

Appendix AQ

California Emissions Estimator Model Outputs

San Leandro HE GHG Operational - Bay Area AQMD Air District, Annual

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

**San Leandro HE GHG Operational
Bay Area AQMD Air District, Annual**

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------|----------|---------------|-------------|--------------------|------------|
| Apartments Mid Rise | 4,960.00 | Dwelling Unit | 130.53 | 4,960,000.00 | 12400 |
| General Office Building | 75.00 | 1000sqft | 1.72 | 75,000.00 | 300 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|--------------|--------------------------------|-----|----------------------------------|------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 64 |
| Climate Zone | 5 | | | Operational Year | 2040 |
| Utility Company | User Defined | | | | |
| CO2 Intensity (lb/MWhr) | 135 | CH4 Intensity (lb/MWhr) | 0 | N2O Intensity (lb/MWhr) | 0 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics - East Bay Community Energy is the primary electricity provider, for conservative analysis will use Bright Choice Plan (40 percent renewable)

Land Use - Based on EIR growth assumption of 4,960 multi-family units, 75,000sf office, 12,400 new residents, and 300 jobs

Construction Phase - Operational model, no construction

Off-road Equipment - Operational model, no construction

Trips and VMT - Operational model, no construction

Architectural Coating - BAAQMD Regulation 8 Rule 3, Nonflat Coating

Vehicle Trips - Trip rates adjusted to match 2040 plus project VMT per Kittelson's VMT analysis. Conservatively assumed weekday trip rate would occur 365 days a year.

Woodstoves - BAAQMD Regulation 6 Rule 3: No woodburning devices, # wood distributed to gas and no fireplace based on default percentages

Area Coating - BAAQMD Regulation 8 Rule 3, Nonflat Coating

Water And Wastewater - San Leandro Water Pollution Control Plant 100% aerobic

San Leandro HE GHG Operational - Bay Area AQMD Air District, Annual

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

Area Mitigation -

Water Mitigation - Pursuant to CalGreen 20 percent indoor water use reduction

| Table Name | Column Name | Default Value | New Value |
|---------------------------|---|---------------|-----------|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 150.00 | 100.00 |
| tblArchitecturalCoating | EF_Residential_Exterior | 150.00 | 100.00 |
| tblAreaCoating | Area_EF_Nonresidential_Exterior | 150 | 100 |
| tblAreaCoating | Area_EF_Residential_Exterior | 150 | 100 |
| tblAreaMitigation | UseLowVOCPaintNonresidentialExteriorValue | 100 | 150 |
| tblAreaMitigation | UseLowVOCPaintResidentialExteriorValue | 100 | 150 |
| tblConstructionPhase | NumDays | 220.00 | 1.00 |
| tblConstructionPhase | PhaseEndDate | 12/24/2038 | 2/22/2038 |
| tblFireplaces | NumberGas | 744.00 | 1,409.68 |
| tblFireplaces | NumberNoFireplace | 198.40 | 375.90 |
| tblFireplaces | NumberWood | 843.20 | 0.00 |
| tblLandUse | Population | 14,186.00 | 12,400.00 |
| tblLandUse | Population | 0.00 | 300.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblProjectCharacteristics | CO2IntensityFactor | 0 | 135 |
| tblTripsAndVMT | WorkerTripNumber | 719.00 | 0.00 |
| tblVehicleTrips | WD_TR | 5.44 | 7.00 |
| tblVehicleTrips | WD_TR | 9.74 | 12.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AnaerobicandFacultativeLagoonsPercent | 2.21 | 0.00 |
| tblWater | AnaerobicandFacultativeLagoonsPercent | 2.21 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWoodstoves | NumberCatalytic | 99.20 | 0.00 |

San Leandro HE GHG Operational - Bay Area AQMD Air District, Annual

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

| | ROG | NOx | CO | SO2 | 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 |

| Quarter | Start Date | End Date | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|----------|--|--|
| | | Highest | | |

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 | | | | | | | | | | | 0.0000 | 236.1436 | 236.1436 | 0.0606 | 3.2300e-003 | 238.6210 |
| Energy | | | | | | | | | | | 0.0000 | 3,547.0622 | 3,547.0622 | 0.0443 | 0.0424 | 3,560.7976 |
| Mobile | | | | | | | | | | | 0.0000 | 19,243.5907 | 19,243.5907 | 1.0764 | 0.8624 | 19,527.4828 |
| Waste | | | | | | | | | | | 477.3028 | 0.0000 | 477.3028 | 28.2078 | 0.0000 | 1,182.4975 |
| Water | | | | | | | | | | | 119.0521 | 156.9105 | 275.9626 | 0.4098 | 0.2589 | 363.3587 |
| Total | | | | | | | | | | | 596.3549 | 23,183.7070 | 23,780.0619 | 29.7989 | 1.1669 | 24,872.7576 |

San Leandro HE GHG Operational - Bay Area AQMD Air District, 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

| | ROG | NOx | CO | SO2 | 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 | | | | | | | | | | | 0.0000 | 236.1436 | 236.1436 | 0.0606 | 3.2300e-003 | 238.6210 |
| Energy | | | | | | | | | | | 0.0000 | 3,547.0622 | 3,547.0622 | 0.0443 | 0.0424 | 3,560.7976 |
| Mobile | | | | | | | | | | | 0.0000 | 19,243.5907 | 19,243.5907 | 1.0764 | 0.8624 | 19,527.4828 |
| Waste | | | | | | | | | | | 477.3028 | 0.0000 | 477.3028 | 28.2078 | 0.0000 | 1,182.4975 |
| Water | | | | | | | | | | | 95.2417 | 134.6115 | 229.8532 | 0.3278 | 0.2071 | 299.7701 |
| Total | | | | | | | | | | | 572.5445 | 23,161.4080 | 23,733.9525 | 29.7170 | 1.1151 | 24,809.1690 |

| | ROG | NOx | CO | SO2 | 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 | 3.99 | 0.10 | 0.19 | 0.28 | 4.44 | 0.26 |

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1 | Architectural Coating | Architectural Coating | 2/20/2038 | 2/22/2038 | 5 | 1 | |

Acres of Grading (Site Preparation Phase): 0

San Leandro HE GHG Operational - Bay Area AQMD Air District, Annual

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

3.2 Architectural Coating - 2038

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 |
| Vendor | | | | | | | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | | | | | | | | | | | 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 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

San Leandro HE GHG Operational - Bay Area AQMD Air District, Annual

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

| | ROG | NOx | CO | SO2 | 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 | 19,243.5907 | 19,243.5907 | 1.0764 | 0.8624 | 19,527.4828 |
| Unmitigated | | | | | | | | | | | 0.0000 | 19,243.5907 | 19,243.5907 | 1.0764 | 0.8624 | 19,527.4828 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------|-------------------------|------------------|------------------|-------------------|-------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments Mid Rise | 34,720.00 | 24,353.60 | 20,286.40 | 72,006,957 | 72,006,957 |
| General Office Building | 900.00 | 165.75 | 52.50 | 1,610,779 | 1,610,779 |
| Total | 35,620.00 | 24,519.35 | 20,338.90 | 73,617,735 | 73,617,735 |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|-------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Apartments Mid Rise | 10.80 | 4.80 | 5.70 | 31.00 | 15.00 | 54.00 | 86 | 11 | 3 |
| General Office Building | 9.50 | 7.30 | 7.30 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |

4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments Mid Rise | 0.554371 | 0.060330 | 0.185934 | 0.122323 | 0.022029 | 0.006101 | 0.011187 | 0.006846 | 0.000892 | 0.000437 | 0.025991 | 0.000924 | 0.002633 |
| General Office Building | 0.554371 | 0.060330 | 0.185934 | 0.122323 | 0.022029 | 0.006101 | 0.011187 | 0.006846 | 0.000892 | 0.000437 | 0.025991 | 0.000924 | 0.002633 |

5.0 Energy Detail

San Leandro HE GHG Operational - Bay Area AQMD Air District, Annual

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

Historical Energy Use: N

5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|---------|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | | | | | | 0.0000 | 1,235.6847 | 1,235.6847 | 0.0000 | 0.0000 | 1,235.6847 |
| Electricity Unmitigated | | | | | | | | | | | 0.0000 | 1,235.6847 | 1,235.6847 | 0.0000 | 0.0000 | 1,235.6847 |
| NaturalGas Mitigated | | | | | | | | | | | 0.0000 | 2,311.3776 | 2,311.3776 | 0.0443 | 0.0424 | 2,325.1129 |
| NaturalGas Unmitigated | | | | | | | | | | | 0.0000 | 2,311.3776 | 2,311.3776 | 0.0443 | 0.0424 | 2,325.1129 |

San Leandro HE GHG Operational - Bay Area AQMD Air District, 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

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|---------|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Apartments Mid Rise | 4.18773e+007 | | | | | | | | | | | 0.0000 | 2,234.7338 | 2,234.7338 | 0.0428 | 0.0410 | 2,248.0137 |
| General Office Building | 1.43625e+006 | | | | | | | | | | | 0.0000 | 76.6438 | 76.6438 | 1.4700e-003 | 1.4100e-003 | 77.0992 |
| Total | | | | | | | | | | | | 0.0000 | 2,311.3776 | 2,311.3776 | 0.0443 | 0.0424 | 2,325.1129 |

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|---------|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Apartments Mid Rise | 4.18773e+007 | | | | | | | | | | | 0.0000 | 2,234.7338 | 2,234.7338 | 0.0428 | 0.0410 | 2,248.0137 |
| General Office Building | 1.43625e+006 | | | | | | | | | | | 0.0000 | 76.6438 | 76.6438 | 1.4700e-003 | 1.4100e-003 | 77.0992 |
| Total | | | | | | | | | | | | 0.0000 | 2,311.3776 | 2,311.3776 | 0.0443 | 0.0424 | 2,325.1129 |

San Leandro HE GHG Operational - Bay Area AQMD Air District, Annual

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

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|-----------------|-------------------|---------------|---------------|-------------------|
| Land Use | kWh/yr | MT/yr | | | |
| Apartments Mid Rise | 1.92764e+007 | 1,180.3895 | 0.0000 | 0.0000 | 1,180.3895 |
| General Office Building | 903000 | 55.2952 | 0.0000 | 0.0000 | 55.2952 |
| Total | | 1,235.6847 | 0.0000 | 0.0000 | 1,235.6847 |

Mitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|-----------------|-------------------|---------------|---------------|-------------------|
| Land Use | kWh/yr | MT/yr | | | |
| Apartments Mid Rise | 1.92764e+007 | 1,180.3895 | 0.0000 | 0.0000 | 1,180.3895 |
| General Office Building | 903000 | 55.2952 | 0.0000 | 0.0000 | 55.2952 |
| Total | | 1,235.6847 | 0.0000 | 0.0000 | 1,235.6847 |

6.0 Area Detail

San Leandro HE GHG Operational - Bay Area AQMD Air District, Annual

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

6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | 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 | 236.1436 | 236.1436 | 0.0606 | 3.2300e-003 | 238.6210 |
| Unmitigated | | | | | | | | | | | 0.0000 | 236.1436 | 236.1436 | 0.0606 | 3.2300e-003 | 238.6210 |

San Leandro HE GHG Operational - Bay Area AQMD Air District, Annual

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

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 | | | | | | | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | | | | | | | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | | | | | | | | | | | 0.0000 | 175.9835 | 175.9835 | 3.3700e-003 | 3.2300e-003 | 177.0292 |
| Landscaping | | | | | | | | | | | 0.0000 | 60.1602 | 60.1602 | 0.0573 | 0.0000 | 61.5918 |
| Total | | | | | | | | | | | 0.0000 | 236.1436 | 236.1436 | 0.0606 | 3.2300e-003 | 238.6210 |

San Leandro HE GHG Operational - Bay Area AQMD Air District, 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

| | ROG | NOx | CO | SO2 | 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 | | | | | | | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | | | | | | | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | | | | | | | | | | | 0.0000 | 175.9835 | 175.9835 | 3.3700e-003 | 3.2300e-003 | 177.0292 |
| Landscaping | | | | | | | | | | | 0.0000 | 60.1602 | 60.1602 | 0.0573 | 0.0000 | 61.5918 |
| Total | | | | | | | | | | | 0.0000 | 236.1436 | 236.1436 | 0.0606 | 3.2300e-003 | 238.6210 |

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

San Leandro HE GHG Operational - Bay Area AQMD Air District, 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 | 229.8532 | 0.3278 | 0.2071 | 299.7701 |
| Unmitigated | 275.9626 | 0.4098 | 0.2589 | 363.3587 |

7.2 Water by Land Use

Unmitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|--------------------|-----------------|---------------|---------------|-----------------|
| Land Use | Mgal | MT/yr | | | |
| Apartments Mid Rise | 323.164 / 203.734 | 265.0786 | 0.3935 | 0.2486 | 349.0126 |
| General Office Building | 13.33 / 8.17002 | 10.8840 | 0.0162 | 0.0103 | 14.3462 |
| Total | | 275.9626 | 0.4098 | 0.2589 | 363.3587 |

San Leandro HE GHG Operational - Bay Area AQMD Air District, Annual

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

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|--------------------|-----------------|---------------|---------------|-----------------|
| Land Use | Mgal | MT/yr | | | |
| Apartments Mid Rise | 258.531 / 203.734 | 220.7958 | 0.3148 | 0.1989 | 287.9430 |
| General Office Building | 10.664 / 8.17002 | 9.0574 | 0.0130 | 8.2000e-003 | 11.8271 |
| Total | | 229.8532 | 0.3278 | 0.2071 | 299.7701 |

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|---------|--------|------------|
| | MT/yr | | | |
| Mitigated | 477.3028 | 28.2078 | 0.0000 | 1,182.4975 |
| Unmitigated | 477.3028 | 28.2078 | 0.0000 | 1,182.4975 |

San Leandro HE GHG Operational - Bay Area AQMD Air District, 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

Unmitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|-----------------|----------------|---------------|-------------------|
| Land Use | tons | MT/yr | | | |
| Apartments Mid Rise | 2281.6 | 463.1442 | 27.3710 | 0.0000 | 1,147.4201 |
| General Office Building | 69.75 | 14.1586 | 0.8368 | 0.0000 | 35.0774 |
| Total | | 477.3028 | 28.2078 | 0.0000 | 1,182.4975 |

Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|-----------------|----------------|---------------|-------------------|
| Land Use | tons | MT/yr | | | |
| Apartments Mid Rise | 2281.6 | 463.1442 | 27.3710 | 0.0000 | 1,147.4201 |
| General Office Building | 69.75 | 14.1586 | 0.8368 | 0.0000 | 35.0774 |
| Total | | 477.3028 | 28.2078 | 0.0000 | 1,182.4975 |

9.0 Operational Offroad

San Leandro HE GHG Operational - Bay Area AQMD Air District, Annual

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

| 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
