D4. The entire project site is approximately 26 acres; however site improvements would only occur on a portion of the site.

Construction Phase - Construction of the proposed Project is anticipated to occur over the course of 16 months. Project construction is estimated to begin in January 2021 and be completed by June 2022.

Trips and VMT - Approximately 30 workers would be on the site on a typical day during project construction. Hauling/deliveries to and from the construction site would amount to approximately 5 to 10 trips per day.

Grading - The design is intended to minimize import or export but less than 5,000 cubic yards export is anticipated. Duration of grading operations is likely two to six months.

Vehicle Trips - Based on the trip generation prepared for the project. Assuming operational Monday through Saturday to be conservative.

Construction Off-road Equipment Mitigation - Assuming compliance with BAAQMD Basic Construction Mitigation Measures and tier 2 construction equipment

Mobile Land Use Mitigation -

Energy Mitigation - Assuming compliance with 2019 Title 24 standards, high efficiency lighting, and PV panels to produce an estimated annual 830,657 kWh.

Water Mitigation - Assuming low-flow appliances and water-efficient landscaping and irrigation.

Waste Mitigation - Consistent with the CalRecycle Waste Diversion and Recycling Mandate which will reduce solid waste production by 75 percent.

Stationary Sources - Emergency Generators and Fire Pumps - Assuming the emergency generator would run 30 minutes per month.

Energy Use -

| Table Name | Column Name | Default Value | New Value |
|-------------------------|------------------------------|---------------|-----------|
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed | 0 | 15 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 4.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Summer

| | | | |
|---------------------------|----------------------------|-----------|-----------|
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 6.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 11.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | Tier | No Change | Tier 2 |
| tblConstEquipMitigation | Tier | No Change | Tier 2 |
| tblConstEquipMitigation | Tier | No Change | Tier 2 |
| tblConstEquipMitigation | Tier | No Change | Tier 2 |
| tblConstEquipMitigation | Tier | No Change | Tier 2 |
| tblConstEquipMitigation | Tier | No Change | Tier 2 |
| tblConstEquipMitigation | Tier | No Change | Tier 2 |
| tblConstEquipMitigation | Tier | No Change | Tier 2 |
| tblConstEquipMitigation | Tier | No Change | Tier 2 |
| tblConstEquipMitigation | Tier | No Change | Tier 2 |
| tblConstEquipMitigation | Tier | No Change | Tier 2 |
| tblConstEquipMitigation | Tier | No Change | Tier 2 |
| tblConstEquipMitigation | Tier | No Change | Tier 2 |
| tblConstEquipMitigation | Tier | No Change | Tier 2 |
| tblConstructionPhase | NumDays | 18.00 | 30.00 |
| tblConstructionPhase | NumDays | 230.00 | 240.00 |
| tblConstructionPhase | NumDays | 20.00 | 30.00 |
| tblConstructionPhase | NumDays | 8.00 | 20.00 |
| tblConstructionPhase | NumDays | 18.00 | 30.00 |
| tblConstructionPhase | NumDays | 5.00 | 15.00 |
| tblGrading | MaterialExported | 0.00 | 5,000.00 |
| tblLandUse | LandUseSquareFeet | 72,390.00 | 72,393.00 |
| tblProjectCharacteristics | CO2IntensityFactor | 641.35 | 328.8 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Summer

| | | | |
|---------------------------------|-------------------|-------------|-------------|
| tblStationaryGeneratorsPumpsEF | CH4_EF | 0.07 | 0.07 |
| tblStationaryGeneratorsPumpsEF | ROG_EF | 2.2480e-003 | 2.2477e-003 |
| tblStationaryGeneratorsPumpsUse | HorsePowerValue | 0.00 | 335.00 |
| tblStationaryGeneratorsPumpsUse | HoursPerDay | 0.00 | 0.02 |
| tblStationaryGeneratorsPumpsUse | HoursPerYear | 0.00 | 1.00 |
| tblStationaryGeneratorsPumpsUse | NumberOfEquipment | 0.00 | 1.00 |
| tblTripsAndVMT | HaulingTripNumber | 625.00 | 200.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 5.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 5.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 5.00 |
| tblTripsAndVMT | VendorTripNumber | 31.00 | 5.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 5.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 5.00 |
| tblTripsAndVMT | WorkerTripNumber | 15.00 | 30.00 |
| tblTripsAndVMT | WorkerTripNumber | 18.00 | 30.00 |
| tblTripsAndVMT | WorkerTripNumber | 15.00 | 30.00 |
| tblTripsAndVMT | WorkerTripNumber | 71.00 | 30.00 |
| tblTripsAndVMT | WorkerTripNumber | 20.00 | 30.00 |
| tblTripsAndVMT | WorkerTripNumber | 14.00 | 30.00 |
| tblVehicleTrips | ST_TR | 2.46 | 3.87 |
| tblVehicleTrips | SU_TR | 1.05 | 0.00 |
| tblVehicleTrips | WD_TR | 11.03 | 3.87 |

2.0 Emissions Summary

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Summer

2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|--------------------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 1.8129 | 3.3000e-004 | 0.0366 | 0.0000 | | 1.3000e-004 | 1.3000e-004 | | 1.3000e-004 | 1.3000e-004 | | 0.0782 | 0.0782 | 2.1000e-004 | | 0.0834 |
| Energy | 0.0350 | 0.3183 | 0.2674 | 1.9100e-003 | | 0.0242 | 0.0242 | | 0.0242 | 0.0242 | | 381.9737 | 381.9737 | 7.3200e-003 | 7.0000e-003 | 384.2436 |
| Mobile | 0.4426 | 1.8563 | 4.5761 | 0.0167 | 1.4223 | 0.0143 | 1.4366 | 0.3805 | 0.0134 | 0.3939 | | 1,691.6455 | 1,691.6455 | 0.0589 | | 1,693.1186 |
| Stationary | 0.0110 | 0.0307 | 0.0280 | 5.0000e-005 | | 1.6200e-003 | 1.6200e-003 | | 1.6200e-003 | 1.6200e-003 | | 5.6247 | 5.6247 | 7.9000e-004 | | 5.6445 |
| Total | 2.3015 | 2.2056 | 4.9080 | 0.0187 | 1.4223 | 0.0402 | 1.4626 | 0.3805 | 0.0393 | 0.4199 | | 2,079.3221 | 2,079.3221 | 0.0672 | 7.0000e-003 | 2,083.0900 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Summer

2.2 Overall Operational

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|--------------------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 1.8129 | 3.3000e-004 | 0.0366 | 0.0000 | | 1.3000e-004 | 1.3000e-004 | | 1.3000e-004 | 1.3000e-004 | | 0.0782 | 0.0782 | 2.1000e-004 | | 0.0834 |
| Energy | 0.0326 | 0.2961 | 0.2487 | 1.7800e-003 | | 0.0225 | 0.0225 | | 0.0225 | 0.0225 | | 355.3335 | 355.3335 | 6.8100e-003 | 6.5100e-003 | 357.4451 |
| Mobile | 0.4256 | 1.7422 | 4.1467 | 0.0149 | 1.2545 | 0.0128 | 1.2673 | 0.3356 | 0.0120 | 0.3476 | | 1,506.2006 | 1,506.2006 | 0.0538 | | 1,507.5460 |
| Stationary | 0.0110 | 0.0307 | 0.0280 | 5.0000e-005 | | 1.6200e-003 | 1.6200e-003 | | 1.6200e-003 | 1.6200e-003 | | 5.6247 | 5.6247 | 7.9000e-004 | | 5.6445 |
| Total | 2.2820 | 2.0693 | 4.4600 | 0.0167 | 1.2545 | 0.0370 | 1.2915 | 0.3356 | 0.0362 | 0.3719 | | 1,867.2371 | 1,867.2371 | 0.0616 | 6.5100e-003 | 1,870.7189 |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|-------------|-------------|-------------|--------------|---------------|--------------|--------------|----------------|---------------|--------------|-------------|--------------|--------------|-------------|-------------|--------------|
| Percent Reduction | 0.84 | 6.18 | 9.13 | 10.49 | 11.80 | 7.93 | 11.69 | 11.80 | 7.86 | 11.43 | 0.00 | 10.20 | 10.20 | 8.34 | 7.00 | 10.20 |

3.0 Construction Detail

Construction Phase

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Summer

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1 | Demolition | Demolition | 1/4/2021 | 2/12/2021 | 5 | 30 | |
| 2 | Site Preparation | Site Preparation | 2/15/2021 | 3/5/2021 | 5 | 15 | |
| 3 | Grading | Grading | 3/8/2021 | 4/2/2021 | 5 | 20 | |
| 4 | Building Construction | Building Construction | 4/5/2021 | 3/4/2022 | 5 | 240 | |
| 5 | Paving | Paving | 3/7/2022 | 4/15/2022 | 5 | 30 | |
| 6 | Architectural Coating | Architectural Coating | 4/18/2022 | 5/27/2022 | 5 | 30 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 2.56

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 108,590; Non-Residential Outdoor: 36,197; Striped Parking Area: 6,840 (Architectural Coating – sqft)

OffRoad Equipment

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Summer

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Demolition | Excavators | 3 | 8.00 | 158 | 0.38 |
| Demolition | Rubber Tired Dozers | 2 | 8.00 | 247 | 0.40 |
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |
| Grading | Excavators | 1 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Tractors/Loaders/Backhoes | 3 | 8.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |
| Paving | Cement and Mortar Mixers | 2 | 6.00 | 9 | 0.56 |
| Paving | Pavers | 1 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 6.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 6.00 | 80 | 0.38 |
| Paving | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

Trips and VMT

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Summer

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition | 6 | 30.00 | 5.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 7 | 30.00 | 5.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 6 | 30.00 | 5.00 | 200.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 30.00 | 5.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 8 | 30.00 | 5.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 30.00 | 5.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2021

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 3.1651 | 31.4407 | 21.5650 | 0.0388 | | 1.5513 | 1.5513 | | 1.4411 | 1.4411 | | 3,747.9449 | 3,747.9449 | 1.0549 | | 3,774.3174 |
| Total | 3.1651 | 31.4407 | 21.5650 | 0.0388 | | 1.5513 | 1.5513 | | 1.4411 | 1.4411 | | 3,747.9449 | 3,747.9449 | 1.0549 | | 3,774.3174 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Summer

3.2 Demolition - 2021

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0155 | 0.5167 | 0.1218 | 1.3600e-003 | 0.0339 | 1.1200e-003 | 0.0350 | 9.7400e-003 | 1.0700e-003 | 0.0108 | | 144.4793 | 144.4793 | 6.7800e-003 | | 144.6488 |
| Worker | 0.0965 | 0.0564 | 0.7369 | 2.3800e-003 | 0.2464 | 1.5500e-003 | 0.2480 | 0.0654 | 1.4300e-003 | 0.0668 | | 237.5879 | 237.5879 | 5.3100e-003 | | 237.7206 |
| Total | 0.1120 | 0.5731 | 0.8587 | 3.7400e-003 | 0.2803 | 2.6700e-003 | 0.2830 | 0.0751 | 2.5000e-003 | 0.0776 | | 382.0671 | 382.0671 | 0.0121 | | 382.3694 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.2617 | 32.6638 | 24.6739 | 0.0388 | | 0.9135 | 0.9135 | | 0.9135 | 0.9135 | 0.0000 | 3,747.9449 | 3,747.9449 | 1.0549 | | 3,774.3174 |
| Total | 1.2617 | 32.6638 | 24.6739 | 0.0388 | | 0.9135 | 0.9135 | | 0.9135 | 0.9135 | 0.0000 | 3,747.9449 | 3,747.9449 | 1.0549 | | 3,774.3174 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Summer

3.2 Demolition - 2021

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0155 | 0.5167 | 0.1218 | 1.3600e-003 | 0.0339 | 1.1200e-003 | 0.0350 | 9.7400e-003 | 1.0700e-003 | 0.0108 | | 144.4793 | 144.4793 | 6.7800e-003 | | 144.6488 |
| Worker | 0.0965 | 0.0564 | 0.7369 | 2.3800e-003 | 0.2464 | 1.5500e-003 | 0.2480 | 0.0654 | 1.4300e-003 | 0.0668 | | 237.5879 | 237.5879 | 5.3100e-003 | | 237.7206 |
| Total | 0.1120 | 0.5731 | 0.8587 | 3.7400e-003 | 0.2803 | 2.6700e-003 | 0.2830 | 0.0751 | 2.5000e-003 | 0.0776 | | 382.0671 | 382.0671 | 0.0121 | | 382.3694 |

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 18.0663 | 0.0000 | 18.0663 | 9.9307 | 0.0000 | 9.9307 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.8882 | 40.4971 | 21.1543 | 0.0380 | | 2.0445 | 2.0445 | | 1.8809 | 1.8809 | | 3,685.6569 | 3,685.6569 | 1.1920 | | 3,715.4573 |
| Total | 3.8882 | 40.4971 | 21.1543 | 0.0380 | 18.0663 | 2.0445 | 20.1107 | 9.9307 | 1.8809 | 11.8116 | | 3,685.6569 | 3,685.6569 | 1.1920 | | 3,715.4573 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Summer

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0155 | 0.5167 | 0.1218 | 1.3600e-003 | 0.0339 | 1.1200e-003 | 0.0350 | 9.7400e-003 | 1.0700e-003 | 0.0108 | | 144.4793 | 144.4793 | 6.7800e-003 | | 144.6488 |
| Worker | 0.0965 | 0.0564 | 0.7369 | 2.3800e-003 | 0.2464 | 1.5500e-003 | 0.2480 | 0.0654 | 1.4300e-003 | 0.0668 | | 237.5879 | 237.5879 | 5.3100e-003 | | 237.7206 |
| Total | 0.1120 | 0.5731 | 0.8587 | 3.7400e-003 | 0.2803 | 2.6700e-003 | 0.2830 | 0.0751 | 2.5000e-003 | 0.0776 | | 382.0671 | 382.0671 | 0.0121 | | 382.3694 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 8.1298 | 0.0000 | 8.1298 | 4.4688 | 0.0000 | 4.4688 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.2097 | 33.7214 | 22.9600 | 0.0380 | | 0.9462 | 0.9462 | | 0.9462 | 0.9462 | 0.0000 | 3,685.6569 | 3,685.6569 | 1.1920 | | 3,715.4573 |
| Total | 1.2097 | 33.7214 | 22.9600 | 0.0380 | 8.1298 | 0.9462 | 9.0760 | 4.4688 | 0.9462 | 5.4150 | 0.0000 | 3,685.6569 | 3,685.6569 | 1.1920 | | 3,715.4573 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Summer

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0155 | 0.5167 | 0.1218 | 1.3600e-003 | 0.0339 | 1.1200e-003 | 0.0350 | 9.7400e-003 | 1.0700e-003 | 0.0108 | | 144.4793 | 144.4793 | 6.7800e-003 | | 144.6488 |
| Worker | 0.0965 | 0.0564 | 0.7369 | 2.3800e-003 | 0.2464 | 1.5500e-003 | 0.2480 | 0.0654 | 1.4300e-003 | 0.0668 | | 237.5879 | 237.5879 | 5.3100e-003 | | 237.7206 |
| Total | 0.1120 | 0.5731 | 0.8587 | 3.7400e-003 | 0.2803 | 2.6700e-003 | 0.2830 | 0.0751 | 2.5000e-003 | 0.0776 | | 382.0671 | 382.0671 | 0.0121 | | 382.3694 |

3.4 Grading - 2021

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 6.5806 | 0.0000 | 6.5806 | 3.3718 | 0.0000 | 3.3718 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.2903 | 24.7367 | 15.8575 | 0.0296 | | 1.1599 | 1.1599 | | 1.0671 | 1.0671 | | 2,871.9285 | 2,871.9285 | 0.9288 | | 2,895.1495 |
| Total | 2.2903 | 24.7367 | 15.8575 | 0.0296 | 6.5806 | 1.1599 | 7.7405 | 3.3718 | 1.0671 | 4.4389 | | 2,871.9285 | 2,871.9285 | 0.9288 | | 2,895.1495 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Summer

3.4 Grading - 2021

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0779 | 2.6460 | 0.5578 | 7.8500e-003 | 0.1747 | 8.3000e-003 | 0.1830 | 0.0479 | 7.9400e-003 | 0.0558 | | 839.9097 | 839.9097 | 0.0417 | | 840.9517 |
| Vendor | 0.0155 | 0.5167 | 0.1218 | 1.3600e-003 | 0.0339 | 1.1200e-003 | 0.0350 | 9.7400e-003 | 1.0700e-003 | 0.0108 | | 144.4793 | 144.4793 | 6.7800e-003 | | 144.6488 |
| Worker | 0.0965 | 0.0564 | 0.7369 | 2.3800e-003 | 0.2464 | 1.5500e-003 | 0.2480 | 0.0654 | 1.4300e-003 | 0.0668 | | 237.5879 | 237.5879 | 5.3100e-003 | | 237.7206 |
| Total | 0.1899 | 3.2191 | 1.4165 | 0.0116 | 0.4550 | 0.0110 | 0.4660 | 0.1230 | 0.0104 | 0.1334 | | 1,221.9768 | 1,221.9768 | 0.0538 | | 1,223.3211 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 2.9613 | 0.0000 | 2.9613 | 1.5173 | 0.0000 | 1.5173 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.0093 | 26.2791 | 18.9906 | 0.0296 | | 0.7725 | 0.7725 | | 0.7725 | 0.7725 | 0.0000 | 2,871.9285 | 2,871.9285 | 0.9288 | | 2,895.1495 |
| Total | 1.0093 | 26.2791 | 18.9906 | 0.0296 | 2.9613 | 0.7725 | 3.7338 | 1.5173 | 0.7725 | 2.2898 | 0.0000 | 2,871.9285 | 2,871.9285 | 0.9288 | | 2,895.1495 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Summer

3.4 Grading - 2021

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0779 | 2.6460 | 0.5578 | 7.8500e-003 | 0.1747 | 8.3000e-003 | 0.1830 | 0.0479 | 7.9400e-003 | 0.0558 | | 839.9097 | 839.9097 | 0.0417 | | 840.9517 |
| Vendor | 0.0155 | 0.5167 | 0.1218 | 1.3600e-003 | 0.0339 | 1.1200e-003 | 0.0350 | 9.7400e-003 | 1.0700e-003 | 0.0108 | | 144.4793 | 144.4793 | 6.7800e-003 | | 144.6488 |
| Worker | 0.0965 | 0.0564 | 0.7369 | 2.3800e-003 | 0.2464 | 1.5500e-003 | 0.2480 | 0.0654 | 1.4300e-003 | 0.0668 | | 237.5879 | 237.5879 | 5.3100e-003 | | 237.7206 |
| Total | 0.1899 | 3.2191 | 1.4165 | 0.0116 | 0.4550 | 0.0110 | 0.4660 | 0.1230 | 0.0104 | 0.1334 | | 1,221.9768 | 1,221.9768 | 0.0538 | | 1,223.3211 |

3.5 Building Construction - 2021

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.9009 | 17.4321 | 16.5752 | 0.0269 | | 0.9586 | 0.9586 | | 0.9013 | 0.9013 | | 2,553.3639 | 2,553.3639 | 0.6160 | | 2,568.7643 |
| Total | 1.9009 | 17.4321 | 16.5752 | 0.0269 | | 0.9586 | 0.9586 | | 0.9013 | 0.9013 | | 2,553.3639 | 2,553.3639 | 0.6160 | | 2,568.7643 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Summer

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0155 | 0.5167 | 0.1218 | 1.3600e-003 | 0.0339 | 1.1200e-003 | 0.0350 | 9.7400e-003 | 1.0700e-003 | 0.0108 | | 144.4793 | 144.4793 | 6.7800e-003 | | 144.6488 |
| Worker | 0.0965 | 0.0564 | 0.7369 | 2.3800e-003 | 0.2464 | 1.5500e-003 | 0.2480 | 0.0654 | 1.4300e-003 | 0.0668 | | 237.5879 | 237.5879 | 5.3100e-003 | | 237.7206 |
| Total | 0.1120 | 0.5731 | 0.8587 | 3.7400e-003 | 0.2803 | 2.6700e-003 | 0.2830 | 0.0751 | 2.5000e-003 | 0.0776 | | 382.0671 | 382.0671 | 0.0121 | | 382.3694 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.0809 | 23.5544 | 17.8738 | 0.0269 | | 0.9036 | 0.9036 | | 0.9036 | 0.9036 | 0.0000 | 2,553.3639 | 2,553.3639 | 0.6160 | | 2,568.7643 |
| Total | 1.0809 | 23.5544 | 17.8738 | 0.0269 | | 0.9036 | 0.9036 | | 0.9036 | 0.9036 | 0.0000 | 2,553.3639 | 2,553.3639 | 0.6160 | | 2,568.7643 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Summer

3.5 Building Construction - 2021

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0155 | 0.5167 | 0.1218 | 1.3600e-003 | 0.0339 | 1.1200e-003 | 0.0350 | 9.7400e-003 | 1.0700e-003 | 0.0108 | | 144.4793 | 144.4793 | 6.7800e-003 | | 144.6488 |
| Worker | 0.0965 | 0.0564 | 0.7369 | 2.3800e-003 | 0.2464 | 1.5500e-003 | 0.2480 | 0.0654 | 1.4300e-003 | 0.0668 | | 237.5879 | 237.5879 | 5.3100e-003 | | 237.7206 |
| Total | 0.1120 | 0.5731 | 0.8587 | 3.7400e-003 | 0.2803 | 2.6700e-003 | 0.2830 | 0.0751 | 2.5000e-003 | 0.0776 | | 382.0671 | 382.0671 | 0.0121 | | 382.3694 |

3.5 Building Construction - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.7062 | 15.6156 | 16.3634 | 0.0269 | | 0.8090 | 0.8090 | | 0.7612 | 0.7612 | | 2,554.3336 | 2,554.3336 | 0.6120 | | 2,569.6322 |
| Total | 1.7062 | 15.6156 | 16.3634 | 0.0269 | | 0.8090 | 0.8090 | | 0.7612 | 0.7612 | | 2,554.3336 | 2,554.3336 | 0.6120 | | 2,569.6322 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Summer

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0145 | 0.4897 | 0.1146 | 1.3500e-003 | 0.0339 | 9.7000e-004 | 0.0348 | 9.7400e-003 | 9.3000e-004 | 0.0107 | | 143.0723 | 143.0723 | 6.4800e-003 | | 143.2343 |
| Worker | 0.0898 | 0.0506 | 0.6790 | 2.3000e-003 | 0.2464 | 1.5100e-003 | 0.2480 | 0.0654 | 1.3900e-003 | 0.0668 | | 228.8686 | 228.8686 | 4.7700e-003 | | 228.9878 |
| Total | 0.1042 | 0.5403 | 0.7936 | 3.6500e-003 | 0.2803 | 2.4800e-003 | 0.2828 | 0.0751 | 2.3200e-003 | 0.0774 | | 371.9409 | 371.9409 | 0.0113 | | 372.2222 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.0809 | 23.5544 | 17.8738 | 0.0269 | | 0.9036 | 0.9036 | | 0.9036 | 0.9036 | 0.0000 | 2,554.3336 | 2,554.3336 | 0.6120 | | 2,569.6322 |
| Total | 1.0809 | 23.5544 | 17.8738 | 0.0269 | | 0.9036 | 0.9036 | | 0.9036 | 0.9036 | 0.0000 | 2,554.3336 | 2,554.3336 | 0.6120 | | 2,569.6322 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Summer

3.5 Building Construction - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0145 | 0.4897 | 0.1146 | 1.3500e-003 | 0.0339 | 9.7000e-004 | 0.0348 | 9.7400e-003 | 9.3000e-004 | 0.0107 | | 143.0723 | 143.0723 | 6.4800e-003 | | 143.2343 |
| Worker | 0.0898 | 0.0506 | 0.6790 | 2.3000e-003 | 0.2464 | 1.5100e-003 | 0.2480 | 0.0654 | 1.3900e-003 | 0.0668 | | 228.8686 | 228.8686 | 4.7700e-003 | | 228.9878 |
| Total | 0.1042 | 0.5403 | 0.7936 | 3.6500e-003 | 0.2803 | 2.4800e-003 | 0.2828 | 0.0751 | 2.3200e-003 | 0.0774 | | 371.9409 | 371.9409 | 0.0113 | | 372.2222 |

3.6 Paving - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9765 | 9.5221 | 12.1940 | 0.0189 | | 0.4877 | 0.4877 | | 0.4504 | 0.4504 | | 1,805.1297 | 1,805.1297 | 0.5672 | | 1,819.3091 |
| Paving | 0.2236 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.2001 | 9.5221 | 12.1940 | 0.0189 | | 0.4877 | 0.4877 | | 0.4504 | 0.4504 | | 1,805.1297 | 1,805.1297 | 0.5672 | | 1,819.3091 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Summer

3.6 Paving - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0145 | 0.4897 | 0.1146 | 1.3500e-003 | 0.0339 | 9.7000e-004 | 0.0348 | 9.7400e-003 | 9.3000e-004 | 0.0107 | | 143.0723 | 143.0723 | 6.4800e-003 | | 143.2343 |
| Worker | 0.0898 | 0.0506 | 0.6790 | 2.3000e-003 | 0.2464 | 1.5100e-003 | 0.2480 | 0.0654 | 1.3900e-003 | 0.0668 | | 228.8686 | 228.8686 | 4.7700e-003 | | 228.9878 |
| Total | 0.1042 | 0.5403 | 0.7936 | 3.6500e-003 | 0.2803 | 2.4800e-003 | 0.2828 | 0.0751 | 2.3200e-003 | 0.0774 | | 371.9409 | 371.9409 | 0.0113 | | 372.2222 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.7524 | 16.0849 | 13.5323 | 0.0189 | | 0.5601 | 0.5601 | | 0.5601 | 0.5601 | 0.0000 | 1,805.1297 | 1,805.1297 | 0.5672 | | 1,819.3091 |
| Paving | 0.2236 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 0.9760 | 16.0849 | 13.5323 | 0.0189 | | 0.5601 | 0.5601 | | 0.5601 | 0.5601 | 0.0000 | 1,805.1297 | 1,805.1297 | 0.5672 | | 1,819.3091 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Summer

3.6 Paving - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0145 | 0.4897 | 0.1146 | 1.3500e-003 | 0.0339 | 9.7000e-004 | 0.0348 | 9.7400e-003 | 9.3000e-004 | 0.0107 | | 143.0723 | 143.0723 | 6.4800e-003 | | 143.2343 |
| Worker | 0.0898 | 0.0506 | 0.6790 | 2.3000e-003 | 0.2464 | 1.5100e-003 | 0.2480 | 0.0654 | 1.3900e-003 | 0.0668 | | 228.8686 | 228.8686 | 4.7700e-003 | | 228.9878 |
| Total | 0.1042 | 0.5403 | 0.7936 | 3.6500e-003 | 0.2803 | 2.4800e-003 | 0.2828 | 0.0751 | 2.3200e-003 | 0.0774 | | 371.9409 | 371.9409 | 0.0113 | | 372.2222 |

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 26.7510 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2045 | 1.4085 | 1.8136 | 2.9700e-003 | | 0.0817 | 0.0817 | | 0.0817 | 0.0817 | | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |
| Total | 26.9555 | 1.4085 | 1.8136 | 2.9700e-003 | | 0.0817 | 0.0817 | | 0.0817 | 0.0817 | | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Summer

3.7 Architectural Coating - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0145 | 0.4897 | 0.1146 | 1.3500e-003 | 0.0339 | 9.7000e-004 | 0.0348 | 9.7400e-003 | 9.3000e-004 | 0.0107 | | 143.0723 | 143.0723 | 6.4800e-003 | | 143.2343 |
| Worker | 0.0898 | 0.0506 | 0.6790 | 2.3000e-003 | 0.2464 | 1.5100e-003 | 0.2480 | 0.0654 | 1.3900e-003 | 0.0668 | | 228.8686 | 228.8686 | 4.7700e-003 | | 228.9878 |
| Total | 0.1042 | 0.5403 | 0.7936 | 3.6500e-003 | 0.2803 | 2.4800e-003 | 0.2828 | 0.0751 | 2.3200e-003 | 0.0774 | | 371.9409 | 371.9409 | 0.0113 | | 372.2222 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 26.7510 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1139 | 2.3524 | 1.8324 | 2.9700e-003 | | 0.0951 | 0.0951 | | 0.0951 | 0.0951 | 0.0000 | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |
| Total | 26.8649 | 2.3524 | 1.8324 | 2.9700e-003 | | 0.0951 | 0.0951 | | 0.0951 | 0.0951 | 0.0000 | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Summer

3.7 Architectural Coating - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0145 | 0.4897 | 0.1146 | 1.3500e-003 | 0.0339 | 9.7000e-004 | 0.0348 | 9.7400e-003 | 9.3000e-004 | 0.0107 | | 143.0723 | 143.0723 | 6.4800e-003 | | 143.2343 |
| Worker | 0.0898 | 0.0506 | 0.6790 | 2.3000e-003 | 0.2464 | 1.5100e-003 | 0.2480 | 0.0654 | 1.3900e-003 | 0.0668 | | 228.8686 | 228.8686 | 4.7700e-003 | | 228.9878 |
| Total | 0.1042 | 0.5403 | 0.7936 | 3.6500e-003 | 0.2803 | 2.4800e-003 | 0.2828 | 0.0751 | 2.3200e-003 | 0.0774 | | 371.9409 | 371.9409 | 0.0113 | | 372.2222 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Diversity

Improve Pedestrian Network

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Summer

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 0.4256 | 1.7422 | 4.1467 | 0.0149 | 1.2545 | 0.0128 | 1.2673 | 0.3356 | 0.0120 | 0.3476 | | 1,506.2006 | 1,506.2006 | 0.0538 | | 1,507.5460 |
| Unmitigated | 0.4426 | 1.8563 | 4.5761 | 0.0167 | 1.4223 | 0.0143 | 1.4366 | 0.3805 | 0.0134 | 0.3939 | | 1,691.6455 | 1,691.6455 | 0.0589 | | 1,693.1186 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------|-------------------------|----------|--------|-------------|------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| General Office Building | 280.15 | 280.15 | 0.00 | 573,846 | 506,133 |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Total | 280.15 | 280.15 | 0.00 | 573,846 | 506,133 |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|-------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| General Office Building | 9.50 | 7.30 | 7.30 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Parking Lot | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| General Office Building | 0.576985 | 0.039376 | 0.193723 | 0.112069 | 0.016317 | 0.005358 | 0.017943 | 0.025814 | 0.002614 | 0.002274 | 0.005874 | 0.000887 | 0.000768 |
| Parking Lot | 0.576985 | 0.039376 | 0.193723 | 0.112069 | 0.016317 | 0.005358 | 0.017943 | 0.025814 | 0.002614 | 0.002274 | 0.005874 | 0.000887 | 0.000768 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Summer

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Kilowatt Hours of Renewable Electricity Generated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.0326 | 0.2961 | 0.2487 | 1.7800e-003 | | 0.0225 | 0.0225 | | 0.0225 | 0.0225 | | 355.3335 | 355.3335 | 6.8100e-003 | 6.5100e-003 | 357.4451 |
| NaturalGas Unmitigated | 0.0350 | 0.3183 | 0.2674 | 1.9100e-003 | | 0.0242 | 0.0242 | | 0.0242 | 0.0242 | | 381.9737 | 381.9737 | 7.3200e-003 | 7.0000e-003 | 384.2436 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Summer

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| General Office Building | 3246.78 | 0.0350 | 0.3183 | 0.2674 | 1.9100e-003 | | 0.0242 | 0.0242 | | 0.0242 | 0.0242 | | 381.9737 | 381.9737 | 7.3200e-003 | 7.0000e-003 | 384.2436 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0350 | 0.3183 | 0.2674 | 1.9100e-003 | | 0.0242 | 0.0242 | | 0.0242 | 0.0242 | | 381.9737 | 381.9737 | 7.3200e-003 | 7.0000e-003 | 384.2436 |

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| General Office Building | 3.02034 | 0.0326 | 0.2961 | 0.2487 | 1.7800e-003 | | 0.0225 | 0.0225 | | 0.0225 | 0.0225 | | 355.3335 | 355.3335 | 6.8100e-003 | 6.5100e-003 | 357.4451 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0326 | 0.2961 | 0.2487 | 1.7800e-003 | | 0.0225 | 0.0225 | | 0.0225 | 0.0225 | | 355.3335 | 355.3335 | 6.8100e-003 | 6.5100e-003 | 357.4451 |

6.0 Area Detail

6.1 Mitigation Measures Area

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Summer

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|--------|-------------|--------|--------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-----|--------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 1.8129 | 3.3000e-004 | 0.0366 | 0.0000 | | 1.3000e-004 | 1.3000e-004 | | 1.3000e-004 | 1.3000e-004 | | 0.0782 | 0.0782 | 2.1000e-004 | | 0.0834 |
| Unmitigated | 1.8129 | 3.3000e-004 | 0.0366 | 0.0000 | | 1.3000e-004 | 1.3000e-004 | | 1.3000e-004 | 1.3000e-004 | | 0.0782 | 0.0782 | 2.1000e-004 | | 0.0834 |

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 0.2199 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 1.5896 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 3.4000e-003 | 3.3000e-004 | 0.0366 | 0.0000 | | 1.3000e-004 | 1.3000e-004 | | 1.3000e-004 | 1.3000e-004 | | 0.0782 | 0.0782 | 2.1000e-004 | | 0.0834 |
| Total | 1.8129 | 3.3000e-004 | 0.0366 | 0.0000 | | 1.3000e-004 | 1.3000e-004 | | 1.3000e-004 | 1.3000e-004 | | 0.0782 | 0.0782 | 2.1000e-004 | | 0.0834 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Summer

6.2 Area by SubCategory

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 0.2199 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 1.5896 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 3.4000e-003 | 3.3000e-004 | 0.0366 | 0.0000 | | 1.3000e-004 | 1.3000e-004 | | 1.3000e-004 | 1.3000e-004 | | 0.0782 | 0.0782 | 2.1000e-004 | | 0.0834 |
| Total | 1.8129 | 3.3000e-004 | 0.0366 | 0.0000 | | 1.3000e-004 | 1.3000e-004 | | 1.3000e-004 | 1.3000e-004 | | 0.0782 | 0.0782 | 2.1000e-004 | | 0.0834 |

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

- Institute Recycling and Composting Services

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Summer

9.0 Operational Offroad

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

| Equipment Type | Number | Hours/Day | Hours/Year | Horse Power | Load Factor | Fuel Type |
|---------------------|--------|-----------|------------|-------------|-------------|-----------|
| Emergency Generator | 1 | 0.02 | 1 | 335 | 0.73 | Diesel |

Boilers

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

10.1 Stationary Sources

Unmitigated/Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| Equipment Type | lb/day | | | | | | | | | | lb/day | | | | | |
| Emergency Generator - Diesel (300 - 600 HP) | 0.0110 | 0.0307 | 0.0280 | 5.0000e-005 | | 1.6200e-003 | 1.6200e-003 | | 1.6200e-003 | 1.6200e-003 | | 5.6247 | 5.6247 | 7.9000e-004 | | 5.6445 |
| Total | 0.0110 | 0.0307 | 0.0280 | 5.0000e-005 | | 1.6200e-003 | 1.6200e-003 | | 1.6200e-003 | 1.6200e-003 | | 5.6247 | 5.6247 | 7.9000e-004 | | 5.6445 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Summer

11.0 Vegetation

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Winter

City of San José Fire Training and Emergency Operation Center Relocation Project
Bay Area AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------|--------|----------|-------------|--------------------|------------|
| General Office Building | 72.39 | 1000sqft | 1.66 | 72,393.00 | 0 |
| Parking Lot | 285.00 | Space | 2.56 | 114,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|--------------------------------|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 64 |
| Climate Zone | 4 | | | Operational Year | 2022 |
| Utility Company | Pacific Gas & Electric Company | | | | |
| CO2 Intensity (lb/MW hr) | 328.8 | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Winter

Project Characteristics - CO2 intensity factor based on 5-year average (PG&E 2015)

Land Use - Government Office Building includes the new buildings and renovated Building D4. The entire project site is approximately 26 acres; however site improvements would only occur on a portion of the site.

Construction Phase - Construction of the proposed Project is anticipated to occur over the course of 16 months. Project construction is estimated to begin in January 2021 and be completed by June 2022.

Trips and VMT - Approximately 30 workers would be on the site on a typical day during project construction. Hauling/deliveries to and from the construction site would amount to approximately 5 to 10 trips per day.

Grading - The design is intended to minimize import or export but less than 5,000 cubic yards export is anticipated. Duration of grading operations is likely two to six months.

Vehicle Trips - Based on the trip generation prepared for the project. Assuming operational Monday through Saturday to be conservative.

Construction Off-road Equipment Mitigation - Assuming compliance with BAAQMD Basic Construction Mitigation Measures and tier 2 construction equipment

Mobile Land Use Mitigation -

Energy Mitigation - Assuming compliance with 2019 Title 24 standards, high efficiency lighting, and PV panels to produce an estimated annual 830,657 kWh.

Water Mitigation - Assuming low-flow appliances and water-efficient landscaping and irrigation.

Waste Mitigation - Consistent with the CalRecycle Waste Diversion and Recycling Mandate which will reduce solid waste production by 75 percent.

Stationary Sources - Emergency Generators and Fire Pumps - Assuming the emergency generator would run 30 minutes per month.

Energy Use -

| Table Name | Column Name | Default Value | New Value |
|-------------------------|------------------------------|---------------|-----------|
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed | 0 | 15 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 4.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Winter

| | | | |
|---------------------------|----------------------------|-----------|-----------|
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 6.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 11.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | Tier | No Change | Tier 2 |
| tblConstEquipMitigation | Tier | No Change | Tier 2 |
| tblConstEquipMitigation | Tier | No Change | Tier 2 |
| tblConstEquipMitigation | Tier | No Change | Tier 2 |
| tblConstEquipMitigation | Tier | No Change | Tier 2 |
| tblConstEquipMitigation | Tier | No Change | Tier 2 |
| tblConstEquipMitigation | Tier | No Change | Tier 2 |
| tblConstEquipMitigation | Tier | No Change | Tier 2 |
| tblConstEquipMitigation | Tier | No Change | Tier 2 |
| tblConstEquipMitigation | Tier | No Change | Tier 2 |
| tblConstEquipMitigation | Tier | No Change | Tier 2 |
| tblConstEquipMitigation | Tier | No Change | Tier 2 |
| tblConstEquipMitigation | Tier | No Change | Tier 2 |
| tblConstEquipMitigation | Tier | No Change | Tier 2 |
| tblConstructionPhase | NumDays | 18.00 | 30.00 |
| tblConstructionPhase | NumDays | 230.00 | 240.00 |
| tblConstructionPhase | NumDays | 20.00 | 30.00 |
| tblConstructionPhase | NumDays | 8.00 | 20.00 |
| tblConstructionPhase | NumDays | 18.00 | 30.00 |
| tblConstructionPhase | NumDays | 5.00 | 15.00 |
| tblGrading | MaterialExported | 0.00 | 5,000.00 |
| tblLandUse | LandUseSquareFeet | 72,390.00 | 72,393.00 |
| tblProjectCharacteristics | CO2IntensityFactor | 641.35 | 328.8 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Winter

| | | | |
|---------------------------------|-------------------|-------------|-------------|
| tblStationaryGeneratorsPumpsEF | CH4_EF | 0.07 | 0.07 |
| tblStationaryGeneratorsPumpsEF | ROG_EF | 2.2480e-003 | 2.2477e-003 |
| tblStationaryGeneratorsPumpsUse | HorsePowerValue | 0.00 | 335.00 |
| tblStationaryGeneratorsPumpsUse | HoursPerDay | 0.00 | 0.02 |
| tblStationaryGeneratorsPumpsUse | HoursPerYear | 0.00 | 1.00 |
| tblStationaryGeneratorsPumpsUse | NumberOfEquipment | 0.00 | 1.00 |
| tblTripsAndVMT | HaulingTripNumber | 625.00 | 200.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 5.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 5.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 5.00 |
| tblTripsAndVMT | VendorTripNumber | 31.00 | 5.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 5.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 5.00 |
| tblTripsAndVMT | WorkerTripNumber | 15.00 | 30.00 |
| tblTripsAndVMT | WorkerTripNumber | 18.00 | 30.00 |
| tblTripsAndVMT | WorkerTripNumber | 15.00 | 30.00 |
| tblTripsAndVMT | WorkerTripNumber | 71.00 | 30.00 |
| tblTripsAndVMT | WorkerTripNumber | 20.00 | 30.00 |
| tblTripsAndVMT | WorkerTripNumber | 14.00 | 30.00 |
| tblVehicleTrips | ST_TR | 2.46 | 3.87 |
| tblVehicleTrips | SU_TR | 1.05 | 0.00 |
| tblVehicleTrips | WD_TR | 11.03 | 3.87 |

2.0 Emissions Summary

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Winter

2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|--------------------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 1.8129 | 3.3000e-004 | 0.0366 | 0.0000 | | 1.3000e-004 | 1.3000e-004 | | 1.3000e-004 | 1.3000e-004 | | 0.0782 | 0.0782 | 2.1000e-004 | | 0.0834 |
| Energy | 0.0350 | 0.3183 | 0.2674 | 1.9100e-003 | | 0.0242 | 0.0242 | | 0.0242 | 0.0242 | | 381.9737 | 381.9737 | 7.3200e-003 | 7.0000e-003 | 384.2436 |
| Mobile | 0.3838 | 1.9484 | 4.6012 | 0.0157 | 1.4223 | 0.0144 | 1.4367 | 0.3805 | 0.0135 | 0.3940 | | 1,583.8635 | 1,583.8635 | 0.0601 | | 1,585.3660 |
| Stationary | 0.0110 | 0.0307 | 0.0280 | 5.0000e-005 | | 1.6200e-003 | 1.6200e-003 | | 1.6200e-003 | 1.6200e-003 | | 5.6247 | 5.6247 | 7.9000e-004 | | 5.6445 |
| Total | 2.2426 | 2.2977 | 4.9332 | 0.0176 | 1.4223 | 0.0403 | 1.4627 | 0.3805 | 0.0394 | 0.4200 | | 1,971.5401 | 1,971.5401 | 0.0684 | 7.0000e-003 | 1,975.3375 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Winter

2.2 Overall Operational

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|--------------------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 1.8129 | 3.3000e-004 | 0.0366 | 0.0000 | | 1.3000e-004 | 1.3000e-004 | | 1.3000e-004 | 1.3000e-004 | | 0.0782 | 0.0782 | 2.1000e-004 | | 0.0834 |
| Energy | 0.0326 | 0.2961 | 0.2487 | 1.7800e-003 | | 0.0225 | 0.0225 | | 0.0225 | 0.0225 | | 355.3335 | 355.3335 | 6.8100e-003 | 6.5100e-003 | 357.4451 |
| Mobile | 0.3670 | 1.8224 | 4.2192 | 0.0139 | 1.2545 | 0.0129 | 1.2674 | 0.3356 | 0.0121 | 0.3477 | | 1,409.8893 | 1,409.8893 | 0.0552 | | 1,411.2700 |
| Stationary | 0.0110 | 0.0307 | 0.0280 | 5.0000e-005 | | 1.6200e-003 | 1.6200e-003 | | 1.6200e-003 | 1.6200e-003 | | 5.6247 | 5.6247 | 7.9000e-004 | | 5.6445 |
| Total | 2.2234 | 2.1495 | 4.5325 | 0.0158 | 1.2545 | 0.0371 | 1.2916 | 0.3356 | 0.0363 | 0.3720 | | 1,770.9258 | 1,770.9258 | 0.0630 | 6.5100e-003 | 1,774.4430 |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|-------------|-------------|-------------|--------------|---------------|--------------|--------------|----------------|---------------|--------------|-------------|--------------|--------------|-------------|-------------|--------------|
| Percent Reduction | 0.86 | 6.45 | 8.12 | 10.51 | 11.80 | 7.89 | 11.69 | 11.80 | 7.84 | 11.43 | 0.00 | 10.18 | 10.18 | 7.86 | 7.00 | 10.17 |

3.0 Construction Detail

Construction Phase

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Winter

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1 | Demolition | Demolition | 1/4/2021 | 2/12/2021 | 5 | 30 | |
| 2 | Site Preparation | Site Preparation | 2/15/2021 | 3/5/2021 | 5 | 15 | |
| 3 | Grading | Grading | 3/8/2021 | 4/2/2021 | 5 | 20 | |
| 4 | Building Construction | Building Construction | 4/5/2021 | 3/4/2022 | 5 | 240 | |
| 5 | Paving | Paving | 3/7/2022 | 4/15/2022 | 5 | 30 | |
| 6 | Architectural Coating | Architectural Coating | 4/18/2022 | 5/27/2022 | 5 | 30 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 2.56

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 108,590; Non-Residential Outdoor: 36,197; Striped Parking Area: 6,840 (Architectural Coating – sqft)

OffRoad Equipment

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Winter

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Demolition | Excavators | 3 | 8.00 | 158 | 0.38 |
| Demolition | Rubber Tired Dozers | 2 | 8.00 | 247 | 0.40 |
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |
| Grading | Excavators | 1 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Tractors/Loaders/Backhoes | 3 | 8.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |
| Paving | Cement and Mortar Mixers | 2 | 6.00 | 9 | 0.56 |
| Paving | Pavers | 1 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 6.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 6.00 | 80 | 0.38 |
| Paving | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

Trips and VMT

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Winter

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition | 6 | 30.00 | 5.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 7 | 30.00 | 5.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 6 | 30.00 | 5.00 | 200.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 30.00 | 5.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 8 | 30.00 | 5.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 30.00 | 5.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2021

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 3.1651 | 31.4407 | 21.5650 | 0.0388 | | 1.5513 | 1.5513 | | 1.4411 | 1.4411 | | 3,747.9449 | 3,747.9449 | 1.0549 | | 3,774.3174 |
| Total | 3.1651 | 31.4407 | 21.5650 | 0.0388 | | 1.5513 | 1.5513 | | 1.4411 | 1.4411 | | 3,747.9449 | 3,747.9449 | 1.0549 | | 3,774.3174 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Winter

3.2 Demolition - 2021

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0164 | 0.5212 | 0.1401 | 1.3300e-003 | 0.0339 | 1.1600e-003 | 0.0350 | 9.7400e-003 | 1.1100e-003 | 0.0109 | | 140.8136 | 140.8136 | 7.3400e-003 | | 140.9970 |
| Worker | 0.1022 | 0.0696 | 0.6894 | 2.2000e-003 | 0.2464 | 1.5500e-003 | 0.2480 | 0.0654 | 1.4300e-003 | 0.0668 | | 218.8610 | 218.8610 | 4.9500e-003 | | 218.9848 |
| Total | 0.1186 | 0.5908 | 0.8295 | 3.5300e-003 | 0.2803 | 2.7100e-003 | 0.2830 | 0.0751 | 2.5400e-003 | 0.0777 | | 359.6746 | 359.6746 | 0.0123 | | 359.9818 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.2617 | 32.6638 | 24.6739 | 0.0388 | | 0.9135 | 0.9135 | | 0.9135 | 0.9135 | 0.0000 | 3,747.9449 | 3,747.9449 | 1.0549 | | 3,774.3174 |
| Total | 1.2617 | 32.6638 | 24.6739 | 0.0388 | | 0.9135 | 0.9135 | | 0.9135 | 0.9135 | 0.0000 | 3,747.9449 | 3,747.9449 | 1.0549 | | 3,774.3174 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Winter

3.2 Demolition - 2021

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0164 | 0.5212 | 0.1401 | 1.3300e-003 | 0.0339 | 1.1600e-003 | 0.0350 | 9.7400e-003 | 1.1100e-003 | 0.0109 | | 140.8136 | 140.8136 | 7.3400e-003 | | 140.9970 |
| Worker | 0.1022 | 0.0696 | 0.6894 | 2.2000e-003 | 0.2464 | 1.5500e-003 | 0.2480 | 0.0654 | 1.4300e-003 | 0.0668 | | 218.8610 | 218.8610 | 4.9500e-003 | | 218.9848 |
| Total | 0.1186 | 0.5908 | 0.8295 | 3.5300e-003 | 0.2803 | 2.7100e-003 | 0.2830 | 0.0751 | 2.5400e-003 | 0.0777 | | 359.6746 | 359.6746 | 0.0123 | | 359.9818 |

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 18.0663 | 0.0000 | 18.0663 | 9.9307 | 0.0000 | 9.9307 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.8882 | 40.4971 | 21.1543 | 0.0380 | | 2.0445 | 2.0445 | | 1.8809 | 1.8809 | | 3,685.6569 | 3,685.6569 | 1.1920 | | 3,715.4573 |
| Total | 3.8882 | 40.4971 | 21.1543 | 0.0380 | 18.0663 | 2.0445 | 20.1107 | 9.9307 | 1.8809 | 11.8116 | | 3,685.6569 | 3,685.6569 | 1.1920 | | 3,715.4573 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Winter

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0164 | 0.5212 | 0.1401 | 1.3300e-003 | 0.0339 | 1.1600e-003 | 0.0350 | 9.7400e-003 | 1.1100e-003 | 0.0109 | | 140.8136 | 140.8136 | 7.3400e-003 | | 140.9970 |
| Worker | 0.1022 | 0.0696 | 0.6894 | 2.2000e-003 | 0.2464 | 1.5500e-003 | 0.2480 | 0.0654 | 1.4300e-003 | 0.0668 | | 218.8610 | 218.8610 | 4.9500e-003 | | 218.9848 |
| Total | 0.1186 | 0.5908 | 0.8295 | 3.5300e-003 | 0.2803 | 2.7100e-003 | 0.2830 | 0.0751 | 2.5400e-003 | 0.0777 | | 359.6746 | 359.6746 | 0.0123 | | 359.9818 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 8.1298 | 0.0000 | 8.1298 | 4.4688 | 0.0000 | 4.4688 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.2097 | 33.7214 | 22.9600 | 0.0380 | | 0.9462 | 0.9462 | | 0.9462 | 0.9462 | 0.0000 | 3,685.6569 | 3,685.6569 | 1.1920 | | 3,715.4573 |
| Total | 1.2097 | 33.7214 | 22.9600 | 0.0380 | 8.1298 | 0.9462 | 9.0760 | 4.4688 | 0.9462 | 5.4150 | 0.0000 | 3,685.6569 | 3,685.6569 | 1.1920 | | 3,715.4573 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Winter

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0164 | 0.5212 | 0.1401 | 1.3300e-003 | 0.0339 | 1.1600e-003 | 0.0350 | 9.7400e-003 | 1.1100e-003 | 0.0109 | | 140.8136 | 140.8136 | 7.3400e-003 | | 140.9970 |
| Worker | 0.1022 | 0.0696 | 0.6894 | 2.2000e-003 | 0.2464 | 1.5500e-003 | 0.2480 | 0.0654 | 1.4300e-003 | 0.0668 | | 218.8610 | 218.8610 | 4.9500e-003 | | 218.9848 |
| Total | 0.1186 | 0.5908 | 0.8295 | 3.5300e-003 | 0.2803 | 2.7100e-003 | 0.2830 | 0.0751 | 2.5400e-003 | 0.0777 | | 359.6746 | 359.6746 | 0.0123 | | 359.9818 |

3.4 Grading - 2021

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 6.5806 | 0.0000 | 6.5806 | 3.3718 | 0.0000 | 3.3718 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.2903 | 24.7367 | 15.8575 | 0.0296 | | 1.1599 | 1.1599 | | 1.0671 | 1.0671 | | 2,871.9285 | 2,871.9285 | 0.9288 | | 2,895.1495 |
| Total | 2.2903 | 24.7367 | 15.8575 | 0.0296 | 6.5806 | 1.1599 | 7.7405 | 3.3718 | 1.0671 | 4.4389 | | 2,871.9285 | 2,871.9285 | 0.9288 | | 2,895.1495 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Winter

3.4 Grading - 2021

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0800 | 2.7079 | 0.5988 | 7.7100e-003 | 0.1747 | 8.4400e-003 | 0.1832 | 0.0479 | 8.0800e-003 | 0.0560 | | 825.7106 | 825.7106 | 0.0437 | | 826.8031 |
| Vendor | 0.0164 | 0.5212 | 0.1401 | 1.3300e-003 | 0.0339 | 1.1600e-003 | 0.0350 | 9.7400e-003 | 1.1100e-003 | 0.0109 | | 140.8136 | 140.8136 | 7.3400e-003 | | 140.9970 |
| Worker | 0.1022 | 0.0696 | 0.6894 | 2.2000e-003 | 0.2464 | 1.5500e-003 | 0.2480 | 0.0654 | 1.4300e-003 | 0.0668 | | 218.8610 | 218.8610 | 4.9500e-003 | | 218.9848 |
| Total | 0.1986 | 3.2987 | 1.4283 | 0.0112 | 0.4550 | 0.0112 | 0.4661 | 0.1230 | 0.0106 | 0.1336 | | 1,185.3852 | 1,185.3852 | 0.0560 | | 1,186.7849 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 2.9613 | 0.0000 | 2.9613 | 1.5173 | 0.0000 | 1.5173 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.0093 | 26.2791 | 18.9906 | 0.0296 | | 0.7725 | 0.7725 | | 0.7725 | 0.7725 | 0.0000 | 2,871.9285 | 2,871.9285 | 0.9288 | | 2,895.1495 |
| Total | 1.0093 | 26.2791 | 18.9906 | 0.0296 | 2.9613 | 0.7725 | 3.7338 | 1.5173 | 0.7725 | 2.2898 | 0.0000 | 2,871.9285 | 2,871.9285 | 0.9288 | | 2,895.1495 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Winter

3.4 Grading - 2021

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0800 | 2.7079 | 0.5988 | 7.7100e-003 | 0.1747 | 8.4400e-003 | 0.1832 | 0.0479 | 8.0800e-003 | 0.0560 | | 825.7106 | 825.7106 | 0.0437 | | 826.8031 |
| Vendor | 0.0164 | 0.5212 | 0.1401 | 1.3300e-003 | 0.0339 | 1.1600e-003 | 0.0350 | 9.7400e-003 | 1.1100e-003 | 0.0109 | | 140.8136 | 140.8136 | 7.3400e-003 | | 140.9970 |
| Worker | 0.1022 | 0.0696 | 0.6894 | 2.2000e-003 | 0.2464 | 1.5500e-003 | 0.2480 | 0.0654 | 1.4300e-003 | 0.0668 | | 218.8610 | 218.8610 | 4.9500e-003 | | 218.9848 |
| Total | 0.1986 | 3.2987 | 1.4283 | 0.0112 | 0.4550 | 0.0112 | 0.4661 | 0.1230 | 0.0106 | 0.1336 | | 1,185.3852 | 1,185.3852 | 0.0560 | | 1,186.7849 |

3.5 Building Construction - 2021

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.9009 | 17.4321 | 16.5752 | 0.0269 | | 0.9586 | 0.9586 | | 0.9013 | 0.9013 | | 2,553.3639 | 2,553.3639 | 0.6160 | | 2,568.7643 |
| Total | 1.9009 | 17.4321 | 16.5752 | 0.0269 | | 0.9586 | 0.9586 | | 0.9013 | 0.9013 | | 2,553.3639 | 2,553.3639 | 0.6160 | | 2,568.7643 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Winter

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0164 | 0.5212 | 0.1401 | 1.3300e-003 | 0.0339 | 1.1600e-003 | 0.0350 | 9.7400e-003 | 1.1100e-003 | 0.0109 | | 140.8136 | 140.8136 | 7.3400e-003 | | 140.9970 |
| Worker | 0.1022 | 0.0696 | 0.6894 | 2.2000e-003 | 0.2464 | 1.5500e-003 | 0.2480 | 0.0654 | 1.4300e-003 | 0.0668 | | 218.8610 | 218.8610 | 4.9500e-003 | | 218.9848 |
| Total | 0.1186 | 0.5908 | 0.8295 | 3.5300e-003 | 0.2803 | 2.7100e-003 | 0.2830 | 0.0751 | 2.5400e-003 | 0.0777 | | 359.6746 | 359.6746 | 0.0123 | | 359.9818 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.0809 | 23.5544 | 17.8738 | 0.0269 | | 0.9036 | 0.9036 | | 0.9036 | 0.9036 | 0.0000 | 2,553.3639 | 2,553.3639 | 0.6160 | | 2,568.7643 |
| Total | 1.0809 | 23.5544 | 17.8738 | 0.0269 | | 0.9036 | 0.9036 | | 0.9036 | 0.9036 | 0.0000 | 2,553.3639 | 2,553.3639 | 0.6160 | | 2,568.7643 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Winter

3.5 Building Construction - 2021

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0164 | 0.5212 | 0.1401 | 1.3300e-003 | 0.0339 | 1.1600e-003 | 0.0350 | 9.7400e-003 | 1.1100e-003 | 0.0109 | | 140.8136 | 140.8136 | 7.3400e-003 | | 140.9970 |
| Worker | 0.1022 | 0.0696 | 0.6894 | 2.2000e-003 | 0.2464 | 1.5500e-003 | 0.2480 | 0.0654 | 1.4300e-003 | 0.0668 | | 218.8610 | 218.8610 | 4.9500e-003 | | 218.9848 |
| Total | 0.1186 | 0.5908 | 0.8295 | 3.5300e-003 | 0.2803 | 2.7100e-003 | 0.2830 | 0.0751 | 2.5400e-003 | 0.0777 | | 359.6746 | 359.6746 | 0.0123 | | 359.9818 |

3.5 Building Construction - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.7062 | 15.6156 | 16.3634 | 0.0269 | | 0.8090 | 0.8090 | | 0.7612 | 0.7612 | | 2,554.3336 | 2,554.3336 | 0.6120 | | 2,569.6322 |
| Total | 1.7062 | 15.6156 | 16.3634 | 0.0269 | | 0.8090 | 0.8090 | | 0.7612 | 0.7612 | | 2,554.3336 | 2,554.3336 | 0.6120 | | 2,569.6322 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Winter

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0153 | 0.4934 | 0.1317 | 1.3200e-003 | 0.0339 | 1.0100e-003 | 0.0349 | 9.7400e-003 | 9.6000e-004 | 0.0107 | | 139.4195 | 139.4195 | 7.0100e-003 | | 139.5947 |
| Worker | 0.0954 | 0.0624 | 0.6327 | 2.1100e-003 | 0.2464 | 1.5100e-003 | 0.2480 | 0.0654 | 1.3900e-003 | 0.0668 | | 210.8376 | 210.8376 | 4.4300e-003 | | 210.9485 |
| Total | 0.1107 | 0.5558 | 0.7643 | 3.4300e-003 | 0.2803 | 2.5200e-003 | 0.2828 | 0.0751 | 2.3500e-003 | 0.0775 | | 350.2571 | 350.2571 | 0.0114 | | 350.5431 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.0809 | 23.5544 | 17.8738 | 0.0269 | | 0.9036 | 0.9036 | | 0.9036 | 0.9036 | 0.0000 | 2,554.3336 | 2,554.3336 | 0.6120 | | 2,569.6322 |
| Total | 1.0809 | 23.5544 | 17.8738 | 0.0269 | | 0.9036 | 0.9036 | | 0.9036 | 0.9036 | 0.0000 | 2,554.3336 | 2,554.3336 | 0.6120 | | 2,569.6322 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Winter

3.5 Building Construction - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0153 | 0.4934 | 0.1317 | 1.3200e-003 | 0.0339 | 1.0100e-003 | 0.0349 | 9.7400e-003 | 9.6000e-004 | 0.0107 | | 139.4195 | 139.4195 | 7.0100e-003 | | 139.5947 |
| Worker | 0.0954 | 0.0624 | 0.6327 | 2.1100e-003 | 0.2464 | 1.5100e-003 | 0.2480 | 0.0654 | 1.3900e-003 | 0.0668 | | 210.8376 | 210.8376 | 4.4300e-003 | | 210.9485 |
| Total | 0.1107 | 0.5558 | 0.7643 | 3.4300e-003 | 0.2803 | 2.5200e-003 | 0.2828 | 0.0751 | 2.3500e-003 | 0.0775 | | 350.2571 | 350.2571 | 0.0114 | | 350.5431 |

3.6 Paving - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9765 | 9.5221 | 12.1940 | 0.0189 | | 0.4877 | 0.4877 | | 0.4504 | 0.4504 | | 1,805.1297 | 1,805.1297 | 0.5672 | | 1,819.3091 |
| Paving | 0.2236 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.2001 | 9.5221 | 12.1940 | 0.0189 | | 0.4877 | 0.4877 | | 0.4504 | 0.4504 | | 1,805.1297 | 1,805.1297 | 0.5672 | | 1,819.3091 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Winter

3.6 Paving - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0153 | 0.4934 | 0.1317 | 1.3200e-003 | 0.0339 | 1.0100e-003 | 0.0349 | 9.7400e-003 | 9.6000e-004 | 0.0107 | | 139.4195 | 139.4195 | 7.0100e-003 | | 139.5947 |
| Worker | 0.0954 | 0.0624 | 0.6327 | 2.1100e-003 | 0.2464 | 1.5100e-003 | 0.2480 | 0.0654 | 1.3900e-003 | 0.0668 | | 210.8376 | 210.8376 | 4.4300e-003 | | 210.9485 |
| Total | 0.1107 | 0.5558 | 0.7643 | 3.4300e-003 | 0.2803 | 2.5200e-003 | 0.2828 | 0.0751 | 2.3500e-003 | 0.0775 | | 350.2571 | 350.2571 | 0.0114 | | 350.5431 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.7524 | 16.0849 | 13.5323 | 0.0189 | | 0.5601 | 0.5601 | | 0.5601 | 0.5601 | 0.0000 | 1,805.1297 | 1,805.1297 | 0.5672 | | 1,819.3091 |
| Paving | 0.2236 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 0.9760 | 16.0849 | 13.5323 | 0.0189 | | 0.5601 | 0.5601 | | 0.5601 | 0.5601 | 0.0000 | 1,805.1297 | 1,805.1297 | 0.5672 | | 1,819.3091 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Winter

3.6 Paving - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0153 | 0.4934 | 0.1317 | 1.3200e-003 | 0.0339 | 1.0100e-003 | 0.0349 | 9.7400e-003 | 9.6000e-004 | 0.0107 | | 139.4195 | 139.4195 | 7.0100e-003 | | 139.5947 |
| Worker | 0.0954 | 0.0624 | 0.6327 | 2.1100e-003 | 0.2464 | 1.5100e-003 | 0.2480 | 0.0654 | 1.3900e-003 | 0.0668 | | 210.8376 | 210.8376 | 4.4300e-003 | | 210.9485 |
| Total | 0.1107 | 0.5558 | 0.7643 | 3.4300e-003 | 0.2803 | 2.5200e-003 | 0.2828 | 0.0751 | 2.3500e-003 | 0.0775 | | 350.2571 | 350.2571 | 0.0114 | | 350.5431 |

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 26.7510 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2045 | 1.4085 | 1.8136 | 2.9700e-003 | | 0.0817 | 0.0817 | | 0.0817 | 0.0817 | | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |
| Total | 26.9555 | 1.4085 | 1.8136 | 2.9700e-003 | | 0.0817 | 0.0817 | | 0.0817 | 0.0817 | | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Winter

3.7 Architectural Coating - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0153 | 0.4934 | 0.1317 | 1.3200e-003 | 0.0339 | 1.0100e-003 | 0.0349 | 9.7400e-003 | 9.6000e-004 | 0.0107 | | 139.4195 | 139.4195 | 7.0100e-003 | | 139.5947 |
| Worker | 0.0954 | 0.0624 | 0.6327 | 2.1100e-003 | 0.2464 | 1.5100e-003 | 0.2480 | 0.0654 | 1.3900e-003 | 0.0668 | | 210.8376 | 210.8376 | 4.4300e-003 | | 210.9485 |
| Total | 0.1107 | 0.5558 | 0.7643 | 3.4300e-003 | 0.2803 | 2.5200e-003 | 0.2828 | 0.0751 | 2.3500e-003 | 0.0775 | | 350.2571 | 350.2571 | 0.0114 | | 350.5431 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 26.7510 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1139 | 2.3524 | 1.8324 | 2.9700e-003 | | 0.0951 | 0.0951 | | 0.0951 | 0.0951 | 0.0000 | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |
| Total | 26.8649 | 2.3524 | 1.8324 | 2.9700e-003 | | 0.0951 | 0.0951 | | 0.0951 | 0.0951 | 0.0000 | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Winter

3.7 Architectural Coating - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0153 | 0.4934 | 0.1317 | 1.3200e-003 | 0.0339 | 1.0100e-003 | 0.0349 | 9.7400e-003 | 9.6000e-004 | 0.0107 | | 139.4195 | 139.4195 | 7.0100e-003 | | 139.5947 |
| Worker | 0.0954 | 0.0624 | 0.6327 | 2.1100e-003 | 0.2464 | 1.5100e-003 | 0.2480 | 0.0654 | 1.3900e-003 | 0.0668 | | 210.8376 | 210.8376 | 4.4300e-003 | | 210.9485 |
| Total | 0.1107 | 0.5558 | 0.7643 | 3.4300e-003 | 0.2803 | 2.5200e-003 | 0.2828 | 0.0751 | 2.3500e-003 | 0.0775 | | 350.2571 | 350.2571 | 0.0114 | | 350.5431 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Diversity

Improve Pedestrian Network

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Winter

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------------|----------------|--------|-----|----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 0.3670 | 1.8224 | 4.2192 | 0.0139 | 1.2545 | 0.0129 | 1.2674 | 0.3356 | 0.0121 | 0.3477 | | 1,409.889 3 | 1,409.889 3 | 0.0552 | | 1,411.2700 |
| Unmitigated | 0.3838 | 1.9484 | 4.6012 | 0.0157 | 1.4223 | 0.0144 | 1.4367 | 0.3805 | 0.0135 | 0.3940 | | 1,583.863 5 | 1,583.863 5 | 0.0601 | | 1,585.366 0 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------|-------------------------|----------|--------|-------------|------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| General Office Building | 280.15 | 280.15 | 0.00 | 573,846 | 506,133 |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Total | 280.15 | 280.15 | 0.00 | 573,846 | 506,133 |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|-------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| General Office Building | 9.50 | 7.30 | 7.30 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Parking Lot | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| General Office Building | 0.576985 | 0.039376 | 0.193723 | 0.112069 | 0.016317 | 0.005358 | 0.017943 | 0.025814 | 0.002614 | 0.002274 | 0.005874 | 0.000887 | 0.000768 |
| Parking Lot | 0.576985 | 0.039376 | 0.193723 | 0.112069 | 0.016317 | 0.005358 | 0.017943 | 0.025814 | 0.002614 | 0.002274 | 0.005874 | 0.000887 | 0.000768 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Winter

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Kilowatt Hours of Renewable Electricity Generated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.0326 | 0.2961 | 0.2487 | 1.7800e-003 | | 0.0225 | 0.0225 | | 0.0225 | 0.0225 | | 355.3335 | 355.3335 | 6.8100e-003 | 6.5100e-003 | 357.4451 |
| NaturalGas Unmitigated | 0.0350 | 0.3183 | 0.2674 | 1.9100e-003 | | 0.0242 | 0.0242 | | 0.0242 | 0.0242 | | 381.9737 | 381.9737 | 7.3200e-003 | 7.0000e-003 | 384.2436 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Winter

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| General Office Building | 3246.78 | 0.0350 | 0.3183 | 0.2674 | 1.9100e-003 | | 0.0242 | 0.0242 | | 0.0242 | 0.0242 | | 381.9737 | 381.9737 | 7.3200e-003 | 7.0000e-003 | 384.2436 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0350 | 0.3183 | 0.2674 | 1.9100e-003 | | 0.0242 | 0.0242 | | 0.0242 | 0.0242 | | 381.9737 | 381.9737 | 7.3200e-003 | 7.0000e-003 | 384.2436 |

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| General Office Building | 3.02034 | 0.0326 | 0.2961 | 0.2487 | 1.7800e-003 | | 0.0225 | 0.0225 | | 0.0225 | 0.0225 | | 355.3335 | 355.3335 | 6.8100e-003 | 6.5100e-003 | 357.4451 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0326 | 0.2961 | 0.2487 | 1.7800e-003 | | 0.0225 | 0.0225 | | 0.0225 | 0.0225 | | 355.3335 | 355.3335 | 6.8100e-003 | 6.5100e-003 | 357.4451 |

6.0 Area Detail

6.1 Mitigation Measures Area

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Winter

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|--------|-------------|--------|--------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-----|--------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 1.8129 | 3.3000e-004 | 0.0366 | 0.0000 | | 1.3000e-004 | 1.3000e-004 | | 1.3000e-004 | 1.3000e-004 | | 0.0782 | 0.0782 | 2.1000e-004 | | 0.0834 |
| Unmitigated | 1.8129 | 3.3000e-004 | 0.0366 | 0.0000 | | 1.3000e-004 | 1.3000e-004 | | 1.3000e-004 | 1.3000e-004 | | 0.0782 | 0.0782 | 2.1000e-004 | | 0.0834 |

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 0.2199 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 1.5896 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 3.4000e-003 | 3.3000e-004 | 0.0366 | 0.0000 | | 1.3000e-004 | 1.3000e-004 | | 1.3000e-004 | 1.3000e-004 | | 0.0782 | 0.0782 | 2.1000e-004 | | 0.0834 |
| Total | 1.8129 | 3.3000e-004 | 0.0366 | 0.0000 | | 1.3000e-004 | 1.3000e-004 | | 1.3000e-004 | 1.3000e-004 | | 0.0782 | 0.0782 | 2.1000e-004 | | 0.0834 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Winter

6.2 Area by SubCategory

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 0.2199 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 1.5896 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 3.4000e-003 | 3.3000e-004 | 0.0366 | 0.0000 | | 1.3000e-004 | 1.3000e-004 | | 1.3000e-004 | 1.3000e-004 | | 0.0782 | 0.0782 | 2.1000e-004 | | 0.0834 |
| Total | 1.8129 | 3.3000e-004 | 0.0366 | 0.0000 | | 1.3000e-004 | 1.3000e-004 | | 1.3000e-004 | 1.3000e-004 | | 0.0782 | 0.0782 | 2.1000e-004 | | 0.0834 |

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

- Institute Recycling and Composting Services

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Winter

9.0 Operational Offroad

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

| Equipment Type | Number | Hours/Day | Hours/Year | Horse Power | Load Factor | Fuel Type |
|---------------------|--------|-----------|------------|-------------|-------------|-----------|
| Emergency Generator | 1 | 0.02 | 1 | 335 | 0.73 | Diesel |

Boilers

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

10.1 Stationary Sources

Unmitigated/Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| Equipment Type | lb/day | | | | | | | | | | lb/day | | | | | |
| Emergency Generator - Diesel (300 - 600 HP) | 0.0110 | 0.0307 | 0.0280 | 5.0000e-005 | | 1.6200e-003 | 1.6200e-003 | | 1.6200e-003 | 1.6200e-003 | | 5.6247 | 5.6247 | 7.9000e-004 | | 5.6445 |
| Total | 0.0110 | 0.0307 | 0.0280 | 5.0000e-005 | | 1.6200e-003 | 1.6200e-003 | | 1.6200e-003 | 1.6200e-003 | | 5.6247 | 5.6247 | 7.9000e-004 | | 5.6445 |

City of San José Fire Training and Emergency Operation Center Relocation Project - Bay Area AQMD Air District, Winter

11.0 Vegetation
