

Aum Rock Avenue Affordable Housing Project - Santa Clara County, Summer

Aum Rock Avenue Affordable Housing Project
Santa Clara County, Summer

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---------------------|-------|---------------|-------------|--------------------|------------|
| Parking Lot | 46.00 | Space | 0.41 | 18,400.00 | 0 |
| Apartments Low Rise | 87.00 | Dwelling Unit | 0.63 | 87,000.00 | 249 |
| Strip Mall | 3.00 | 1000sqft | 0.00 | 3,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|--------------------------------|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 58 |
| Climate Zone | 4 | | | Operational Year | 2021 |
| Utility Company | Pacific Gas & Electric Company | | | | |
| CO2 Intensity (lb/MW hr) | 641.35 | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

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Project Characteristics -

Land Use - Acreage adjusted from default

Off-road Equipment -

Construction Phase - Painting phase extended to reduce ROG emissions

Grading - Acreage graded revised to match lot size.

Architectural Coating -

Fleet Mix -

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Area Mitigation -

Water Mitigation -

Waste Mitigation -

| Table Name | Column Name | Default Value | New Value |
|----------------------|----------------------------|---------------|-----------|
| tblAreaCoating | Area_EF_Parking | 150 | 0 |
| tblAreaCoating | Area_Parking | 1104 | 0 |
| tblAreaMitigation | UseLowVOCPaintParkingCheck | False | True |
| tblConstructionPhase | NumDays | 10.00 | 30.00 |
| tblGrading | AcresOfGrading | 1.50 | 0.63 |
| tblGrading | AcresOfGrading | 1.00 | 0.63 |
| tblGrading | MaterialExported | 0.00 | 593.00 |
| tblLandUse | LotAcreage | 5.44 | 0.63 |
| tblLandUse | LotAcreage | 0.07 | 0.00 |

2.0 Emissions Summary

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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 | 38.2747 | 0.8741 | 54.4702 | 0.0915 | | 6.7506 | 6.7506 | | 6.7506 | 6.7506 | 728.2636 | 335.3465 | 1,063.6102 | 1.0091 | 0.0515 | 1,104.1785 |
| Energy | 0.0264 | 0.2259 | 0.0969 | 1.4400e-003 | | 0.0183 | 0.0183 | | 0.0183 | 0.0183 | | 288.2869 | 288.2869 | 5.5300e-003 | 5.2900e-003 | 290.0000 |
| Mobile | 1.1697 | 4.0607 | 12.1163 | 0.0400 | 3.4764 | 0.0327 | 3.5091 | 0.9280 | 0.0306 | 0.9586 | | 4,033.0677 | 4,033.0677 | 0.1360 | | 4,036.4687 |
| Total | 39.4709 | 5.1607 | 66.6834 | 0.1329 | 3.4764 | 6.8016 | 10.2780 | 0.9280 | 6.7995 | 7.7274 | 728.2636 | 4,656.7010 | 5,384.9647 | 1.1507 | 0.0568 | 5,430.6472 |

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 | 2.4951 | 0.0831 | 7.1982 | 3.8000e-004 | | 0.0397 | 0.0397 | | 0.0397 | 0.0397 | 0.0000 | 12.9348 | 12.9348 | 0.0126 | 0.0000 | 13.2486 |
| Energy | 0.0264 | 0.2259 | 0.0969 | 1.4400e-003 | | 0.0183 | 0.0183 | | 0.0183 | 0.0183 | | 288.2869 | 288.2869 | 5.5300e-003 | 5.2900e-003 | 290.0000 |
| Mobile | 1.0685 | 3.4195 | 9.2716 | 0.0288 | 2.4335 | 0.0242 | 2.4577 | 0.6496 | 0.0226 | 0.6722 | | 2,908.9294 | 2,908.9294 | 0.1057 | | 2,911.5715 |
| Total | 3.5900 | 3.7285 | 16.5668 | 0.0307 | 2.4335 | 0.0821 | 2.5156 | 0.6496 | 0.0806 | 0.7301 | 0.0000 | 3,210.1511 | 3,210.1511 | 0.1238 | 5.2900e-003 | 3,214.8201 |

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| | 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 | 90.90 | 27.75 | 75.16 | 76.93 | 30.00 | 98.79 | 75.52 | 30.00 | 98.82 | 90.55 | 100.00 | 31.06 | 40.39 | 89.24 | 90.68 | 40.80 |

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1 | Architectural Coating | Architectural Coating | 12/18/2020 | 1/28/2021 | 5 | 30 | |
| 2 | Building Construction | Building Construction | 3/1/2020 | 12/4/2020 | 5 | 200 | |
| 3 | Demolition | Demolition | 1/2/2021 | 1/29/2021 | 5 | 20 | |
| 4 | Grading | Grading | 1/31/2020 | 2/5/2020 | 5 | 4 | |
| 5 | Paving | Paving | 12/4/2020 | 12/17/2020 | 5 | 10 | |
| 6 | Site Preparation | Site Preparation | 1/29/2020 | 1/30/2020 | 5 | 2 | |

Acres of Grading (Site Preparation Phase): 0.63

Acres of Grading (Grading Phase): 0.63

Acres of Paving: 0.41

Residential Indoor: 176,175; Residential Outdoor: 58,725; Non-Residential Indoor: 4,500; Non-Residential Outdoor: 1,500; Striped Parking Area: 1,104 (Architectural Coating – sqft)

OffRoad Equipment

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

Trips and VMT

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| 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 |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Architectural Coating | 1 | 14.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 7 | 71.00 | 13.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Demolition | 5 | 13.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 3 | 8.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 5 | 13.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 3 | 8.00 | 0.00 | 74.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Architectural Coating - 2020

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 | 42.1273 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2422 | 1.6838 | 1.8314 | 2.9700e-003 | | 0.1109 | 0.1109 | | 0.1109 | 0.1109 | | 281.4481 | 281.4481 | 0.0218 | | 281.9928 |
| Total | 42.3695 | 1.6838 | 1.8314 | 2.9700e-003 | | 0.1109 | 0.1109 | | 0.1109 | 0.1109 | | 281.4481 | 281.4481 | 0.0218 | | 281.9928 |

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3.2 Architectural Coating - 2020

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 | 0.0000 | 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 |
| Worker | 0.0487 | 0.0299 | 0.3851 | 1.1300e-003 | 0.1150 | 7.2000e-004 | 0.1157 | 0.0305 | 6.6000e-004 | 0.0312 | | 112.8409 | 112.8409 | 2.7600e-003 | | 112.9099 |
| Total | 0.0487 | 0.0299 | 0.3851 | 1.1300e-003 | 0.1150 | 7.2000e-004 | 0.1157 | 0.0305 | 6.6000e-004 | 0.0312 | | 112.8409 | 112.8409 | 2.7600e-003 | | 112.9099 |

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 | 42.1273 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2422 | 1.6838 | 1.8314 | 2.9700e-003 | | 0.1109 | 0.1109 | | 0.1109 | 0.1109 | 0.0000 | 281.4481 | 281.4481 | 0.0218 | | 281.9928 |
| Total | 42.3695 | 1.6838 | 1.8314 | 2.9700e-003 | | 0.1109 | 0.1109 | | 0.1109 | 0.1109 | 0.0000 | 281.4481 | 281.4481 | 0.0218 | | 281.9928 |

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3.2 Architectural Coating - 2020

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 | 0.0000 | 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 |
| Worker | 0.0487 | 0.0299 | 0.3851 | 1.1300e-003 | 0.1150 | 7.2000e-004 | 0.1157 | 0.0305 | 6.6000e-004 | 0.0312 | | 112.8409 | 112.8409 | 2.7600e-003 | | 112.9099 |
| Total | 0.0487 | 0.0299 | 0.3851 | 1.1300e-003 | 0.1150 | 7.2000e-004 | 0.1157 | 0.0305 | 6.6000e-004 | 0.0312 | | 112.8409 | 112.8409 | 2.7600e-003 | | 112.9099 |

3.2 Architectural Coating - 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 | | | | | |
| Archit. Coating | 42.1273 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2189 | 1.5268 | 1.8176 | 2.9700e-003 | | 0.0941 | 0.0941 | | 0.0941 | 0.0941 | | 281.4481 | 281.4481 | 0.0193 | | 281.9309 |
| Total | 42.3462 | 1.5268 | 1.8176 | 2.9700e-003 | | 0.0941 | 0.0941 | | 0.0941 | 0.0941 | | 281.4481 | 281.4481 | 0.0193 | | 281.9309 |

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3.2 Architectural Coating - 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 | 0.0000 | 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 |
| Worker | 0.0451 | 0.0267 | 0.3528 | 1.0900e-003 | 0.1150 | 7.0000e-004 | 0.1157 | 0.0305 | 6.4000e-004 | 0.0312 | | 108.9215 | 108.9215 | 2.4700e-003 | | 108.9834 |
| Total | 0.0451 | 0.0267 | 0.3528 | 1.0900e-003 | 0.1150 | 7.0000e-004 | 0.1157 | 0.0305 | 6.4000e-004 | 0.0312 | | 108.9215 | 108.9215 | 2.4700e-003 | | 108.9834 |

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 | 42.1273 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2189 | 1.5268 | 1.8176 | 2.9700e-003 | | 0.0941 | 0.0941 | | 0.0941 | 0.0941 | 0.0000 | 281.4481 | 281.4481 | 0.0193 | | 281.9309 |
| Total | 42.3462 | 1.5268 | 1.8176 | 2.9700e-003 | | 0.0941 | 0.0941 | | 0.0941 | 0.0941 | 0.0000 | 281.4481 | 281.4481 | 0.0193 | | 281.9309 |

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3.2 Architectural Coating - 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 | 0.0000 | 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 |
| Worker | 0.0451 | 0.0267 | 0.3528 | 1.0900e-003 | 0.1150 | 7.0000e-004 | 0.1157 | 0.0305 | 6.4000e-004 | 0.0312 | | 108.9215 | 108.9215 | 2.4700e-003 | | 108.9834 |
| Total | 0.0451 | 0.0267 | 0.3528 | 1.0900e-003 | 0.1150 | 7.0000e-004 | 0.1157 | 0.0305 | 6.4000e-004 | 0.0312 | | 108.9215 | 108.9215 | 2.4700e-003 | | 108.9834 |

3.3 Building Construction - 2020

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 | 2.0305 | 14.7882 | 13.1881 | 0.0220 | | 0.7960 | 0.7960 | | 0.7688 | 0.7688 | | 2,001.1595 | 2,001.1595 | 0.3715 | | 2,010.4467 |
| Total | 2.0305 | 14.7882 | 13.1881 | 0.0220 | | 0.7960 | 0.7960 | | 0.7688 | 0.7688 | | 2,001.1595 | 2,001.1595 | 0.3715 | | 2,010.4467 |

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3.3 Building Construction - 2020

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 | 0.0505 | 1.4619 | 0.3702 | 3.5800e-003 | 0.0880 | 7.2800e-003 | 0.0953 | 0.0253 | 6.9700e-003 | 0.0323 | | 378.6886 | 378.6886 | 0.0166 | | 379.1039 |
| Worker | 0.2468 | 0.1515 | 1.9527 | 5.7400e-003 | 0.5833 | 3.6400e-003 | 0.5869 | 0.1547 | 3.3500e-003 | 0.1581 | | 572.2645 | 572.2645 | 0.0140 | | 572.6147 |
| Total | 0.2973 | 1.6135 | 2.3230 | 9.3200e-003 | 0.6713 | 0.0109 | 0.6822 | 0.1800 | 0.0103 | 0.1904 | | 950.9531 | 950.9531 | 0.0306 | | 951.7185 |

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 | 2.0305 | 14.7882 | 13.1881 | 0.0220 | | 0.7960 | 0.7960 | | 0.7688 | 0.7688 | 0.0000 | 2,001.1595 | 2,001.1595 | 0.3715 | | 2,010.4467 |
| Total | 2.0305 | 14.7882 | 13.1881 | 0.0220 | | 0.7960 | 0.7960 | | 0.7688 | 0.7688 | 0.0000 | 2,001.1595 | 2,001.1595 | 0.3715 | | 2,010.4467 |

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3.3 Building Construction - 2020

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 | 0.0505 | 1.4619 | 0.3702 | 3.5800e-003 | 0.0880 | 7.2800e-003 | 0.0953 | 0.0253 | 6.9700e-003 | 0.0323 | | 378.6886 | 378.6886 | 0.0166 | | 379.1039 |
| Worker | 0.2468 | 0.1515 | 1.9527 | 5.7400e-003 | 0.5833 | 3.6400e-003 | 0.5869 | 0.1547 | 3.3500e-003 | 0.1581 | | 572.2645 | 572.2645 | 0.0140 | | 572.6147 |
| Total | 0.2973 | 1.6135 | 2.3230 | 9.3200e-003 | 0.6713 | 0.0109 | 0.6822 | 0.1800 | 0.0103 | 0.1904 | | 950.9531 | 950.9531 | 0.0306 | | 951.7185 |

3.4 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 | 1.9930 | 19.6966 | 14.4925 | 0.0241 | | 1.0409 | 1.0409 | | 0.9715 | 0.9715 | | 2,322.7171 | 2,322.7171 | 0.5940 | | 2,337.5658 |
| Total | 1.9930 | 19.6966 | 14.4925 | 0.0241 | | 1.0409 | 1.0409 | | 0.9715 | 0.9715 | | 2,322.7171 | 2,322.7171 | 0.5940 | | 2,337.5658 |

Aum Rock Avenue Affordable Housing Project - Santa Clara County, Summer

3.4 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 | 0.0000 | 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 |
| Worker | 0.0419 | 0.0248 | 0.3276 | 1.0100e-003 | 0.1068 | 6.5000e-004 | 0.1074 | 0.0283 | 6.0000e-004 | 0.0289 | | 101.1414 | 101.1414 | 2.3000e-003 | | 101.1989 |
| Total | 0.0419 | 0.0248 | 0.3276 | 1.0100e-003 | 0.1068 | 6.5000e-004 | 0.1074 | 0.0283 | 6.0000e-004 | 0.0289 | | 101.1414 | 101.1414 | 2.3000e-003 | | 101.1989 |

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 | 1.9930 | 19.6966 | 14.4925 | 0.0241 | | 1.0409 | 1.0409 | | 0.9715 | 0.9715 | 0.0000 | 2,322.7171 | 2,322.7171 | 0.5940 | | 2,337.5658 |
| Total | 1.9930 | 19.6966 | 14.4925 | 0.0241 | | 1.0409 | 1.0409 | | 0.9715 | 0.9715 | 0.0000 | 2,322.7171 | 2,322.7171 | 0.5940 | | 2,337.5658 |

Aum Rock Avenue Affordable Housing Project - Santa Clara County, Summer

3.4 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 | 0.0000 | 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 |
| Worker | 0.0419 | 0.0248 | 0.3276 | 1.0100e-003 | 0.1068 | 6.5000e-004 | 0.1074 | 0.0283 | 6.0000e-004 | 0.0289 | | 101.1414 | 101.1414 | 2.3000e-003 | | 101.1989 |
| Total | 0.0419 | 0.0248 | 0.3276 | 1.0100e-003 | 0.1068 | 6.5000e-004 | 0.1074 | 0.0283 | 6.0000e-004 | 0.0289 | | 101.1414 | 101.1414 | 2.3000e-003 | | 101.1989 |

3.5 Grading - 2020

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 | | | | | 4.6836 | 0.0000 | 4.6836 | 2.5007 | 0.0000 | 2.5007 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.3498 | 15.0854 | 6.4543 | 0.0141 | | 0.6844 | 0.6844 | | 0.6296 | 0.6296 | | 1,365.7183 | 1,365.7183 | 0.4417 | | 1,376.7609 |
| Total | 1.3498 | 15.0854 | 6.4543 | 0.0141 | 4.6836 | 0.6844 | 5.3680 | 2.5007 | 0.6296 | 3.1303 | | 1,365.7183 | 1,365.7183 | 0.4417 | | 1,376.7609 |

Aum Rock Avenue Affordable Housing Project - Santa Clara County, Summer

3.5 Grading - 2020

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 | 0.0000 | 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 |
| Worker | 0.0278 | 0.0171 | 0.2200 | 6.5000e-004 | 0.0657 | 4.1000e-004 | 0.0661 | 0.0174 | 3.8000e-004 | 0.0178 | | 64.4805 | 64.4805 | 1.5800e-003 | | 64.5200 |
| Total | 0.0278 | 0.0171 | 0.2200 | 6.5000e-004 | 0.0657 | 4.1000e-004 | 0.0661 | 0.0174 | 3.8000e-004 | 0.0178 | | 64.4805 | 64.4805 | 1.5800e-003 | | 64.5200 |

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 | | | | | 2.1076 | 0.0000 | 2.1076 | 1.1253 | 0.0000 | 1.1253 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.3498 | 15.0854 | 6.4543 | 0.0141 | | 0.6844 | 0.6844 | | 0.6296 | 0.6296 | 0.0000 | 1,365.7183 | 1,365.7183 | 0.4417 | | 1,376.7609 |
| Total | 1.3498 | 15.0854 | 6.4543 | 0.0141 | 2.1076 | 0.6844 | 2.7920 | 1.1253 | 0.6296 | 1.7550 | 0.0000 | 1,365.7183 | 1,365.7183 | 0.4417 | | 1,376.7609 |

Aum Rock Avenue Affordable Housing Project - Santa Clara County, Summer

3.5 Grading - 2020

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 | 0.0000 | 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 |
| Worker | 0.0278 | 0.0171 | 0.2200 | 6.5000e-004 | 0.0657 | 4.1000e-004 | 0.0661 | 0.0174 | 3.8000e-004 | 0.0178 | | 64.4805 | 64.4805 | 1.5800e-003 | | 64.5200 |
| Total | 0.0278 | 0.0171 | 0.2200 | 6.5000e-004 | 0.0657 | 4.1000e-004 | 0.0661 | 0.0174 | 3.8000e-004 | 0.0178 | | 64.4805 | 64.4805 | 1.5800e-003 | | 64.5200 |

3.6 Paving - 2020

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 | 0.8402 | 8.4514 | 8.8758 | 0.0135 | | 0.4695 | 0.4695 | | 0.4328 | 0.4328 | | 1,296.9461 | 1,296.9461 | 0.4111 | | 1,307.2246 |
| Paving | 0.1074 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 0.9476 | 8.4514 | 8.8758 | 0.0135 | | 0.4695 | 0.4695 | | 0.4328 | 0.4328 | | 1,296.9461 | 1,296.9461 | 0.4111 | | 1,307.2246 |

Aum Rock Avenue Affordable Housing Project - Santa Clara County, Summer

3.6 Paving - 2020

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 | 0.0000 | 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 |
| Worker | 0.0452 | 0.0278 | 0.3575 | 1.0500e-003 | 0.1068 | 6.7000e-004 | 0.1075 | 0.0283 | 6.1000e-004 | 0.0289 | | 104.7808 | 104.7808 | 2.5600e-003 | | 104.8449 |
| Total | 0.0452 | 0.0278 | 0.3575 | 1.0500e-003 | 0.1068 | 6.7000e-004 | 0.1075 | 0.0283 | 6.1000e-004 | 0.0289 | | 104.7808 | 104.7808 | 2.5600e-003 | | 104.8449 |

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 | 0.8402 | 8.4514 | 8.8758 | 0.0135 | | 0.4695 | 0.4695 | | 0.4328 | 0.4328 | 0.0000 | 1,296.9461 | 1,296.9461 | 0.4111 | | 1,307.2246 |
| Paving | 0.1074 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 0.9476 | 8.4514 | 8.8758 | 0.0135 | | 0.4695 | 0.4695 | | 0.4328 | 0.4328 | 0.0000 | 1,296.9461 | 1,296.9461 | 0.4111 | | 1,307.2246 |

Aum Rock Avenue Affordable Housing Project - Santa Clara County, Summer

3.6 Paving - 2020

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 | 0.0000 | 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 |
| Worker | 0.0452 | 0.0278 | 0.3575 | 1.0500e-003 | 0.1068 | 6.7000e-004 | 0.1075 | 0.0283 | 6.1000e-004 | 0.0289 | | 104.7808 | 104.7808 | 2.5600e-003 | | 104.8449 |
| Total | 0.0452 | 0.0278 | 0.3575 | 1.0500e-003 | 0.1068 | 6.7000e-004 | 0.1075 | 0.0283 | 6.1000e-004 | 0.0289 | | 104.7808 | 104.7808 | 2.5600e-003 | | 104.8449 |

3.7 Site Preparation - 2020

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 | | | | | 5.6369 | 0.0000 | 5.6369 | 2.9376 | 0.0000 | 2.9376 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.6299 | 18.3464 | 7.7093 | 0.0172 | | 0.8210 | 0.8210 | | 0.7553 | 0.7553 | | 1,667.4119 | 1,667.4119 | 0.5393 | | 1,680.8937 |
| Total | 1.6299 | 18.3464 | 7.7093 | 0.0172 | 5.6369 | 0.8210 | 6.4579 | 2.9376 | 0.7553 | 3.6929 | | 1,667.4119 | 1,667.4119 | 0.5393 | | 1,680.8937 |

Aum Rock Avenue Affordable Housing Project - Santa Clara County, Summer

3.7 Site Preparation - 2020

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 | 0.3039 | 10.5213 | 2.1303 | 0.0294 | 0.6466 | 0.0347 | 0.6813 | 0.1772 | 0.0332 | 0.2104 | | 3,133.0486 | 3,133.0486 | 0.1394 | | 3,136.5347 |
| Vendor | 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 |
| Worker | 0.0278 | 0.0171 | 0.2200 | 6.5000e-004 | 0.0657 | 4.1000e-004 | 0.0661 | 0.0174 | 3.8000e-004 | 0.0178 | | 64.4805 | 64.4805 | 1.5800e-003 | | 64.5200 |
| Total | 0.3318 | 10.5384 | 2.3503 | 0.0300 | 0.7124 | 0.0351 | 0.7474 | 0.1947 | 0.0335 | 0.2282 | | 3,197.5291 | 3,197.5291 | 0.1410 | | 3,201.0546 |

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 | | | | | 2.5366 | 0.0000 | 2.5366 | 1.3219 | 0.0000 | 1.3219 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.6299 | 18.3464 | 7.7093 | 0.0172 | | 0.8210 | 0.8210 | | 0.7553 | 0.7553 | 0.0000 | 1,667.4119 | 1,667.4119 | 0.5393 | | 1,680.8937 |
| Total | 1.6299 | 18.3464 | 7.7093 | 0.0172 | 2.5366 | 0.8210 | 3.3576 | 1.3219 | 0.7553 | 2.0772 | 0.0000 | 1,667.4119 | 1,667.4119 | 0.5393 | | 1,680.8937 |

Aum Rock Avenue Affordable Housing Project - Santa Clara County, Summer

3.7 Site Preparation - 2020

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 | 0.3039 | 10.5213 | 2.1303 | 0.0294 | 0.6466 | 0.0347 | 0.6813 | 0.1772 | 0.0332 | 0.2104 | | 3,133.0486 | 3,133.0486 | 0.1394 | | 3,136.5347 |
| Vendor | 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 |
| Worker | 0.0278 | 0.0171 | 0.2200 | 6.5000e-004 | 0.0657 | 4.1000e-004 | 0.0661 | 0.0174 | 3.8000e-004 | 0.0178 | | 64.4805 | 64.4805 | 1.5800e-003 | | 64.5200 |
| Total | 0.3318 | 10.5384 | 2.3503 | 0.0300 | 0.7124 | 0.0351 | 0.7474 | 0.1947 | 0.0335 | 0.2282 | | 3,197.5291 | 3,197.5291 | 0.1410 | | 3,201.0546 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Aum Rock Avenue Affordable Housing Project - Santa Clara County, 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 | 1.0685 | 3.4195 | 9.2716 | 0.0288 | 2.4335 | 0.0242 | 2.4577 | 0.6496 | 0.0226 | 0.6722 | | 2,908.9294 | 2,908.9294 | 0.1057 | | 2,911.5715 |
| Unmitigated | 1.1697 | 4.0607 | 12.1163 | 0.0400 | 3.4764 | 0.0327 | 3.5091 | 0.9280 | 0.0306 | 0.9586 | | 4,033.0677 | 4,033.0677 | 0.1360 | | 4,036.4687 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---------------------|-------------------------|----------|--------|-------------|------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments Low Rise | 573.33 | 622.92 | 528.09 | 1,325,602 | 927,922 |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Strip Mall | 132.96 | 126.12 | 61.29 | 187,490 | 131,243 |
| Total | 706.29 | 749.04 | 589.38 | 1,513,093 | 1,059,165 |

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 |
| Apartments Low Rise | 10.80 | 4.80 | 5.70 | 31.00 | 15.00 | 54.00 | 86 | 11 | 3 |
| Parking Lot | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Strip Mall | 9.50 | 7.30 | 7.30 | 16.60 | 64.40 | 19.00 | 45 | 40 | 15 |

4.4 Fleet Mix

Aum Rock Avenue Affordable Housing Project - Santa Clara County, Summer

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments Low Rise | 0.607897 | 0.037434 | 0.184004 | 0.107261 | 0.014919 | 0.004991 | 0.012447 | 0.020659 | 0.002115 | 0.001554 | 0.005334 | 0.000623 | 0.000761 |
| Parking Lot | 0.607897 | 0.037434 | 0.184004 | 0.107261 | 0.014919 | 0.004991 | 0.012447 | 0.020659 | 0.002115 | 0.001554 | 0.005334 | 0.000623 | 0.000761 |
| Strip Mall | 0.607897 | 0.037434 | 0.184004 | 0.107261 | 0.014919 | 0.004991 | 0.012447 | 0.020659 | 0.002115 | 0.001554 | 0.005334 | 0.000623 | 0.000761 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

| | 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 | 0.0264 | 0.2259 | 0.0969 | 1.4400e-003 | | 0.0183 | 0.0183 | | 0.0183 | 0.0183 | | 288.2869 | 288.2869 | 5.5300e-003 | 5.2900e-003 | 290.0000 |
| NaturalGas Unmitigated | 0.0264 | 0.2259 | 0.0969 | 1.4400e-003 | | 0.0183 | 0.0183 | | 0.0183 | 0.0183 | | 288.2869 | 288.2869 | 5.5300e-003 | 5.2900e-003 | 290.0000 |

Aum Rock Avenue Affordable Housing Project - Santa Clara County, 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 | | | | | |
| Apartments Low Rise | 2430.96 | 0.0262 | 0.2240 | 0.0953 | 1.4300e-003 | | 0.0181 | 0.0181 | | 0.0181 | 0.0181 | | 285.9952 | 285.9952 | 5.4800e-003 | 5.2400e-003 | 287.6947 |
| 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 |
| Strip Mall | 19.4795 | 2.1000e-004 | 1.9100e-003 | 1.6000e-003 | 1.0000e-005 | | 1.5000e-004 | 1.5000e-004 | | 1.5000e-004 | 1.5000e-004 | | 2.2917 | 2.2917 | 4.0000e-005 | 4.0000e-005 | 2.3053 |
| Total | | 0.0264 | 0.2259 | 0.0969 | 1.4400e-003 | | 0.0183 | 0.0183 | | 0.0183 | 0.0183 | | 288.2869 | 288.2869 | 5.5200e-003 | 5.2800e-003 | 290.0000 |

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 | | | | | |
| Apartments Low Rise | 2.43096 | 0.0262 | 0.2240 | 0.0953 | 1.4300e-003 | | 0.0181 | 0.0181 | | 0.0181 | 0.0181 | | 285.9952 | 285.9952 | 5.4800e-003 | 5.2400e-003 | 287.6947 |
| 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 |
| Strip Mall | 0.0194795 | 2.1000e-004 | 1.9100e-003 | 1.6000e-003 | 1.0000e-005 | | 1.5000e-004 | 1.5000e-004 | | 1.5000e-004 | 1.5000e-004 | | 2.2917 | 2.2917 | 4.0000e-005 | 4.0000e-005 | 2.3053 |
| Total | | 0.0264 | 0.2259 | 0.0969 | 1.4400e-003 | | 0.0183 | 0.0183 | | 0.0183 | 0.0183 | | 288.2869 | 288.2869 | 5.5200e-003 | 5.2800e-003 | 290.0000 |

6.0 Area Detail

Aum Rock Avenue Affordable Housing Project - Santa Clara County, Summer

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed

| | 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 | 2.4951 | 0.0831 | 7.1982 | 3.8000e-004 | | 0.0397 | 0.0397 | | 0.0397 | 0.0397 | 0.0000 | 12.9348 | 12.9348 | 0.0126 | 0.0000 | 13.2486 |
| Unmitigated | 38.2747 | 0.8741 | 54.4702 | 0.0915 | | 6.7506 | 6.7506 | | 6.7506 | 6.7506 | 728.2636 | 335.3465 | 1,063.6102 | 1.0091 | 0.0515 | 1,104.1785 |

Aum Rock Avenue Affordable Housing Project - Santa Clara County, Summer

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 | 0.3442 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 1.9325 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 35.7796 | 0.7910 | 47.2720 | 0.0911 | | 6.7110 | 6.7110 | | 6.7110 | 6.7110 | 728.2636 | 322.4118 | 1,050.6754 | 0.9966 | 0.0515 | 1,090.9299 |
| Landscaping | 0.2184 | 0.0831 | 7.1982 | 3.8000e-004 | | 0.0397 | 0.0397 | | 0.0397 | 0.0397 | | 12.9348 | 12.9348 | 0.0126 | | 13.2486 |
| Total | 38.2747 | 0.8741 | 54.4702 | 0.0915 | | 6.7506 | 6.7506 | | 6.7506 | 6.7506 | 728.2636 | 335.3465 | 1,063.6102 | 1.0091 | 0.0515 | 1,104.1785 |

Aum Rock Avenue Affordable Housing Project - Santa Clara County, 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 | 0.3442 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 1.9325 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 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 |
| Landscaping | 0.2184 | 0.0831 | 7.1982 | 3.8000e-004 | | 0.0397 | 0.0397 | | 0.0397 | 0.0397 | | 12.9348 | 12.9348 | 0.0126 | | 13.2486 |
| Total | 2.4951 | 0.0831 | 7.1982 | 3.8000e-004 | | 0.0397 | 0.0397 | | 0.0397 | 0.0397 | 0.0000 | 12.9348 | 12.9348 | 0.0126 | 0.0000 | 13.2486 |

7.0 Water Detail

7.1 Mitigation Measures Water

- Apply Water Conservation Strategy
- 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

Aum Rock Avenue Affordable Housing Project - Santa Clara County, Summer

Institute Recycling and Composting Services

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 |
|----------------|--------|-----------|------------|-------------|-------------|-----------|
|----------------|--------|-----------|------------|-------------|-------------|-----------|

Boilers

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

User Defined Equipment

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

11.0 Vegetation
