

Pentair Warehouse Expansion - Ventura County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Pentair Warehouse Expansion

Ventura County, Annual

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|----------------------------------|-------|----------|-------------|--------------------|------------|
| Unrefrigerated Warehouse-No Rail | 80.57 | 1000sqft | 2.46 | 80,566.00 | 0 |
| General Office Building | 4.00 | 1000sqft | 0.19 | 4,000.00 | 0 |
| Parking Lot | 3.00 | Acre | 3.00 | 130,680.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------|-------|------------------|-----|---------------------------|------|
| Urbanization | Urban | Wind Speed (m/s) | 2.6 | Precipitation Freq (Days) | 31 |
| Climate Zone | 8 | | | Operational Year | 2023 |

Utility Company Southern California Edison

| | | | | | |
|--------------------------|--------|--------------------------|-------|--------------------------|-------|
| CO2 Intensity (lb/MW/hr) | 390.98 | CH4 Intensity (lb/MW/hr) | 0.033 | N2O Intensity (lb/MW/hr) | 0.004 |
|--------------------------|--------|--------------------------|-------|--------------------------|-------|

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Total project site = 5.65 acres

Construction Phase -

Vehicle Trips - Daily Trip Rates set to match TIA

Operational Off-Road Equipment - 4 Electric Powered Forklifts 8 hours per day

Water Mitigation - Install Low-Flow fixtures and Use Water-Efficient Irrigation Systems per Title 24 Requirements

| Table Name | Column Name | Default Value | New Value |
|----------------------|--------------|---------------|------------|
| tblConstructionPhase | PhaseEndDate | 3/22/2024 | 12/29/2023 |
| tblConstructionPhase | PhaseEndDate | 1/26/2024 | 12/29/2023 |

Pentair Warehouse Expansion - Ventura County, Annual

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| | | | |
|--------------------------------|----------------------------|-----------|------------|
| tblConstructionPhase | PhaseEndDate | 3/10/2023 | 2/10/2023 |
| tblConstructionPhase | PhaseEndDate | 2/23/2024 | 12/29/2023 |
| tblConstructionPhase | PhaseEndDate | 2/10/2023 | 1/13/2023 |
| tblConstructionPhase | PhaseStartDate | 2/24/2024 | 12/2/2023 |
| tblConstructionPhase | PhaseStartDate | 3/11/2023 | 2/11/2023 |
| tblConstructionPhase | PhaseStartDate | 2/11/2023 | 1/14/2023 |
| tblConstructionPhase | PhaseStartDate | 1/27/2024 | 12/2/2023 |
| tblConstructionPhase | PhaseStartDate | 1/28/2023 | 1/1/2023 |
| tblLandUse | LotAcreage | 1.85 | 2.46 |
| tblLandUse | LotAcreage | 0.09 | 0.19 |
| tblOperationalOffRoadEquipment | OperFuelType | Diesel | Electrical |
| tblOperationalOffRoadEquipment | OperLoadFactor | 0.20 | 0.20 |
| tblOperationalOffRoadEquipment | OperOffRoadEquipmentNumber | 0.00 | 4.00 |
| tblVehicleTrips | ST_TR | 2.21 | 14.50 |
| tblVehicleTrips | ST_TR | 1.74 | 1.84 |
| tblVehicleTrips | SU_TR | 0.70 | 14.50 |
| tblVehicleTrips | SU_TR | 1.74 | 1.84 |
| tblVehicleTrips | WD_TR | 9.74 | 14.50 |
| tblVehicleTrips | WD_TR | 1.74 | 1.84 |

2.0 Emissions Summary

Pentair Warehouse Expansion - Ventura County, Annual

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| Quarter | Start Date | End Date | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|-----------|--|--|
| 1 | 1-1-2023 | 3-31-2023 | 0.6501 | 0.6501 |
| 2 | 4-1-2023 | 6-30-2023 | 0.5765 | 0.5765 |
| 3 | 7-1-2023 | 9-30-2023 | 0.5828 | 0.5828 |
| | | Highest | 0.6501 | 0.6501 |

**2.2 Overall Operational
Unmitigated Operational**

| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------------|-----------------|-----------------|---------------|---------------|-----------------|
| | 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 |
| Area | 0.3798 | 1.0000e-005 | 8.0000e-004 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 1.5600e-003 | 0.0000 | 0.0000 | 0.0000 | 1.6700e-003 |
| Energy | 1.8900e-003 | 0.0171 | 0.0144 | 1.0000e-004 | 1.3000e-003 | 1.3000e-003 | 1.3000e-003 | 1.3000e-003 | 1.3000e-003 | 1.3000e-003 | 0.0000 | 94.9180 | 6.7900e-003 | 1.1200e-003 | 1.1200e-003 | 95.4223 |
| Mobile | 0.1104 | 0.1350 | 1.0300 | 2.0400e-003 | 0.2152 | 1.6500e-003 | 0.2169 | 0.0575 | 1.5400e-003 | 0.0590 | 0.0000 | 190.3575 | 0.0133 | 9.1700e-003 | 9.1700e-003 | 193.4231 |
| Offroad | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | | | | | | | | | | | 16.1297 | 0.0000 | 16.1297 | 0.9532 | 0.0000 | 39.9606 |
| Water | | | | | | | | | | | 6.1366 | 45.5251 | 51.6617 | 0.6341 | 0.0154 | 72.0886 |
| Total | 0.4921 | 0.1521 | 1.0452 | 2.1400e-003 | 0.2152 | 2.9500e-003 | 0.2182 | 0.0575 | 2.8400e-003 | 0.0603 | 22.2662 | 330.8022 | 353.0684 | 1.6075 | 0.0256 | 400.8962 |

Pentair Warehouse Expansion - Ventura County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Mitigated Operational

| Category | tons/yr | | | | | | | | | | | MT/yr | | | | | |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------------|-----------------|-----------------|---------------|---------------|-----------------|-------------|
| | 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 | |
| Area | 0.3798 | 1.0000e-005 | 8.0000e-004 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 1.5600e-003 | 1.5600e-003 | 0.0000 | 0.0000 | 0.0000 | 1.6700e-003 |
| Energy | 1.8900e-003 | 0.0171 | 0.0144 | 1.0000e-004 | 1.3000e-003 | 1.3000e-003 | 1.3000e-003 | 1.3000e-003 | 1.3000e-003 | 1.3000e-003 | 0.0000 | 94.9180 | 94.9180 | 6.7900e-003 | 1.1200e-003 | 95.4223 | |
| Mobile | 0.1104 | 0.1350 | 1.0300 | 2.0400e-003 | 0.2152 | 1.6500e-003 | 0.2169 | 0.0575 | 1.5400e-003 | 0.0590 | 0.0000 | 190.3575 | 190.3575 | 0.0133 | 9.1700e-003 | 193.4231 | |
| Offroad | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | 0.0000 | 16.1297 | 0.0000 | 16.1297 | 0.9532 | 0.0000 | 39.9606 | |
| Water | | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 5.1793 | 38.5048 | 43.6840 | 0.5352 | 0.0130 | 60.9247 | |
| Total | 0.4921 | 0.1521 | 1.0452 | 2.1400e-003 | 0.2152 | 2.9500e-003 | 0.2182 | 0.0575 | 2.8400e-003 | 0.0603 | 21.3089 | 323.7818 | 345.0907 | 1.5085 | 0.0232 | 389.7323 | |

| Percent Reduction | 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 |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|------|------|------|
| | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.30 | 2.12 | 2.26 | 6.15 | 9.36 |

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 | 1/1/2023 | 1/13/2023 | 5 | 10 | |
| 2 | Grading | Grading | 1/14/2023 | 2/10/2023 | 5 | 20 | |

Pentair Warehouse Expansion - Ventura County, Annual

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| | | | | | |
|---|-----------------------|-----------|------------|---|-----|
| 3 | Building Construction | 2/11/2023 | 12/29/2023 | 5 | 230 |
| 4 | Paving | 12/2/2023 | 12/29/2023 | 5 | 20 |
| 5 | Architectural Coating | 12/2/2023 | 12/29/2023 | 5 | 20 |

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 20

Acres of Paving: 3

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 126,849; Non-Residential Outdoor: 42,283; Striped Parking Area: 7,841 (Architectural Coating – sqft)

OffRoad Equipment

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

Trips and VMT

Pentair Warehouse Expansion - Ventura County, Annual

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| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 6 | 15.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 90.00 | 35.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 18.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
|---------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| | 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 |
| Fugitive Dust | | | | | 0.0983 | 0.0000 | 0.0983 | 0.0505 | 0.0000 | 0.0505 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0133 | 0.1376 | 0.0912 | 1.9000e-004 | 6.3300e-003 | 6.3300e-003 | 6.3300e-003 | 5.8200e-003 | 5.8200e-003 | 5.8200e-003 | 0.0000 | 16.7254 | 16.7254 | 5.4100e-003 | 0.0000 | 16.8606 |
| Total | 0.0133 | 0.1376 | 0.0912 | 1.9000e-004 | 0.0983 | 6.3300e-003 | 0.1046 | 0.0505 | 5.8200e-003 | 0.0563 | 0.0000 | 16.7254 | 16.7254 | 5.4100e-003 | 0.0000 | 16.8606 |

Pentair Warehouse Expansion - Ventura County, Annual

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3.2 Site Preparation - 2023

Unmitigated Construction Off-Site

| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| | 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 |
| 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 | 2.6000e-004 | 1.8000e-004 | 2.2400e-003 | 1.0000e-005 | 7.3000e-004 | 0.0000 | 7.3000e-004 | 1.9000e-004 | 0.0000 | 2.0000e-004 | 0.0000 | 0.5643 | 0.5643 | 2.0000e-005 | 2.0000e-005 | 0.5697 |
| Total | 2.6000e-004 | 1.8000e-004 | 2.2400e-003 | 1.0000e-005 | 7.3000e-004 | 0.0000 | 7.3000e-004 | 1.9000e-004 | 0.0000 | 2.0000e-004 | 0.0000 | 0.5643 | 0.5643 | 2.0000e-005 | 2.0000e-005 | 0.5697 |

Mitigated Construction On-Site

| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
|---------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| | 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 |
| Fugitive Dust | | | | | 0.0983 | 0.0000 | 0.0983 | 0.0505 | 0.0000 | 0.0505 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0133 | 0.1376 | 0.0912 | 1.9000e-004 | 6.3300e-003 | 6.3300e-003 | 6.3300e-003 | 5.8200e-003 | 5.8200e-003 | 5.8200e-003 | 0.0000 | 16.7253 | 16.7253 | 5.4100e-003 | 0.0000 | 16.8606 |
| Total | 0.0133 | 0.1376 | 0.0912 | 1.9000e-004 | 0.0983 | 6.3300e-003 | 0.1046 | 0.0505 | 5.8200e-003 | 0.0563 | 0.0000 | 16.7253 | 16.7253 | 5.4100e-003 | 0.0000 | 16.8606 |

Pentair Warehouse Expansion - Ventura County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2023

Mitigated Construction Off-Site

| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| | 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 |
| 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 | 2.6000e-004 | 1.8000e-004 | 2.2400e-003 | 1.0000e-005 | 7.3000e-004 | 0.0000 | 7.3000e-004 | 1.9000e-004 | 0.0000 | 2.0000e-004 | 0.0000 | 0.5643 | 0.5643 | 2.0000e-005 | 2.0000e-005 | 0.5697 |
| Total | 2.6000e-004 | 1.8000e-004 | 2.2400e-003 | 1.0000e-005 | 7.3000e-004 | 0.0000 | 7.3000e-004 | 1.9000e-004 | 0.0000 | 2.0000e-004 | 0.0000 | 0.5643 | 0.5643 | 2.0000e-005 | 2.0000e-005 | 0.5697 |

3.3 Grading - 2023

Unmitigated Construction On-Site

| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
|---------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| | 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 |
| Fugitive Dust | | | | | 0.0708 | 0.0000 | 0.0708 | 0.0343 | 0.0000 | 0.0343 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0171 | 0.1794 | 0.1475 | 3.0000e-004 | 7.7500e-003 | 7.7500e-003 | 7.7500e-003 | 7.1300e-003 | 7.1300e-003 | 7.1300e-003 | 0.0000 | 26.0606 | 26.0606 | 8.4300e-003 | 0.0000 | 26.2713 |
| Total | 0.0171 | 0.1794 | 0.1475 | 3.0000e-004 | 0.0708 | 7.7500e-003 | 0.0786 | 0.0343 | 7.1300e-003 | 0.0414 | 0.0000 | 26.0606 | 26.0606 | 8.4300e-003 | 0.0000 | 26.2713 |

Pentair Warehouse Expansion - Ventura County, Annual

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3.3 Grading - 2023

Unmitigated Construction Off-Site

| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| | 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 |
| 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 | 4.3000e-004 | 3.0000e-004 | 3.7300e-003 | 1.0000e-005 | 1.2100e-003 | 1.0000e-005 | 1.2200e-003 | 3.2000e-004 | 1.0000e-005 | 3.3000e-004 | 0.0000 | 0.9406 | 0.9406 | 3.0000e-005 | 3.0000e-005 | 0.9495 |
| Total | 4.3000e-004 | 3.0000e-004 | 3.7300e-003 | 1.0000e-005 | 1.2100e-003 | 1.0000e-005 | 1.2200e-003 | 3.2000e-004 | 1.0000e-005 | 3.3000e-004 | 0.0000 | 0.9406 | 0.9406 | 3.0000e-005 | 3.0000e-005 | 0.9495 |

Mitigated Construction On-Site

| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
|---------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| | 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 |
| Fugitive Dust | | | | | 0.0708 | 0.0000 | 0.0708 | 0.0343 | 0.0000 | 0.0343 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0171 | 0.1794 | 0.1475 | 3.0000e-004 | 7.7500e-003 | 7.7500e-003 | 7.7500e-003 | 7.1300e-003 | 7.1300e-003 | 7.1300e-003 | 0.0000 | 26.0606 | 26.0606 | 8.4300e-003 | 0.0000 | 26.2713 |
| Total | 0.0171 | 0.1794 | 0.1475 | 3.0000e-004 | 0.0708 | 7.7500e-003 | 0.0786 | 0.0343 | 7.1300e-003 | 0.0414 | 0.0000 | 26.0606 | 26.0606 | 8.4300e-003 | 0.0000 | 26.2713 |

Pentair Warehouse Expansion - Ventura County, Annual

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3.3 Grading - 2023

Mitigated Construction Off-Site

| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| | 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 |
| 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 | 4.3000e-004 | 3.0000e-004 | 3.7300e-003 | 1.0000e-005 | 1.2100e-003 | 1.0000e-005 | 1.2200e-003 | 3.2000e-004 | 1.0000e-005 | 3.3000e-004 | 0.0000 | 0.9406 | 0.9406 | 3.0000e-005 | 3.0000e-005 | 0.9495 |
| Total | 4.3000e-004 | 3.0000e-004 | 3.7300e-003 | 1.0000e-005 | 1.2100e-003 | 1.0000e-005 | 1.2200e-003 | 3.2000e-004 | 1.0000e-005 | 3.3000e-004 | 0.0000 | 0.9406 | 0.9406 | 3.0000e-005 | 3.0000e-005 | 0.9495 |

3.4 Building Construction - 2023

Unmitigated Construction On-Site

| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| | 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 |
| Off-Road | 0.1809 | 1.6543 | 1.8681 | 3.1000e-003 | | 0.0805 | 0.0805 | | 0.0757 | 0.0757 | 0.0000 | 266.5755 | 266.5755 | 0.0634 | 0.0000 | 268.1608 |
| Total | 0.1809 | 1.6543 | 1.8681 | 3.1000e-003 | | 0.0805 | 0.0805 | | 0.0757 | 0.0757 | 0.0000 | 266.5755 | 266.5755 | 0.0634 | 0.0000 | 268.1608 |

Pentair Warehouse Expansion - Ventura County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2023

Unmitigated Construction Off-Site

| Category | tons/yr | | | | | | | | | | MT/yr | | | | | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|--------------------|---------------|-----------------|
| | 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 | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 3.9200e-003 | 0.1585 | 0.0549 | 7.5000e-004 | 0.0268 | 9.1000e-004 | 0.0277 | 7.7400e-003 | 8.7000e-004 | 8.6100e-003 | 0.0000 | 73.4211 | 73.4211 | 3.0100e-003 | 0.0110 | 76.7722 |
| Worker | 0.0296 | 0.0208 | 0.2576 | 7.0000e-004 | 0.0835 | 4.6000e-004 | 0.0839 | 0.0222 | 4.2000e-004 | 0.0226 | 0.0000 | 64.8980 | 64.8980 | 2.0800e-003 | 1.9100e-003 | 65.5178 |
| Total | 0.0335 | 0.1792 | 0.3125 | 1.4500e-003 | 0.1103 | 1.3700e-003 | 0.1116 | 0.0299 | 1.2900e-003 | 0.0312 | 0.0000 | 138.3192 | 138.3192 | 5.0900e-003 | 0.0129 | 142.2899 |

Mitigated Construction On-Site

| Category | tons/yr | | | | | | | | | | MT/yr | | | | | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| | 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 | |
| Off-Road | 0.1809 | 1.6543 | 1.8681 | 3.1000e-003 | | 0.0805 | 0.0805 | | 0.0757 | 0.0757 | 0.0000 | 266.5751 | 266.5751 | 0.0634 | 0.0000 | 268.1605 |
| Total | 0.1809 | 1.6543 | 1.8681 | 3.1000e-003 | | 0.0805 | 0.0805 | | 0.0757 | 0.0757 | 0.0000 | 266.5751 | 266.5751 | 0.0634 | 0.0000 | 268.1605 |

Pentair Warehouse Expansion - Ventura County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2023

Mitigated Construction Off-Site

| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|--------------------|---------------|-----------------|
| | 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 |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 3.9200e-003 | 0.1585 | 0.0549 | 7.5000e-004 | 0.0268 | 9.1000e-004 | 0.0277 | 7.7400e-003 | 8.7000e-004 | 8.6100e-003 | 0.0000 | 73.4211 | 73.4211 | 3.0100e-003 | 0.0110 | 76.7722 |
| Worker | 0.0296 | 0.0208 | 0.2576 | 7.0000e-004 | 0.0835 | 4.6000e-004 | 0.0839 | 0.0222 | 4.2000e-004 | 0.0226 | 0.0000 | 64.8980 | 64.8980 | 2.0800e-003 | 1.9100e-003 | 65.5178 |
| Total | 0.0335 | 0.1792 | 0.3125 | 1.4500e-003 | 0.1103 | 1.3700e-003 | 0.1116 | 0.0299 | 1.2900e-003 | 0.0312 | 0.0000 | 138.3192 | 138.3192 | 5.0900e-003 | 0.0129 | 142.2899 |

3.5 Paving - 2023

Unmitigated Construction On-Site

| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| | 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 |
| Off-Road | 0.0103 | 0.1019 | 0.1458 | 2.3000e-004 | | 5.1000e-003 | 5.1000e-003 | | 4.6900e-003 | 4.6900e-003 | 0.0000 | 20.0269 | 20.0269 | 6.4800e-003 | 0.0000 | 20.1888 |
| Paving | 3.9300e-003 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0143 | 0.1019 | 0.1458 | 2.3000e-004 | | 5.1000e-003 | 5.1000e-003 | | 4.6900e-003 | 4.6900e-003 | 0.0000 | 20.0269 | 20.0269 | 6.4800e-003 | 0.0000 | 20.1888 |

Pentair Warehouse Expansion - Ventura County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Paving - 2023

Unmitigated Construction Off-Site

| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| | 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 |
| 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 | 4.3000e-004 | 3.0000e-004 | 3.7300e-003 | 1.0000e-005 | 1.2100e-003 | 1.0000e-005 | 1.2200e-003 | 3.2000e-004 | 1.0000e-005 | 3.3000e-004 | 0.0000 | 0.9406 | 0.9406 | 3.0000e-005 | 3.0000e-005 | 0.9495 |
| Total | 4.3000e-004 | 3.0000e-004 | 3.7300e-003 | 1.0000e-005 | 1.2100e-003 | 1.0000e-005 | 1.2200e-003 | 3.2000e-004 | 1.0000e-005 | 3.3000e-004 | 0.0000 | 0.9406 | 0.9406 | 3.0000e-005 | 3.0000e-005 | 0.9495 |

Mitigated Construction On-Site

| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
|--------------|---------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| | 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 |
| Off-Road | 0.0103 | 0.1019 | 0.1458 | 2.3000e-004 | 5.1000e-003 | 5.1000e-003 | 5.1000e-003 | 4.6900e-003 | 4.6900e-003 | 4.6900e-003 | 0.0000 | 20.0268 | 20.0268 | 6.4800e-003 | 0.0000 | 20.1888 |
| Paving | 3.9300e-003 | | | | 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 | 0.0143 | 0.1019 | 0.1458 | 2.3000e-004 | 5.1000e-003 | 5.1000e-003 | 5.1000e-003 | 4.6900e-003 | 4.6900e-003 | 4.6900e-003 | 0.0000 | 20.0268 | 20.0268 | 6.4800e-003 | 0.0000 | 20.1888 |

Pentair Warehouse Expansion - Ventura County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Paving - 2023

Mitigated Construction Off-Site

| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| | 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 |
| 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 | 4.3000e-004 | 3.0000e-004 | 3.7300e-003 | 1.0000e-005 | 1.2100e-003 | 1.0000e-005 | 1.2200e-003 | 3.2000e-004 | 1.0000e-005 | 3.3000e-004 | 0.0000 | 0.9406 | 0.9406 | 3.0000e-005 | 3.0000e-005 | 0.9495 |
| Total | 4.3000e-004 | 3.0000e-004 | 3.7300e-003 | 1.0000e-005 | 1.2100e-003 | 1.0000e-005 | 1.2200e-003 | 3.2000e-004 | 1.0000e-005 | 3.3000e-004 | 0.0000 | 0.9406 | 0.9406 | 3.0000e-005 | 3.0000e-005 | 0.9495 |

3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
|-----------------|---------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| | 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 |
| Archit. Coating | 0.4101 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 1.9200e-003 | 0.0130 | 0.0181 | 3.0000e-005 | 7.1000e-004 | 7.1000e-004 | 7.1000e-004 | 7.1000e-004 | 7.1000e-004 | 7.1000e-004 | 0.0000 | 2.5533 | 2.5533 | 1.5000e-004 | 0.0000 | 2.5571 |
| Total | 0.4121 | 0.0130 | 0.0181 | 3.0000e-005 | 7.1000e-004 | 7.1000e-004 | 7.1000e-004 | 7.1000e-004 | 7.1000e-004 | 7.1000e-004 | 0.0000 | 2.5533 | 2.5533 | 1.5000e-004 | 0.0000 | 2.5571 |

Pentair Warehouse Expansion - Ventura County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2023
Unmitigated Construction Off-Site

| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| | 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 |
| 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 | 5.1000e-004 | 3.6000e-004 | 4.4800e-003 | 1.0000e-005 | 1.4500e-003 | 1.0000e-005 | 1.4600e-003 | 3.9000e-004 | 1.0000e-005 | 3.9000e-004 | 0.0000 | 1.1287 | 1.1287 | 4.0000e-005 | 3.0000e-005 | 1.1394 |
| Total | 5.1000e-004 | 3.6000e-004 | 4.4800e-003 | 1.0000e-005 | 1.4500e-003 | 1.0000e-005 | 1.4600e-003 | 3.9000e-004 | 1.0000e-005 | 3.9000e-004 | 0.0000 | 1.1287 | 1.1287 | 4.0000e-005 | 3.0000e-005 | 1.1394 |

Mitigated Construction On-Site

| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
|-----------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| | 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 |
| Archit. Coating | 0.4101 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 1.9200e-003 | 0.0130 | 0.0181 | 3.0000e-005 | | 7.1000e-004 | 7.1000e-004 | 7.1000e-004 | 7.1000e-004 | 7.1000e-004 | 0.0000 | 2.5533 | 2.5533 | 1.5000e-004 | 0.0000 | 2.5571 |
| Total | 0.4121 | 0.0130 | 0.0181 | 3.0000e-005 | | 7.1000e-004 | 7.1000e-004 | 7.1000e-004 | 7.1000e-004 | 7.1000e-004 | 0.0000 | 2.5533 | 2.5533 | 1.5000e-004 | 0.0000 | 2.5571 |

Pentair Warehouse Expansion - Ventura County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2023

Mitigated Construction Off-Site

| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| | 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 |
| 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 | 5.1000e-004 | 3.6000e-004 | 4.4800e-003 | 1.0000e-005 | 1.4500e-003 | 1.0000e-005 | 1.4600e-003 | 3.9000e-004 | 1.0000e-005 | 3.9000e-004 | 0.0000 | 1.1287 | 1.1287 | 4.0000e-005 | 3.0000e-005 | 1.1394 |
| Total | 5.1000e-004 | 3.6000e-004 | 4.4800e-003 | 1.0000e-005 | 1.4500e-003 | 1.0000e-005 | 1.4600e-003 | 3.9000e-004 | 1.0000e-005 | 3.9000e-004 | 0.0000 | 1.1287 | 1.1287 | 4.0000e-005 | 3.0000e-005 | 1.1394 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Pentair Warehouse Expansion - Ventura County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
|-------------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|-------------|----------|
| | 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 |
| Mitigated | 0.1104 | 0.1350 | 1.0300 | 2.0400e-003 | 0.2152 | 1.6500e-003 | 0.2169 | 0.0575 | 1.5400e-003 | 0.0590 | 0.0000 | 190.3575 | 190.3575 | 0.0133 | 9.1700e-003 | 193.4231 |
| Unmitigated | 0.1104 | 0.1350 | 1.0300 | 2.0400e-003 | 0.2152 | 1.6500e-003 | 0.2169 | 0.0575 | 1.5400e-003 | 0.0590 | 0.0000 | 190.3575 | 190.3575 | 0.0133 | 9.1700e-003 | 193.4231 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | | Mitigated | |
|----------------------------------|-------------------------|---------------|---------------|----------------|----------------|----------------|----------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT | Annual VMT | Annual VMT |
| General Office Building | 58.00 | 58.00 | 58.00 | 138,606 | 138,606 | 138,606 | 138,606 |
| Parking Lot | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Unrefrigerated Warehouse-No Rail | 148.24 | 148.24 | 148.24 | 432,793 | 432,793 | 432,793 | 432,793 |
| Total | 206.24 | 206.24 | 206.24 | 571,398 | 571,398 | 571,398 | 571,398 |

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-C | H-W or C-W | H-S or C-C | H-O or C-C | H-W or C-W | H-S or C-C | H-O or C-C | Primary | Diverted | Pass-by | |
| General Office Building | 9.50 | 7.30 | 7.30 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 | | | | |
| Parking Lot | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 | | | | |
| Unrefrigerated Warehouse-No | 9.50 | 7.30 | 7.30 | 59.00 | 0.00 | 41.00 | 92 | 5 | 3 | | | | |

4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| General Office Building | 0.543528 | 0.058189 | 0.173108 | 0.133952 | 0.027894 | 0.007577 | 0.011427 | 0.006062 | 0.000688 | 0.000393 | 0.029232 | 0.000646 | 0.007304 |
| Parking Lot | 0.543528 | 0.058189 | 0.173108 | 0.133952 | 0.027894 | 0.007577 | 0.011427 | 0.006062 | 0.000688 | 0.000393 | 0.029232 | 0.000646 | 0.007304 |

Pentair Warehouse Expansion - Ventura County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | | | | | | | |
|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Unrefrigerated Warehouse-No Rail | 0.543528 | 0.058189 | 0.173108 | 0.133952 | 0.027894 | 0.007577 | 0.011427 | 0.006062 | 0.000688 | 0.000393 | 0.029232 | 0.000646 | 0.007304 |
|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
|-------------------------|-------------|--------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|---------|
| | 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 |
| Electricity Mitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 76.2619 | 76.2619 | 6.4400e-003 | 7.8000e-004 | 76.6553 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 76.2619 | 76.2619 | 6.4400e-003 | 7.8000e-004 | 76.6553 |
| NaturalGas Mitigated | 1.8900e-003 | 0.0171 | 0.0144 | 1.0000e-004 | 1.3000e-003 | 1.3000e-003 | 1.3000e-003 | 1.3000e-003 | 1.3000e-003 | 1.3000e-003 | 0.0000 | 18.6561 | 18.6561 | 3.6000e-004 | 3.4000e-004 | 18.7669 |
| NaturalGas Unmitigated | 1.8900e-003 | 0.0171 | 0.0144 | 1.0000e-004 | 1.3000e-003 | 1.3000e-003 | 1.3000e-003 | 1.3000e-003 | 1.3000e-003 | 1.3000e-003 | 0.0000 | 18.6561 | 18.6561 | 3.6000e-004 | 3.4000e-004 | 18.7669 |

Pentair Warehouse Expansion - Ventura County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

| Land Use | NaturalGas Use kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
|----------------------------------|---------------------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| | | 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 |
| General Office Building | 36200 | 2.0000e-004 | 1.7700e-003 | 1.4900e-003 | 1.0000e-005 | 1.3000e-004 | 1.3000e-004 | 1.3000e-004 | 1.3000e-004 | 1.3000e-004 | 1.3000e-004 | 0.0000 | 1.9318 | 1.9318 | 4.0000e-005 | 4.0000e-005 | 1.9433 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 313402 | 1.6900e-003 | 0.0154 | 0.0129 | 9.0000e-005 | 1.1700e-003 | 1.1700e-003 | 1.1700e-003 | 1.1700e-003 | 1.1700e-003 | 1.1700e-003 | 0.0000 | 16.7243 | 16.7243 | 3.2000e-004 | 3.1000e-004 | 16.8237 |
| Total | | 1.8900e-003 | 0.0171 | 0.0144 | 1.0000e-004 | 1.3000e-003 | 1.3000e-003 | 1.3000e-003 | 1.3000e-003 | 1.3000e-003 | 1.3000e-003 | 0.0000 | 18.6561 | 18.6561 | 3.6000e-004 | 3.5000e-004 | 18.7669 |

Pentair Warehouse Expansion - Ventura County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

| Land Use | NaturalGas Use kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
|----------------------------------|---------------------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| | | 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 |
| General Office Building | 36200 | 2.0000e-004 | 1.7700e-003 | 1.4900e-003 | 1.0000e-005 | 1.3000e-004 | 1.3000e-004 | 1.3000e-004 | 1.3000e-004 | 1.3000e-004 | 1.3000e-004 | 0.0000 | 1.9318 | 1.9318 | 4.0000e-005 | 4.0000e-005 | 1.9433 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 313402 | 1.6900e-003 | 0.0154 | 0.0129 | 9.0000e-005 | 1.1700e-003 | 1.1700e-003 | 1.1700e-003 | 1.1700e-003 | 1.1700e-003 | 1.1700e-003 | 0.0000 | 16.7243 | 16.7243 | 3.2000e-004 | 3.1000e-004 | 16.8237 |
| Total | | 1.8900e-003 | 0.0171 | 0.0144 | 1.0000e-004 | 1.3000e-003 | 1.3000e-003 | 1.3000e-003 | 1.3000e-003 | 1.3000e-003 | 1.3000e-003 | 0.0000 | 18.6561 | 18.6561 | 3.6000e-004 | 3.5000e-004 | 18.7669 |

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.3 Energy by Land Use - Electricity

Unmitigated

| Land Use | Electricity Use kWh/yr | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|---------------------------|----------------|--------------------|--------------------|----------------|
| | | MT/yr | | | |
| General Office Building | 53960 | 9.5696 | 8.1000e-004 | 1.0000e-004 | 9.6189 |
| Parking Lot | 45738 | 8.1114 | 6.8000e-004 | 8.0000e-005 | 8.1533 |
| Unrefrigerated Warehouse-No Rail | 330321 | 58.5809 | 4.9400e-003 | 6.0000e-004 | 58.8831 |
| Total | | 76.2619 | 6.4300e-003 | 7.8000e-004 | 76.6553 |

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.3 Energy by Land Use - Electricity

Mitigated

| Land Use | Electricity Use kWh/yr | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|---------------------------|----------------|--------------------|--------------------|----------------|
| | | MT/yr | | | |
| General Office Building | 53960 | 9.5696 | 8.1000e-004 | 1.0000e-004 | 9.6189 |
| Parking Lot | 45738 | 8.1114 | 6.8000e-004 | 8.0000e-005 | 8.1533 |
| Unrefrigerated Warehouse-No Rail | 330321 | 58.5809 | 4.9400e-003 | 6.0000e-004 | 58.8831 |
| Total | | 76.2619 | 6.4300e-003 | 7.8000e-004 | 76.6553 |

6.0 Area Detail

6.1 Mitigation Measures Area

Pentair Warehouse Expansion - Ventura County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| 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 | |
|-------------|---------|-------------|-------------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|--------|-------------|
| | tons/yr | | | | | | | | | | MT/yr | | | | | | |
| Mitigated | 0.3798 | 1.0000e-005 | 8.0000e-004 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 1.5600e-003 | 1.5600e-003 | 0.0000 | 0.0000 | 0.0000 | 1.6700e-003 |
| Unmitigated | 0.3798 | 1.0000e-005 | 8.0000e-004 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 1.5600e-003 | 1.5600e-003 | 0.0000 | 0.0000 | 0.0000 | 1.6700e-003 |

6.2 Area by SubCategory

Unmitigated

| SubCategory | 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 | |
|-----------------------|---------------|--------------------|--------------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|
| | tons/yr | | | | | | | | | | MT/yr | | | | | | |
| Architectural Coating | 0.0410 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Consumer Products | 0.3387 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Landscaping | 7.0000e-005 | 1.0000e-005 | 8.0000e-004 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 1.5600e-003 | 1.5600e-003 | 0.0000 | 0.0000 | 0.0000 | 1.6700e-003 |
| Total | 0.3798 | 1.0000e-005 | 8.0000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 1.5600e-003 | 1.5600e-003 | 0.0000 | 0.0000 | 0.0000 | 1.6700e-003 |

Pentair Warehouse Expansion - Ventura County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

| SubCategory | tons/yr | | | | | | | | | | | MT/yr | | | | |
|-----------------------|---------------|--------------------|--------------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|--------------------|
| | 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 |
| Architectural Coating | 0.0410 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.3387 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 7.0000e-005 | 1.0000e-005 | 8.0000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 1.5600e-003 | 0.0000 | 0.0000 | 0.0000 | 1.6700e-003 |
| Total | 0.3798 | 1.0000e-005 | 8.0000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 1.5600e-003 | 0.0000 | 0.0000 | 0.0000 | 1.6700e-003 |

7.0 Water Detail

7.1 Mitigation Measures Water

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

Pentair Warehouse Expansion - Ventura County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|--------|---------|
| Category | MT/yr | | | |
| Mitigated | 43.6840 | 0.5352 | 0.0130 | 60.9247 |
| Unmitigated | 51.6617 | 0.6341 | 0.0154 | 72.0886 |

7.2 Water by Land Use

Unmitigated

| Land Use | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|---------------------|----------------|---------------|---------------|----------------|
| General Office Building | 0.710935 / 0.435734 | 2.7258 | 0.0234 | 5.7000e-004 | 3.4808 |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 18.6318 / 0 | 48.9359 | 0.6108 | 0.0148 | 68.6078 |
| Total | | 51.6617 | 0.6341 | 0.0154 | 72.0886 |

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

7.2 Water by Land Use

Mitigated

| Land Use | Mgal | MT/yr | | | |
|----------------------------------|---------------------|--------------------|---------------|---------------|----------------|
| | | Indoor/Outdoor Use | Total CO2 | CH4 | N2O |
| General Office Building | 0.600029 / 0.409155 | 2.3821 | 0.0197 | 4.8000e-004 | 3.0198 |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 15.7252 / 0 | 41.3019 | 0.5155 | 0.0125 | 57.9049 |
| Total | | 43.6840 | 0.5352 | 0.0130 | 60.9247 |

8.0 Waste Detail

8.1 Mitigation Measures Waste

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category/Year

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|--------|---------|
| | MT/yr | | | |
| Mitigated | 16.1297 | 0.9532 | 0.0000 | 39.9606 |
| Unmitigated | 16.1297 | 0.9532 | 0.0000 | 39.9606 |

8.2 Waste by Land Use

Unmitigated

| Land Use | Waste Disposed tons | Total CO2 | | | CO2e |
|----------------------------------|------------------------|----------------|---------------|---------------|----------------|
| | | CH4 | N2O | CO2e | |
| General Office Building | 3.72 | 0.7551 | 0.0446 | 0.0000 | 1.8708 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 75.74 | 15.3745 | 0.9086 | 0.0000 | 38.0898 |
| Total | | 16.1297 | 0.9532 | 0.0000 | 39.9606 |

Pentair Warehouse Expansion - Ventura County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.2 Waste by Land Use

Mitigated

| Land Use | Waste Disposed tons | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|------------------------|----------------|---------------|---------------|----------------|
| | | MT/yr | | | |
| General Office Building | 3.72 | 0.7551 | 0.0446 | 0.0000 | 1.8708 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 75.74 | 15.3745 | 0.9086 | 0.0000 | 38.0898 |
| Total | | 16.1297 | 0.9532 | 0.0000 | 39.9606 |

9.0 Operational Offroad

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|-----------|-------------|-------------|------------|
| Forklifts | 4 | 8.00 | 260 | 89 | 0.20 | Electrical |

Pentair Warehouse Expansion - Ventura County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

UnMitigated/Mitigated

| Equipment Type | tons/yr | | | | | | | | | | MT/yr | | | | | |
|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | 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 |
| Forklifts | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | 0.0000 | 0.0000 | 0.0000 |

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