

California Conservation Corps Fortuna Residential Center Multipurpose Building - North Coast Unified APCD Air District, Annual

**California Conservation Corps Fortuna Residential Center Multipurpose Building
North Coast Unified APCD Air District, Annual**

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|----------------------------|-------|----------|-------------|--------------------|------------|
| Government Office Building | 9.80 | 1000sqft | 0.22 | 9,800.00 | 0 |
| Parking Lot | 48.00 | Space | 0.43 | 19,200.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|--------------------------------|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 101 |
| Climate Zone | 1 | | | 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

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Project Characteristics - The CO2 Intensity Factor is based on a 5-year average (PG&E, 2015)

Land Use -

Construction Phase - Construction is expected to start 5/17/2021 and finish 8/3/2022

Vehicle Trips - The project is not expected to generate new vehicle trips

Energy Use - Project will be designed as a zero net energy facility

Water And Wastewater -

Mobile Land Use Mitigation -

Area Mitigation - Low-emitting indoor materials

Energy Mitigation - Efficiency 15% better than Title 24 requirements

Water Mitigation - High-efficiency irrigation for outdoor water use reduction and low-water use fixtures for indoor water use reduction

Waste Mitigation - Assuming California's goal of 75 percent recycling, composting, or source reduction of solid waste by 2020

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| Table Name | Column Name | Default Value | New Value |
|---------------------------|----------------------------|---------------|-----------|
| tblAreaMitigation | UseLowVOCPaintParkingCheck | False | True |
| tblConstructionPhase | NumDays | 5.00 | 28.00 |
| tblConstructionPhase | NumDays | 100.00 | 200.00 |
| tblConstructionPhase | NumDays | 2.00 | 30.00 |
| tblConstructionPhase | NumDays | 5.00 | 30.00 |
| tblConstructionPhase | NumDays | 1.00 | 30.00 |
| tblConstructionPhase | PhaseEndDate | 10/20/2021 | 8/3/2022 |
| tblConstructionPhase | PhaseEndDate | 10/6/2021 | 5/13/2022 |
| tblConstructionPhase | PhaseEndDate | 5/19/2021 | 8/6/2021 |
| tblConstructionPhase | PhaseEndDate | 10/13/2021 | 6/24/2022 |
| tblConstructionPhase | PhaseEndDate | 5/17/2021 | 6/25/2021 |
| tblConstructionPhase | PhaseStartDate | 10/14/2021 | 6/27/2022 |
| tblConstructionPhase | PhaseStartDate | 5/20/2021 | 8/9/2021 |
| tblConstructionPhase | PhaseStartDate | 5/18/2021 | 6/28/2021 |
| tblConstructionPhase | PhaseStartDate | 10/7/2021 | 5/16/2022 |
| tblEnergyUse | LightingElect | 3.45 | 0.00 |
| tblEnergyUse | NT24E | 3.98 | 0.00 |
| tblEnergyUse | T24E | 3.63 | 0.00 |
| tblEnergyUse | T24NG | 19.54 | 0.00 |
| tblGrading | AcresOfGrading | 15.00 | 0.50 |
| tblProjectCharacteristics | CO2IntensityFactor | 641.35 | 328.8 |
| tblVehicleTrips | WD_TR | 68.93 | 0.00 |

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) |
|---------|------------|------------|--|--|
| 1 | 5-17-2021 | 8-16-2021 | 0.2661 | 0.2661 |
| 2 | 8-17-2021 | 11-16-2021 | 0.3142 | 0.3142 |
| 3 | 11-17-2021 | 2-16-2022 | 0.2965 | 0.2965 |
| 4 | 2-17-2022 | 5-16-2022 | 0.2626 | 0.2626 |
| 5 | 5-17-2022 | 8-16-2022 | 0.2340 | 0.2340 |
| | | Highest | 0.3142 | 0.3142 |

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 | 0.0516 | 0.0000 | 5.3000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 1.0300e-003 | 1.0300e-003 | 0.0000 | 0.0000 | 1.1000e-003 |
| Energy | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 1.0022 | 1.0022 | 9.0000e-005 | 2.0000e-005 | 1.0099 |
| Mobile | 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 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 1.8493 | 0.0000 | 1.8493 | 0.1093 | 0.0000 | 4.5814 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.6177 | 2.1940 | 2.8116 | 0.0636 | 1.5400e-003 | 4.8608 |
| Total | 0.0516 | 0.0000 | 5.3000e-004 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 2.4669 | 3.1973 | 5.6642 | 0.1730 | 1.5600e-003 | 10.4532 |

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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 | 0.0516 | 0.0000 | 5.3000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 1.0300e-003 | 1.0300e-003 | 0.0000 | 0.0000 | 1.1000e-003 |
| Energy | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.9020 | 0.9020 | 8.0000e-005 | 2.0000e-005 | 0.9089 |
| Mobile | 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 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.4623 | 0.0000 | 0.4623 | 0.0273 | 0.0000 | 1.1454 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.4941 | 1.8418 | 2.3359 | 0.0509 | 1.2300e-003 | 3.9758 |
| Total | 0.0516 | 0.0000 | 5.3000e-004 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.9564 | 2.7448 | 3.7012 | 0.0783 | 1.2500e-003 | 6.0312 |

| | 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 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 61.23 | 14.15 | 34.65 | 54.74 | 19.87 | 42.30 |

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 | Site Preparation | Site Preparation | 5/17/2021 | 6/25/2021 | 5 | 30 | |
| 2 | Grading | Grading | 6/28/2021 | 8/6/2021 | 5 | 30 | |
| 3 | Building Construction | Building Construction | 8/9/2021 | 5/13/2022 | 5 | 200 | |
| 4 | Paving | Paving | 5/16/2022 | 6/24/2022 | 5 | 30 | |
| 5 | Architectural Coating | Architectural Coating | 6/27/2022 | 8/3/2022 | 5 | 28 | |

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.43

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 14,700; Non-Residential Outdoor: 4,900; Striped Parking Area: 1,152 (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 | 4 | 6.00 | 9 | 0.56 |
| Grading | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Building Construction | Cranes | 1 | 4.00 | 231 | 0.29 |
| Building Construction | Forklifts | 2 | 6.00 | 89 | 0.20 |
| Site Preparation | Graders | 1 | 8.00 | 187 | 0.41 |
| Paving | Pavers | 1 | 7.00 | 130 | 0.42 |
| Paving | Rollers | 1 | 7.00 | 80 | 0.38 |
| Grading | Rubber Tired Dozers | 1 | 1.00 | 247 | 0.40 |
| Building Construction | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Grading | Tractors/Loaders/Backhoes | 2 | 6.00 | 97 | 0.37 |
| Paving | Tractors/Loaders/Backhoes | 1 | 7.00 | 97 | 0.37 |
| Site Preparation | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |

Trips and VMT

| 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 |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Site Preparation | 2 | 5.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 4 | 10.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 5 | 11.00 | 5.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 7 | 18.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 2.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

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3.2 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 | | | | | 2.7000e-004 | 0.0000 | 2.7000e-004 | 3.0000e-005 | 0.0000 | 3.0000e-005 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 9.6000e-003 | 0.1173 | 0.0604 | 1.5000e-004 | | 4.4900e-003 | 4.4900e-003 | | 4.1300e-003 | 4.1300e-003 | 0.0000 | 12.8265 | 12.8265 | 4.1500e-003 | 0.0000 | 12.9302 |
| Total | 9.6000e-003 | 0.1173 | 0.0604 | 1.5000e-004 | 2.7000e-004 | 4.4900e-003 | 4.7600e-003 | 3.0000e-005 | 4.1300e-003 | 4.1600e-003 | 0.0000 | 12.8265 | 12.8265 | 4.1500e-003 | 0.0000 | 12.9302 |

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 | 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 |
| Worker | 6.1000e-004 | 5.3000e-004 | 4.3700e-003 | 1.0000e-005 | 5.8000e-004 | 1.0000e-005 | 5.9000e-004 | 1.5000e-004 | 1.0000e-005 | 1.6000e-004 | 0.0000 | 0.5411 | 0.5411 | 4.0000e-005 | 0.0000 | 0.5421 |
| Total | 6.1000e-004 | 5.3000e-004 | 4.3700e-003 | 1.0000e-005 | 5.8000e-004 | 1.0000e-005 | 5.9000e-004 | 1.5000e-004 | 1.0000e-005 | 1.6000e-004 | 0.0000 | 0.5411 | 0.5411 | 4.0000e-005 | 0.0000 | 0.5421 |

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3.2 Site Preparation - 2021

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 | | | | | 2.7000e-004 | 0.0000 | 2.7000e-004 | 3.0000e-005 | 0.0000 | 3.0000e-005 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 9.6000e-003 | 0.1173 | 0.0604 | 1.5000e-004 | | 4.4900e-003 | 4.4900e-003 | | 4.1300e-003 | 4.1300e-003 | 0.0000 | 12.8265 | 12.8265 | 4.1500e-003 | 0.0000 | 12.9302 |
| Total | 9.6000e-003 | 0.1173 | 0.0604 | 1.5000e-004 | 2.7000e-004 | 4.4900e-003 | 4.7600e-003 | 3.0000e-005 | 4.1300e-003 | 4.1600e-003 | 0.0000 | 12.8265 | 12.8265 | 4.1500e-003 | 0.0000 | 12.9302 |

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 | 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 |
| Worker | 6.1000e-004 | 5.3000e-004 | 4.3700e-003 | 1.0000e-005 | 5.8000e-004 | 1.0000e-005 | 5.9000e-004 | 1.5000e-004 | 1.0000e-005 | 1.6000e-004 | 0.0000 | 0.5411 | 0.5411 | 4.0000e-005 | 0.0000 | 0.5421 |
| Total | 6.1000e-004 | 5.3000e-004 | 4.3700e-003 | 1.0000e-005 | 5.8000e-004 | 1.0000e-005 | 5.9000e-004 | 1.5000e-004 | 1.0000e-005 | 1.6000e-004 | 0.0000 | 0.5411 | 0.5411 | 4.0000e-005 | 0.0000 | 0.5421 |

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3.3 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 | | | | | 0.0113 | 0.0000 | 0.0113 | 6.2100e-003 | 0.0000 | 6.2100e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0120 | 0.1088 | 0.1135 | 1.8000e-004 | | 6.1100e-003 | 6.1100e-003 | | 5.8300e-003 | 5.8300e-003 | 0.0000 | 15.6140 | 15.6140 | 2.9100e-003 | 0.0000 | 15.6868 |
| Total | 0.0120 | 0.1088 | 0.1135 | 1.8000e-004 | 0.0113 | 6.1100e-003 | 0.0174 | 6.2100e-003 | 5.8300e-003 | 0.0120 | 0.0000 | 15.6140 | 15.6140 | 2.9100e-003 | 0.0000 | 15.6868 |

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 | 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 |
| Worker | 1.2200e-003 | 1.0500e-003 | 8.7400e-003 | 1.0000e-005 | 1.1600e-003 | 1.0000e-005 | 1.1700e-003 | 3.1000e-004 | 1.0000e-005 | 3.2000e-004 | 0.0000 | 1.0822 | 1.0822 | 8.0000e-005 | 0.0000 | 1.0841 |
| Total | 1.2200e-003 | 1.0500e-003 | 8.7400e-003 | 1.0000e-005 | 1.1600e-003 | 1.0000e-005 | 1.1700e-003 | 3.1000e-004 | 1.0000e-005 | 3.2000e-004 | 0.0000 | 1.0822 | 1.0822 | 8.0000e-005 | 0.0000 | 1.0841 |

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3.3 Grading - 2021

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 | | | | | 0.0113 | 0.0000 | 0.0113 | 6.2100e-003 | 0.0000 | 6.2100e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0120 | 0.1088 | 0.1135 | 1.8000e-004 | | 6.1100e-003 | 6.1100e-003 | | 5.8300e-003 | 5.8300e-003 | 0.0000 | 15.6140 | 15.6140 | 2.9100e-003 | 0.0000 | 15.6867 |
| Total | 0.0120 | 0.1088 | 0.1135 | 1.8000e-004 | 0.0113 | 6.1100e-003 | 0.0174 | 6.2100e-003 | 5.8300e-003 | 0.0120 | 0.0000 | 15.6140 | 15.6140 | 2.9100e-003 | 0.0000 | 15.6867 |

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 | 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 |
| Worker | 1.2200e-003 | 1.0500e-003 | 8.7400e-003 | 1.0000e-005 | 1.1600e-003 | 1.0000e-005 | 1.1700e-003 | 3.1000e-004 | 1.0000e-005 | 3.2000e-004 | 0.0000 | 1.0822 | 1.0822 | 8.0000e-005 | 0.0000 | 1.0841 |
| Total | 1.2200e-003 | 1.0500e-003 | 8.7400e-003 | 1.0000e-005 | 1.1600e-003 | 1.0000e-005 | 1.1700e-003 | 3.1000e-004 | 1.0000e-005 | 3.2000e-004 | 0.0000 | 1.0822 | 1.0822 | 8.0000e-005 | 0.0000 | 1.0841 |

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3.4 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 | 0.0407 | 0.4192 | 0.3813 | 6.0000e-004 | | 0.0235 | 0.0235 | | 0.0216 | 0.0216 | 0.0000 | 52.5431 | 52.5431 | 0.0170 | 0.0000 | 52.9679 |
| Total | 0.0407 | 0.4192 | 0.3813 | 6.0000e-004 | | 0.0235 | 0.0235 | | 0.0216 | 0.0216 | 0.0000 | 52.5431 | 52.5431 | 0.0170 | 0.0000 | 52.9679 |

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 | 1.3000e-003 | 0.0318 | 9.0800e-003 | 7.0000e-005 | 1.6900e-003 | 1.4000e-004 | 1.8300e-003 | 4.9000e-004 | 1.3000e-004 | 6.2000e-004 | 0.0000 | 6.9476 | 6.9476 | 3.2000e-004 | 0.0000 | 6.9555 |
| Worker | 4.7100e-003 | 4.0600e-003 | 0.0336 | 5.0000e-005 | 4.4600e-003 | 5.0000e-005 | 4.5100e-003 | 1.1900e-003 | 4.0000e-005 | 1.2300e-003 | 0.0000 | 4.1663 | 4.1663 | 3.0000e-004 | 0.0000 | 4.1739 |
| Total | 6.0100e-003 | 0.0359 | 0.0427 | 1.2000e-004 | 6.1500e-003 | 1.9000e-004 | 6.3400e-003 | 1.6800e-003 | 1.7000e-004 | 1.8500e-003 | 0.0000 | 11.1139 | 11.1139 | 6.2000e-004 | 0.0000 | 11.1294 |

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3.4 Building Construction - 2021

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 | 0.0407 | 0.4192 | 0.3813 | 6.0000e-004 | | 0.0235 | 0.0235 | | 0.0216 | 0.0216 | 0.0000 | 52.5430 | 52.5430 | 0.0170 | 0.0000 | 52.9679 |
| Total | 0.0407 | 0.4192 | 0.3813 | 6.0000e-004 | | 0.0235 | 0.0235 | | 0.0216 | 0.0216 | 0.0000 | 52.5430 | 52.5430 | 0.0170 | 0.0000 | 52.9679 |

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 | 1.3000e-003 | 0.0318 | 9.0800e-003 | 7.0000e-005 | 1.6900e-003 | 1.4000e-004 | 1.8300e-003 | 4.9000e-004 | 1.3000e-004 | 6.2000e-004 | 0.0000 | 6.9476 | 6.9476 | 3.2000e-004 | 0.0000 | 6.9555 |
| Worker | 4.7100e-003 | 4.0600e-003 | 0.0336 | 5.0000e-005 | 4.4600e-003 | 5.0000e-005 | 4.5100e-003 | 1.1900e-003 | 4.0000e-005 | 1.2300e-003 | 0.0000 | 4.1663 | 4.1663 | 3.0000e-004 | 0.0000 | 4.1739 |
| Total | 6.0100e-003 | 0.0359 | 0.0427 | 1.2000e-004 | 6.1500e-003 | 1.9000e-004 | 6.3400e-003 | 1.6800e-003 | 1.7000e-004 | 1.8500e-003 | 0.0000 | 11.1139 | 11.1139 | 6.2000e-004 | 0.0000 | 11.1294 |

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3.4 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 | 0.0326 | 0.3337 | 0.3398 | 5.4000e-004 | | 0.0177 | 0.0177 | | 0.0163 | 0.0163 | 0.0000 | 47.5702 | 47.5702 | 0.0154 | 0.0000 | 47.9548 |
| Total | 0.0326 | 0.3337 | 0.3398 | 5.4000e-004 | | 0.0177 | 0.0177 | | 0.0163 | 0.0163 | 0.0000 | 47.5702 | 47.5702 | 0.0154 | 0.0000 | 47.9548 |

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 | 1.0900e-003 | 0.0273 | 7.4800e-003 | 7.0000e-005 | 1.5300e-003 | 1.1000e-004 | 1.6400e-003 | 4.4000e-004 | 1.1000e-004 | 5.5000e-004 | 0.0000 | 6.2407 | 6.2407 | 2.8000e-004 | 0.0000 | 6.2476 |
| Worker | 4.0500e-003 | 3.3300e-003 | 0.0274 | 4.0000e-005 | 4.0300e-003 | 4.0000e-005 | 4.0800e-003 | 1.0800e-003 | 4.0000e-005 | 1.1100e-003 | 0.0000 | 3.6568 | 3.6568 | 2.5000e-004 | 0.0000 | 3.6629 |
| Total | 5.1400e-003 | 0.0306 | 0.0349 | 1.1000e-004 | 5.5600e-003 | 1.5000e-004 | 5.7200e-003 | 1.5200e-003 | 1.5000e-004 | 1.6600e-003 | 0.0000 | 9.8975 | 9.8975 | 5.3000e-004 | 0.0000 | 9.9106 |

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3.4 Building Construction - 2022

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 | 0.0326 | 0.3337 | 0.3398 | 5.4000e-004 | | 0.0177 | 0.0177 | | 0.0163 | 0.0163 | 0.0000 | 47.5701 | 47.5701 | 0.0154 | 0.0000 | 47.9547 |
| Total | 0.0326 | 0.3337 | 0.3398 | 5.4000e-004 | | 0.0177 | 0.0177 | | 0.0163 | 0.0163 | 0.0000 | 47.5701 | 47.5701 | 0.0154 | 0.0000 | 47.9547 |

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 | 1.0900e-003 | 0.0273 | 7.4800e-003 | 7.0000e-005 | 1.5300e-003 | 1.1000e-004 | 1.6400e-003 | 4.4000e-004 | 1.1000e-004 | 5.5000e-004 | 0.0000 | 6.2407 | 6.2407 | 2.8000e-004 | 0.0000 | 6.2476 |
| Worker | 4.0500e-003 | 3.3300e-003 | 0.0274 | 4.0000e-005 | 4.0300e-003 | 4.0000e-005 | 4.0800e-003 | 1.0800e-003 | 4.0000e-005 | 1.1100e-003 | 0.0000 | 3.6568 | 3.6568 | 2.5000e-004 | 0.0000 | 3.6629 |
| Total | 5.1400e-003 | 0.0306 | 0.0349 | 1.1000e-004 | 5.5600e-003 | 1.5000e-004 | 5.7200e-003 | 1.5200e-003 | 1.5000e-004 | 1.6600e-003 | 0.0000 | 9.8975 | 9.8975 | 5.3000e-004 | 0.0000 | 9.9106 |

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3.5 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 | 9.7000e-003 | 0.0888 | 0.1055 | 1.7000e-004 | | 4.4400e-003 | 4.4400e-003 | | 4.1400e-003 | 4.1400e-003 | 0.0000 | 14.0953 | 14.0953 | 4.1100e-003 | 0.0000 | 14.1979 |
| Paving | 5.6000e-004 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0103 | 0.0888 | 0.1055 | 1.7000e-004 | | 4.4400e-003 | 4.4400e-003 | | 4.1400e-003 | 4.1400e-003 | 0.0000 | 14.0953 | 14.0953 | 4.1100e-003 | 0.0000 | 14.1979 |

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 | 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 |
| Worker | 2.0900e-003 | 1.7200e-003 | 0.0142 | 2.0000e-005 | 2.0800e-003 | 2.0000e-005 | 2.1100e-003 | 5.6000e-004 | 2.0000e-005 | 5.8000e-004 | 0.0000 | 1.8896 | 1.8896 | 1.3000e-004 | 0.0000 | 1.8928 |
| Total | 2.0900e-003 | 1.7200e-003 | 0.0142 | 2.0000e-005 | 2.0800e-003 | 2.0000e-005 | 2.1100e-003 | 5.6000e-004 | 2.0000e-005 | 5.8000e-004 | 0.0000 | 1.8896 | 1.8896 | 1.3000e-004 | 0.0000 | 1.8928 |

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3.5 Paving - 2022

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 | 9.7000e-003 | 0.0888 | 0.1055 | 1.7000e-004 | | 4.4400e-003 | 4.4400e-003 | | 4.1400e-003 | 4.1400e-003 | 0.0000 | 14.0953 | 14.0953 | 4.1100e-003 | 0.0000 | 14.1979 |
| Paving | 5.6000e-004 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0103 | 0.0888 | 0.1055 | 1.7000e-004 | | 4.4400e-003 | 4.4400e-003 | | 4.1400e-003 | 4.1400e-003 | 0.0000 | 14.0953 | 14.0953 | 4.1100e-003 | 0.0000 | 14.1979 |

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 | 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 |
| Worker | 2.0900e-003 | 1.7200e-003 | 0.0142 | 2.0000e-005 | 2.0800e-003 | 2.0000e-005 | 2.1100e-003 | 5.6000e-004 | 2.0000e-005 | 5.8000e-004 | 0.0000 | 1.8896 | 1.8896 | 1.3000e-004 | 0.0000 | 1.8928 |
| Total | 2.0900e-003 | 1.7200e-003 | 0.0142 | 2.0000e-005 | 2.0800e-003 | 2.0000e-005 | 2.1100e-003 | 5.6000e-004 | 2.0000e-005 | 5.8000e-004 | 0.0000 | 1.8896 | 1.8896 | 1.3000e-004 | 0.0000 | 1.8928 |

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3.6 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 | 0.1202 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 2.8600e-003 | 0.0197 | 0.0254 | 4.0000e-005 | | 1.1400e-003 | 1.1400e-003 | | 1.1400e-003 | 1.1400e-003 | 0.0000 | 3.5746 | 3.5746 | 2.3000e-004 | 0.0000 | 3.5804 |
| Total | 0.1231 | 0.0197 | 0.0254 | 4.0000e-005 | | 1.1400e-003 | 1.1400e-003 | | 1.1400e-003 | 1.1400e-003 | 0.0000 | 3.5746 | 3.5746 | 2.3000e-004 | 0.0000 | 3.5804 |

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 | 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 |
| Worker | 2.2000e-004 | 1.8000e-004 | 1.4700e-003 | 0.0000 | 2.2000e-004 | 0.0000 | 2.2000e-004 | 6.0000e-005 | 0.0000 | 6.0000e-005 | 0.0000 | 0.1960 | 0.1960 | 1.0000e-005 | 0.0000 | 0.1963 |
| Total | 2.2000e-004 | 1.8000e-004 | 1.4700e-003 | 0.0000 | 2.2000e-004 | 0.0000 | 2.2000e-004 | 6.0000e-005 | 0.0000 | 6.0000e-005 | 0.0000 | 0.1960 | 0.1960 | 1.0000e-005 | 0.0000 | 0.1963 |

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3.6 Architectural Coating - 2022

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 | 0.1202 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 2.8600e-003 | 0.0197 | 0.0254 | 4.0000e-005 | | 1.1400e-003 | 1.1400e-003 | | 1.1400e-003 | 1.1400e-003 | 0.0000 | 3.5746 | 3.5746 | 2.3000e-004 | 0.0000 | 3.5804 |
| Total | 0.1231 | 0.0197 | 0.0254 | 4.0000e-005 | | 1.1400e-003 | 1.1400e-003 | | 1.1400e-003 | 1.1400e-003 | 0.0000 | 3.5746 | 3.5746 | 2.3000e-004 | 0.0000 | 3.5804 |

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 | 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 |
| Worker | 2.2000e-004 | 1.8000e-004 | 1.4700e-003 | 0.0000 | 2.2000e-004 | 0.0000 | 2.2000e-004 | 6.0000e-005 | 0.0000 | 6.0000e-005 | 0.0000 | 0.1960 | 0.1960 | 1.0000e-005 | 0.0000 | 0.1963 |
| Total | 2.2000e-004 | 1.8000e-004 | 1.4700e-003 | 0.0000 | 2.2000e-004 | 0.0000 | 2.2000e-004 | 6.0000e-005 | 0.0000 | 6.0000e-005 | 0.0000 | 0.1960 | 0.1960 | 1.0000e-005 | 0.0000 | 0.1963 |

4.0 Operational Detail - Mobile

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4.1 Mitigation Measures Mobile

Increase Transit Accessibility

Improve Pedestrian Network

| | 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 | 0.0000 | 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 |
| Unmitigated | 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 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|----------------------------|-------------------------|----------|--------|-------------|------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Government Office Building | 0.00 | 0.00 | 0.00 | | |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Total | 0.00 | 0.00 | 0.00 | | |

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 |
| Government Office Building | 9.50 | 7.30 | 7.30 | 33.00 | 62.00 | 5.00 | 50 | 34 | 16 |
| Parking Lot | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

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5.3 Energy by Land Use - Electricity

Unmitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------|-----------------|---------------|--------------------|--------------------|---------------|
| Land Use | kWh/yr | MT/yr | | | |
| Government Office Building | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 6720 | 1.0022 | 9.0000e-005 | 2.0000e-005 | 1.0099 |
| Total | | 1.0022 | 9.0000e-005 | 2.0000e-005 | 1.0099 |

Mitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------|-----------------|---------------|--------------------|--------------------|---------------|
| Land Use | kWh/yr | MT/yr | | | |
| Government Office Building | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 6048 | 0.9020 | 8.0000e-005 | 2.0000e-005 | 0.9089 |
| Total | | 0.9020 | 8.0000e-005 | 2.0000e-005 | 0.9089 |

6.0 Area Detail

6.1 Mitigation Measures Area

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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

| | 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 | 0.0516 | 0.0000 | 5.3000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 1.0300e-003 | 1.0300e-003 | 0.0000 | 0.0000 | 1.1000e-003 |
| Unmitigated | 0.0516 | 0.0000 | 5.3000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 1.0300e-003 | 1.0300e-003 | 0.0000 | 0.0000 | 1.1000e-003 |

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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 | 0.0120 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.0395 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 5.0000e-005 | 0.0000 | 5.3000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 1.0300e-003 | 1.0300e-003 | 0.0000 | 0.0000 | 1.1000e-003 |
| Total | 0.0516 | 0.0000 | 5.3000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 1.0300e-003 | 1.0300e-003 | 0.0000 | 0.0000 | 1.1000e-003 |

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 | 0.0120 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.0395 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 5.0000e-005 | 0.0000 | 5.3000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 1.0300e-003 | 1.0300e-003 | 0.0000 | 0.0000 | 1.1000e-003 |
| Total | 0.0516 | 0.0000 | 5.3000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 1.0300e-003 | 1.0300e-003 | 0.0000 | 0.0000 | 1.1000e-003 |

7.0 Water Detail

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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

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|-------------|--------|
| Category | MT/yr | | | |
| Mitigated | 2.3359 | 0.0509 | 1.2300e-003 | 3.9758 |
| Unmitigated | 2.8116 | 0.0636 | 1.5400e-003 | 4.8608 |

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7.2 Water by Land Use

Unmitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------|--------------------|---------------|---------------|--------------------|---------------|
| Land Use | Mgal | MT/yr | | | |
| Government Office Building | 1.94686 / 1.19324 | 2.8116 | 0.0636 | 1.5400e-003 | 4.8608 |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 2.8116 | 0.0636 | 1.5400e-003 | 4.8608 |

Mitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------|--------------------|---------------|---------------|--------------------|---------------|
| Land Use | Mgal | MT/yr | | | |
| Government Office Building | 1.55749 / 1.12045 | 2.3359 | 0.0509 | 1.2300e-003 | 3.9758 |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 2.3359 | 0.0509 | 1.2300e-003 | 3.9758 |

8.0 Waste Detail

8.1 Mitigation Measures Waste

California Conservation Corps Fortuna Residential Center Multipurpose Building - North Coast Unified APCD Air District, Annual

Institute Recycling and Composting Services

Category/Year

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|--------|--------|
| | MT/yr | | | |
| Mitigated | 0.4623 | 0.0273 | 0.0000 | 1.1454 |
| Unmitigated | 1.8493 | 0.1093 | 0.0000 | 4.5814 |

8.2 Waste by Land Use

Unmitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|----------------------------|----------------|---------------|---------------|---------------|---------------|
| Land Use | tons | MT/yr | | | |
| Government Office Building | 9.11 | 1.8493 | 0.1093 | 0.0000 | 4.5814 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 1.8493 | 0.1093 | 0.0000 | 4.5814 |

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8.2 Waste by Land Use

Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|----------------------------|----------------|---------------|---------------|---------------|---------------|
| Land Use | tons | MT/yr | | | |
| Government Office Building | 2.2775 | 0.4623 | 0.0273 | 0.0000 | 1.1454 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.4623 | 0.0273 | 0.0000 | 1.1454 |

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

California Conservation Corps Fortuna Residential Center Multipurpose Building - North Coast Unified APCD Air District, Annual

California Conservation Corps Fortuna Residential Center Multipurpose Building - North Coast Unified APCD Air District, Summer

**California Conservation Corps Fortuna Residential Center Multipurpose Building
North Coast Unified APCD Air District, Summer**

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|----------------------------|-------|----------|-------------|--------------------|------------|
| Government Office Building | 9.80 | 1000sqft | 0.22 | 9,800.00 | 0 |
| Parking Lot | 48.00 | Space | 0.43 | 19,200.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|--------------------------------|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 101 |
| Climate Zone | 1 | | | 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

California Conservation Corps Fortuna Residential Center Multipurpose Building - North Coast Unified APCD Air District, Summer

Project Characteristics - The CO2 Intensity Factor is based on a 5-year average (PG&E, 2015)

Land Use -

Construction Phase - Construction is expected to start 5/17/2021 and finish 8/3/2022

Vehicle Trips - The project is not expected to generate new vehicle trips

Energy Use - Project will be designed as a zero net energy facility

Water And Wastewater -

Mobile Land Use Mitigation -

Area Mitigation - Low-emitting indoor materials

Energy Mitigation - Efficiency 15% better than Title 24 requirements

Water Mitigation - High-efficiency irrigation for outdoor water use reduction and low-water use fixtures for indoor water use reduction

Waste Mitigation - Assuming California's goal of 75 percent recycling, composting, or source reduction of solid waste by 2020

California Conservation Corps Fortuna Residential Center Multipurpose Building - North Coast Unified APCD Air District, Summer

| Table Name | Column Name | Default Value | New Value |
|---------------------------|----------------------------|---------------|-----------|
| tblAreaMitigation | UseLowVOCPaintParkingCheck | False | True |
| tblConstructionPhase | NumDays | 5.00 | 28.00 |
| tblConstructionPhase | NumDays | 100.00 | 200.00 |
| tblConstructionPhase | NumDays | 2.00 | 30.00 |
| tblConstructionPhase | NumDays | 5.00 | 30.00 |
| tblConstructionPhase | NumDays | 1.00 | 30.00 |
| tblConstructionPhase | PhaseEndDate | 10/20/2021 | 8/3/2022 |
| tblConstructionPhase | PhaseEndDate | 10/6/2021 | 5/13/2022 |
| tblConstructionPhase | PhaseEndDate | 5/19/2021 | 8/6/2021 |
| tblConstructionPhase | PhaseEndDate | 10/13/2021 | 6/24/2022 |
| tblConstructionPhase | PhaseEndDate | 5/17/2021 | 6/25/2021 |
| tblConstructionPhase | PhaseStartDate | 10/14/2021 | 6/27/2022 |
| tblConstructionPhase | PhaseStartDate | 5/20/2021 | 8/9/2021 |
| tblConstructionPhase | PhaseStartDate | 5/18/2021 | 6/28/2021 |
| tblConstructionPhase | PhaseStartDate | 10/7/2021 | 5/16/2022 |
| tblEnergyUse | LightingElect | 3.45 | 0.00 |
| tblEnergyUse | NT24E | 3.98 | 0.00 |
| tblEnergyUse | T24E | 3.63 | 0.00 |
| tblEnergyUse | T24NG | 19.54 | 0.00 |
| tblGrading | AcresOfGrading | 15.00 | 0.50 |
| tblProjectCharacteristics | CO2IntensityFactor | 641.35 | 328.8 |
| tblVehicleTrips | WD_TR | 68.93 | 0.00 |

2.0 Emissions Summary

California Conservation Corps Fortuna Residential Center Multipurpose Building - North Coast Unified APCD 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 | 0.2830 | 5.0000e-005 | 5.9100e-003 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | | 0.0127 | 0.0127 | 3.0000e-005 | | 0.0135 |
| Energy | 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 |
| Mobile | 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 | 0.2830 | 5.0000e-005 | 5.9100e-003 | 0.0000 | 0.0000 | 2.0000e-005 | 2.0000e-005 | 0.0000 | 2.0000e-005 | 2.0000e-005 | | 0.0127 | 0.0127 | 3.0000e-005 | 0.0000 | 0.0135 |

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 | 0.2830 | 5.0000e-005 | 5.9100e-003 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | | 0.0127 | 0.0127 | 3.0000e-005 | | 0.0135 |
| Energy | 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 |
| Mobile | 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 | 0.2830 | 5.0000e-005 | 5.9100e-003 | 0.0000 | 0.0000 | 2.0000e-005 | 2.0000e-005 | 0.0000 | 2.0000e-005 | 2.0000e-005 | | 0.0127 | 0.0127 | 3.0000e-005 | 0.0000 | 0.0135 |

California Conservation Corps Fortuna Residential Center Multipurpose Building - North Coast Unified APCD 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 |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1 | Site Preparation | Site Preparation | 5/17/2021 | 6/25/2021 | 5 | 30 | |
| 2 | Grading | Grading | 6/28/2021 | 8/6/2021 | 5 | 30 | |
| 3 | Building Construction | Building Construction | 8/9/2021 | 5/13/2022 | 5 | 200 | |
| 4 | Paving | Paving | 5/16/2022 | 6/24/2022 | 5 | 30 | |
| 5 | Architectural Coating | Architectural Coating | 6/27/2022 | 8/3/2022 | 5 | 28 | |

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.43

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 14,700; Non-Residential Outdoor: 4,900; Striped Parking Area: 1,152 (Architectural Coating – sqft)

OffRoad Equipment

California Conservation Corps Fortuna Residential Center Multipurpose Building - North Coast Unified APCD Air District, Summer

| 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 | 4 | 6.00 | 9 | 0.56 |
| Grading | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Building Construction | Cranes | 1 | 4.00 | 231 | 0.29 |
| Building Construction | Forklifts | 2 | 6.00 | 89 | 0.20 |
| Site Preparation | Graders | 1 | 8.00 | 187 | 0.41 |
| Paving | Pavers | 1 | 7.00 | 130 | 0.42 |
| Paving | Rollers | 1 | 7.00 | 80 | 0.38 |
| Grading | Rubber Tired Dozers | 1 | 1.00 | 247 | 0.40 |
| Building Construction | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Grading | Tractors/Loaders/Backhoes | 2 | 6.00 | 97 | 0.37 |
| Paving | Tractors/Loaders/Backhoes | 1 | 7.00 | 97 | 0.37 |
| Site Preparation | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |

Trips and VMT

| 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 |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Site Preparation | 2 | 5.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 4 | 10.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 5 | 11.00 | 5.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 7 | 18.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 2.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

California Conservation Corps Fortuna Residential Center Multipurpose Building - North Coast Unified APCD Air District, Summer

3.2 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 | | | | | 0.0177 | 0.0000 | 0.0177 | 1.9100e-003 | 0.0000 | 1.9100e-003 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.6403 | 7.8204 | 4.0274 | 9.7300e-003 | | 0.2995 | 0.2995 | | 0.2755 | 0.2755 | | 942.5842 | 942.5842 | 0.3049 | | 950.2055 |
| Total | 0.6403 | 7.8204 | 4.0274 | 9.7300e-003 | 0.0177 | 0.2995 | 0.3172 | 1.9100e-003 | 0.2755 | 0.2774 | | 942.5842 | 942.5842 | 0.3049 | | 950.2055 |

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 | 0.0377 | 0.0322 | 0.2814 | 4.0000e-004 | 0.0411 | 4.2000e-004 | 0.0415 | 0.0109 | 3.8000e-004 | 0.0113 | | 39.9349 | 39.9349 | 2.8600e-003 | | 40.0063 |
| Total | 0.0377 | 0.0322 | 0.2814 | 4.0000e-004 | 0.0411 | 4.2000e-004 | 0.0415 | 0.0109 | 3.8000e-004 | 0.0113 | | 39.9349 | 39.9349 | 2.8600e-003 | | 40.0063 |

California Conservation Corps Fortuna Residential Center Multipurpose Building - North Coast Unified APCD Air District, Summer

3.2 Site Preparation - 2021

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 | | | | | 0.0177 | 0.0000 | 0.0177 | 1.9100e-003 | 0.0000 | 1.9100e-003 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.6403 | 7.8204 | 4.0274 | 9.7300e-003 | | 0.2995 | 0.2995 | | 0.2755 | 0.2755 | 0.0000 | 942.5842 | 942.5842 | 0.3049 | | 950.2055 |
| Total | 0.6403 | 7.8204 | 4.0274 | 9.7300e-003 | 0.0177 | 0.2995 | 0.3172 | 1.9100e-003 | 0.2755 | 0.2774 | 0.0000 | 942.5842 | 942.5842 | 0.3049 | | 950.2055 |

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 | 0.0377 | 0.0322 | 0.2814 | 4.0000e-004 | 0.0411 | 4.2000e-004 | 0.0415 | 0.0109 | 3.8000e-004 | 0.0113 | | 39.9349 | 39.9349 | 2.8600e-003 | | 40.0063 |
| Total | 0.0377 | 0.0322 | 0.2814 | 4.0000e-004 | 0.0411 | 4.2000e-004 | 0.0415 | 0.0109 | 3.8000e-004 | 0.0113 | | 39.9349 | 39.9349 | 2.8600e-003 | | 40.0063 |

California Conservation Corps Fortuna Residential Center Multipurpose Building - North Coast Unified APCD Air District, Summer

3.3 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 | | | | | 0.7528 | 0.0000 | 0.7528 | 0.4138 | 0.0000 | 0.4138 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.7965 | 7.2530 | 7.5691 | 0.0120 | | 0.4073 | 0.4073 | | 0.3886 | 0.3886 | | 1,147.4338 | 1,147.4338 | 0.2138 | | 1,152.7797 |
| Total | 0.7965 | 7.2530 | 7.5691 | 0.0120 | 0.7528 | 0.4073 | 1.1601 | 0.4138 | 0.3886 | 0.8024 | | 1,147.4338 | 1,147.4338 | 0.2138 | | 1,152.7797 |

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 | 0.0755 | 0.0644 | 0.5627 | 8.1000e-004 | 0.0822 | 8.3000e-004 | 0.0830 | 0.0218 | 7.7000e-004 | 0.0226 | | 79.8698 | 79.8698 | 5.7100e-003 | | 80.0126 |
| Total | 0.0755 | 0.0644 | 0.5627 | 8.1000e-004 | 0.0822 | 8.3000e-004 | 0.0830 | 0.0218 | 7.7000e-004 | 0.0226 | | 79.8698 | 79.8698 | 5.7100e-003 | | 80.0126 |

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3.3 Grading - 2021

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 | | | | | 0.7528 | 0.0000 | 0.7528 | 0.4138 | 0.0000 | 0.4138 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.7965 | 7.2530 | 7.5691 | 0.0120 | | 0.4073 | 0.4073 | | 0.3886 | 0.3886 | 0.0000 | 1,147.4338 | 1,147.4338 | 0.2138 | | 1,152.7797 |
| Total | 0.7965 | 7.2530 | 7.5691 | 0.0120 | 0.7528 | 0.4073 | 1.1601 | 0.4138 | 0.3886 | 0.8024 | 0.0000 | 1,147.4338 | 1,147.4338 | 0.2138 | | 1,152.7797 |

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 | 0.0755 | 0.0644 | 0.5627 | 8.1000e-004 | 0.0822 | 8.3000e-004 | 0.0830 | 0.0218 | 7.7000e-004 | 0.0226 | | 79.8698 | 79.8698 | 5.7100e-003 | | 80.0126 |
| Total | 0.0755 | 0.0644 | 0.5627 | 8.1000e-004 | 0.0822 | 8.3000e-004 | 0.0830 | 0.0218 | 7.7000e-004 | 0.0226 | | 79.8698 | 79.8698 | 5.7100e-003 | | 80.0126 |

California Conservation Corps Fortuna Residential Center Multipurpose Building - North Coast Unified APCD Air District, Summer

3.4 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 | 0.7750 | 7.9850 | 7.2637 | 0.0114 | | 0.4475 | 0.4475 | | 0.4117 | 0.4117 | | 1,103.2158 | 1,103.2158 | 0.3568 | | 1,112.1358 |
| Total | 0.7750 | 7.9850 | 7.2637 | 0.0114 | | 0.4475 | 0.4475 | | 0.4117 | 0.4117 | | 1,103.2158 | 1,103.2158 | 0.3568 | | 1,112.1358 |

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 | 0.0241 | 0.6069 | 0.1617 | 1.4100e-003 | 0.0338 | 2.5800e-003 | 0.0364 | 9.7300e-003 | 2.4700e-003 | 0.0122 | | 147.6232 | 147.6232 | 6.3800e-003 | | 147.7828 |
| Worker | 0.0830 | 0.0709 | 0.6190 | 8.9000e-004 | 0.0904 | 9.1000e-004 | 0.0913 | 0.0240 | 8.4000e-004 | 0.0248 | | 87.8568 | 87.8568 | 6.2800e-003 | | 88.0139 |
| Total | 0.1071 | 0.6778 | 0.7808 | 2.3000e-003 | 0.1242 | 3.4900e-003 | 0.1277 | 0.0337 | 3.3100e-003 | 0.0370 | | 235.4801 | 235.4801 | 0.0127 | | 235.7967 |

California Conservation Corps Fortuna Residential Center Multipurpose Building - North Coast Unified APCD Air District, Summer

3.4 Building Construction - 2021

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 | 0.7750 | 7.9850 | 7.2637 | 0.0114 | | 0.4475 | 0.4475 | | 0.4117 | 0.4117 | 0.0000 | 1,103.2158 | 1,103.2158 | 0.3568 | | 1,112.1358 |
| Total | 0.7750 | 7.9850 | 7.2637 | 0.0114 | | 0.4475 | 0.4475 | | 0.4117 | 0.4117 | 0.0000 | 1,103.2158 | 1,103.2158 | 0.3568 | | 1,112.1358 |

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 | 0.0241 | 0.6069 | 0.1617 | 1.4100e-003 | 0.0338 | 2.5800e-003 | 0.0364 | 9.7300e-003 | 2.4700e-003 | 0.0122 | | 147.6232 | 147.6232 | 6.3800e-003 | | 147.7828 |
| Worker | 0.0830 | 0.0709 | 0.6190 | 8.9000e-004 | 0.0904 | 9.1000e-004 | 0.0913 | 0.0240 | 8.4000e-004 | 0.0248 | | 87.8568 | 87.8568 | 6.2800e-003 | | 88.0139 |
| Total | 0.1071 | 0.6778 | 0.7808 | 2.3000e-003 | 0.1242 | 3.4900e-003 | 0.1277 | 0.0337 | 3.3100e-003 | 0.0370 | | 235.4801 | 235.4801 | 0.0127 | | 235.7967 |

California Conservation Corps Fortuna Residential Center Multipurpose Building - North Coast Unified APCD Air District, Summer

3.4 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 | 0.6863 | 7.0258 | 7.1527 | 0.0114 | | 0.3719 | 0.3719 | | 0.3422 | 0.3422 | | 1,103.9393 | 1,103.9393 | 0.3570 | | 1,112.8652 |
| Total | 0.6863 | 7.0258 | 7.1527 | 0.0114 | | 0.3719 | 0.3719 | | 0.3422 | 0.3422 | | 1,103.9393 | 1,103.9393 | 0.3570 | | 1,112.8652 |

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 | 0.0223 | 0.5756 | 0.1471 | 1.4000e-003 | 0.0338 | 2.3000e-003 | 0.0361 | 9.7300e-003 | 2.2000e-003 | 0.0119 | | 146.5833 | 146.5833 | 6.1200e-003 | | 146.7364 |
| Worker | 0.0788 | 0.0643 | 0.5585 | 8.6000e-004 | 0.0904 | 8.6000e-004 | 0.0912 | 0.0240 | 8.0000e-004 | 0.0248 | | 85.2307 | 85.2307 | 5.6500e-003 | | 85.3720 |
| Total | 0.1011 | 0.6399 | 0.7056 | 2.2600e-003 | 0.1242 | 3.1600e-003 | 0.1273 | 0.0337 | 3.0000e-003 | 0.0367 | | 231.8141 | 231.8141 | 0.0118 | | 232.1084 |

California Conservation Corps Fortuna Residential Center Multipurpose Building - North Coast Unified APCD Air District, Summer

3.4 Building Construction - 2022

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 | 0.6863 | 7.0258 | 7.1527 | 0.0114 | | 0.3719 | 0.3719 | | 0.3422 | 0.3422 | 0.0000 | 1,103.9393 | 1,103.9393 | 0.3570 | | 1,112.8652 |
| Total | 0.6863 | 7.0258 | 7.1527 | 0.0114 | | 0.3719 | 0.3719 | | 0.3422 | 0.3422 | 0.0000 | 1,103.9393 | 1,103.9393 | 0.3570 | | 1,112.8652 |

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 | 0.0223 | 0.5756 | 0.1471 | 1.4000e-003 | 0.0338 | 2.3000e-003 | 0.0361 | 9.7300e-003 | 2.2000e-003 | 0.0119 | | 146.5833 | 146.5833 | 6.1200e-003 | | 146.7364 |
| Worker | 0.0788 | 0.0643 | 0.5585 | 8.6000e-004 | 0.0904 | 8.6000e-004 | 0.0912 | 0.0240 | 8.0000e-004 | 0.0248 | | 85.2307 | 85.2307 | 5.6500e-003 | | 85.3720 |
| Total | 0.1011 | 0.6399 | 0.7056 | 2.2600e-003 | 0.1242 | 3.1600e-003 | 0.1273 | 0.0337 | 3.0000e-003 | 0.0367 | | 231.8141 | 231.8141 | 0.0118 | | 232.1084 |

California Conservation Corps Fortuna Residential Center Multipurpose Building - North Coast Unified APCD Air District, Summer

3.5 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 | 0.6469 | 5.9174 | 7.0348 | 0.0113 | | 0.2961 | 0.2961 | | 0.2758 | 0.2758 | | 1,035.8246 | 1,035.8246 | 0.3017 | | 1,043.3677 |
| Paving | 0.0376 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 0.6845 | 5.9174 | 7.0348 | 0.0113 | | 0.2961 | 0.2961 | | 0.2758 | 0.2758 | | 1,035.8246 | 1,035.8246 | 0.3017 | | 1,043.3677 |

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 | 0.1290 | 0.1053 | 0.9139 | 1.4100e-003 | 0.1479 | 1.4100e-003 | 0.1493 | 0.0392 | 1.3000e-003 | 0.0405 | | 139.4685 | 139.4685 | 9.2400e-003 | | 139.6996 |
| Total | 0.1290 | 0.1053 | 0.9139 | 1.4100e-003 | 0.1479 | 1.4100e-003 | 0.1493 | 0.0392 | 1.3000e-003 | 0.0405 | | 139.4685 | 139.4685 | 9.2400e-003 | | 139.6996 |

California Conservation Corps Fortuna Residential Center Multipurpose Building - North Coast Unified APCD Air District, Summer

3.5 Paving - 2022

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 | 0.6469 | 5.9174 | 7.0348 | 0.0113 | | 0.2961 | 0.2961 | | 0.2758 | 0.2758 | 0.0000 | 1,035.8246 | 1,035.8246 | 0.3017 | | 1,043.3677 |
| Paving | 0.0376 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 0.6845 | 5.9174 | 7.0348 | 0.0113 | | 0.2961 | 0.2961 | | 0.2758 | 0.2758 | 0.0000 | 1,035.8246 | 1,035.8246 | 0.3017 | | 1,043.3677 |

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 | 0.1290 | 0.1053 | 0.9139 | 1.4100e-003 | 0.1479 | 1.4100e-003 | 0.1493 | 0.0392 | 1.3000e-003 | 0.0405 | | 139.4685 | 139.4685 | 9.2400e-003 | | 139.6996 |
| Total | 0.1290 | 0.1053 | 0.9139 | 1.4100e-003 | 0.1479 | 1.4100e-003 | 0.1493 | 0.0392 | 1.3000e-003 | 0.0405 | | 139.4685 | 139.4685 | 9.2400e-003 | | 139.6996 |

California Conservation Corps Fortuna Residential Center Multipurpose Building - North Coast Unified APCD Air District, Summer

3.6 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 | 8.5880 | | | | | 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 | 8.7925 | 1.4085 | 1.8136 | 2.9700e-003 | | 0.0817 | 0.0817 | | 0.0817 | 0.0817 | | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |

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 | 0.0143 | 0.0117 | 0.1016 | 1.6000e-004 | 0.0164 | 1.6000e-004 | 0.0166 | 4.3600e-003 | 1.4000e-004 | 4.5000e-003 | | 15.4965 | 15.4965 | 1.0300e-003 | | 15.5222 |
| Total | 0.0143 | 0.0117 | 0.1016 | 1.6000e-004 | 0.0164 | 1.6000e-004 | 0.0166 | 4.3600e-003 | 1.4000e-004 | 4.5000e-003 | | 15.4965 | 15.4965 | 1.0300e-003 | | 15.5222 |

California Conservation Corps Fortuna Residential Center Multipurpose Building - North Coast Unified APCD Air District, Summer

3.6 Architectural Coating - 2022

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 | 8.5880 | | | | | 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 | 0.0000 | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |
| Total | 8.7925 | 1.4085 | 1.8136 | 2.9700e-003 | | 0.0817 | 0.0817 | | 0.0817 | 0.0817 | 0.0000 | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |

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 | 0.0143 | 0.0117 | 0.1016 | 1.6000e-004 | 0.0164 | 1.6000e-004 | 0.0166 | 4.3600e-003 | 1.4000e-004 | 4.5000e-003 | | 15.4965 | 15.4965 | 1.0300e-003 | | 15.5222 |
| Total | 0.0143 | 0.0117 | 0.1016 | 1.6000e-004 | 0.0164 | 1.6000e-004 | 0.0166 | 4.3600e-003 | 1.4000e-004 | 4.5000e-003 | | 15.4965 | 15.4965 | 1.0300e-003 | | 15.5222 |

4.0 Operational Detail - Mobile

California Conservation Corps Fortuna Residential Center Multipurpose Building - North Coast Unified APCD Air District, Summer

4.1 Mitigation Measures Mobile

Increase Transit Accessibility

Improve Pedestrian Network

| | 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 | 0.0000 | 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 |
| Unmitigated | 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 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|----------------------------|-------------------------|----------|--------|-------------|------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Government Office Building | 0.00 | 0.00 | 0.00 | | |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Total | 0.00 | 0.00 | 0.00 | | |

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 |
| Government Office Building | 9.50 | 7.30 | 7.30 | 33.00 | 62.00 | 5.00 | 50 | 34 | 16 |
| Parking Lot | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

California Conservation Corps Fortuna Residential Center Multipurpose Building - North Coast Unified APCD Air District, Summer

4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|----------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Government Office Building | 0.492202 | 0.044480 | 0.207604 | 0.135310 | 0.040374 | 0.006490 | 0.012772 | 0.047881 | 0.003361 | 0.001607 | 0.005537 | 0.001401 | 0.000981 |
| Parking Lot | 0.492202 | 0.044480 | 0.207604 | 0.135310 | 0.040374 | 0.006490 | 0.012772 | 0.047881 | 0.003361 | 0.001607 | 0.005537 | 0.001401 | 0.000981 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

| Category | 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 |
|------------------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|--------|
| NaturalGas Mitigated | 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 |
| NaturalGas Unmitigated | 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 |

California Conservation Corps Fortuna Residential Center Multipurpose Building - North Coast Unified APCD 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 | | | | | |
| Government Office Building | 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 |
| 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 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

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 | | | | | |
| Government Office Building | 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 |
| 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 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

6.0 Area Detail

6.1 Mitigation Measures Area

California Conservation Corps Fortuna Residential Center Multipurpose Building - North Coast Unified APCD Air District, Summer

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

| | 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 | 0.2830 | 5.0000e-005 | 5.9100e-003 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | | 0.0127 | 0.0127 | 3.0000e-005 | | 0.0135 |
| Unmitigated | 0.2830 | 5.0000e-005 | 5.9100e-003 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | | 0.0127 | 0.0127 | 3.0000e-005 | | 0.0135 |

California Conservation Corps Fortuna Residential Center Multipurpose Building - North Coast Unified APCD Air District, 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 | 0.0659 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 0.2165 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 5.5000e-004 | 5.0000e-005 | 5.9100e-003 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | | 0.0127 | 0.0127 | 3.0000e-005 | | 0.0135 |
| Total | 0.2830 | 5.0000e-005 | 5.9100e-003 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | | 0.0127 | 0.0127 | 3.0000e-005 | | 0.0135 |

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 | 0.0659 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 0.2165 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 5.5000e-004 | 5.0000e-005 | 5.9100e-003 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | | 0.0127 | 0.0127 | 3.0000e-005 | | 0.0135 |
| Total | 0.2830 | 5.0000e-005 | 5.9100e-003 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | | 0.0127 | 0.0127 | 3.0000e-005 | | 0.0135 |

7.0 Water Detail

California Conservation Corps Fortuna Residential Center Multipurpose Building - North Coast Unified APCD Air District, Summer

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

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

California Conservation Corps Fortuna Residential Center Multipurpose Building - North Coast Unified APCD Air District, Summer

California Conservation Corps Fortuna Residential Center Multipurpose Building - North Coast Unified APCD Air District, Winter

**California Conservation Corps Fortuna Residential Center Multipurpose Building
North Coast Unified APCD Air District, Winter**

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|----------------------------|-------|----------|-------------|--------------------|------------|
| Government Office Building | 9.80 | 1000sqft | 0.22 | 9,800.00 | 0 |
| Parking Lot | 48.00 | Space | 0.43 | 19,200.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|--------------------------------|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 101 |
| Climate Zone | 1 | | | 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

California Conservation Corps Fortuna Residential Center Multipurpose Building - North Coast Unified APCD Air District, Winter

Project Characteristics - The CO2 Intensity Factor is based on a 5-year average (PG&E, 2015)

Land Use -

Construction Phase - Construction is expected to start 5/17/2021 and finish 8/3/2022

Vehicle Trips - The project is not expected to generate new vehicle trips

Energy Use - Project will be designed as a zero net energy facility

Water And Wastewater -

Mobile Land Use Mitigation -

Area Mitigation - Low-emitting indoor materials

Energy Mitigation - Efficiency 15% better than Title 24 requirements

Water Mitigation - High-efficiency irrigation for outdoor water use reduction and low-water use fixtures for indoor water use reduction

Waste Mitigation - Assuming California's goal of 75 percent recycling, composting, or source reduction of solid waste by 2020

California Conservation Corps Fortuna Residential Center Multipurpose Building - North Coast Unified APCD Air District, Winter

| Table Name | Column Name | Default Value | New Value |
|---------------------------|----------------------------|---------------|-----------|
| tblAreaMitigation | UseLowVOCPaintParkingCheck | False | True |
| tblConstructionPhase | NumDays | 5.00 | 28.00 |
| tblConstructionPhase | NumDays | 100.00 | 200.00 |
| tblConstructionPhase | NumDays | 2.00 | 30.00 |
| tblConstructionPhase | NumDays | 5.00 | 30.00 |
| tblConstructionPhase | NumDays | 1.00 | 30.00 |
| tblConstructionPhase | PhaseEndDate | 10/20/2021 | 8/3/2022 |
| tblConstructionPhase | PhaseEndDate | 10/6/2021 | 5/13/2022 |
| tblConstructionPhase | PhaseEndDate | 5/19/2021 | 8/6/2021 |
| tblConstructionPhase | PhaseEndDate | 10/13/2021 | 6/24/2022 |
| tblConstructionPhase | PhaseEndDate | 5/17/2021 | 6/25/2021 |
| tblConstructionPhase | PhaseStartDate | 10/14/2021 | 6/27/2022 |
| tblConstructionPhase | PhaseStartDate | 5/20/2021 | 8/9/2021 |
| tblConstructionPhase | PhaseStartDate | 5/18/2021 | 6/28/2021 |
| tblConstructionPhase | PhaseStartDate | 10/7/2021 | 5/16/2022 |
| tblEnergyUse | LightingElect | 3.45 | 0.00 |
| tblEnergyUse | NT24E | 3.98 | 0.00 |
| tblEnergyUse | T24E | 3.63 | 0.00 |
| tblEnergyUse | T24NG | 19.54 | 0.00 |
| tblGrading | AcresOfGrading | 15.00 | 0.50 |
| tblProjectCharacteristics | CO2IntensityFactor | 641.35 | 328.8 |
| tblVehicleTrips | WD_TR | 68.93 | 0.00 |

2.0 Emissions Summary

California Conservation Corps Fortuna Residential Center Multipurpose Building - North Coast Unified APCD 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 | 0.2830 | 5.0000e-005 | 5.9100e-003 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | | 0.0127 | 0.0127 | 3.0000e-005 | | 0.0135 |
| Energy | 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 |
| Mobile | 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 | 0.2830 | 5.0000e-005 | 5.9100e-003 | 0.0000 | 0.0000 | 2.0000e-005 | 2.0000e-005 | 0.0000 | 2.0000e-005 | 2.0000e-005 | | 0.0127 | 0.0127 | 3.0000e-005 | 0.0000 | 0.0135 |

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 | 0.2830 | 5.0000e-005 | 5.9100e-003 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | | 0.0127 | 0.0127 | 3.0000e-005 | | 0.0135 |
| Energy | 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 |
| Mobile | 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 | 0.2830 | 5.0000e-005 | 5.9100e-003 | 0.0000 | 0.0000 | 2.0000e-005 | 2.0000e-005 | 0.0000 | 2.0000e-005 | 2.0000e-005 | | 0.0127 | 0.0127 | 3.0000e-005 | 0.0000 | 0.0135 |

California Conservation Corps Fortuna Residential Center Multipurpose Building - North Coast Unified APCD 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 |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1 | Site Preparation | Site Preparation | 5/17/2021 | 6/25/2021 | 5 | 30 | |
| 2 | Grading | Grading | 6/28/2021 | 8/6/2021 | 5 | 30 | |
| 3 | Building Construction | Building Construction | 8/9/2021 | 5/13/2022 | 5 | 200 | |
| 4 | Paving | Paving | 5/16/2022 | 6/24/2022 | 5 | 30 | |
| 5 | Architectural Coating | Architectural Coating | 6/27/2022 | 8/3/2022 | 5 | 28 | |

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.43

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 14,700; Non-Residential Outdoor: 4,900; Striped Parking Area: 1,152 (Architectural Coating – sqft)

OffRoad Equipment

California Conservation Corps Fortuna Residential Center Multipurpose Building - North Coast Unified APCD Air District, Winter

| 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 | 4 | 6.00 | 9 | 0.56 |
| Grading | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Building Construction | Cranes | 1 | 4.00 | 231 | 0.29 |
| Building Construction | Forklifts | 2 | 6.00 | 89 | 0.20 |
| Site Preparation | Graders | 1 | 8.00 | 187 | 0.41 |
| Paving | Pavers | 1 | 7.00 | 130 | 0.42 |
| Paving | Rollers | 1 | 7.00 | 80 | 0.38 |
| Grading | Rubber Tired Dozers | 1 | 1.00 | 247 | 0.40 |
| Building Construction | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Grading | Tractors/Loaders/Backhoes | 2 | 6.00 | 97 | 0.37 |
| Paving | Tractors/Loaders/Backhoes | 1 | 7.00 | 97 | 0.37 |
| Site Preparation | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |

Trips and VMT

| 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 |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Site Preparation | 2 | 5.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 4 | 10.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 5 | 11.00 | 5.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 7 | 18.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 2.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

California Conservation Corps Fortuna Residential Center Multipurpose Building - North Coast Unified APCD Air District, Winter

3.2 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 | | | | | 0.0177 | 0.0000 | 0.0177 | 1.9100e-003 | 0.0000 | 1.9100e-003 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.6403 | 7.8204 | 4.0274 | 9.7300e-003 | | 0.2995 | 0.2995 | | 0.2755 | 0.2755 | | 942.5842 | 942.5842 | 0.3049 | | 950.2055 |
| Total | 0.6403 | 7.8204 | 4.0274 | 9.7300e-003 | 0.0177 | 0.2995 | 0.3172 | 1.9100e-003 | 0.2755 | 0.2774 | | 942.5842 | 942.5842 | 0.3049 | | 950.2055 |

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 | 0.0453 | 0.0393 | 0.3037 | 4.0000e-004 | 0.0411 | 4.2000e-004 | 0.0415 | 0.0109 | 3.8000e-004 | 0.0113 | | 39.5276 | 39.5276 | 2.9200e-003 | | 39.6006 |
| Total | 0.0453 | 0.0393 | 0.3037 | 4.0000e-004 | 0.0411 | 4.2000e-004 | 0.0415 | 0.0109 | 3.8000e-004 | 0.0113 | | 39.5276 | 39.5276 | 2.9200e-003 | | 39.6006 |

California Conservation Corps Fortuna Residential Center Multipurpose Building - North Coast Unified APCD Air District, Winter

3.2 Site Preparation - 2021

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 | | | | | 0.0177 | 0.0000 | 0.0177 | 1.9100e-003 | 0.0000 | 1.9100e-003 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.6403 | 7.8204 | 4.0274 | 9.7300e-003 | | 0.2995 | 0.2995 | | 0.2755 | 0.2755 | 0.0000 | 942.5842 | 942.5842 | 0.3049 | | 950.2055 |
| Total | 0.6403 | 7.8204 | 4.0274 | 9.7300e-003 | 0.0177 | 0.2995 | 0.3172 | 1.9100e-003 | 0.2755 | 0.2774 | 0.0000 | 942.5842 | 942.5842 | 0.3049 | | 950.2055 |

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 | 0.0453 | 0.0393 | 0.3037 | 4.0000e-004 | 0.0411 | 4.2000e-004 | 0.0415 | 0.0109 | 3.8000e-004 | 0.0113 | | 39.5276 | 39.5276 | 2.9200e-003 | | 39.6006 |
| Total | 0.0453 | 0.0393 | 0.3037 | 4.0000e-004 | 0.0411 | 4.2000e-004 | 0.0415 | 0.0109 | 3.8000e-004 | 0.0113 | | 39.5276 | 39.5276 | 2.9200e-003 | | 39.6006 |

California Conservation Corps Fortuna Residential Center Multipurpose Building - North Coast Unified APCD Air District, Winter

3.3 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 | | | | | 0.7528 | 0.0000 | 0.7528 | 0.4138 | 0.0000 | 0.4138 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.7965 | 7.2530 | 7.5691 | 0.0120 | | 0.4073 | 0.4073 | | 0.3886 | 0.3886 | | 1,147.4338 | 1,147.4338 | 0.2138 | | 1,152.7797 |
| Total | 0.7965 | 7.2530 | 7.5691 | 0.0120 | 0.7528 | 0.4073 | 1.1601 | 0.4138 | 0.3886 | 0.8024 | | 1,147.4338 | 1,147.4338 | 0.2138 | | 1,152.7797 |

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 | 0.0906 | 0.0787 | 0.6074 | 8.0000e-004 | 0.0822 | 8.3000e-004 | 0.0830 | 0.0218 | 7.7000e-004 | 0.0226 | | 79.0552 | 79.0552 | 5.8400e-003 | | 79.2011 |
| Total | 0.0906 | 0.0787 | 0.6074 | 8.0000e-004 | 0.0822 | 8.3000e-004 | 0.0830 | 0.0218 | 7.7000e-004 | 0.0226 | | 79.0552 | 79.0552 | 5.8400e-003 | | 79.2011 |

California Conservation Corps Fortuna Residential Center Multipurpose Building - North Coast Unified APCD Air District, Winter

3.3 Grading - 2021

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 | | | | | 0.7528 | 0.0000 | 0.7528 | 0.4138 | 0.0000 | 0.4138 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.7965 | 7.2530 | 7.5691 | 0.0120 | | 0.4073 | 0.4073 | | 0.3886 | 0.3886 | 0.0000 | 1,147.4338 | 1,147.4338 | 0.2138 | | 1,152.7797 |
| Total | 0.7965 | 7.2530 | 7.5691 | 0.0120 | 0.7528 | 0.4073 | 1.1601 | 0.4138 | 0.3886 | 0.8024 | 0.0000 | 1,147.4338 | 1,147.4338 | 0.2138 | | 1,152.7797 |

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 | 0.0906 | 0.0787 | 0.6074 | 8.0000e-004 | 0.0822 | 8.3000e-004 | 0.0830 | 0.0218 | 7.7000e-004 | 0.0226 | | 79.0552 | 79.0552 | 5.8400e-003 | | 79.2011 |
| Total | 0.0906 | 0.0787 | 0.6074 | 8.0000e-004 | 0.0822 | 8.3000e-004 | 0.0830 | 0.0218 | 7.7000e-004 | 0.0226 | | 79.0552 | 79.0552 | 5.8400e-003 | | 79.2011 |

California Conservation Corps Fortuna Residential Center Multipurpose Building - North Coast Unified APCD Air District, Winter

3.4 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 | 0.7750 | 7.9850 | 7.2637 | 0.0114 | | 0.4475 | 0.4475 | | 0.4117 | 0.4117 | | 1,103.2158 | 1,103.2158 | 0.3568 | | 1,112.1358 |
| Total | 0.7750 | 7.9850 | 7.2637 | 0.0114 | | 0.4475 | 0.4475 | | 0.4117 | 0.4117 | | 1,103.2158 | 1,103.2158 | 0.3568 | | 1,112.1358 |

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 | 0.0259 | 0.6097 | 0.1872 | 1.3700e-003 | 0.0338 | 2.7000e-003 | 0.0365 | 9.7300e-003 | 2.5800e-003 | 0.0123 | | 143.4631 | 143.4631 | 7.0800e-003 | | 143.6401 |
| Worker | 0.0997 | 0.0865 | 0.6681 | 8.8000e-004 | 0.0904 | 9.1000e-004 | 0.0913 | 0.0240 | 8.4000e-004 | 0.0248 | | 86.9607 | 86.9607 | 6.4200e-003 | | 87.1212 |
| Total | 0.1256 | 0.6962 | 0.8553 | 2.2500e-003 | 0.1242 | 3.6100e-003 | 0.1278 | 0.0337 | 3.4200e-003 | 0.0371 | | 230.4238 | 230.4238 | 0.0135 | | 230.7613 |

California Conservation Corps Fortuna Residential Center Multipurpose Building - North Coast Unified APCD Air District, Winter

3.4 Building Construction - 2021

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 | 0.7750 | 7.9850 | 7.2637 | 0.0114 | | 0.4475 | 0.4475 | | 0.4117 | 0.4117 | 0.0000 | 1,103.2158 | 1,103.2158 | 0.3568 | | 1,112.1358 |
| Total | 0.7750 | 7.9850 | 7.2637 | 0.0114 | | 0.4475 | 0.4475 | | 0.4117 | 0.4117 | 0.0000 | 1,103.2158 | 1,103.2158 | 0.3568 | | 1,112.1358 |

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 | 0.0259 | 0.6097 | 0.1872 | 1.3700e-003 | 0.0338 | 2.7000e-003 | 0.0365 | 9.7300e-003 | 2.5800e-003 | 0.0123 | | 143.4631 | 143.4631 | 7.0800e-003 | | 143.6401 |
| Worker | 0.0997 | 0.0865 | 0.6681 | 8.8000e-004 | 0.0904 | 9.1000e-004 | 0.0913 | 0.0240 | 8.4000e-004 | 0.0248 | | 86.9607 | 86.9607 | 6.4200e-003 | | 87.1212 |
| Total | 0.1256 | 0.6962 | 0.8553 | 2.2500e-003 | 0.1242 | 3.6100e-003 | 0.1278 | 0.0337 | 3.4200e-003 | 0.0371 | | 230.4238 | 230.4238 | 0.0135 | | 230.7613 |

California Conservation Corps Fortuna Residential Center Multipurpose Building - North Coast Unified APCD Air District, Winter

3.4 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 | 0.6863 | 7.0258 | 7.1527 | 0.0114 | | 0.3719 | 0.3719 | | 0.3422 | 0.3422 | | 1,103.9393 | 1,103.9393 | 0.3570 | | 1,112.8652 |
| Total | 0.6863 | 7.0258 | 7.1527 | 0.0114 | | 0.3719 | 0.3719 | | 0.3422 | 0.3422 | | 1,103.9393 | 1,103.9393 | 0.3570 | | 1,112.8652 |

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 | 0.0240 | 0.5776 | 0.1704 | 1.3600e-003 | 0.0338 | 2.4100e-003 | 0.0362 | 9.7300e-003 | 2.3000e-003 | 0.0120 | | 142.4038 | 142.4038 | 6.8000e-003 | | 142.5739 |
| Worker | 0.0949 | 0.0785 | 0.6002 | 8.5000e-004 | 0.0904 | 8.6000e-004 | 0.0912 | 0.0240 | 8.0000e-004 | 0.0248 | | 84.3588 | 84.3588 | 5.7400e-003 | | 84.5024 |
| Total | 0.1189 | 0.6562 | 0.7706 | 2.2100e-003 | 0.1242 | 3.2700e-003 | 0.1274 | 0.0337 | 3.1000e-003 | 0.0368 | | 226.7627 | 226.7627 | 0.0125 | | 227.0763 |

California Conservation Corps Fortuna Residential Center Multipurpose Building - North Coast Unified APCD Air District, Winter

3.4 Building Construction - 2022

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 | 0.6863 | 7.0258 | 7.1527 | 0.0114 | | 0.3719 | 0.3719 | | 0.3422 | 0.3422 | 0.0000 | 1,103.9393 | 1,103.9393 | 0.3570 | | 1,112.8652 |
| Total | 0.6863 | 7.0258 | 7.1527 | 0.0114 | | 0.3719 | 0.3719 | | 0.3422 | 0.3422 | 0.0000 | 1,103.9393 | 1,103.9393 | 0.3570 | | 1,112.8652 |

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 | 0.0240 | 0.5776 | 0.1704 | 1.3600e-003 | 0.0338 | 2.4100e-003 | 0.0362 | 9.7300e-003 | 2.3000e-003 | 0.0120 | | 142.4038 | 142.4038 | 6.8000e-003 | | 142.5739 |
| Worker | 0.0949 | 0.0785 | 0.6002 | 8.5000e-004 | 0.0904 | 8.6000e-004 | 0.0912 | 0.0240 | 8.0000e-004 | 0.0248 | | 84.3588 | 84.3588 | 5.7400e-003 | | 84.5024 |
| Total | 0.1189 | 0.6562 | 0.7706 | 2.2100e-003 | 0.1242 | 3.2700e-003 | 0.1274 | 0.0337 | 3.1000e-003 | 0.0368 | | 226.7627 | 226.7627 | 0.0125 | | 227.0763 |

California Conservation Corps Fortuna Residential Center Multipurpose Building - North Coast Unified APCD Air District, Winter

3.5 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 | 0.6469 | 5.9174 | 7.0348 | 0.0113 | | 0.2961 | 0.2961 | | 0.2758 | 0.2758 | | 1,035.8246 | 1,035.8246 | 0.3017 | | 1,043.3677 |
| Paving | 0.0376 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 0.6845 | 5.9174 | 7.0348 | 0.0113 | | 0.2961 | 0.2961 | | 0.2758 | 0.2758 | | 1,035.8246 | 1,035.8246 | 0.3017 | | 1,043.3677 |

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 | 0.1553 | 0.1285 | 0.9822 | 1.3900e-003 | 0.1479 | 1.4100e-003 | 0.1493 | 0.0392 | 1.3000e-003 | 0.0405 | | 138.0417 | 138.0417 | 9.3900e-003 | | 138.2766 |
| Total | 0.1553 | 0.1285 | 0.9822 | 1.3900e-003 | 0.1479 | 1.4100e-003 | 0.1493 | 0.0392 | 1.3000e-003 | 0.0405 | | 138.0417 | 138.0417 | 9.3900e-003 | | 138.2766 |

California Conservation Corps Fortuna Residential Center Multipurpose Building - North Coast Unified APCD Air District, Winter

3.5 Paving - 2022

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 | 0.6469 | 5.9174 | 7.0348 | 0.0113 | | 0.2961 | 0.2961 | | 0.2758 | 0.2758 | 0.0000 | 1,035.8246 | 1,035.8246 | 0.3017 | | 1,043.3677 |
| Paving | 0.0376 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 0.6845 | 5.9174 | 7.0348 | 0.0113 | | 0.2961 | 0.2961 | | 0.2758 | 0.2758 | 0.0000 | 1,035.8246 | 1,035.8246 | 0.3017 | | 1,043.3677 |

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 | 0.1553 | 0.1285 | 0.9822 | 1.3900e-003 | 0.1479 | 1.4100e-003 | 0.1493 | 0.0392 | 1.3000e-003 | 0.0405 | | 138.0417 | 138.0417 | 9.3900e-003 | | 138.2766 |
| Total | 0.1553 | 0.1285 | 0.9822 | 1.3900e-003 | 0.1479 | 1.4100e-003 | 0.1493 | 0.0392 | 1.3000e-003 | 0.0405 | | 138.0417 | 138.0417 | 9.3900e-003 | | 138.2766 |

California Conservation Corps Fortuna Residential Center Multipurpose Building - North Coast Unified APCD Air District, Winter

3.6 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 | 8.5880 | | | | | 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 | 8.7925 | 1.4085 | 1.8136 | 2.9700e-003 | | 0.0817 | 0.0817 | | 0.0817 | 0.0817 | | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |

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 | 0.0173 | 0.0143 | 0.1091 | 1.5000e-004 | 0.0164 | 1.6000e-004 | 0.0166 | 4.3600e-003 | 1.4000e-004 | 4.5000e-003 | | 15.3380 | 15.3380 | 1.0400e-003 | | 15.3641 |
| Total | 0.0173 | 0.0143 | 0.1091 | 1.5000e-004 | 0.0164 | 1.6000e-004 | 0.0166 | 4.3600e-003 | 1.4000e-004 | 4.5000e-003 | | 15.3380 | 15.3380 | 1.0400e-003 | | 15.3641 |

California Conservation Corps Fortuna Residential Center Multipurpose Building - North Coast Unified APCD Air District, Winter

3.6 Architectural Coating - 2022

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 | 8.5880 | | | | | 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 | 0.0000 | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |
| Total | 8.7925 | 1.4085 | 1.8136 | 2.9700e-003 | | 0.0817 | 0.0817 | | 0.0817 | 0.0817 | 0.0000 | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |

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 | 0.0173 | 0.0143 | 0.1091 | 1.5000e-004 | 0.0164 | 1.6000e-004 | 0.0166 | 4.3600e-003 | 1.4000e-004 | 4.5000e-003 | | 15.3380 | 15.3380 | 1.0400e-003 | | 15.3641 |
| Total | 0.0173 | 0.0143 | 0.1091 | 1.5000e-004 | 0.0164 | 1.6000e-004 | 0.0166 | 4.3600e-003 | 1.4000e-004 | 4.5000e-003 | | 15.3380 | 15.3380 | 1.0400e-003 | | 15.3641 |

4.0 Operational Detail - Mobile

California Conservation Corps Fortuna Residential Center Multipurpose Building - North Coast Unified APCD Air District, Winter

4.1 Mitigation Measures Mobile

Increase Transit Accessibility

Improve Pedestrian Network

| | 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 | 0.0000 | 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 |
| Unmitigated | 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 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|----------------------------|-------------------------|----------|--------|-------------|------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Government Office Building | 0.00 | 0.00 | 0.00 | | |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Total | 0.00 | 0.00 | 0.00 | | |

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 |
| Government Office Building | 9.50 | 7.30 | 7.30 | 33.00 | 62.00 | 5.00 | 50 | 34 | 16 |
| Parking Lot | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

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4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|----------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Government Office Building | 0.492202 | 0.044480 | 0.207604 | 0.135310 | 0.040374 | 0.006490 | 0.012772 | 0.047881 | 0.003361 | 0.001607 | 0.005537 | 0.001401 | 0.000981 |
| Parking Lot | 0.492202 | 0.044480 | 0.207604 | 0.135310 | 0.040374 | 0.006490 | 0.012772 | 0.047881 | 0.003361 | 0.001607 | 0.005537 | 0.001401 | 0.000981 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

| Category | 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 |
|------------------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|--------|
| NaturalGas Mitigated | 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 |
| NaturalGas Unmitigated | 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 |

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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 | | | | | |
| Government Office Building | 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 |
| 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 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

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 | | | | | |
| Government Office Building | 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 |
| 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 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

6.0 Area Detail

6.1 Mitigation Measures Area

California Conservation Corps Fortuna Residential Center Multipurpose Building - North Coast Unified APCD Air District, Winter

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

| | 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 | 0.2830 | 5.0000e-005 | 5.9100e-003 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | | 0.0127 | 0.0127 | 3.0000e-005 | | 0.0135 |
| Unmitigated | 0.2830 | 5.0000e-005 | 5.9100e-003 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | | 0.0127 | 0.0127 | 3.0000e-005 | | 0.0135 |

California Conservation Corps Fortuna Residential Center Multipurpose Building - North Coast Unified APCD Air District, Winter

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 | 0.0659 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 0.2165 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 5.5000e-004 | 5.0000e-005 | 5.9100e-003 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | | 0.0127 | 0.0127 | 3.0000e-005 | | 0.0135 |
| Total | 0.2830 | 5.0000e-005 | 5.9100e-003 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | | 0.0127 | 0.0127 | 3.0000e-005 | | 0.0135 |

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 | 0.0659 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 0.2165 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 5.5000e-004 | 5.0000e-005 | 5.9100e-003 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | | 0.0127 | 0.0127 | 3.0000e-005 | | 0.0135 |
| Total | 0.2830 | 5.0000e-005 | 5.9100e-003 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | | 0.0127 | 0.0127 | 3.0000e-005 | | 0.0135 |

7.0 Water Detail

California Conservation Corps Fortuna Residential Center Multipurpose Building - North Coast Unified APCD Air District, Winter

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

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

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