

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
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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
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**10.0 Stationary Equipment**

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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**11.0 Vegetation**

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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>

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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	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>

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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	0.0216	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>

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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	0.0216	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>

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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	0.0198	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>

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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	0.0198	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>



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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	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>

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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	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
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## 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
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### Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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### User Defined Equipment

Equipment Type	Number
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## 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>

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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	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>

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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	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>

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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	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>

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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	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>

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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	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



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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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**

**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**

**8.1 Mitigation Measures Waste**

- Institute Recycling and Composting Services

**9.0 Operational Offroad**

## 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
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**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
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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