

Appendix B  
CalEEMod Results

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Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay - Monterey County, Annual

**Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay  
Monterey County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

| Land Uses | Size  | Metric   | Lot Acreage | Floor Surface Area | Population |
|-----------|-------|----------|-------------|--------------------|------------|
| Arena     | 36.00 | 1000sqft | 5.72        | 36,000.00          | 6140       |

**1.2 Other Project Characteristics**

|                                 |                                |                                 |      |                                  |       |
|---------------------------------|--------------------------------|---------------------------------|------|----------------------------------|-------|
| <b>Urbanization</b>             | Urban                          | <b>Wind Speed (m/s)</b>         | 3.6  | <b>Precipitation Freq (Days)</b> | 55    |
| <b>Climate Zone</b>             | 4                              |                                 |      | <b>Operational Year</b>          | 2023  |
| <b>Utility Company</b>          | Pacific Gas & Electric Company |                                 |      |                                  |       |
| <b>CO2 Intensity (lb/MW hr)</b> | 438.13                         | <b>CH4 Intensity (lb/MW hr)</b> | 0.02 | <b>N2O Intensity (lb/MW hr)</b>  | 0.004 |

**1.3 User Entered Comments & Non-Default Data**

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Project Characteristics - Utility intensity factors reflect Senate Bill 100 (2018) Renewables Portfolio Standard program.

Land Use - The project site is 5.72 acres. An estimated 130-140 match-related personnel (i.e., staff, coaches, players) and 6,000 ticketed and seated fan capacity are expected for home matches.

Grading - Construction would result in approximately 1,530 cubic yards (CY) of cut and would not require any fill. Approximately 4.8 acres would be graded, but not more than 2 acres would be graded daily.

Demolition - Renovations to the existing Field House facility would require the demolition and disturbance of 2,000 SF.

Energy Use - The lights operate approximately 25 hours per month (300 hours per year) and produce 118.44 KW and 2,960 Kwh/month. The existing field house is connected to natural gas for heating and would require approximately 367,000 BTUh of natural gas per hour during project operations.

Water And Wastewater - The proposed project would require approximately 98,759 gallons per year or approximately 0.3 acre feet per year (AFY) for new uses of existing showers, water closets, urinals, lavatories, and service sinks. The existing field would be replaced with synthetic turf with sand rubber infill and would not require additional water.

Construction Off-road Equipment Mitigation - Monterey Bay Air Resources District (MBARD) Feasible Construction Emissions Mitigations.

Energy Mitigation - Nonresidential buildings will use about 30 percent less energy due mainly to lighting upgrades.

Water Mitigation - Low-flow indoor water use.

Waste Mitigation - CalRecycle Requirements (State of California).

| Table Name              | Column Name                  | Default Value | New Value |
|-------------------------|------------------------------|---------------|-----------|
| tblConstDustMitigation  | WaterUnpavedRoadVehicleSpeed | 0             | 15        |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 1.00      |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 4.00      |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 1.00      |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 1.00      |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 3.00      |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 1.00      |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 2.00      |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 2.00      |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 6.00      |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 10.00     |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 1.00      |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 2.00      |

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|                           |                            |               |           |
|---------------------------|----------------------------|---------------|-----------|
| tblConstEquipMitigation   | NumberOfEquipmentMitigated | 0.00          | 1.00      |
| tblConstEquipMitigation   | Tier                       | No Change     | Tier 3    |
| tblConstEquipMitigation   | Tier                       | No Change     | Tier 3    |
| tblConstEquipMitigation   | Tier                       | No Change     | Tier 3    |
| tblConstEquipMitigation   | Tier                       | No Change     | Tier 3    |
| tblConstEquipMitigation   | Tier                       | No Change     | Tier 3    |
| tblConstEquipMitigation   | Tier                       | No Change     | Tier 3    |
| tblConstEquipMitigation   | Tier                       | No Change     | Tier 3    |
| tblConstEquipMitigation   | Tier                       | No Change     | Tier 3    |
| tblConstEquipMitigation   | Tier                       | No Change     | Tier 3    |
| tblConstEquipMitigation   | Tier                       | No Change     | Tier 3    |
| tblConstEquipMitigation   | Tier                       | No Change     | Tier 3    |
| tblConstEquipMitigation   | Tier                       | No Change     | Tier 3    |
| tblConstEquipMitigation   | Tier                       | No Change     | Tier 3    |
| tblEnergyUse              | LightingElect              | 3.08          | 0.99      |
| tblEnergyUse              | T24NG                      | 19.71         | 21.20     |
| tblGrading                | AcresOfGrading             | 10.00         | 4.80      |
| tblGrading                | MaterialExported           | 0.00          | 1,530.00  |
| tblLandUse                | LotAcreage                 | 11.57         | 5.72      |
| tblLandUse                | Population                 | 0.00          | 6,140.00  |
| tblProjectCharacteristics | CH4IntensityFactor         | 0.029         | 0.02      |
| tblProjectCharacteristics | CO2IntensityFactor         | 641.35        | 438.13    |
| tblProjectCharacteristics | N2OIntensityFactor         | 0.006         | 0.004     |
| tblWater                  | IndoorWaterUseRate         | 15,507,724.23 | 98,759.00 |
| tblWater                  | OutdoorWaterUseRate        | 989,854.74    | 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       | 6-1-2021   | 8-31-2021  | 1.0272                                       | 0.6021                                     |
| 2       | 9-1-2021   | 11-30-2021 | 0.6550                                       | 0.5109                                     |
| 3       | 12-1-2021  | 2-28-2022  | 0.6046                                       | 0.5045                                     |
| 4       | 3-1-2022   | 5-31-2022  | 0.5943                                       | 0.5147                                     |
| 5       | 6-1-2022   | 8-31-2022  | 0.5642                                       | 0.5352                                     |
|         |            | Highest    | 1.0272                                       | 0.6021                                     |

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         | 0.1657        | 0.0000        | 4.6000e-004   | 0.0000             |               | 0.0000             | 0.0000        |                | 0.0000             | 0.0000        | 0.0000        | 8.9000e-004     | 8.9000e-004     | 0.0000        | 0.0000             | 9.5000e-004     |
| Energy       | 5.4100e-003   | 0.0492        | 0.0413        | 3.0000e-004        |               | 3.7400e-003        | 3.7400e-003   |                | 3.7400e-003        | 3.7400e-003   | 0.0000        | 97.6834         | 97.6834         | 3.0400e-003   | 1.3800e-003        | 98.1721         |
| Mobile       | 0.1214        | 0.4813        | 1.2656        | 3.5900e-003        | 0.2807        | 3.0400e-003        | 0.2838        | 0.0754         | 2.8300e-003        | 0.0782        | 0.0000        | 328.8882        | 328.8882        | 0.0164        | 0.0000             | 329.2974        |
| Waste        |               |               |               |                    |               | 0.0000             | 0.0000        |                | 0.0000             | 0.0000        | 0.2010        | 0.0000          | 0.2010          | 0.0119        | 0.0000             | 0.4979          |
| Water        |               |               |               |                    |               | 0.0000             | 0.0000        |                | 0.0000             | 0.0000        | 0.0313        | 0.1062          | 0.1375          | 3.2200e-003   | 8.0000e-005        | 0.2410          |
| <b>Total</b> | <b>0.2925</b> | <b>0.5305</b> | <b>1.3073</b> | <b>3.8900e-003</b> | <b>0.2807</b> | <b>6.7800e-003</b> | <b>0.2875</b> | <b>0.0754</b>  | <b>6.5700e-003</b> | <b>0.0820</b> | <b>0.2323</b> | <b>426.6787</b> | <b>426.9110</b> | <b>0.0345</b> | <b>1.4600e-003</b> | <b>428.2094</b> |

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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         | 0.1657        | 0.0000        | 4.6000e-004   | 0.0000             |               | 0.0000             | 0.0000        |                | 0.0000             | 0.0000        | 0.0000        | 8.9000e-004     | 8.9000e-004     | 0.0000        | 0.0000             | 9.5000e-004     |
| Energy       | 4.1800e-003   | 0.0380        | 0.0319        | 2.3000e-004        |               | 2.8800e-003        | 2.8800e-003   |                | 2.8800e-003        | 2.8800e-003   | 0.0000        | 80.1639         | 80.1639         | 2.5700e-003   | 1.1100e-003        | 80.5594         |
| Mobile       | 0.1214        | 0.4813        | 1.2656        | 3.5900e-003        | 0.2807        | 3.0400e-003        | 0.2838        | 0.0754         | 2.8300e-003        | 0.0782        | 0.0000        | 328.8882        | 328.8882        | 0.0164        | 0.0000             | 329.2974        |
| Waste        |               |               |               |                    |               | 0.0000             | 0.0000        |                | 0.0000             | 0.0000        | 0.0502        | 0.0000          | 0.0502          | 2.9700e-003   | 0.0000             | 0.1245          |
| Water        |               |               |               |                    |               | 0.0000             | 0.0000        |                | 0.0000             | 0.0000        | 0.0251        | 0.0850          | 0.1100          | 2.5800e-003   | 6.0000e-005        | 0.1928          |
| <b>Total</b> | <b>0.2913</b> | <b>0.5193</b> | <b>1.2979</b> | <b>3.8200e-003</b> | <b>0.2807</b> | <b>5.9200e-003</b> | <b>0.2866</b> | <b>0.0754</b>  | <b>5.7100e-003</b> | <b>0.0811</b> | <b>0.0753</b> | <b>409.1379</b> | <b>409.2132</b> | <b>0.0245</b> | <b>1.1700e-003</b> | <b>410.1751</b> |

|                          | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2     | NBio-CO2    | Total CO2   | CH4          | N2O          | CO2e        |
|--------------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|--------------|-------------|-------------|--------------|--------------|-------------|
| <b>Percent Reduction</b> | <b>0.42</b> | <b>2.11</b> | <b>0.72</b> | <b>1.80</b> | <b>0.00</b>   | <b>12.68</b> | <b>0.30</b> | <b>0.00</b>    | <b>13.09</b>  | <b>1.05</b> | <b>67.58</b> | <b>4.11</b> | <b>4.15</b> | <b>29.04</b> | <b>19.86</b> | <b>4.21</b> |

**3.0 Construction Detail**

**Construction Phase**



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| Phase Number | Phase Name            | Phase Type            | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1            | Demolition            | Demolition            | 6/1/2021   | 6/28/2021 | 5             | 20       |                   |
| 2            | Site Preparation      | Site Preparation      | 6/29/2021  | 7/12/2021 | 5             | 10       |                   |
| 3            | Grading               | Grading               | 7/13/2021  | 8/9/2021  | 5             | 20       |                   |
| 4            | Building Construction | Building Construction | 8/10/2021  | 6/27/2022 | 5             | 230      |                   |
| 5            | Paving                | Paving                | 6/28/2022  | 7/25/2022 | 5             | 20       |                   |
| 6            | Architectural Coating | Architectural Coating | 7/26/2022  | 8/22/2022 | 5             | 20       |                   |

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 4.8**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 54,000; Non-Residential Outdoor: 18,000; Striped Parking Area: 0 (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        |
| Demolition            | Excavators                | 3      | 8.00        | 158         | 0.38        |
| Demolition            | Concrete/Industrial Saws  | 1      | 8.00        | 81          | 0.73        |
| Grading               | Excavators                | 1      | 8.00        | 158         | 0.38        |
| Building Construction | Cranes                    | 1      | 7.00        | 231         | 0.29        |
| Building Construction | Forklifts                 | 3      | 8.00        | 89          | 0.20        |
| Building Construction | Generator Sets            | 1      | 8.00        | 84          | 0.74        |
| Paving                | Pavers                    | 2      | 8.00        | 130         | 0.42        |
| Paving                | Rollers                   | 2      | 8.00        | 80          | 0.38        |
| Demolition            | Rubber Tired Dozers       | 2      | 8.00        | 247         | 0.40        |
| Grading               | Rubber Tired Dozers       | 1      | 8.00        | 247         | 0.40        |
| Building Construction | Tractors/Loaders/Backhoes | 3      | 7.00        | 97          | 0.37        |
| Grading               | Graders                   | 1      | 8.00        | 187         | 0.41        |
| Grading               | Tractors/Loaders/Backhoes | 3      | 8.00        | 97          | 0.37        |
| Paving                | Paving Equipment          | 2      | 8.00        | 132         | 0.36        |
| Site Preparation      | Tractors/Loaders/Backhoes | 4      | 8.00        | 97          | 0.37        |
| Site Preparation      | Rubber Tired Dozers       | 3      | 8.00        | 247         | 0.40        |
| Building Construction | Welders                   | 1      | 8.00        | 46          | 0.45        |

**Trips and VMT**

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| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition            | 6                       | 15.00              | 0.00               | 9.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| 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               | 191.00              | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 9                       | 15.00              | 6.00               | 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                       | 3.00               | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

**3.2 Demolition - 2021**

**Unmitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10  | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|---------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category      | tons/yr       |               |               |                    |                    |               |               |                    |               |               | MT/yr         |                |                |                    |               |                |
| Fugitive Dust |               |               |               |                    | 1.0300e-003        | 0.0000        | 1.0300e-003   | 1.6000e-004        | 0.0000        | 1.6000e-004   | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Off-Road      | 0.0317        | 0.3144        | 0.2157        | 3.9000e-004        |                    | 0.0155        | 0.0155        |                    | 0.0144        | 0.0144        | 0.0000        | 34.0008        | 34.0008        | 9.5700e-003        | 0.0000        | 34.2400        |
| <b>Total</b>  | <b>0.0317</b> | <b>0.3144</b> | <b>0.2157</b> | <b>3.9000e-004</b> | <b>1.0300e-003</b> | <b>0.0155</b> | <b>0.0165</b> | <b>1.6000e-004</b> | <b>0.0144</b> | <b>0.0146</b> | <b>0.0000</b> | <b>34.0008</b> | <b>34.0008</b> | <b>9.5700e-003</b> | <b>0.0000</b> | <b>34.2400</b> |

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**3.2 Demolition - 2021**

**Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 4.0000e-005        | 1.2400e-003        | 2.6000e-004        | 0.0000             | 8.0000e-005        | 0.0000             | 8.0000e-005        | 2.0000e-005        | 0.0000             | 3.0000e-005        | 0.0000        | 0.3466        | 0.3466        | 1.0000e-005        | 0.0000        | 0.3470        |
| 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        | 5.4000e-004        | 4.9600e-003        | 1.0000e-005        | 1.1900e-003        | 1.0000e-005        | 1.2000e-003        | 3.2000e-004        | 1.0000e-005        | 3.3000e-004        | 0.0000        | 1.0958        | 1.0958        | 4.0000e-005        | 0.0000        | 1.0969        |
| <b>Total</b> | <b>6.5000e-004</b> | <b>1.7800e-003</b> | <b>5.2200e-003</b> | <b>1.0000e-005</b> | <b>1.2700e-003</b> | <b>1.0000e-005</b> | <b>1.2800e-003</b> | <b>3.4000e-004</b> | <b>1.0000e-005</b> | <b>3.6000e-004</b> | <b>0.0000</b> | <b>1.4424</b> | <b>1.4424</b> | <b>5.0000e-005</b> | <b>0.0000</b> | <b>1.4438</b> |

**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 |                    |               |               |                    | 4.0000e-004        | 0.0000             | 4.0000e-004        | 6.0000e-005        | 0.0000             | 6.0000e-005        | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Off-Road      | 9.2500e-003        | 0.1831        | 0.2467        | 3.9000e-004        |                    | 8.6300e-003        | 8.6300e-003        |                    | 8.6300e-003        | 8.6300e-003        | 0.0000        | 34.0007        | 34.0007        | 9.5700e-003        | 0.0000        | 34.2400        |
| <b>Total</b>  | <b>9.2500e-003</b> | <b>0.1831</b> | <b>0.2467</b> | <b>3.9000e-004</b> | <b>4.0000e-004</b> | <b>8.6300e-003</b> | <b>9.0300e-003</b> | <b>6.0000e-005</b> | <b>8.6300e-003</b> | <b>8.6900e-003</b> | <b>0.0000</b> | <b>34.0007</b> | <b>34.0007</b> | <b>9.5700e-003</b> | <b>0.0000</b> | <b>34.2400</b> |

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**3.2 Demolition - 2021**

**Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 4.0000e-005        | 1.2400e-003        | 2.6000e-004        | 0.0000             | 8.0000e-005        | 0.0000             | 8.0000e-005        | 2.0000e-005        | 0.0000             | 3.0000e-005        | 0.0000        | 0.3466        | 0.3466        | 1.0000e-005        | 0.0000        | 0.3470        |
| 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        | 5.4000e-004        | 4.9600e-003        | 1.0000e-005        | 1.1900e-003        | 1.0000e-005        | 1.2000e-003        | 3.2000e-004        | 1.0000e-005        | 3.3000e-004        | 0.0000        | 1.0958        | 1.0958        | 4.0000e-005        | 0.0000        | 1.0969        |
| <b>Total</b> | <b>6.5000e-004</b> | <b>1.7800e-003</b> | <b>5.2200e-003</b> | <b>1.0000e-005</b> | <b>1.2700e-003</b> | <b>1.0000e-005</b> | <b>1.2800e-003</b> | <b>3.4000e-004</b> | <b>1.0000e-005</b> | <b>3.6000e-004</b> | <b>0.0000</b> | <b>1.4424</b> | <b>1.4424</b> | <b>5.0000e-005</b> | <b>0.0000</b> | <b>1.4438</b> |

**3.3 Site Preparation - 2021**

**Unmitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|--------------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category      | tons/yr       |               |               |                    |               |               |               |                |                    |               | MT/yr         |                |                |                    |               |                |
| Fugitive Dust |               |               |               |                    | 0.0903        | 0.0000        | 0.0903        | 0.0497         | 0.0000             | 0.0497        | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Off-Road      | 0.0194        | 0.2025        | 0.1058        | 1.9000e-004        |               | 0.0102        | 0.0102        |                | 9.4000e-003        | 9.4000e-003   | 0.0000        | 16.7179        | 16.7179        | 5.4100e-003        | 0.0000        | 16.8530        |
| <b>Total</b>  | <b>0.0194</b> | <b>0.2025</b> | <b>0.1058</b> | <b>1.9000e-004</b> | <b>0.0903</b> | <b>0.0102</b> | <b>0.1006</b> | <b>0.0497</b>  | <b>9.4000e-003</b> | <b>0.0591</b> | <b>0.0000</b> | <b>16.7179</b> | <b>16.7179</b> | <b>5.4100e-003</b> | <b>0.0000</b> | <b>16.8530</b> |

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**3.3 Site Preparation - 2021**

**Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 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       | 3.6000e-004        | 3.3000e-004        | 2.9800e-003        | 1.0000e-005        | 7.2000e-004        | 1.0000e-005        | 7.2000e-004        | 1.9000e-004        | 1.0000e-005        | 2.0000e-004        | 0.0000        | 0.6575        | 0.6575        | 3.0000e-005        | 0.0000        | 0.6581        |
| <b>Total</b> | <b>3.6000e-004</b> | <b>3.3000e-004</b> | <b>2.9800e-003</b> | <b>1.0000e-005</b> | <b>7.2000e-004</b> | <b>1.0000e-005</b> | <b>7.2000e-004</b> | <b>1.9000e-004</b> | <b>1.0000e-005</b> | <b>2.0000e-004</b> | <b>0.0000</b> | <b>0.6575</b> | <b>0.6575</b> | <b>3.0000e-005</b> | <b>0.0000</b> | <b>0.6581</b> |

**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 |                    |               |               |                    | 0.0352        | 0.0000             | 0.0352        | 0.0194         | 0.0000             | 0.0194        | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Off-Road      | 4.6600e-003        | 0.0953        | 0.1148        | 1.9000e-004        |               | 4.7300e-003        | 4.7300e-003   |                | 4.7300e-003        | 4.7300e-003   | 0.0000        | 16.7178        | 16.7178        | 5.4100e-003        | 0.0000        | 16.8530        |
| <b>Total</b>  | <b>4.6600e-003</b> | <b>0.0953</b> | <b>0.1148</b> | <b>1.9000e-004</b> | <b>0.0352</b> | <b>4.7300e-003</b> | <b>0.0400</b> | <b>0.0194</b>  | <b>4.7300e-003</b> | <b>0.0241</b> | <b>0.0000</b> | <b>16.7178</b> | <b>16.7178</b> | <b>5.4100e-003</b> | <b>0.0000</b> | <b>16.8530</b> |

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**3.3 Site Preparation - 2021**

**Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 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       | 3.6000e-004        | 3.3000e-004        | 2.9800e-003        | 1.0000e-005        | 7.2000e-004        | 1.0000e-005        | 7.2000e-004        | 1.9000e-004        | 1.0000e-005        | 2.0000e-004        | 0.0000        | 0.6575        | 0.6575        | 3.0000e-005        | 0.0000        | 0.6581        |
| <b>Total</b> | <b>3.6000e-004</b> | <b>3.3000e-004</b> | <b>2.9800e-003</b> | <b>1.0000e-005</b> | <b>7.2000e-004</b> | <b>1.0000e-005</b> | <b>7.2000e-004</b> | <b>1.9000e-004</b> | <b>1.0000e-005</b> | <b>2.0000e-004</b> | <b>0.0000</b> | <b>0.6575</b> | <b>0.6575</b> | <b>3.0000e-005</b> | <b>0.0000</b> | <b>0.6581</b> |

**3.4 Grading - 2021**

**Unmitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category      | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                |                |                    |               |                |
| Fugitive Dust |               |               |               |                    | 0.0629        | 0.0000        | 0.0629        | 0.0334         | 0.0000        | 0.0334        | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Off-Road      | 0.0229        | 0.2474        | 0.1586        | 3.0000e-004        |               | 0.0116        | 0.0116        |                | 0.0107        | 0.0107        | 0.0000        | 26.0537        | 26.0537        | 8.4300e-003        | 0.0000        | 26.2644        |
| <b>Total</b>  | <b>0.0229</b> | <b>0.2474</b> | <b>0.1586</b> | <b>3.0000e-004</b> | <b>0.0629</b> | <b>0.0116</b> | <b>0.0745</b> | <b>0.0334</b>  | <b>0.0107</b> | <b>0.0441</b> | <b>0.0000</b> | <b>26.0537</b> | <b>26.0537</b> | <b>8.4300e-003</b> | <b>0.0000</b> | <b>26.2644</b> |

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**3.4 Grading - 2021**

**Unmitigated Construction Off-Site**

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 7.6000e-004        | 0.0264        | 5.5900e-003   | 8.0000e-005        | 1.6200e-003        | 1.0000e-004        | 1.7200e-003        | 4.4000e-004        | 9.0000e-005        | 5.4000e-004        | 0.0000        | 7.3562        | 7.3562        | 2.8000e-004        | 0.0000        | 7.3631        |
| 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        | 5.4000e-004   | 4.9600e-003   | 1.0000e-005        | 1.1900e-003        | 1.0000e-005        | 1.2000e-003        | 3.2000e-004        | 1.0000e-005        | 3.3000e-004        | 0.0000        | 1.0958        | 1.0958        | 4.0000e-005        | 0.0000        | 1.0969        |
| <b>Total</b> | <b>1.3700e-003</b> | <b>0.0269</b> | <b>0.0106</b> | <b>9.0000e-005</b> | <b>2.8100e-003</b> | <b>1.1000e-004</b> | <b>2.9200e-003</b> | <b>7.6000e-004</b> | <b>1.0000e-004</b> | <b>8.7000e-004</b> | <b>0.0000</b> | <b>8.4519</b> | <b>8.4519</b> | <b>3.2000e-004</b> | <b>0.0000</b> | <b>8.4599</b> |

**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 |                    |               |               |                    | 0.0245        | 0.0000             | 0.0245        | 0.0130         | 0.0000             | 0.0130        | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Off-Road      | 7.2600e-003        | 0.1484        | 0.1899        | 3.0000e-004        |               | 7.5600e-003        | 7.5600e-003   |                | 7.5600e-003        | 7.5600e-003   | 0.0000        | 26.0537        | 26.0537        | 8.4300e-003        | 0.0000        | 26.2643        |
| <b>Total</b>  | <b>7.2600e-003</b> | <b>0.1484</b> | <b>0.1899</b> | <b>3.0000e-004</b> | <b>0.0245</b> | <b>7.5600e-003</b> | <b>0.0321</b> | <b>0.0130</b>  | <b>7.5600e-003</b> | <b>0.0206</b> | <b>0.0000</b> | <b>26.0537</b> | <b>26.0537</b> | <b>8.4300e-003</b> | <b>0.0000</b> | <b>26.2643</b> |



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**3.4 Grading - 2021**

**Mitigated Construction Off-Site**

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 7.6000e-004        | 0.0264        | 5.5900e-003   | 8.0000e-005        | 1.6200e-003        | 1.0000e-004        | 1.7200e-003        | 4.4000e-004        | 9.0000e-005        | 5.4000e-004        | 0.0000        | 7.3562        | 7.3562        | 2.8000e-004        | 0.0000        | 7.3631        |
| 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        | 5.4000e-004   | 4.9600e-003   | 1.0000e-005        | 1.1900e-003        | 1.0000e-005        | 1.2000e-003        | 3.2000e-004        | 1.0000e-005        | 3.3000e-004        | 0.0000        | 1.0958        | 1.0958        | 4.0000e-005        | 0.0000        | 1.0969        |
| <b>Total</b> | <b>1.3700e-003</b> | <b>0.0269</b> | <b>0.0106</b> | <b>9.0000e-005</b> | <b>2.8100e-003</b> | <b>1.1000e-004</b> | <b>2.9200e-003</b> | <b>7.6000e-004</b> | <b>1.0000e-004</b> | <b>8.7000e-004</b> | <b>0.0000</b> | <b>8.4519</b> | <b>8.4519</b> | <b>3.2000e-004</b> | <b>0.0000</b> | <b>8.4599</b> |

**3.5 Building Construction - 2021**

**Unmitigated Construction On-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category     | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                 |                 |               |               |                 |
| Off-Road     | 0.0989        | 0.9065        | 0.8619        | 1.4000e-003        |               | 0.0499        | 0.0499        |                | 0.0469        | 0.0469        | 0.0000        | 120.4514        | 120.4514        | 0.0291        | 0.0000        | 121.1779        |
| <b>Total</b> | <b>0.0989</b> | <b>0.9065</b> | <b>0.8619</b> | <b>1.4000e-003</b> |               | <b>0.0499</b> | <b>0.0499</b> |                | <b>0.0469</b> | <b>0.0469</b> | <b>0.0000</b> | <b>120.4514</b> | <b>120.4514</b> | <b>0.0291</b> | <b>0.0000</b> | <b>121.1779</b> |

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**3.5 Building Construction - 2021**

**Unmitigated Construction Off-Site**

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|--------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category     | tons/yr            |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |                |                |                    |               |                |
| Hauling      | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Vendor       | 1.1500e-003        | 0.0354        | 9.3200e-003   | 9.0000e-005        | 2.0500e-003        | 1.1000e-004        | 2.1600e-003        | 5.9000e-004        | 1.0000e-004        | 7.0000e-004        | 0.0000        | 8.3892         | 8.3892         | 3.7000e-004        | 0.0000        | 8.3986         |
| Worker       | 3.1500e-003        | 2.8300e-003   | 0.0258        | 6.0000e-005        | 6.2000e-003        | 5.0000e-005        | 6.2500e-003        | 1.6500e-003        | 5.0000e-005        | 1.7000e-003        | 0.0000        | 5.6980         | 5.6980         | 2.3000e-004        | 0.0000        | 5.7037         |
| <b>Total</b> | <b>4.3000e-003</b> | <b>0.0383</b> | <b>0.0351</b> | <b>1.5000e-004</b> | <b>8.2500e-003</b> | <b>1.6000e-004</b> | <b>8.4100e-003</b> | <b>2.2400e-003</b> | <b>1.5000e-004</b> | <b>2.4000e-003</b> | <b>0.0000</b> | <b>14.0872</b> | <b>14.0872</b> | <b>6.0000e-004</b> | <b>0.0000</b> | <b>14.1022</b> |

**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     | 0.0350        | 0.7398        | 0.9294        | 1.4000e-003        |               | 0.0470        | 0.0470        |                | 0.0470        | 0.0470        | 0.0000        | 120.4512        | 120.4512        | 0.0291        | 0.0000        | 121.1777        |
| <b>Total</b> | <b>0.0350</b> | <b>0.7398</b> | <b>0.9294</b> | <b>1.4000e-003</b> |               | <b>0.0470</b> | <b>0.0470</b> |                | <b>0.0470</b> | <b>0.0470</b> | <b>0.0000</b> | <b>120.4512</b> | <b>120.4512</b> | <b>0.0291</b> | <b>0.0000</b> | <b>121.1777</b> |

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**3.5 Building Construction - 2021**

**Mitigated Construction Off-Site**

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|--------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category     | tons/yr            |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |                |                |                    |               |                |
| Hauling      | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Vendor       | 1.1500e-003        | 0.0354        | 9.3200e-003   | 9.0000e-005        | 2.0500e-003        | 1.1000e-004        | 2.1600e-003        | 5.9000e-004        | 1.0000e-004        | 7.0000e-004        | 0.0000        | 8.3892         | 8.3892         | 3.7000e-004        | 0.0000        | 8.3986         |
| Worker       | 3.1500e-003        | 2.8300e-003   | 0.0258        | 6.0000e-005        | 6.2000e-003        | 5.0000e-005        | 6.2500e-003        | 1.6500e-003        | 5.0000e-005        | 1.7000e-003        | 0.0000        | 5.6980         | 5.6980         | 2.3000e-004        | 0.0000        | 5.7037         |
| <b>Total</b> | <b>4.3000e-003</b> | <b>0.0383</b> | <b>0.0351</b> | <b>1.5000e-004</b> | <b>8.2500e-003</b> | <b>1.6000e-004</b> | <b>8.4100e-003</b> | <b>2.2400e-003</b> | <b>1.5000e-004</b> | <b>2.4000e-003</b> | <b>0.0000</b> | <b>14.0872</b> | <b>14.0872</b> | <b>6.0000e-004</b> | <b>0.0000</b> | <b>14.1022</b> |

**3.5 Building Construction - 2022**

**Unmitigated Construction On-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category     | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                 |                 |               |               |                 |
| Off-Road     | 0.1075        | 0.9838        | 1.0309        | 1.7000e-003        |               | 0.0510        | 0.0510        |                | 0.0480        | 0.0480        | 0.0000        | 145.9869        | 145.9869        | 0.0350        | 0.0000        | 146.8613        |
| <b>Total</b> | <b>0.1075</b> | <b>0.9838</b> | <b>1.0309</b> | <b>1.7000e-003</b> |               | <b>0.0510</b> | <b>0.0510</b> |                | <b>0.0480</b> | <b>0.0480</b> | <b>0.0000</b> | <b>145.9869</b> | <b>145.9869</b> | <b>0.0350</b> | <b>0.0000</b> | <b>146.8613</b> |

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**3.5 Building Construction - 2022**

**Unmitigated Construction Off-Site**

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category     | tons/yr            |               |               |                    |               |                    |               |                    |                    |                    | MT/yr         |                |                |                    |               |                |
| Hauling      | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Vendor       | 1.2800e-003        | 0.0406        | 0.0102        | 1.1000e-004        | 2.4900e-003   | 1.1000e-004        | 2.6000e-003   | 7.2000e-004        | 1.1000e-004        | 8.3000e-004        | 0.0000        | 10.0783        | 10.0783        | 4.4000e-004        | 0.0000        | 10.0892        |
| Worker       | 3.5400e-003        | 3.0700e-003   | 0.0285        | 7.0000e-005        | 7.5100e-003   | 6.0000e-005        | 7.5700e-003   | 2.0000e-003        | 6.0000e-005        | 2.0500e-003        | 0.0000        | 6.6604         | 6.6604         | 2.4000e-004        | 0.0000        | 6.6665         |
| <b>Total</b> | <b>4.8200e-003</b> | <b>0.0437</b> | <b>0.0388</b> | <b>1.8000e-004</b> | <b>0.0100</b> | <b>1.7000e-004</b> | <b>0.0102</b> | <b>2.7200e-003</b> | <b>1.7000e-004</b> | <b>2.8800e-003</b> | <b>0.0000</b> | <b>16.7387</b> | <b>16.7387</b> | <b>6.8000e-004</b> | <b>0.0000</b> | <b>16.7558</b> |

**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     | 0.0425        | 0.8962        | 1.1261        | 1.7000e-003        |               | 0.0569        | 0.0569        |                | 0.0569        | 0.0569        | 0.0000        | 145.9867        | 145.9867        | 0.0350        | 0.0000        | 146.8611        |
| <b>Total</b> | <b>0.0425</b> | <b>0.8962</b> | <b>1.1261</b> | <b>1.7000e-003</b> |               | <b>0.0569</b> | <b>0.0569</b> |                | <b>0.0569</b> | <b>0.0569</b> | <b>0.0000</b> | <b>145.9867</b> | <b>145.9867</b> | <b>0.0350</b> | <b>0.0000</b> | <b>146.8611</b> |

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**3.5 Building Construction - 2022****Mitigated Construction Off-Site**

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category     | tons/yr            |               |               |                    |               |                    |               |                    |                    |                    | MT/yr         |                |                |                    |               |                |
| Hauling      | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Vendor       | 1.2800e-003        | 0.0406        | 0.0102        | 1.1000e-004        | 2.4900e-003   | 1.1000e-004        | 2.6000e-003   | 7.2000e-004        | 1.1000e-004        | 8.3000e-004        | 0.0000        | 10.0783        | 10.0783        | 4.4000e-004        | 0.0000        | 10.0892        |
| Worker       | 3.5400e-003        | 3.0700e-003   | 0.0285        | 7.0000e-005        | 7.5100e-003   | 6.0000e-005        | 7.5700e-003   | 2.0000e-003        | 6.0000e-005        | 2.0500e-003        | 0.0000        | 6.6604         | 6.6604         | 2.4000e-004        | 0.0000        | 6.6665         |
| <b>Total</b> | <b>4.8200e-003</b> | <b>0.0437</b> | <b>0.0388</b> | <b>1.8000e-004</b> | <b>0.0100</b> | <b>1.7000e-004</b> | <b>0.0102</b> | <b>2.7200e-003</b> | <b>1.7000e-004</b> | <b>2.8800e-003</b> | <b>0.0000</b> | <b>16.7387</b> | <b>16.7387</b> | <b>6.8000e-004</b> | <b>0.0000</b> | <b>16.7558</b> |

**3.6 Paving - 2022****Unmitigated Construction On-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category     | tons/yr       |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |                |                |                    |               |                |
| Off-Road     | 0.0110        | 0.1113        | 0.1458        | 2.3000e-004        |               | 5.6800e-003        | 5.6800e-003        |                | 5.2200e-003        | 5.2200e-003        | 0.0000        | 20.0276        | 20.0276        | 6.4800e-003        | 0.0000        | 20.1895        |
| Paving       | 0.0000        |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| <b>Total</b> | <b>0.0110</b> | <b>0.1113</b> | <b>0.1458</b> | <b>2.3000e-004</b> |               | <b>5.6800e-003</b> | <b>5.6800e-003</b> |                | <b>5.2200e-003</b> | <b>5.2200e-003</b> | <b>0.0000</b> | <b>20.0276</b> | <b>20.0276</b> | <b>6.4800e-003</b> | <b>0.0000</b> | <b>20.1895</b> |

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**3.6 Paving - 2022**

**Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 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       | 5.6000e-004        | 4.9000e-004        | 4.5300e-003        | 1.0000e-005        | 1.1900e-003        | 1.0000e-005        | 1.2000e-003        | 3.2000e-004        | 1.0000e-005        | 3.3000e-004        | 0.0000        | 1.0572        | 1.0572        | 4.0000e-005        | 0.0000        | 1.0582        |
| <b>Total</b> | <b>5.6000e-004</b> | <b>4.9000e-004</b> | <b>4.5300e-003</b> | <b>1.0000e-005</b> | <b>1.1900e-003</b> | <b>1.0000e-005</b> | <b>1.2000e-003</b> | <b>3.2000e-004</b> | <b>1.0000e-005</b> | <b>3.3000e-004</b> | <b>0.0000</b> | <b>1.0572</b> | <b>1.0572</b> | <b>4.0000e-005</b> | <b>0.0000</b> | <b>1.0582</b> |

**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     | 5.6100e-003        | 0.1130        | 0.1730        | 2.3000e-004        |               | 6.0900e-003        | 6.0900e-003        |                | 6.0900e-003        | 6.0900e-003        | 0.0000        | 20.0275        | 20.0275        | 6.4800e-003        | 0.0000        | 20.1895        |
| Paving       | 0.0000             |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| <b>Total</b> | <b>5.6100e-003</b> | <b>0.1130</b> | <b>0.1730</b> | <b>2.3000e-004</b> |               | <b>6.0900e-003</b> | <b>6.0900e-003</b> |                | <b>6.0900e-003</b> | <b>6.0900e-003</b> | <b>0.0000</b> | <b>20.0275</b> | <b>20.0275</b> | <b>6.4800e-003</b> | <b>0.0000</b> | <b>20.1895</b> |

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**3.6 Paving - 2022**

**Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 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       | 5.6000e-004        | 4.9000e-004        | 4.5300e-003        | 1.0000e-005        | 1.1900e-003        | 1.0000e-005        | 1.2000e-003        | 3.2000e-004        | 1.0000e-005        | 3.3000e-004        | 0.0000        | 1.0572        | 1.0572        | 4.0000e-005        | 0.0000        | 1.0582        |
| <b>Total</b> | <b>5.6000e-004</b> | <b>4.9000e-004</b> | <b>4.5300e-003</b> | <b>1.0000e-005</b> | <b>1.1900e-003</b> | <b>1.0000e-005</b> | <b>1.2000e-003</b> | <b>3.2000e-004</b> | <b>1.0000e-005</b> | <b>3.3000e-004</b> | <b>0.0000</b> | <b>1.0572</b> | <b>1.0572</b> | <b>4.0000e-005</b> | <b>0.0000</b> | <b>1.0582</b> |

**3.7 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

|                 | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|-----------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category        | tons/yr       |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Archit. Coating | 0.2503        |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road        | 2.0500e-003   | 0.0141        | 0.0181        | 3.0000e-005        |               | 8.2000e-004        | 8.2000e-004        |                | 8.2000e-004        | 8.2000e-004        | 0.0000        | 2.5533        | 2.5533        | 1.7000e-004        | 0.0000        | 2.5574        |
| <b>Total</b>    | <b>0.2523</b> | <b>0.0141</b> | <b>0.0181</b> | <b>3.0000e-005</b> |               | <b>8.2000e-004</b> | <b>8.2000e-004</b> |                | <b>8.2000e-004</b> | <b>8.2000e-004</b> | <b>0.0000</b> | <b>2.5533</b> | <b>2.5533</b> | <b>1.7000e-004</b> | <b>0.0000</b> | <b>2.5574</b> |

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**3.7 Architectural Coating - 2022**

**Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2           | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |               |                    |               |                    |                    |               |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 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       | 1.1000e-004        | 1.0000e-004        | 9.1000e-004        | 0.0000        | 2.4000e-004        | 0.0000        | 2.4000e-004        | 6.0000e-005        | 0.0000        | 7.0000e-005        | 0.0000        | 0.2114        | 0.2114        | 1.0000e-005        | 0.0000        | 0.2116        |
| <b>Total</b> | <b>1.1000e-004</b> | <b>1.0000e-004</b> | <b>9.1000e-004</b> | <b>0.0000</b> | <b>2.4000e-004</b> | <b>0.0000</b> | <b>2.4000e-004</b> | <b>6.0000e-005</b> | <b>0.0000</b> | <b>7.0000e-005</b> | <b>0.0000</b> | <b>0.2114</b> | <b>0.2114</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.2116</b> |

**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 | 0.2503        |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road        | 5.9000e-004   | 0.0136        | 0.0183        | 3.0000e-005        |               | 9.5000e-004        | 9.5000e-004        |                | 9.5000e-004        | 9.5000e-004        | 0.0000        | 2.5533        | 2.5533        | 1.7000e-004        | 0.0000        | 2.5574        |
| <b>Total</b>    | <b>0.2509</b> | <b>0.0136</b> | <b>0.0183</b> | <b>3.0000e-005</b> |               | <b>9.5000e-004</b> | <b>9.5000e-004</b> |                | <b>9.5000e-004</b> | <b>9.5000e-004</b> | <b>0.0000</b> | <b>2.5533</b> | <b>2.5533</b> | <b>1.7000e-004</b> | <b>0.0000</b> | <b>2.5574</b> |



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**3.7 Architectural Coating - 2022**

**Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2           | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |               |                    |               |                    |                    |               |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 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       | 1.1000e-004        | 1.0000e-004        | 9.1000e-004        | 0.0000        | 2.4000e-004        | 0.0000        | 2.4000e-004        | 6.0000e-005        | 0.0000        | 7.0000e-005        | 0.0000        | 0.2114        | 0.2114        | 1.0000e-005        | 0.0000        | 0.2116        |
| <b>Total</b> | <b>1.1000e-004</b> | <b>1.0000e-004</b> | <b>9.1000e-004</b> | <b>0.0000</b> | <b>2.4000e-004</b> | <b>0.0000</b> | <b>2.4000e-004</b> | <b>6.0000e-005</b> | <b>0.0000</b> | <b>7.0000e-005</b> | <b>0.0000</b> | <b>0.2114</b> | <b>0.2114</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.2116</b> |

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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|             | ROG     | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e     |
|-------------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| Category    | tons/yr |        |        |             |               |              |            |                |               |             | MT/yr    |           |           |        |        |          |
| Mitigated   | 0.1214  | 0.4813 | 1.2656 | 3.5900e-003 | 0.2807        | 3.0400e-003  | 0.2838     | 0.0754         | 2.8300e-003   | 0.0782      | 0.0000   | 328.8882  | 328.8882  | 0.0164 | 0.0000 | 329.2974 |
| Unmitigated | 0.1214  | 0.4813 | 1.2656 | 3.5900e-003 | 0.2807        | 3.0400e-003  | 0.2838     | 0.0754         | 2.8300e-003   | 0.0782      | 0.0000   | 328.8882  | 328.8882  | 0.0164 | 0.0000 | 329.2974 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|----------|-------------------------|----------|--------|-------------|------------|
|          | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| Arena    | 385.56                  | 385.56   | 385.56 | 748,734     | 748,734    |
| Total    | 385.56                  | 385.56   | 385.56 | 748,734     | 748,734    |

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 |
| Arena    | 9.50       | 7.30       | 7.30        | 0.00       | 81.00      | 19.00       | 66             | 28       | 6       |

4.4 Fleet Mix

| Land Use | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Arena    | 0.548528 | 0.027912 | 0.206330 | 0.127577 | 0.020437 | 0.005268 | 0.019586 | 0.027922 | 0.004162 | 0.002641 | 0.007642 | 0.001233 | 0.000761 |

5.0 Energy Detail

Historical Energy Use: N

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**5.1 Mitigation Measures Energy**

Exceed Title 24

Install High Efficiency Lighting

|                         | ROG         | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e    |
|-------------------------|-------------|--------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|---------|
| Category                | tons/yr     |        |        |             |               |              |             |                |               |             | MT/yr    |           |           |             |             |         |
| Electricity Mitigated   |             |        |        |             |               | 0.0000       | 0.0000      |                | 0.0000        | 0.0000      | 0.0000   | 38.8411   | 38.8411   | 1.7700e-003 | 3.5000e-004 | 38.9911 |
| Electricity Unmitigated |             |        |        |             |               | 0.0000       | 0.0000      |                | 0.0000        | 0.0000      | 0.0000   | 44.1425   | 44.1425   | 2.0200e-003 | 4.0000e-004 | 44.3129 |
| NaturalGas Mitigated    | 4.1800e-003 | 0.0380 | 0.0319 | 2.3000e-004 |               | 2.8800e-003  | 2.8800e-003 |                | 2.8800e-003   | 2.8800e-003 | 0.0000   | 41.3228   | 41.3228   | 7.9000e-004 | 7.6000e-004 | 41.5684 |
| NaturalGas Unmitigated  | 5.4100e-003 | 0.0492 | 0.0413 | 3.0000e-004 |               | 3.7400e-003  | 3.7400e-003 |                | 3.7400e-003   | 3.7400e-003 | 0.0000   | 53.5410   | 53.5410   | 1.0300e-003 | 9.8000e-004 | 53.8591 |

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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        | tons/yr            |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |                |                |                    |                    |                |
| Arena        | 1.00332e+006   | 5.4100e-003        | 0.0492        | 0.0413        | 3.0000e-004        |               | 3.7400e-003        | 3.7400e-003        |                | 3.7400e-003        | 3.7400e-003        | 0.0000        | 53.5410        | 53.5410        | 1.0300e-003        | 9.8000e-004        | 53.8591        |
| <b>Total</b> |                | <b>5.4100e-003</b> | <b>0.0492</b> | <b>0.0413</b> | <b>3.0000e-004</b> |               | <b>3.7400e-003</b> | <b>3.7400e-003</b> |                | <b>3.7400e-003</b> | <b>3.7400e-003</b> | <b>0.0000</b> | <b>53.5410</b> | <b>53.5410</b> | <b>1.0300e-003</b> | <b>9.8000e-004</b> | <b>53.8591</b> |

**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         |                |                |                    |                    |                |
| Arena        | 774360         | 4.1800e-003        | 0.0380        | 0.0319        | 2.3000e-004        |               | 2.8800e-003        | 2.8800e-003        |                | 2.8800e-003        | 2.8800e-003        | 0.0000        | 41.3228        | 41.3228        | 7.9000e-004        | 7.6000e-004        | 41.5684        |
| <b>Total</b> |                | <b>4.1800e-003</b> | <b>0.0380</b> | <b>0.0319</b> | <b>2.3000e-004</b> |               | <b>2.8800e-003</b> | <b>2.8800e-003</b> |                | <b>2.8800e-003</b> | <b>2.8800e-003</b> | <b>0.0000</b> | <b>41.3228</b> | <b>41.3228</b> | <b>7.9000e-004</b> | <b>7.6000e-004</b> | <b>41.5684</b> |

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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          |                    |                    |                |
| Arena        | 222120          | 44.1425        | 2.0200e-003        | 4.0000e-004        | 44.3129        |
| <b>Total</b> |                 | <b>44.1425</b> | <b>2.0200e-003</b> | <b>4.0000e-004</b> | <b>44.3129</b> |

**Mitigated**

|              | Electricity Use | Total CO2      | CH4                | N2O                | CO2e           |
|--------------|-----------------|----------------|--------------------|--------------------|----------------|
| Land Use     | kWh/yr          | MT/yr          |                    |                    |                |
| Arena        | 195444          | 38.8411        | 1.7700e-003        | 3.5000e-004        | 38.9911        |
| <b>Total</b> |                 | <b>38.8411</b> | <b>1.7700e-003</b> | <b>3.5000e-004</b> | <b>38.9911</b> |

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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|             | ROG     | NOx    | CO          | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2   | CH4    | N2O    | CO2e        |
|-------------|---------|--------|-------------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
| Category    | tons/yr |        |             |        |               |              |            |                |               |             | MT/yr    |             |             |        |        |             |
| Mitigated   | 0.1657  | 0.0000 | 4.6000e-004 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 8.9000e-004 | 8.9000e-004 | 0.0000 | 0.0000 | 9.5000e-004 |
| Unmitigated | 0.1657  | 0.0000 | 4.6000e-004 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 8.9000e-004 | 8.9000e-004 | 0.0000 | 0.0000 | 9.5000e-004 |

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 | 0.0250        |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             |
| Consumer Products     | 0.1406        |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             |
| Landscaping           | 4.0000e-005   | 0.0000        | 4.6000e-004        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 8.9000e-004        | 8.9000e-004        | 0.0000        | 0.0000        | 9.5000e-004        |
| <b>Total</b>          | <b>0.1657</b> | <b>0.0000</b> | <b>4.6000e-004</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>8.9000e-004</b> | <b>8.9000e-004</b> | <b>0.0000</b> | <b>0.0000</b> | <b>9.5000e-004</b> |

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**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 | 0.0250        |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             |
| Consumer Products     | 0.1406        |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             |
| Landscaping           | 4.0000e-005   | 0.0000        | 4.6000e-004        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 8.9000e-004        | 8.9000e-004        | 0.0000        | 0.0000        | 9.5000e-004        |
| <b>Total</b>          | <b>0.1657</b> | <b>0.0000</b> | <b>4.6000e-004</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>8.9000e-004</b> | <b>8.9000e-004</b> | <b>0.0000</b> | <b>0.0000</b> | <b>9.5000e-004</b> |

**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

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|             | Total CO2 | CH4         | N2O         | CO2e   |
|-------------|-----------|-------------|-------------|--------|
| Category    | MT/yr     |             |             |        |
| Mitigated   | 0.1100    | 2.5800e-003 | 6.0000e-005 | 0.1928 |
| Unmitigated | 0.1375    | 3.2200e-003 | 8.0000e-005 | 0.2410 |

**7.2 Water by Land Use**

**Unmitigated**

|              | Indoor/Outdoor Use | Total CO2     | CH4                | N2O                | CO2e          |
|--------------|--------------------|---------------|--------------------|--------------------|---------------|
| Land Use     | Mgal               | MT/yr         |                    |                    |               |
| Arena        | 0.098759 / 40      | 0.1375        | 3.2200e-003        | 8.0000e-005        | 0.2410        |
| <b>Total</b> |                    | <b>0.1375</b> | <b>3.2200e-003</b> | <b>8.0000e-005</b> | <b>0.2410</b> |



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**7.2 Water by Land Use**

**Mitigated**

|              | Indoor/Outdoor Use | Total CO2     | CH4                | N2O                | CO2e          |
|--------------|--------------------|---------------|--------------------|--------------------|---------------|
| Land Use     | Mgal               | MT/yr         |                    |                    |               |
| Arena        | 0.0790072 / 0      | 0.1100        | 2.5800e-003        | 6.0000e-005        | 0.1928        |
| <b>Total</b> |                    | <b>0.1100</b> | <b>2.5800e-003</b> | <b>6.0000e-005</b> | <b>0.1928</b> |

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

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**Category/Year**

|             | Total CO2 | CH4         | N2O    | CO2e   |
|-------------|-----------|-------------|--------|--------|
|             | MT/yr     |             |        |        |
| Mitigated   | 0.0502    | 2.9700e-003 | 0.0000 | 0.1245 |
| Unmitigated | 0.2010    | 0.0119      | 0.0000 | 0.4979 |

**8.2 Waste by Land Use**

**Unmitigated**

|              | Waste Disposed | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|----------------|---------------|---------------|---------------|---------------|
| Land Use     | tons           | MT/yr         |               |               |               |
| Arena        | 0.99           | 0.2010        | 0.0119        | 0.0000        | 0.4979        |
| <b>Total</b> |                | <b>0.2010</b> | <b>0.0119</b> | <b>0.0000</b> | <b>0.4979</b> |

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**8.2 Waste by Land Use**

**Mitigated**

|              | Waste Disposed | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|----------------|---------------|--------------------|---------------|---------------|
| Land Use     | tons           | MT/yr         |                    |               |               |
| Arena        | 0.2475         | 0.0502        | 2.9700e-003        | 0.0000        | 0.1245        |
| <b>Total</b> |                | <b>0.0502</b> | <b>2.9700e-003</b> | <b>0.0000</b> | <b>0.1245</b> |

**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**

Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay - Monterey County, Annual

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Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay - Monterey County, Summer

**Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay  
Monterey County, Summer**

**1.0 Project Characteristics**

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**1.1 Land Usage**

| Land Uses | Size  | Metric   | Lot Acreage | Floor Surface Area | Population |
|-----------|-------|----------|-------------|--------------------|------------|
| Arena     | 36.00 | 1000sqft | 5.72        | 36,000.00          | 6140       |

**1.2 Other Project Characteristics**

|                                 |                                |                                 |      |                                  |       |
|---------------------------------|--------------------------------|---------------------------------|------|----------------------------------|-------|
| <b>Urbanization</b>             | Urban                          | <b>Wind Speed (m/s)</b>         | 3.6  | <b>Precipitation Freq (Days)</b> | 55    |
| <b>Climate Zone</b>             | 4                              |                                 |      | <b>Operational Year</b>          | 2023  |
| <b>Utility Company</b>          | Pacific Gas & Electric Company |                                 |      |                                  |       |
| <b>CO2 Intensity (lb/MW hr)</b> | 438.13                         | <b>CH4 Intensity (lb/MW hr)</b> | 0.02 | <b>N2O Intensity (lb/MW hr)</b>  | 0.004 |

**1.3 User Entered Comments & Non-Default Data**

Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay - Monterey County, Summer

Project Characteristics - Utility intensity factors reflect Senate Bill 100 (2018) Renewables Portfolio Standard program.

Land Use - The project site is 5.72 acres. An estimated 130-140 match-related personnel (i.e., staff, coaches, players) and 6,000 ticketed and seated fan capacity are expected for home matches.

Grading - Construction would result in approximately 1,530 cubic yards (CY) of cut and would not require any fill. Approximately 4.8 acres would be graded, but not more than 2 acres would be graded daily.

Demolition - Renovations to the existing Field House facility would require the demolition and disturbance of 2,000 SF.

Energy Use - The lights operate approximately 25 hours per month (300 hours per year) and produce 118.44 KW and 2,960 Kwh/month. The existing field house is connected to natural gas for heating and would require approximately 367,000 BTUh of natural gas per hour during project operations.

Water And Wastewater - The proposed project would require approximately 98,759 gallons per year or approximately 0.3 acre feet per year (AFY) for new uses of existing showers, water closets, urinals, lavatories, and service sinks. The existing field would be replaced with synthetic turf with sand rubber infill and would not require additional water.

Construction Off-road Equipment Mitigation - Monterey Bay Air Resources District (MBARD) Feasible Construction Emissions Mitigations.

Energy Mitigation - Nonresidential buildings will use about 30 percent less energy due mainly to lighting upgrades.

Water Mitigation - Low-flow indoor water use.

Waste Mitigation - CalRecycle Requirements (State of California).

| Table Name              | Column Name                  | Default Value | New Value |
|-------------------------|------------------------------|---------------|-----------|
| tblConstDustMitigation  | WaterUnpavedRoadVehicleSpeed | 0             | 15        |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 1.00      |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 4.00      |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 1.00      |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 1.00      |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 3.00      |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 1.00      |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 2.00      |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 2.00      |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 6.00      |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 10.00     |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 1.00      |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 2.00      |

## Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay - Monterey County, Summer

|                           |                            |               |           |
|---------------------------|----------------------------|---------------|-----------|
| tblConstEquipMitigation   | NumberOfEquipmentMitigated | 0.00          | 1.00      |
| tblConstEquipMitigation   | Tier                       | No Change     | Tier 3    |
| tblConstEquipMitigation   | Tier                       | No Change     | Tier 3    |
| tblConstEquipMitigation   | Tier                       | No Change     | Tier 3    |
| tblConstEquipMitigation   | Tier                       | No Change     | Tier 3    |
| tblConstEquipMitigation   | Tier                       | No Change     | Tier 3    |
| tblConstEquipMitigation   | Tier                       | No Change     | Tier 3    |
| tblConstEquipMitigation   | Tier                       | No Change     | Tier 3    |
| tblConstEquipMitigation   | Tier                       | No Change     | Tier 3    |
| tblConstEquipMitigation   | Tier                       | No Change     | Tier 3    |
| tblConstEquipMitigation   | Tier                       | No Change     | Tier 3    |
| tblConstEquipMitigation   | Tier                       | No Change     | Tier 3    |
| tblConstEquipMitigation   | Tier                       | No Change     | Tier 3    |
| tblConstEquipMitigation   | Tier                       | No Change     | Tier 3    |
| tblEnergyUse              | LightingElect              | 3.08          | 0.99      |
| tblEnergyUse              | T24NG                      | 19.71         | 21.20     |
| tblGrading                | AcresOfGrading             | 10.00         | 4.80      |
| tblGrading                | MaterialExported           | 0.00          | 1,530.00  |
| tblLandUse                | LotAcreage                 | 11.57         | 5.72      |
| tblLandUse                | Population                 | 0.00          | 6,140.00  |
| tblProjectCharacteristics | CH4IntensityFactor         | 0.029         | 0.02      |
| tblProjectCharacteristics | CO2IntensityFactor         | 641.35        | 438.13    |
| tblProjectCharacteristics | N2OIntensityFactor         | 0.006         | 0.004     |
| tblWater                  | IndoorWaterUseRate         | 15,507,724.23 | 98,759.00 |
| tblWater                  | OutdoorWaterUseRate        | 989,854.74    | 0.00      |

## 2.0 Emissions Summary

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Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay - Monterey County, 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         | 0.9079        | 3.0000e-005   | 3.6800e-003   | 0.0000        |               | 1.0000e-005   | 1.0000e-005   |                | 1.0000e-005   | 1.0000e-005   |          | 7.8800e-003       | 7.8800e-003       | 2.0000e-005   |                    | 8.4000e-003       |
| Energy       | 0.0296        | 0.2695        | 0.2264        | 1.6200e-003   |               | 0.0205        | 0.0205        |                | 0.0205        | 0.0205        |          | 323.3908          | 323.3908          | 6.2000e-003   | 5.9300e-003        | 325.3126          |
| Mobile       | 0.7263        | 2.5459        | 6.9691        | 0.0206        | 1.5936        | 0.0167        | 1.6103        | 0.4268         | 0.0156        | 0.4423        |          | 2,087.0490        | 2,087.0490        | 0.0993        |                    | 2,089.5316        |
| <b>Total</b> | <b>1.6639</b> | <b>2.8155</b> | <b>7.1992</b> | <b>0.0223</b> | <b>1.5936</b> | <b>0.0372</b> | <b>1.6308</b> | <b>0.4268</b>  | <b>0.0361</b> | <b>0.4628</b> |          | <b>2,410.4477</b> | <b>2,410.4477</b> | <b>0.1055</b> | <b>5.9300e-003</b> | <b>2,414.8526</b> |

**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         | 0.9079        | 3.0000e-005   | 3.6800e-003   | 0.0000        |               | 1.0000e-005   | 1.0000e-005   |                | 1.0000e-005   | 1.0000e-005   |          | 7.8800e-003       | 7.8800e-003       | 2.0000e-005   |                    | 8.4000e-003       |
| Energy       | 0.0229        | 0.2080        | 0.1747        | 1.2500e-003   |               | 0.0158        | 0.0158        |                | 0.0158        | 0.0158        |          | 249.5923          | 249.5923          | 4.7800e-003   | 4.5800e-003        | 251.0755          |
| Mobile       | 0.7263        | 2.5459        | 6.9691        | 0.0206        | 1.5936        | 0.0167        | 1.6103        | 0.4268         | 0.0156        | 0.4423        |          | 2,087.0490        | 2,087.0490        | 0.0993        |                    | 2,089.5316        |
| <b>Total</b> | <b>1.6571</b> | <b>2.7540</b> | <b>7.1475</b> | <b>0.0219</b> | <b>1.5936</b> | <b>0.0325</b> | <b>1.6261</b> | <b>0.4268</b>  | <b>0.0314</b> | <b>0.4582</b> |          | <b>2,336.6491</b> | <b>2,336.6491</b> | <b>0.1041</b> | <b>4.5800e-003</b> | <b>2,340.6155</b> |

## Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay - Monterey County, Summer

|                   | ROG  | NOx  | CO   | SO2  | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4  | N2O   | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|-------|------|
| Percent Reduction | 0.41 | 2.18 | 0.72 | 1.66 | 0.00          | 12.56        | 0.29       | 0.00           | 12.95         | 1.01        | 0.00     | 3.06     | 3.06      | 1.35 | 22.77 | 3.07 |

### 3.0 Construction Detail

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#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1            | Demolition            | Demolition            | 6/1/2021   | 6/28/2021 | 5             | 20       |                   |
| 2            | Site Preparation      | Site Preparation      | 6/29/2021  | 7/12/2021 | 5             | 10       |                   |
| 3            | Grading               | Grading               | 7/13/2021  | 8/9/2021  | 5             | 20       |                   |
| 4            | Building Construction | Building Construction | 8/10/2021  | 6/27/2022 | 5             | 230      |                   |
| 5            | Paving                | Paving                | 6/28/2022  | 7/25/2022 | 5             | 20       |                   |
| 6            | Architectural Coating | Architectural Coating | 7/26/2022  | 8/22/2022 | 5             | 20       |                   |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4.8

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 54,000; Non-Residential Outdoor: 18,000; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay - Monterey County, Summer

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

**Trips and VMT**

Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay - Monterey County, Summer

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition            | 6                       | 15.00              | 0.00               | 9.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| 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               | 191.00              | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 9                       | 15.00              | 6.00               | 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                       | 3.00               | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

**3.2 Demolition - 2021**

**Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 0.1030        | 0.0000        | 0.1030        | 0.0156         | 0.0000        | 0.0156        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 3.1651        | 31.4407        | 21.5650        | 0.0388        |               | 1.5513        | 1.5513        |                | 1.4411        | 1.4411        |          | 3,747.9449        | 3,747.9449        | 1.0549        |     | 3,774.3174        |
| <b>Total</b>  | <b>3.1651</b> | <b>31.4407</b> | <b>21.5650</b> | <b>0.0388</b> | <b>0.1030</b> | <b>1.5513</b> | <b>1.6543</b> | <b>0.0156</b>  | <b>1.4411</b> | <b>1.4567</b> |          | <b>3,747.9449</b> | <b>3,747.9449</b> | <b>1.0549</b> |     | <b>3,774.3174</b> |

Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay - Monterey County, Summer

**3.2 Demolition - 2021**

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 3.5300e-003   | 0.1219        | 0.0255        | 3.6000e-004        | 7.8500e-003   | 4.6000e-004        | 8.3100e-003   | 2.1500e-003    | 4.4000e-004        | 2.5900e-003   |          | 38.5311         | 38.5311         | 1.3900e-003        |     | 38.5658         |
| 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       | 0.0611        | 0.0476        | 0.5250        | 1.2900e-003        | 0.1232        | 1.0300e-003        | 0.1243        | 0.0327         | 9.5000e-004        | 0.0336        |          | 128.2544        | 128.2544        | 5.0500e-003        |     | 128.3808        |
| <b>Total</b> | <b>0.0646</b> | <b>0.1695</b> | <b>0.5505</b> | <b>1.6500e-003</b> | <b>0.1311</b> | <b>1.4900e-003</b> | <b>0.1326</b> | <b>0.0348</b>  | <b>1.3900e-003</b> | <b>0.0362</b> |          | <b>166.7855</b> | <b>166.7855</b> | <b>6.4400e-003</b> |     | <b>166.9466</b> |

**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 |               |                |                |               | 0.0402        | 0.0000        | 0.0402        | 6.0800e-003        | 0.0000        | 6.0800e-003   |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 0.9246        | 18.3130        | 24.6739        | 0.0388        |               | 0.8627        | 0.8627        |                    | 0.8627        | 0.8627        | 0.0000        | 3,747.9449        | 3,747.9449        | 1.0549        |     | 3,774.3174        |
| <b>Total</b>  | <b>0.9246</b> | <b>18.3130</b> | <b>24.6739</b> | <b>0.0388</b> | <b>0.0402</b> | <b>0.8627</b> | <b>0.9029</b> | <b>6.0800e-003</b> | <b>0.8627</b> | <b>0.8688</b> | <b>0.0000</b> | <b>3,747.9449</b> | <b>3,747.9449</b> | <b>1.0549</b> |     | <b>3,774.3174</b> |

Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay - Monterey County, Summer

**3.2 Demolition - 2021**

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 3.5300e-003   | 0.1219        | 0.0255        | 3.6000e-004        | 7.8500e-003   | 4.6000e-004        | 8.3100e-003   | 2.1500e-003    | 4.4000e-004        | 2.5900e-003   |          | 38.5311         | 38.5311         | 1.3900e-003        |     | 38.5658         |
| 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       | 0.0611        | 0.0476        | 0.5250        | 1.2900e-003        | 0.1232        | 1.0300e-003        | 0.1243        | 0.0327         | 9.5000e-004        | 0.0336        |          | 128.2544        | 128.2544        | 5.0500e-003        |     | 128.3808        |
| <b>Total</b> | <b>0.0646</b> | <b>0.1695</b> | <b>0.5505</b> | <b>1.6500e-003</b> | <b>0.1311</b> | <b>1.4900e-003</b> | <b>0.1326</b> | <b>0.0348</b>  | <b>1.3900e-003</b> | <b>0.0362</b> |          | <b>166.7855</b> | <b>166.7855</b> | <b>6.4400e-003</b> |     | <b>166.9466</b> |

**3.3 Site Preparation - 2021**

**Unmitigated Construction On-Site**

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

Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay - Monterey County, Summer

**3.3 Site Preparation - 2021**

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 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       | 0.0733        | 0.0571        | 0.6300        | 1.5500e-003        | 0.1479        | 1.2300e-003        | 0.1491        | 0.0392         | 1.1400e-003        | 0.0404        |          | 153.9053        | 153.9053        | 6.0600e-003        |     | 154.0569        |
| <b>Total</b> | <b>0.0733</b> | <b>0.0571</b> | <b>0.6300</b> | <b>1.5500e-003</b> | <b>0.1479</b> | <b>1.2300e-003</b> | <b>0.1491</b> | <b>0.0392</b>  | <b>1.1400e-003</b> | <b>0.0404</b> |          | <b>153.9053</b> | <b>153.9053</b> | <b>6.0600e-003</b> |     | <b>154.0569</b> |

**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 |               |                |                |               | 7.0458        | 0.0000        | 7.0458        | 3.8730         | 0.0000        | 3.8730        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 0.9312        | 19.0656        | 22.9600        | 0.0380        |               | 0.9462        | 0.9462        |                | 0.9462        | 0.9462        | 0.0000        | 3,685.6569        | 3,685.6569        | 1.1920        |     | 3,715.4573        |
| <b>Total</b>  | <b>0.9312</b> | <b>19.0656</b> | <b>22.9600</b> | <b>0.0380</b> | <b>7.0458</b> | <b>0.9462</b> | <b>7.9920</b> | <b>3.8730</b>  | <b>0.9462</b> | <b>4.8191</b> | <b>0.0000</b> | <b>3,685.6569</b> | <b>3,685.6569</b> | <b>1.1920</b> |     | <b>3,715.4573</b> |

Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay - Monterey County, Summer

**3.3 Site Preparation - 2021**

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 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       | 0.0733        | 0.0571        | 0.6300        | 1.5500e-003        | 0.1479        | 1.2300e-003        | 0.1491        | 0.0392         | 1.1400e-003        | 0.0404        |          | 153.9053        | 153.9053        | 6.0600e-003        |     | 154.0569        |
| <b>Total</b> | <b>0.0733</b> | <b>0.0571</b> | <b>0.6300</b> | <b>1.5500e-003</b> | <b>0.1479</b> | <b>1.2300e-003</b> | <b>0.1491</b> | <b>0.0392</b>  | <b>1.1400e-003</b> | <b>0.0404</b> |          | <b>153.9053</b> | <b>153.9053</b> | <b>6.0600e-003</b> |     | <b>154.0569</b> |

**3.4 Grading - 2021**

**Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 6.2930        | 0.0000        | 6.2930        | 3.3402         | 0.0000        | 3.3402        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.2903        | 24.7367        | 15.8575        | 0.0296        |               | 1.1599        | 1.1599        |                | 1.0671        | 1.0671        |          | 2,871.9285        | 2,871.9285        | 0.9288        |     | 2,895.1495        |
| <b>Total</b>  | <b>2.2903</b> | <b>24.7367</b> | <b>15.8575</b> | <b>0.0296</b> | <b>6.2930</b> | <b>1.1599</b> | <b>7.4529</b> | <b>3.3402</b>  | <b>1.0671</b> | <b>4.4073</b> |          | <b>2,871.9285</b> | <b>2,871.9285</b> | <b>0.9288</b> |     | <b>2,895.1495</b> |



Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay - Monterey County, Summer

**3.4 Grading - 2021**

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0749        | 2.5861        | 0.5407        | 7.7200e-003        | 0.1666        | 9.7000e-003   | 0.1763        | 0.0456         | 9.2800e-003   | 0.0549        |          | 817.7147        | 817.7147        | 0.0295        |     | 818.4527        |
| 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       | 0.0611        | 0.0476        | 0.5250        | 1.2900e-003        | 0.1232        | 1.0300e-003   | 0.1243        | 0.0327         | 9.5000e-004   | 0.0336        |          | 128.2544        | 128.2544        | 5.0500e-003   |     | 128.3808        |
| <b>Total</b> | <b>0.1360</b> | <b>2.6337</b> | <b>1.0657</b> | <b>9.0100e-003</b> | <b>0.2898</b> | <b>0.0107</b> | <b>0.3006</b> | <b>0.0783</b>  | <b>0.0102</b> | <b>0.0886</b> |          | <b>945.9691</b> | <b>945.9691</b> | <b>0.0346</b> |     | <b>946.8335</b> |

**Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 2.4543        | 0.0000        | 2.4543        | 1.3027         | 0.0000        | 1.3027        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 0.7263        | 14.8397        | 18.9906        | 0.0296        |               | 0.7555        | 0.7555        |                | 0.7555        | 0.7555        | 0.0000        | 2,871.9285        | 2,871.9285        | 0.9288        |     | 2,895,1495        |
| <b>Total</b>  | <b>0.7263</b> | <b>14.8397</b> | <b>18.9906</b> | <b>0.0296</b> | <b>2.4543</b> | <b>0.7555</b> | <b>3.2098</b> | <b>1.3027</b>  | <b>0.7555</b> | <b>2.0582</b> | <b>0.0000</b> | <b>2,871.9285</b> | <b>2,871.9285</b> | <b>0.9288</b> |     | <b>2,895,1495</b> |

Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay - Monterey County, Summer

**3.4 Grading - 2021**

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0749        | 2.5861        | 0.5407        | 7.7200e-003        | 0.1666        | 9.7000e-003   | 0.1763        | 0.0456         | 9.2800e-003   | 0.0549        |          | 817.7147        | 817.7147        | 0.0295        |     | 818.4527        |
| 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       | 0.0611        | 0.0476        | 0.5250        | 1.2900e-003        | 0.1232        | 1.0300e-003   | 0.1243        | 0.0327         | 9.5000e-004   | 0.0336        |          | 128.2544        | 128.2544        | 5.0500e-003   |     | 128.3808        |
| <b>Total</b> | <b>0.1360</b> | <b>2.6337</b> | <b>1.0657</b> | <b>9.0100e-003</b> | <b>0.2898</b> | <b>0.0107</b> | <b>0.3006</b> | <b>0.0783</b>  | <b>0.0102</b> | <b>0.0886</b> |          | <b>945.9691</b> | <b>945.9691</b> | <b>0.0346</b> |     | <b>946.8335</b> |

**3.5 Building Construction - 2021**

**Unmitigated Construction On-Site**

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

Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay - Monterey County, Summer

**3.5 Building Construction - 2021**

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0216        | 0.6735        | 0.1679        | 1.7100e-003        | 0.0406        | 2.0500e-003        | 0.0426        | 0.0117         | 1.9600e-003        | 0.0137        |          | 180.0513        | 180.0513        | 7.6100e-003   |     | 180.2415        |
| Worker       | 0.0611        | 0.0476        | 0.5250        | 1.2900e-003        | 0.1232        | 1.0300e-003        | 0.1243        | 0.0327         | 9.5000e-004        | 0.0336        |          | 128.2544        | 128.2544        | 5.0500e-003   |     | 128.3808        |
| <b>Total</b> | <b>0.0827</b> | <b>0.7211</b> | <b>0.6929</b> | <b>3.0000e-003</b> | <b>0.1638</b> | <b>3.0800e-003</b> | <b>0.1669</b> | <b>0.0444</b>  | <b>2.9100e-003</b> | <b>0.0473</b> |          | <b>308.3057</b> | <b>308.3057</b> | <b>0.0127</b> |     | <b>308.6222</b> |

**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     | 0.6739        | 14.2261        | 17.8738        | 0.0269        |               | 0.9036        | 0.9036        |                | 0.9036        | 0.9036        | 0.0000        | 2,553.3639        | 2,553.3639        | 0.6160        |     | 2,568.7643        |
| <b>Total</b> | <b>0.6739</b> | <b>14.2261</b> | <b>17.8738</b> | <b>0.0269</b> |               | <b>0.9036</b> | <b>0.9036</b> |                | <b>0.9036</b> | <b>0.9036</b> | <b>0.0000</b> | <b>2,553.3639</b> | <b>2,553.3639</b> | <b>0.6160</b> |     | <b>2,568.7643</b> |

Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay - Monterey County, Summer

**3.5 Building Construction - 2021**

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0216        | 0.6735        | 0.1679        | 1.7100e-003        | 0.0406        | 2.0500e-003        | 0.0426        | 0.0117         | 1.9600e-003        | 0.0137        |          | 180.0513        | 180.0513        | 7.6100e-003   |     | 180.2415        |
| Worker       | 0.0611        | 0.0476        | 0.5250        | 1.2900e-003        | 0.1232        | 1.0300e-003        | 0.1243        | 0.0327         | 9.5000e-004        | 0.0336        |          | 128.2544        | 128.2544        | 5.0500e-003   |     | 128.3808        |
| <b>Total</b> | <b>0.0827</b> | <b>0.7211</b> | <b>0.6929</b> | <b>3.0000e-003</b> | <b>0.1638</b> | <b>3.0800e-003</b> | <b>0.1669</b> | <b>0.0444</b>  | <b>2.9100e-003</b> | <b>0.0473</b> |          | <b>308.3057</b> | <b>308.3057</b> | <b>0.0127</b> |     | <b>308.6222</b> |

**3.5 Building Construction - 2022**

**Unmitigated Construction On-Site**

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

Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay - Monterey County, Summer

**3.5 Building Construction - 2022**

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0198        | 0.6379        | 0.1518        | 1.7000e-003        | 0.0406        | 1.7800e-003        | 0.0424        | 0.0117         | 1.7100e-003        | 0.0134        |          | 178.5609        | 178.5609        | 7.3600e-003   |     | 178.7448        |
| Worker       | 0.0566        | 0.0427        | 0.4796        | 1.2400e-003        | 0.1232        | 9.9000e-004        | 0.1242        | 0.0327         | 9.1000e-004        | 0.0336        |          | 123.7396        | 123.7396        | 4.5200e-003   |     | 123.8527        |
| <b>Total</b> | <b>0.0764</b> | <b>0.6806</b> | <b>0.6315</b> | <b>2.9400e-003</b> | <b>0.1638</b> | <b>2.7700e-003</b> | <b>0.1666</b> | <b>0.0444</b>  | <b>2.6200e-003</b> | <b>0.0470</b> |          | <b>302.3005</b> | <b>302.3005</b> | <b>0.0119</b> |     | <b>302.5975</b> |

**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     | 0.6739        | 14.2261        | 17.8738        | 0.0269        |               | 0.9036        | 0.9036        |                | 0.9036        | 0.9036        | 0.0000        | 2,554.3336        | 2,554.3336        | 0.6120        |     | 2,569.6322        |
| <b>Total</b> | <b>0.6739</b> | <b>14.2261</b> | <b>17.8738</b> | <b>0.0269</b> |               | <b>0.9036</b> | <b>0.9036</b> |                | <b>0.9036</b> | <b>0.9036</b> | <b>0.0000</b> | <b>2,554.3336</b> | <b>2,554.3336</b> | <b>0.6120</b> |     | <b>2,569.6322</b> |

Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay - Monterey County, Summer

**3.5 Building Construction - 2022**

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0198        | 0.6379        | 0.1518        | 1.7000e-003        | 0.0406        | 1.7800e-003        | 0.0424        | 0.0117         | 1.7100e-003        | 0.0134        |          | 178.5609        | 178.5609        | 7.3600e-003   |     | 178.7448        |
| Worker       | 0.0566        | 0.0427        | 0.4796        | 1.2400e-003        | 0.1232        | 9.9000e-004        | 0.1242        | 0.0327         | 9.1000e-004        | 0.0336        |          | 123.7396        | 123.7396        | 4.5200e-003   |     | 123.8527        |
| <b>Total</b> | <b>0.0764</b> | <b>0.6806</b> | <b>0.6315</b> | <b>2.9400e-003</b> | <b>0.1638</b> | <b>2.7700e-003</b> | <b>0.1666</b> | <b>0.0444</b>  | <b>2.6200e-003</b> | <b>0.0470</b> |          | <b>302.3005</b> | <b>302.3005</b> | <b>0.0119</b> |     | <b>302.5975</b> |

**3.6 Paving - 2022**

**Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.1028        | 11.1249        | 14.5805        | 0.0228        |               | 0.5679        | 0.5679        |                | 0.5225        | 0.5225        |          | 2,207.6603        | 2,207.6603        | 0.7140        |     | 2,225.5104        |
| Paving       | 0.0000        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.1028</b> | <b>11.1249</b> | <b>14.5805</b> | <b>0.0228</b> |               | <b>0.5679</b> | <b>0.5679</b> |                | <b>0.5225</b> | <b>0.5225</b> |          | <b>2,207.6603</b> | <b>2,207.6603</b> | <b>0.7140</b> |     | <b>2,225.5104</b> |

Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay - Monterey County, Summer

**3.6 Paving - 2022**

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 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       | 0.0566        | 0.0427        | 0.4796        | 1.2400e-003        | 0.1232        | 9.9000e-004        | 0.1242        | 0.0327         | 9.1000e-004        | 0.0336        |          | 123.7396        | 123.7396        | 4.5200e-003        |     | 123.8527        |
| <b>Total</b> | <b>0.0566</b> | <b>0.0427</b> | <b>0.4796</b> | <b>1.2400e-003</b> | <b>0.1232</b> | <b>9.9000e-004</b> | <b>0.1242</b> | <b>0.0327</b>  | <b>9.1000e-004</b> | <b>0.0336</b> |          | <b>123.7396</b> | <b>123.7396</b> | <b>4.5200e-003</b> |     | <b>123.8527</b> |

**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     | 0.5609        | 11.2952        | 17.2957        | 0.0228        |               | 0.6093        | 0.6093        |                | 0.6093        | 0.6093        | 0.0000        | 2,207.6603        | 2,207.6603        | 0.7140        |     | 2,225.5104        |
| Paving       | 0.0000        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>0.5609</b> | <b>11.2952</b> | <b>17.2957</b> | <b>0.0228</b> |               | <b>0.6093</b> | <b>0.6093</b> |                | <b>0.6093</b> | <b>0.6093</b> | <b>0.0000</b> | <b>2,207.6603</b> | <b>2,207.6603</b> | <b>0.7140</b> |     | <b>2,225.5104</b> |

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**3.6 Paving - 2022**

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 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       | 0.0566        | 0.0427        | 0.4796        | 1.2400e-003        | 0.1232        | 9.9000e-004        | 0.1242        | 0.0327         | 9.1000e-004        | 0.0336        |          | 123.7396        | 123.7396        | 4.5200e-003        |     | 123.8527        |
| <b>Total</b> | <b>0.0566</b> | <b>0.0427</b> | <b>0.4796</b> | <b>1.2400e-003</b> | <b>0.1232</b> | <b>9.9000e-004</b> | <b>0.1242</b> | <b>0.0327</b>  | <b>9.1000e-004</b> | <b>0.0336</b> |          | <b>123.7396</b> | <b>123.7396</b> | <b>4.5200e-003</b> |     | <b>123.8527</b> |

**3.7 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 25.0290        |               |               |                    |               | 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        |
| <b>Total</b>    | <b>25.2335</b> | <b>1.4085</b> | <b>1.8136</b> | <b>2.9700e-003</b> |               | <b>0.0817</b> | <b>0.0817</b> |                | <b>0.0817</b> | <b>0.0817</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0183</b> |     | <b>281.9062</b> |



Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay - Monterey County, Summer

**3.7 Architectural Coating - 2022**

**Unmitigated Construction Off-Site**

|              | ROG           | NOx                | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |                    |               |                    |               |                    |               |                    |                    |                    | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000             | 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       | 0.0113        | 8.5300e-003        | 0.0959        | 2.5000e-004        | 0.0246        | 2.0000e-004        | 0.0248        | 6.5400e-003        | 1.8000e-004        | 6.7200e-003        |          | 24.7479        | 24.7479        | 9.0000e-004        |     | 24.7705        |
| <b>Total</b> | <b>0.0113</b> | <b>8.5300e-003</b> | <b>0.0959</b> | <b>2.5000e-004</b> | <b>0.0246</b> | <b>2.0000e-004</b> | <b>0.0248</b> | <b>6.5400e-003</b> | <b>1.8000e-004</b> | <b>6.7200e-003</b> |          | <b>24.7479</b> | <b>24.7479</b> | <b>9.0000e-004</b> |     | <b>24.7705</b> |

**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 | 25.0290        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.0594         | 1.3570        | 1.8324        | 2.9700e-003        |               | 0.0951        | 0.0951        |                | 0.0951        | 0.0951        | 0.0000        | 281.4481        | 281.4481        | 0.0183        |     | 281.9062        |
| <b>Total</b>    | <b>25.0884</b> | <b>1.3570</b> | <b>1.8324</b> | <b>2.9700e-003</b> |               | <b>0.0951</b> | <b>0.0951</b> |                | <b>0.0951</b> | <b>0.0951</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0183</b> |     | <b>281.9062</b> |

Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay - Monterey County, Summer

**3.7 Architectural Coating - 2022**

**Mitigated Construction Off-Site**

|              | ROG           | NOx                | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |                    |               |                    |               |                    |               |                    |                    |                    | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000             | 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       | 0.0113        | 8.5300e-003        | 0.0959        | 2.5000e-004        | 0.0246        | 2.0000e-004        | 0.0248        | 6.5400e-003        | 1.8000e-004        | 6.7200e-003        |          | 24.7479        | 24.7479        | 9.0000e-004        |     | 24.7705        |
| <b>Total</b> | <b>0.0113</b> | <b>8.5300e-003</b> | <b>0.0959</b> | <b>2.5000e-004</b> | <b>0.0246</b> | <b>2.0000e-004</b> | <b>0.0248</b> | <b>6.5400e-003</b> | <b>1.8000e-004</b> | <b>6.7200e-003</b> |          | <b>24.7479</b> | <b>24.7479</b> | <b>9.0000e-004</b> |     | <b>24.7705</b> |

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay - Monterey County, Summer

|             | ROG    | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O | CO2e       |
|-------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category    | lb/day |        |        |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Mitigated   | 0.7263 | 2.5459 | 6.9691 | 0.0206 | 1.5936        | 0.0167       | 1.6103     | 0.4268         | 0.0156        | 0.4423      |          | 2,087.0490 | 2,087.0490 | 0.0993 |     | 2,089.5316 |
| Unmitigated | 0.7263 | 2.5459 | 6.9691 | 0.0206 | 1.5936        | 0.0167       | 1.6103     | 0.4268         | 0.0156        | 0.4423      |          | 2,087.0490 | 2,087.0490 | 0.0993 |     | 2,089.5316 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|----------|-------------------------|----------|--------|-------------|------------|
|          | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| Arena    | 385.56                  | 385.56   | 385.56 | 748,734     | 748,734    |
| Total    | 385.56                  | 385.56   | 385.56 | 748,734     | 748,734    |

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 |
| Arena    | 9.50       | 7.30       | 7.30        | 0.00       | 81.00      | 19.00       | 66             | 28       | 6       |

4.4 Fleet Mix

| Land Use | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Arena    | 0.548528 | 0.027912 | 0.206330 | 0.127577 | 0.020437 | 0.005268 | 0.019586 | 0.027922 | 0.004162 | 0.002641 | 0.007642 | 0.001233 | 0.000761 |

5.0 Energy Detail

Historical Energy Use: N

Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay - Monterey County, Summer

**5.1 Mitigation Measures Energy**

Exceed Title 24

Install High Efficiency Lighting

|                        | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e     |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| Category               | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |           |           |             |             |          |
| NaturalGas Mitigated   | 0.0229 | 0.2080 | 0.1747 | 1.2500e-003 |               | 0.0158       | 0.0158     |                | 0.0158        | 0.0158      |          | 249.5923  | 249.5923  | 4.7800e-003 | 4.5800e-003 | 251.0755 |
| NaturalGas Unmitigated | 0.0296 | 0.2695 | 0.2264 | 1.6200e-003 |               | 0.0205       | 0.0205     |                | 0.0205        | 0.0205      |          | 323.3908  | 323.3908  | 6.2000e-003 | 5.9300e-003 | 325.3126 |

Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay - Monterey County, Summer

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

|              | NaturalGas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O                | CO2e            |
|--------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use     | kBTU/yr        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |                    |                    |                 |
| Arena        | 2748.82        | 0.0296        | 0.2695        | 0.2264        | 1.6200e-003        |               | 0.0205        | 0.0205        |                | 0.0205        | 0.0205        |          | 323.3908        | 323.3908        | 6.2000e-003        | 5.9300e-003        | 325.3126        |
| <b>Total</b> |                | <b>0.0296</b> | <b>0.2695</b> | <b>0.2264</b> | <b>1.6200e-003</b> |               | <b>0.0205</b> | <b>0.0205</b> |                | <b>0.0205</b> | <b>0.0205</b> |          | <b>323.3908</b> | <b>323.3908</b> | <b>6.2000e-003</b> | <b>5.9300e-003</b> | <b>325.3126</b> |

**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   |                 |                 |                    |                    |                 |
| Arena        | 2.12153        | 0.0229        | 0.2080        | 0.1747        | 1.2500e-003        |               | 0.0158        | 0.0158        |                | 0.0158        | 0.0158        |          | 249.5923        | 249.5923        | 4.7800e-003        | 4.5800e-003        | 251.0755        |
| <b>Total</b> |                | <b>0.0229</b> | <b>0.2080</b> | <b>0.1747</b> | <b>1.2500e-003</b> |               | <b>0.0158</b> | <b>0.0158</b> |                | <b>0.0158</b> | <b>0.0158</b> |          | <b>249.5923</b> | <b>249.5923</b> | <b>4.7800e-003</b> | <b>4.5800e-003</b> | <b>251.0755</b> |

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay - Monterey County, Summer

|             | ROG    | NOx         | CO          | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2   | CH4         | N2O | CO2e        |
|-------------|--------|-------------|-------------|--------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-------------|-------------|-----|-------------|
| Category    | lb/day |             |             |        |               |              |             |                |               |             | lb/day   |             |             |             |     |             |
| Mitigated   | 0.9079 | 3.0000e-005 | 3.6800e-003 | 0.0000 |               | 1.0000e-005  | 1.0000e-005 |                | 1.0000e-005   | 1.0000e-005 |          | 7.8800e-003 | 7.8800e-003 | 2.0000e-005 |     | 8.4000e-003 |
| Unmitigated | 0.9079 | 3.0000e-005 | 3.6800e-003 | 0.0000 |               | 1.0000e-005  | 1.0000e-005 |                | 1.0000e-005   | 1.0000e-005 |          | 7.8800e-003 | 7.8800e-003 | 2.0000e-005 |     | 8.4000e-003 |

6.2 Area by SubCategory

Unmitigated

|                       | ROG           | NOx                | CO                 | SO2           | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2          | Total CO2          | CH4                | N2O | CO2e               |
|-----------------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|--------------------|--------------------|--------------------|-----|--------------------|
| SubCategory           | lb/day        |                    |                    |               |               |                    |                    |                |                    |                    | lb/day   |                    |                    |                    |     |                    |
| Architectural Coating | 0.1372        |                    |                    |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |                    | 0.0000             |                    |     | 0.0000             |
| Consumer Products     | 0.7704        |                    |                    |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |                    | 0.0000             |                    |     | 0.0000             |
| Landscaping           | 3.4000e-004   | 3.0000e-005        | 3.6800e-003        | 0.0000        |               | 1.0000e-005        | 1.0000e-005        |                | 1.0000e-005        | 1.0000e-005        |          | 7.8800e-003        | 7.8800e-003        | 2.0000e-005        |     | 8.4000e-003        |
| <b>Total</b>          | <b>0.9079</b> | <b>3.0000e-005</b> | <b>3.6800e-003</b> | <b>0.0000</b> |               | <b>1.0000e-005</b> | <b>1.0000e-005</b> |                | <b>1.0000e-005</b> | <b>1.0000e-005</b> |          | <b>7.8800e-003</b> | <b>7.8800e-003</b> | <b>2.0000e-005</b> |     | <b>8.4000e-003</b> |

Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay - Monterey County, Summer

**6.2 Area by SubCategory**

**Mitigated**

|                       | ROG           | NOx                | CO                 | SO2           | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2          | Total CO2          | CH4                | N2O | CO2e               |
|-----------------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|--------------------|--------------------|--------------------|-----|--------------------|
| SubCategory           | lb/day        |                    |                    |               |               |                    |                    |                |                    |                    | lb/day   |                    |                    |                    |     |                    |
| Architectural Coating | 0.1372        |                    |                    |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |                    | 0.0000             |                    |     | 0.0000             |
| Consumer Products     | 0.7704        |                    |                    |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |                    | 0.0000             |                    |     | 0.0000             |
| Landscaping           | 3.4000e-004   | 3.0000e-005        | 3.6800e-003        | 0.0000        |               | 1.0000e-005        | 1.0000e-005        |                | 1.0000e-005        | 1.0000e-005        |          | 7.8800e-003        | 7.8800e-003        | 2.0000e-005        |     | 8.4000e-003        |
| <b>Total</b>          | <b>0.9079</b> | <b>3.0000e-005</b> | <b>3.6800e-003</b> | <b>0.0000</b> |               | <b>1.0000e-005</b> | <b>1.0000e-005</b> |                | <b>1.0000e-005</b> | <b>1.0000e-005</b> |          | <b>7.8800e-003</b> | <b>7.8800e-003</b> | <b>2.0000e-005</b> |     | <b>8.4000e-003</b> |

**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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

- Institute Recycling and Composting Services

**9.0 Operational Offroad**

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## Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay - Monterey County, Summer

| 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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Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay - Monterey County, Winter

**Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay  
Monterey County, Winter**

**1.0 Project Characteristics**

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**1.1 Land Usage**

| Land Uses | Size  | Metric   | Lot Acreage | Floor Surface Area | Population |
|-----------|-------|----------|-------------|--------------------|------------|
| Arena     | 36.00 | 1000sqft | 5.72        | 36,000.00          | 6140       |

**1.2 Other Project Characteristics**

|                                 |                                |                                 |      |                                  |       |
|---------------------------------|--------------------------------|---------------------------------|------|----------------------------------|-------|
| <b>Urbanization</b>             | Urban                          | <b>Wind Speed (m/s)</b>         | 3.6  | <b>Precipitation Freq (Days)</b> | 55    |
| <b>Climate Zone</b>             | 4                              |                                 |      | <b>Operational Year</b>          | 2023  |
| <b>Utility Company</b>          | Pacific Gas & Electric Company |                                 |      |                                  |       |
| <b>CO2 Intensity (lb/MW hr)</b> | 438.13                         | <b>CH4 Intensity (lb/MW hr)</b> | 0.02 | <b>N2O Intensity (lb/MW hr)</b>  | 0.004 |

**1.3 User Entered Comments & Non-Default Data**

Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay - Monterey County, Winter

Project Characteristics - Utility intensity factors reflect Senate Bill 100 (2018) Renewables Portfolio Standard program.

Land Use - The project site is 5.72 acres. An estimated 130-140 match-related personnel (i.e., staff, coaches, players) and 6,000 ticketed and seated fan capacity are expected for home matches.

Grading - Construction would result in approximately 1,530 cubic yards (CY) of cut and would not require any fill. Approximately 4.8 acres would be graded, but not more than 2 acres would be graded daily.

Demolition - Renovations to the existing Field House facility would require the demolition and disturbance of 2,000 SF.

Energy Use - The lights operate approximately 25 hours per month (300 hours per year) and produce 118.44 KW and 2,960 Kwh/month. The existing field house is connected to natural gas for heating and would require approximately 367,000 BTUh of natural gas per hour during project operations.

Water And Wastewater - The proposed project would require approximately 98,759 gallons per year or approximately 0.3 acre feet per year (AFY) for new uses of existing showers, water closets, urinals, lavatories, and service sinks. The existing field would be replaced with synthetic turf with sand rubber infill and would not require additional water.

Construction Off-road Equipment Mitigation - Monterey Bay Air Resources District (MBARD) Feasible Construction Emissions Mitigations.

Energy Mitigation - Nonresidential buildings will use about 30 percent less energy due mainly to lighting upgrades.

Water Mitigation - Low-flow indoor water use.

Waste Mitigation - CalRecycle Requirements (State of California).

| Table Name              | Column Name                  | Default Value | New Value |
|-------------------------|------------------------------|---------------|-----------|
| tblConstDustMitigation  | WaterUnpavedRoadVehicleSpeed | 0             | 15        |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 1.00      |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 4.00      |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 1.00      |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 1.00      |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 3.00      |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 1.00      |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 2.00      |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 2.00      |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 6.00      |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 10.00     |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 1.00      |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 2.00      |

Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay - Monterey County, Winter

|                           |                            |               |           |
|---------------------------|----------------------------|---------------|-----------|
| tblConstEquipMitigation   | NumberOfEquipmentMitigated | 0.00          | 1.00      |
| tblConstEquipMitigation   | Tier                       | No Change     | Tier 3    |
| tblConstEquipMitigation   | Tier                       | No Change     | Tier 3    |
| tblConstEquipMitigation   | Tier                       | No Change     | Tier 3    |
| tblConstEquipMitigation   | Tier                       | No Change     | Tier 3    |
| tblConstEquipMitigation   | Tier                       | No Change     | Tier 3    |
| tblConstEquipMitigation   | Tier                       | No Change     | Tier 3    |
| tblConstEquipMitigation   | Tier                       | No Change     | Tier 3    |
| tblConstEquipMitigation   | Tier                       | No Change     | Tier 3    |
| tblConstEquipMitigation   | Tier                       | No Change     | Tier 3    |
| tblConstEquipMitigation   | Tier                       | No Change     | Tier 3    |
| tblConstEquipMitigation   | Tier                       | No Change     | Tier 3    |
| tblConstEquipMitigation   | Tier                       | No Change     | Tier 3    |
| tblConstEquipMitigation   | Tier                       | No Change     | Tier 3    |
| tblEnergyUse              | LightingElect              | 3.08          | 0.99      |
| tblEnergyUse              | T24NG                      | 19.71         | 21.20     |
| tblGrading                | AcresOfGrading             | 10.00         | 4.80      |
| tblGrading                | MaterialExported           | 0.00          | 1,530.00  |
| tblLandUse                | LotAcreage                 | 11.57         | 5.72      |
| tblLandUse                | Population                 | 0.00          | 6,140.00  |
| tblProjectCharacteristics | CH4IntensityFactor         | 0.029         | 0.02      |
| tblProjectCharacteristics | CO2IntensityFactor         | 641.35        | 438.13    |
| tblProjectCharacteristics | N2OIntensityFactor         | 0.006         | 0.004     |
| tblWater                  | IndoorWaterUseRate         | 15,507,724.23 | 98,759.00 |
| tblWater                  | OutdoorWaterUseRate        | 989,854.74    | 0.00      |

**2.0 Emissions Summary**



## Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay - Monterey County, 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         | 0.9079        | 3.0000e-005   | 3.6800e-003   | 0.0000        |               | 1.0000e-005   | 1.0000e-005   |                | 1.0000e-005   | 1.0000e-005   |          | 7.8800e-003       | 7.8800e-003       | 2.0000e-005   |                    | 8.4000e-003       |
| Energy       | 0.0296        | 0.2695        | 0.2264        | 1.6200e-003   |               | 0.0205        | 0.0205        |                | 0.0205        | 0.0205        |          | 323.3908          | 323.3908          | 6.2000e-003   | 5.9300e-003        | 325.3126          |
| Mobile       | 0.6645        | 2.7066        | 7.3982        | 0.0196        | 1.5936        | 0.0168        | 1.6104        | 0.4268         | 0.0157        | 0.4424        |          | 1,975.3876        | 1,975.3876        | 0.1019        |                    | 1,977.9349        |
| <b>Total</b> | <b>1.6020</b> | <b>2.9761</b> | <b>7.6283</b> | <b>0.0212</b> | <b>1.5936</b> | <b>0.0373</b> | <b>1.6309</b> | <b>0.4268</b>  | <b>0.0361</b> | <b>0.4629</b> |          | <b>2,298.7863</b> | <b>2,298.7863</b> | <b>0.1081</b> | <b>5.9300e-003</b> | <b>2,303.2558</b> |

**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         | 0.9079        | 3.0000e-005   | 3.6800e-003   | 0.0000        |               | 1.0000e-005   | 1.0000e-005   |                | 1.0000e-005   | 1.0000e-005   |          | 7.8800e-003       | 7.8800e-003       | 2.0000e-005   |                    | 8.4000e-003       |
| Energy       | 0.0229        | 0.2080        | 0.1747        | 1.2500e-003   |               | 0.0158        | 0.0158        |                | 0.0158        | 0.0158        |          | 249.5923          | 249.5923          | 4.7800e-003   | 4.5800e-003        | 251.0755          |
| Mobile       | 0.6645        | 2.7066        | 7.3982        | 0.0196        | 1.5936        | 0.0168        | 1.6104        | 0.4268         | 0.0157        | 0.4424        |          | 1,975.3876        | 1,975.3876        | 0.1019        |                    | 1,977.9349        |
| <b>Total</b> | <b>1.5953</b> | <b>2.9146</b> | <b>7.5766</b> | <b>0.0208</b> | <b>1.5936</b> | <b>0.0326</b> | <b>1.6262</b> | <b>0.4268</b>  | <b>0.0315</b> | <b>0.4582</b> |          | <b>2,224.9877</b> | <b>2,224.9877</b> | <b>0.1067</b> | <b>4.5800e-003</b> | <b>2,229.0188</b> |

## Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay - Monterey County, 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 | 0.42 | 2.07 | 0.68 | 1.75 | 0.00          | 12.53        | 0.29       | 0.00           | 12.92         | 1.01        | 0.00     | 3.21     | 3.21      | 1.31 | 22.77 | 3.22 |

### 3.0 Construction Detail

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#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1            | Demolition            | Demolition            | 6/1/2021   | 6/28/2021 | 5             | 20       |                   |
| 2            | Site Preparation      | Site Preparation      | 6/29/2021  | 7/12/2021 | 5             | 10       |                   |
| 3            | Grading               | Grading               | 7/13/2021  | 8/9/2021  | 5             | 20       |                   |
| 4            | Building Construction | Building Construction | 8/10/2021  | 6/27/2022 | 5             | 230      |                   |
| 5            | Paving                | Paving                | 6/28/2022  | 7/25/2022 | 5             | 20       |                   |
| 6            | Architectural Coating | Architectural Coating | 7/26/2022  | 8/22/2022 | 5             | 20       |                   |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4.8

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 54,000; Non-Residential Outdoor: 18,000; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay - Monterey County, Winter

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

**Trips and VMT**

Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay - Monterey County, Winter

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition            | 6                       | 15.00              | 0.00               | 9.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| 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               | 191.00              | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 9                       | 15.00              | 6.00               | 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                       | 3.00               | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

**3.2 Demolition - 2021**

**Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 0.1030        | 0.0000        | 0.1030        | 0.0156         | 0.0000        | 0.0156        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 3.1651        | 31.4407        | 21.5650        | 0.0388        |               | 1.5513        | 1.5513        |                | 1.4411        | 1.4411        |          | 3,747.9449        | 3,747.9449        | 1.0549        |     | 3,774.3174        |
| <b>Total</b>  | <b>3.1651</b> | <b>31.4407</b> | <b>21.5650</b> | <b>0.0388</b> | <b>0.1030</b> | <b>1.5513</b> | <b>1.6543</b> | <b>0.0156</b>  | <b>1.4411</b> | <b>1.4567</b> |          | <b>3,747.9449</b> | <b>3,747.9449</b> | <b>1.0549</b> |     | <b>3,774.3174</b> |



Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay - Monterey County, Winter

**3.2 Demolition - 2021**

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 3.6500e-003   | 0.1245        | 0.0276        | 3.6000e-004        | 7.8500e-003   | 4.7000e-004        | 8.3200e-003   | 2.1500e-003    | 4.5000e-004        | 2.6000e-003   |          | 37.7640         | 37.7640         | 1.4900e-003        |     | 37.8012         |
| 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       | 0.0665        | 0.0599        | 0.5148        | 1.2100e-003        | 0.1232        | 1.0300e-003        | 0.1243        | 0.0327         | 9.5000e-004        | 0.0336        |          | 120.0862        | 120.0862        | 4.8100e-003        |     | 120.2063        |
| <b>Total</b> | <b>0.0701</b> | <b>0.1845</b> | <b>0.5424</b> | <b>1.5700e-003</b> | <b>0.1311</b> | <b>1.5000e-003</b> | <b>0.1326</b> | <b>0.0348</b>  | <b>1.4000e-003</b> | <b>0.0362</b> |          | <b>157.8502</b> | <b>157.8502</b> | <b>6.3000e-003</b> |     | <b>158.0076</b> |

**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 |               |                |                |               | 0.0402        | 0.0000        | 0.0402        | 6.0800e-003        | 0.0000        | 6.0800e-003   |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 0.9246        | 18.3130        | 24.6739        | 0.0388        |               | 0.8627        | 0.8627        |                    | 0.8627        | 0.8627        | 0.0000        | 3,747.9449        | 3,747.9449        | 1.0549        |     | 3,774.3174        |
| <b>Total</b>  | <b>0.9246</b> | <b>18.3130</b> | <b>24.6739</b> | <b>0.0388</b> | <b>0.0402</b> | <b>0.8627</b> | <b>0.9029</b> | <b>6.0800e-003</b> | <b>0.8627</b> | <b>0.8688</b> | <b>0.0000</b> | <b>3,747.9449</b> | <b>3,747.9449</b> | <b>1.0549</b> |     | <b>3,774.3174</b> |

Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay - Monterey County, Winter

**3.2 Demolition - 2021**

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 3.6500e-003   | 0.1245        | 0.0276        | 3.6000e-004        | 7.8500e-003   | 4.7000e-004        | 8.3200e-003   | 2.1500e-003    | 4.5000e-004        | 2.6000e-003   |          | 37.7640         | 37.7640         | 1.4900e-003        |     | 37.8012         |
| 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       | 0.0665        | 0.0599        | 0.5148        | 1.2100e-003        | 0.1232        | 1.0300e-003        | 0.1243        | 0.0327         | 9.5000e-004        | 0.0336        |          | 120.0862        | 120.0862        | 4.8100e-003        |     | 120.2063        |
| <b>Total</b> | <b>0.0701</b> | <b>0.1845</b> | <b>0.5424</b> | <b>1.5700e-003</b> | <b>0.1311</b> | <b>1.5000e-003</b> | <b>0.1326</b> | <b>0.0348</b>  | <b>1.4000e-003</b> | <b>0.0362</b> |          | <b>157.8502</b> | <b>157.8502</b> | <b>6.3000e-003</b> |     | <b>158.0076</b> |

**3.3 Site Preparation - 2021**

**Unmitigated Construction On-Site**

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

Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay - Monterey County, Winter

**3.3 Site Preparation - 2021**

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 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       | 0.0798        | 0.0719        | 0.6178        | 1.4500e-003        | 0.1479        | 1.2300e-003        | 0.1491        | 0.0392         | 1.1400e-003        | 0.0404        |          | 144.1034        | 144.1034        | 5.7700e-003        |     | 144.2476        |
| <b>Total</b> | <b>0.0798</b> | <b>0.0719</b> | <b>0.6178</b> | <b>1.4500e-003</b> | <b>0.1479</b> | <b>1.2300e-003</b> | <b>0.1491</b> | <b>0.0392</b>  | <b>1.1400e-003</b> | <b>0.0404</b> |          | <b>144.1034</b> | <b>144.1034</b> | <b>5.7700e-003</b> |     | <b>144.2476</b> |

**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 |               |                |                |               | 7.0458        | 0.0000        | 7.0458        | 3.8730         | 0.0000        | 3.8730        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 0.9312        | 19.0656        | 22.9600        | 0.0380        |               | 0.9462        | 0.9462        |                | 0.9462        | 0.9462        | 0.0000        | 3,685.6569        | 3,685.6569        | 1.1920        |     | 3,715.4573        |
| <b>Total</b>  | <b>0.9312</b> | <b>19.0656</b> | <b>22.9600</b> | <b>0.0380</b> | <b>7.0458</b> | <b>0.9462</b> | <b>7.9920</b> | <b>3.8730</b>  | <b>0.9462</b> | <b>4.8191</b> | <b>0.0000</b> | <b>3,685.6569</b> | <b>3,685.6569</b> | <b>1.1920</b> |     | <b>3,715.4573</b> |

Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay - Monterey County, Winter

**3.3 Site Preparation - 2021**

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 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       | 0.0798        | 0.0719        | 0.6178        | 1.4500e-003        | 0.1479        | 1.2300e-003        | 0.1491        | 0.0392         | 1.1400e-003        | 0.0404        |          | 144.1034        | 144.1034        | 5.7700e-003        |     | 144.2476        |
| <b>Total</b> | <b>0.0798</b> | <b>0.0719</b> | <b>0.6178</b> | <b>1.4500e-003</b> | <b>0.1479</b> | <b>1.2300e-003</b> | <b>0.1491</b> | <b>0.0392</b>  | <b>1.1400e-003</b> | <b>0.0404</b> |          | <b>144.1034</b> | <b>144.1034</b> | <b>5.7700e-003</b> |     | <b>144.2476</b> |

**3.4 Grading - 2021**

**Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 6.2930        | 0.0000        | 6.2930        | 3.3402         | 0.0000        | 3.3402        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.2903        | 24.7367        | 15.8575        | 0.0296        |               | 1.1599        | 1.1599        |                | 1.0671        | 1.0671        |          | 2,871.9285        | 2,871.9285        | 0.9288        |     | 2,895.1495        |
| <b>Total</b>  | <b>2.2903</b> | <b>24.7367</b> | <b>15.8575</b> | <b>0.0296</b> | <b>6.2930</b> | <b>1.1599</b> | <b>7.4529</b> | <b>3.3402</b>  | <b>1.0671</b> | <b>4.4073</b> |          | <b>2,871.9285</b> | <b>2,871.9285</b> | <b>0.9288</b> |     | <b>2,895.1495</b> |

Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay - Monterey County, Winter

**3.4 Grading - 2021**

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0774        | 2.6426        | 0.5849        | 7.5600e-003        | 0.1666        | 9.9600e-003   | 0.1766        | 0.0456         | 9.5200e-003   | 0.0552        |          | 801.4361        | 801.4361        | 0.0316        |     | 802.2263        |
| 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       | 0.0665        | 0.0599        | 0.5148        | 1.2100e-003        | 0.1232        | 1.0300e-003   | 0.1243        | 0.0327         | 9.5000e-004   | 0.0336        |          | 120.0862        | 120.0862        | 4.8100e-003   |     | 120.2063        |
| <b>Total</b> | <b>0.1439</b> | <b>2.7025</b> | <b>1.0997</b> | <b>8.7700e-003</b> | <b>0.2898</b> | <b>0.0110</b> | <b>0.3008</b> | <b>0.0783</b>  | <b>0.0105</b> | <b>0.0888</b> |          | <b>921.5223</b> | <b>921.5223</b> | <b>0.0364</b> |     | <b>922.4326</b> |

**Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 2.4543        | 0.0000        | 2.4543        | 1.3027         | 0.0000        | 1.3027        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 0.7263        | 14.8397        | 18.9906        | 0.0296        |               | 0.7555        | 0.7555        |                | 0.7555        | 0.7555        | 0.0000        | 2,871.9285        | 2,871.9285        | 0.9288        |     | 2,895,1495        |
| <b>Total</b>  | <b>0.7263</b> | <b>14.8397</b> | <b>18.9906</b> | <b>0.0296</b> | <b>2.4543</b> | <b>0.7555</b> | <b>3.2098</b> | <b>1.3027</b>  | <b>0.7555</b> | <b>2.0582</b> | <b>0.0000</b> | <b>2,871.9285</b> | <b>2,871.9285</b> | <b>0.9288</b> |     | <b>2,895,1495</b> |

Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay - Monterey County, Winter

**3.4 Grading - 2021**

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0774        | 2.6426        | 0.5849        | 7.5600e-003        | 0.1666        | 9.9600e-003   | 0.1766        | 0.0456         | 9.5200e-003   | 0.0552        |          | 801.4361        | 801.4361        | 0.0316        |     | 802.2263        |
| 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       | 0.0665        | 0.0599        | 0.5148        | 1.2100e-003        | 0.1232        | 1.0300e-003   | 0.1243        | 0.0327         | 9.5000e-004   | 0.0336        |          | 120.0862        | 120.0862        | 4.8100e-003   |     | 120.2063        |
| <b>Total</b> | <b>0.1439</b> | <b>2.7025</b> | <b>1.0997</b> | <b>8.7700e-003</b> | <b>0.2898</b> | <b>0.0110</b> | <b>0.3008</b> | <b>0.0783</b>  | <b>0.0105</b> | <b>0.0888</b> |          | <b>921.5223</b> | <b>921.5223</b> | <b>0.0364</b> |     | <b>922.4326</b> |

**3.5 Building Construction - 2021**

**Unmitigated Construction On-Site**

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

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**3.5 Building Construction - 2021**

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0230        | 0.6794        | 0.1930        | 1.6600e-003        | 0.0406        | 2.1500e-003        | 0.0427        | 0.0117         | 2.0500e-003        | 0.0137        |          | 174.7848        | 174.7848        | 8.3300e-003   |     | 174.9931        |
| Worker       | 0.0665        | 0.0599        | 0.5148        | 1.2100e-003        | 0.1232        | 1.0300e-003        | 0.1243        | 0.0327         | 9.5000e-004        | 0.0336        |          | 120.0862        | 120.0862        | 4.8100e-003   |     | 120.2063        |
| <b>Total</b> | <b>0.0895</b> | <b>0.7394</b> | <b>0.7078</b> | <b>2.8700e-003</b> | <b>0.1638</b> | <b>3.1800e-003</b> | <b>0.1670</b> | <b>0.0444</b>  | <b>3.0000e-003</b> | <b>0.0474</b> |          | <b>294.8709</b> | <b>294.8709</b> | <b>0.0131</b> |     | <b>295.1994</b> |

**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     | 0.6739        | 14.2261        | 17.8738        | 0.0269        |               | 0.9036        | 0.9036        |                | 0.9036        | 0.9036        | 0.0000        | 2,553.3639        | 2,553.3639        | 0.6160        |     | 2,568.7643        |
| <b>Total</b> | <b>0.6739</b> | <b>14.2261</b> | <b>17.8738</b> | <b>0.0269</b> |               | <b>0.9036</b> | <b>0.9036</b> |                | <b>0.9036</b> | <b>0.9036</b> | <b>0.0000</b> | <b>2,553.3639</b> | <b>2,553.3639</b> | <b>0.6160</b> |     | <b>2,568.7643</b> |

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**3.5 Building Construction - 2021**

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0230        | 0.6794        | 0.1930        | 1.6600e-003        | 0.0406        | 2.1500e-003        | 0.0427        | 0.0117         | 2.0500e-003        | 0.0137        |          | 174.7848        | 174.7848        | 8.3300e-003   |     | 174.9931        |
| Worker       | 0.0665        | 0.0599        | 0.5148        | 1.2100e-003        | 0.1232        | 1.0300e-003        | 0.1243        | 0.0327         | 9.5000e-004        | 0.0336        |          | 120.0862        | 120.0862        | 4.8100e-003   |     | 120.2063        |
| <b>Total</b> | <b>0.0895</b> | <b>0.7394</b> | <b>0.7078</b> | <b>2.8700e-003</b> | <b>0.1638</b> | <b>3.1800e-003</b> | <b>0.1670</b> | <b>0.0444</b>  | <b>3.0000e-003</b> | <b>0.0474</b> |          | <b>294.8709</b> | <b>294.8709</b> | <b>0.0131</b> |     | <b>295.1994</b> |

**3.5 Building Construction - 2022**

**Unmitigated Construction On-Site**

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



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**3.5 Building Construction - 2022**

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0211        | 0.6425        | 0.1751        | 1.6500e-003        | 0.0406        | 1.8700e-003        | 0.0425        | 0.0117         | 1.7900e-003        | 0.0135        |          | 173.2755        | 173.2755        | 8.0800e-003   |     | 173.4774        |
| Worker       | 0.0617        | 0.0537        | 0.4688        | 1.1600e-003        | 0.1232        | 9.9000e-004        | 0.1242        | 0.0327         | 9.1000e-004        | 0.0336        |          | 115.8605        | 115.8605        | 4.2900e-003   |     | 115.9677        |
| <b>Total</b> | <b>0.0827</b> | <b>0.6962</b> | <b>0.6439</b> | <b>2.8100e-003</b> | <b>0.1638</b> | <b>2.8600e-003</b> | <b>0.1667</b> | <b>0.0444</b>  | <b>2.7000e-003</b> | <b>0.0471</b> |          | <b>289.1360</b> | <b>289.1360</b> | <b>0.0124</b> |     | <b>289.4451</b> |

**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     | 0.6739        | 14.2261        | 17.8738        | 0.0269        |               | 0.9036        | 0.9036        |                | 0.9036        | 0.9036        | 0.0000        | 2,554.3336        | 2,554.3336        | 0.6120        |     | 2,569.6322        |
| <b>Total</b> | <b>0.6739</b> | <b>14.2261</b> | <b>17.8738</b> | <b>0.0269</b> |               | <b>0.9036</b> | <b>0.9036</b> |                | <b>0.9036</b> | <b>0.9036</b> | <b>0.0000</b> | <b>2,554.3336</b> | <b>2,554.3336</b> | <b>0.6120</b> |     | <b>2,569.6322</b> |

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**3.5 Building Construction - 2022**

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0211        | 0.6425        | 0.1751        | 1.6500e-003        | 0.0406        | 1.8700e-003        | 0.0425        | 0.0117         | 1.7900e-003        | 0.0135        |          | 173.2755        | 173.2755        | 8.0800e-003   |     | 173.4774        |
| Worker       | 0.0617        | 0.0537        | 0.4688        | 1.1600e-003        | 0.1232        | 9.9000e-004        | 0.1242        | 0.0327         | 9.1000e-004        | 0.0336        |          | 115.8605        | 115.8605        | 4.2900e-003   |     | 115.9677        |
| <b>Total</b> | <b>0.0827</b> | <b>0.6962</b> | <b>0.6439</b> | <b>2.8100e-003</b> | <b>0.1638</b> | <b>2.8600e-003</b> | <b>0.1667</b> | <b>0.0444</b>  | <b>2.7000e-003</b> | <b>0.0471</b> |          | <b>289.1360</b> | <b>289.1360</b> | <b>0.0124</b> |     | <b>289.4451</b> |

**3.6 Paving - 2022**

**Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.1028        | 11.1249        | 14.5805        | 0.0228        |               | 0.5679        | 0.5679        |                | 0.5225        | 0.5225        |          | 2,207.6603        | 2,207.6603        | 0.7140        |     | 2,225.5104        |
| Paving       | 0.0000        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.1028</b> | <b>11.1249</b> | <b>14.5805</b> | <b>0.0228</b> |               | <b>0.5679</b> | <b>0.5679</b> |                | <b>0.5225</b> | <b>0.5225</b> |          | <b>2,207.6603</b> | <b>2,207.6603</b> | <b>0.7140</b> |     | <b>2,225.5104</b> |

Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay - Monterey County, Winter

**3.6 Paving - 2022**

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 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       | 0.0617        | 0.0537        | 0.4688        | 1.1600e-003        | 0.1232        | 9.9000e-004        | 0.1242        | 0.0327         | 9.1000e-004        | 0.0336        |          | 115.8605        | 115.8605        | 4.2900e-003        |     | 115.9677        |
| <b>Total</b> | <b>0.0617</b> | <b>0.0537</b> | <b>0.4688</b> | <b>1.1600e-003</b> | <b>0.1232</b> | <b>9.9000e-004</b> | <b>0.1242</b> | <b>0.0327</b>  | <b>9.1000e-004</b> | <b>0.0336</b> |          | <b>115.8605</b> | <b>115.8605</b> | <b>4.2900e-003</b> |     | <b>115.9677</b> |

**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     | 0.5609        | 11.2952        | 17.2957        | 0.0228        |               | 0.6093        | 0.6093        |                | 0.6093        | 0.6093        | 0.0000        | 2,207.6603        | 2,207.6603        | 0.7140        |     | 2,225.5104        |
| Paving       | 0.0000        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>0.5609</b> | <b>11.2952</b> | <b>17.2957</b> | <b>0.0228</b> |               | <b>0.6093</b> | <b>0.6093</b> |                | <b>0.6093</b> | <b>0.6093</b> | <b>0.0000</b> | <b>2,207.6603</b> | <b>2,207.6603</b> | <b>0.7140</b> |     | <b>2,225.5104</b> |

Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay - Monterey County, Winter

**3.6 Paving - 2022**

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 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       | 0.0617        | 0.0537        | 0.4688        | 1.1600e-003        | 0.1232        | 9.9000e-004        | 0.1242        | 0.0327         | 9.1000e-004        | 0.0336        |          | 115.8605        | 115.8605        | 4.2900e-003        |     | 115.9677        |
| <b>Total</b> | <b>0.0617</b> | <b>0.0537</b> | <b>0.4688</b> | <b>1.1600e-003</b> | <b>0.1232</b> | <b>9.9000e-004</b> | <b>0.1242</b> | <b>0.0327</b>  | <b>9.1000e-004</b> | <b>0.0336</b> |          | <b>115.8605</b> | <b>115.8605</b> | <b>4.2900e-003</b> |     | <b>115.9677</b> |

**3.7 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 25.0290        |               |               |                    |               | 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        |
| <b>Total</b>    | <b>25.2335</b> | <b>1.4085</b> | <b>1.8136</b> | <b>2.9700e-003</b> |               | <b>0.0817</b> | <b>0.0817</b> |                | <b>0.0817</b> | <b>0.0817</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0183</b> |     | <b>281.9062</b> |

Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay - Monterey County, Winter

**3.7 Architectural Coating - 2022**

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                    |                    |                    | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 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       | 0.0123        | 0.0107        | 0.0938        | 2.3000e-004        | 0.0246        | 2.0000e-004        | 0.0248        | 6.5400e-003        | 1.8000e-004        | 6.7200e-003        |          | 23.1721        | 23.1721        | 8.6000e-004        |     | 23.1935        |
| <b>Total</b> | <b>0.0123</b> | <b>0.0107</b> | <b>0.0938</b> | <b>2.3000e-004</b> | <b>0.0246</b> | <b>2.0000e-004</b> | <b>0.0248</b> | <b>6.5400e-003</b> | <b>1.8000e-004</b> | <b>6.7200e-003</b> |          | <b>23.1721</b> | <b>23.1721</b> | <b>8.6000e-004</b> |     | <b>23.1935</b> |

**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 | 25.0290        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.0594         | 1.3570        | 1.8324        | 2.9700e-003        |               | 0.0951        | 0.0951        |                | 0.0951        | 0.0951        | 0.0000        | 281.4481        | 281.4481        | 0.0183        |     | 281.9062        |
| <b>Total</b>    | <b>25.0884</b> | <b>1.3570</b> | <b>1.8324</b> | <b>2.9700e-003</b> |               | <b>0.0951</b> | <b>0.0951</b> |                | <b>0.0951</b> | <b>0.0951</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0183</b> |     | <b>281.9062</b> |

Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay - Monterey County, Winter

**3.7 Architectural Coating - 2022**

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                    |                    |                    | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 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       | 0.0123        | 0.0107        | 0.0938        | 2.3000e-004        | 0.0246        | 2.0000e-004        | 0.0248        | 6.5400e-003        | 1.8000e-004        | 6.7200e-003        |          | 23.1721        | 23.1721        | 8.6000e-004        |     | 23.1935        |
| <b>Total</b> | <b>0.0123</b> | <b>0.0107</b> | <b>0.0938</b> | <b>2.3000e-004</b> | <b>0.0246</b> | <b>2.0000e-004</b> | <b>0.0248</b> | <b>6.5400e-003</b> | <b>1.8000e-004</b> | <b>6.7200e-003</b> |          | <b>23.1721</b> | <b>23.1721</b> | <b>8.6000e-004</b> |     | <b>23.1935</b> |

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay - Monterey County, Winter

|             | ROG    | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O | CO2e       |
|-------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category    | lb/day |        |        |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Mitigated   | 0.6645 | 2.7066 | 7.3982 | 0.0196 | 1.5936        | 0.0168       | 1.6104     | 0.4268         | 0.0157        | 0.4424      |          | 1,975.3876 | 1,975.3876 | 0.1019 |     | 1,977.9349 |
| Unmitigated | 0.6645 | 2.7066 | 7.3982 | 0.0196 | 1.5936        | 0.0168       | 1.6104     | 0.4268         | 0.0157        | 0.4424      |          | 1,975.3876 | 1,975.3876 | 0.1019 |     | 1,977.9349 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|----------|-------------------------|----------|--------|-------------|------------|
|          | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| Arena    | 385.56                  | 385.56   | 385.56 | 748,734     | 748,734    |
| Total    | 385.56                  | 385.56   | 385.56 | 748,734     | 748,734    |

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 |
| Arena    | 9.50       | 7.30       | 7.30        | 0.00       | 81.00      | 19.00       | 66             | 28       | 6       |

4.4 Fleet Mix

| Land Use | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Arena    | 0.548528 | 0.027912 | 0.206330 | 0.127577 | 0.020437 | 0.005268 | 0.019586 | 0.027922 | 0.004162 | 0.002641 | 0.007642 | 0.001233 | 0.000761 |

5.0 Energy Detail

Historical Energy Use: N

Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay - Monterey County, Winter

**5.1 Mitigation Measures Energy**

Exceed Title 24

Install High Efficiency Lighting

|                        | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e     |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| Category               | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |           |           |             |             |          |
| NaturalGas Mitigated   | 0.0229 | 0.2080 | 0.1747 | 1.2500e-003 |               | 0.0158       | 0.0158     |                | 0.0158        | 0.0158      |          | 249.5923  | 249.5923  | 4.7800e-003 | 4.5800e-003 | 251.0755 |
| NaturalGas Unmitigated | 0.0296 | 0.2695 | 0.2264 | 1.6200e-003 |               | 0.0205       | 0.0205     |                | 0.0205        | 0.0205      |          | 323.3908  | 323.3908  | 6.2000e-003 | 5.9300e-003 | 325.3126 |



Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay - Monterey County, Winter

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

|              | NaturalGas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O                | CO2e            |
|--------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use     | kBTU/yr        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |                    |                    |                 |
| Arena        | 2748.82        | 0.0296        | 0.2695        | 0.2264        | 1.6200e-003        |               | 0.0205        | 0.0205        |                | 0.0205        | 0.0205        |          | 323.3908        | 323.3908        | 6.2000e-003        | 5.9300e-003        | 325.3126        |
| <b>Total</b> |                | <b>0.0296</b> | <b>0.2695</b> | <b>0.2264</b> | <b>1.6200e-003</b> |               | <b>0.0205</b> | <b>0.0205</b> |                | <b>0.0205</b> | <b>0.0205</b> |          | <b>323.3908</b> | <b>323.3908</b> | <b>6.2000e-003</b> | <b>5.9300e-003</b> | <b>325.3126</b> |

**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   |                 |                 |                    |                    |                 |
| Arena        | 2.12153        | 0.0229        | 0.2080        | 0.1747        | 1.2500e-003        |               | 0.0158        | 0.0158        |                | 0.0158        | 0.0158        |          | 249.5923        | 249.5923        | 4.7800e-003        | 4.5800e-003        | 251.0755        |
| <b>Total</b> |                | <b>0.0229</b> | <b>0.2080</b> | <b>0.1747</b> | <b>1.2500e-003</b> |               | <b>0.0158</b> | <b>0.0158</b> |                | <b>0.0158</b> | <b>0.0158</b> |          | <b>249.5923</b> | <b>249.5923</b> | <b>4.7800e-003</b> | <b>4.5800e-003</b> | <b>251.0755</b> |

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay - Monterey County, Winter

|             | ROG    | NOx         | CO          | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2   | CH4         | N2O | CO2e        |
|-------------|--------|-------------|-------------|--------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-------------|-------------|-----|-------------|
| Category    | lb/day |             |             |        |               |              |             |                |               |             | lb/day   |             |             |             |     |             |
| Mitigated   | 0.9079 | 3.0000e-005 | 3.6800e-003 | 0.0000 |               | 1.0000e-005  | 1.0000e-005 |                | 1.0000e-005   | 1.0000e-005 |          | 7.8800e-003 | 7.8800e-003 | 2.0000e-005 |     | 8.4000e-003 |
| Unmitigated | 0.9079 | 3.0000e-005 | 3.6800e-003 | 0.0000 |               | 1.0000e-005  | 1.0000e-005 |                | 1.0000e-005   | 1.0000e-005 |          | 7.8800e-003 | 7.8800e-003 | 2.0000e-005 |     | 8.4000e-003 |

6.2 Area by SubCategory

Unmitigated

|                       | ROG           | NOx                | CO                 | SO2           | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2          | Total CO2          | CH4                | N2O | CO2e               |
|-----------------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|--------------------|--------------------|--------------------|-----|--------------------|
| SubCategory           | lb/day        |                    |                    |               |               |                    |                    |                |                    |                    | lb/day   |                    |                    |                    |     |                    |
| Architectural Coating | 0.1372        |                    |                    |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |                    | 0.0000             |                    |     | 0.0000             |
| Consumer Products     | 0.7704        |                    |                    |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |                    | 0.0000             |                    |     | 0.0000             |
| Landscaping           | 3.4000e-004   | 3.0000e-005        | 3.6800e-003        | 0.0000        |               | 1.0000e-005        | 1.0000e-005        |                | 1.0000e-005        | 1.0000e-005        |          | 7.8800e-003        | 7.8800e-003        | 2.0000e-005        |     | 8.4000e-003        |
| <b>Total</b>          | <b>0.9079</b> | <b>3.0000e-005</b> | <b>3.6800e-003</b> | <b>0.0000</b> |               | <b>1.0000e-005</b> | <b>1.0000e-005</b> |                | <b>1.0000e-005</b> | <b>1.0000e-005</b> |          | <b>7.8800e-003</b> | <b>7.8800e-003</b> | <b>2.0000e-005</b> |     | <b>8.4000e-003</b> |

Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay - Monterey County, Winter

**6.2 Area by SubCategory**

**Mitigated**

|                       | ROG           | NOx                | CO                 | SO2           | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2          | Total CO2          | CH4                | N2O | CO2e               |
|-----------------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|--------------------|--------------------|--------------------|-----|--------------------|
| SubCategory           | lb/day        |                    |                    |               |               |                    |                    |                |                    |                    | lb/day   |                    |                    |                    |     |                    |
| Architectural Coating | 0.1372        |                    |                    |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |                    | 0.0000             |                    |     | 0.0000             |
| Consumer Products     | 0.7704        |                    |                    |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |                    | 0.0000             |                    |     | 0.0000             |
| Landscaping           | 3.4000e-004   | 3.0000e-005        | 3.6800e-003        | 0.0000        |               | 1.0000e-005        | 1.0000e-005        |                | 1.0000e-005        | 1.0000e-005        |          | 7.8800e-003        | 7.8800e-003        | 2.0000e-005        |     | 8.4000e-003        |
| <b>Total</b>          | <b>0.9079</b> | <b>3.0000e-005</b> | <b>3.6800e-003</b> | <b>0.0000</b> |               | <b>1.0000e-005</b> | <b>1.0000e-005</b> |                | <b>1.0000e-005</b> | <b>1.0000e-005</b> |          | <b>7.8800e-003</b> | <b>7.8800e-003</b> | <b>2.0000e-005</b> |     | <b>8.4000e-003</b> |

**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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

- Institute Recycling and Composting Services

**9.0 Operational Offroad**

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## Monterey Bay Football Club Facilities Renovation Project at California State University Monterey Bay - Monterey County, Winter

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

## 10.0 Stationary Equipment

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### 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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