

FORTAG Construction - Monterey County, Winter

FORTAG Construction
Monterey County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	12.30	1000sqft	0.28	12,300.00	0
Other Asphalt Surfaces	27.05	Acre	27.05	1,178,298.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	3.6	Precipitation Freq (Days)	55
Climate Zone	4			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics -

Land Use -

Construction Phase - Assume a total of 18 months for construction. Divided approximately evenly among phases.

Off-road Equipment -

Off-road Equipment - Added skid steer loader per info needs list

Off-road Equipment - added a plate compactor per the info needs list

Off-road Equipment - Added excavator and truck per info needs list

Trips and VMT - Adjusted construction and coating trips to be consistent with other phases based on per equipment calculation.

Grading - grading phase includes aggregate and pavement import

Construction Off-road Equipment Mitigation -

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Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	35.00	20.00
tblConstructionPhase	NumDays	440.00	80.00
tblConstructionPhase	NumDays	45.00	80.00
tblConstructionPhase	NumDays	35.00	100.00
tblConstructionPhase	NumDays	20.00	80.00
tblConstructionPhase	PhaseEndDate	3/16/2022	5/21/2021
tblConstructionPhase	PhaseEndDate	12/8/2021	4/23/2021
tblConstructionPhase	PhaseEndDate	4/1/2020	8/12/2020
tblConstructionPhase	PhaseEndDate	1/26/2022	12/30/2020
tblConstructionPhase	PhaseEndDate	1/29/2020	4/22/2020
tblConstructionPhase	PhaseStartDate	1/27/2022	4/24/2021
tblConstructionPhase	PhaseStartDate	4/2/2020	1/3/2021
tblConstructionPhase	PhaseStartDate	1/30/2020	4/23/2020
tblConstructionPhase	PhaseStartDate	12/9/2021	8/13/2020
tblGrading	AcresOfGrading	200.00	27.05
tblGrading	MaterialImported	0.00	12,247.00
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	VendorTripNumber	195.00	28.00
tblTripsAndVMT	WorkerTripNumber	500.00	28.00
tblTripsAndVMT	WorkerTripNumber	100.00	5.00

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2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.8527	57.1912	35.8173	0.0824	18.2962	2.2449	20.4955	9.9917	2.0662	12.0150	0.0000	8,124.0735	8,124.0735	2.0833	0.0000	8,176.1570
2021	33.3784	27.1246	24.8345	0.0536	0.5290	1.2310	1.7600	0.1442	1.1523	1.2964	0.0000	5,208.9279	5,208.9279	1.1707	0.0000	5,238.1946
Maximum	33.3784	57.1912	35.8173	0.0824	18.2962	2.2449	20.4955	9.9917	2.0662	12.0150	0.0000	8,124.0735	8,124.0735	2.0833	0.0000	8,176.1570

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.8527	57.1912	35.8173	0.0824	8.3597	2.2449	10.5591	4.5298	2.0662	6.5532	0.0000	8,124.0735	8,124.0735	2.0833	0.0000	8,176.1570
2021	33.3784	27.1246	24.8345	0.0536	0.5290	1.2310	1.7600	0.1442	1.1523	1.2964	0.0000	5,208.9279	5,208.9279	1.1707	0.0000	5,238.1946
Maximum	33.3784	57.1912	35.8173	0.0824	8.3597	2.2449	10.5591	4.5298	2.0662	6.5532	0.0000	8,124.0735	8,124.0735	2.0833	0.0000	8,176.1570

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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
Percent Reduction	0.00	0.00	0.00	0.00	52.78	0.00	44.65	53.89	0.00	41.03	0.00	0.00	0.00	0.00	0.00	0.00

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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	0.8625	4.0000e-005	4.0300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.6100e-003	8.6100e-003	2.0000e-005		9.1800e-003
Energy	1.2600e-003	0.0115	9.6300e-003	7.0000e-005		8.7000e-004	8.7000e-004		8.7000e-004	8.7000e-004		13.7570	13.7570	2.6000e-004	2.5000e-004	13.8387
Mobile	0.0570	0.2718	0.7821	2.1100e-003	0.1700	2.1000e-003	0.1721	0.0455	1.9700e-003	0.0475		213.2213	213.2213	0.0110		213.4950
Total	0.9207	0.2833	0.7958	2.1800e-003	0.1700	2.9800e-003	0.1729	0.0455	2.8500e-003	0.0484		226.9869	226.9869	0.0112	2.5000e-004	227.3429

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	0.8625	4.0000e-005	4.0300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.6100e-003	8.6100e-003	2.0000e-005		9.1800e-003
Energy	1.2600e-003	0.0115	9.6300e-003	7.0000e-005		8.7000e-004	8.7000e-004		8.7000e-004	8.7000e-004		13.7570	13.7570	2.6000e-004	2.5000e-004	13.8387
Mobile	0.0570	0.2718	0.7821	2.1100e-003	0.1700	2.1000e-003	0.1721	0.0455	1.9700e-003	0.0475		213.2213	213.2213	0.0110		213.4950
Total	0.9207	0.2833	0.7958	2.1800e-003	0.1700	2.9800e-003	0.1729	0.0455	2.8500e-003	0.0484		226.9869	226.9869	0.0112	2.5000e-004	227.3429

FORTAG Construction - 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/2/2020	4/22/2020	5	80	
2	Grading	Grading	4/23/2020	8/12/2020	5	80	
3	Wall and Bridge construction	Building Construction	1/3/2021	4/23/2021	5	80	
4	Paving	Paving	8/13/2020	12/30/2020	5	100	
5	Coatings	Architectural Coating	4/24/2021	5/21/2021	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 27.05

Acres of Paving: 27.05

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 18,450; Non-Residential Outdoor: 6,150; Striped Parking Area: 70,698 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Skid Steer Loaders	1	8.00	65	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Wall and Bridge construction	Excavators	1	7.00	158	0.38
Paving	Rollers	2	8.00	80	0.38
Wall and Bridge construction	Cranes	1	7.00	231	0.29
Wall and Bridge construction	Off-Highway Trucks	1	7.00	402	0.38
Wall and Bridge construction	Forklifts	3	8.00	89	0.20
Wall and Bridge construction	Generator Sets	1	8.00	84	0.74
Paving	Plate Compactors	1	8.00	8	0.43
Wall and Bridge construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Wall and Bridge construction	Welders	1	8.00	46	0.45
Coatings	Air Compressors	1	6.00	78	0.48

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
Site Preparation	7	18.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	23.00	0.00	1,531.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Wall and Bridge construction	11	28.00	28.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Coatings	1	5.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2020

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	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523		3,685.1016	3,685.1016	1.1918		3,714.8975

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3.2 Site Preparation - 2020

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	0.1229	0.1194	0.9746	2.3100e-003	0.2299	1.9200e-003	0.2318	0.0610	1.7700e-003	0.0627		229.6047	229.6047	9.6300e-003		229.8455
Total	0.1229	0.1194	0.9746	2.3100e-003	0.2299	1.9200e-003	0.2318	0.0610	1.7700e-003	0.0627		229.6047	229.6047	9.6300e-003		229.8455

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					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	8.1298	2.1974	10.3272	4.4688	2.0216	6.4904	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975

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3.2 Site Preparation - 2020

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	0.1229	0.1194	0.9746	2.3100e-003	0.2299	1.9200e-003	0.2318	0.0610	1.7700e-003	0.0627		229.6047	229.6047	9.6300e-003		229.8455
Total	0.1229	0.1194	0.9746	2.3100e-003	0.2299	1.9200e-003	0.2318	0.0610	1.7700e-003	0.0627		229.6047	229.6047	9.6300e-003		229.8455

3.3 Grading - 2020

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					6.4135	0.0000	6.4135	3.3539	0.0000	3.3539			0.0000			0.0000
Off-Road	4.5297	51.2556	33.3427	0.0641		2.2197	2.2197		2.0421	2.0421		6,205.2225	6,205.2225	2.0069		6,255.3949
Total	4.5297	51.2556	33.3427	0.0641	6.4135	2.2197	8.6332	3.3539	2.0421	5.3961		6,205.2225	6,205.2225	2.0069		6,255.3949

FORTAG Construction - Monterey County, Winter

3.3 Grading - 2020

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	0.1660	5.7831	1.2293	0.0153	0.3338	0.0228	0.3566	0.0914	0.0218	0.1132		1,625.467 2	1,625.467 2	0.0641		1,627.070 6
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	0.1570	0.1525	1.2453	2.9500e-003	0.2938	2.4500e-003	0.2962	0.0779	2.2600e-003	0.0802		293.3837	293.3837	0.0123		293.6915
Total	0.3230	5.9356	2.4746	0.0183	0.6276	0.0252	0.6528	0.1694	0.0241	0.1934		1,918.851 0	1,918.851 0	0.0765		1,920.762 1

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					2.8861	0.0000	2.8861	1.5093	0.0000	1.5093			0.0000			0.0000
Off-Road	4.5297	51.2556	33.3427	0.0641		2.2197	2.2197		2.0421	2.0421	0.0000	6,205.222 5	6,205.222 5	2.0069		6,255.394 9
Total	4.5297	51.2556	33.3427	0.0641	2.8861	2.2197	5.1058	1.5093	2.0421	3.5514	0.0000	6,205.222 5	6,205.222 5	2.0069		6,255.394 9

FORTAG Construction - Monterey County, Winter

3.3 Grading - 2020

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	0.1660	5.7831	1.2293	0.0153	0.3338	0.0228	0.3566	0.0914	0.0218	0.1132		1,625.467 2	1,625.467 2	0.0641		1,627.070 6
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	0.1570	0.1525	1.2453	2.9500e-003	0.2938	2.4500e-003	0.2962	0.0779	2.2600e-003	0.0802		293.3837	293.3837	0.0123		293.6915
Total	0.3230	5.9356	2.4746	0.0183	0.6276	0.0252	0.6528	0.1694	0.0241	0.1934		1,918.851 0	1,918.851 0	0.0765		1,920.762 1

3.4 Wall and Bridge 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	2.6316	23.9218	22.5918	0.0430		1.2189	1.2189		1.1408	1.1408		4,109.739 5	4,109.739 5	1.1194		4,137.724 0
Total	2.6316	23.9218	22.5918	0.0430		1.2189	1.2189		1.1408	1.1408		4,109.739 5	4,109.739 5	1.1194		4,137.724 0

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3.4 Wall and Bridge 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	0.1019	3.0371	0.8648	7.1700e-003	0.1713	9.2300e-003	0.1806	0.0493	8.8300e-003	0.0581		754.0079	754.0079	0.0380		754.9567
Worker	0.1765	0.1658	1.3778	3.4700e-003	0.3577	2.8800e-003	0.3605	0.0948	2.6600e-003	0.0975		345.1805	345.1805	0.0133		345.5140
Total	0.2785	3.2029	2.2426	0.0106	0.5290	0.0121	0.5411	0.1442	0.0115	0.1556		1,099.1884	1,099.1884	0.0513		1,100.4707

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	2.6316	23.9218	22.5918	0.0430		1.2189	1.2189		1.1408	1.1408	0.0000	4,109.7395	4,109.7395	1.1194		4,137.7239
Total	2.6316	23.9218	22.5918	0.0430		1.2189	1.2189		1.1408	1.1408	0.0000	4,109.7395	4,109.7395	1.1194		4,137.7239

FORTAG Construction - Monterey County, Winter

3.4 Wall and Bridge 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	0.1019	3.0371	0.8648	7.1700e-003	0.1713	9.2300e-003	0.1806	0.0493	8.8300e-003	0.0581		754.0079	754.0079	0.0380		754.9567
Worker	0.1765	0.1658	1.3778	3.4700e-003	0.3577	2.8800e-003	0.3605	0.0948	2.6600e-003	0.0975		345.1805	345.1805	0.0133		345.5140
Total	0.2785	3.2029	2.2426	0.0106	0.5290	0.0121	0.5411	0.1442	0.0115	0.1556		1,099.1884	1,099.1884	0.0513		1,100.4707

3.5 Paving - 2020

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	1.3967	14.3169	14.8625	0.0233		0.7626	0.7626		0.7023	0.7023		2,242.2128	2,242.2128	0.7176		2,260.1530
Paving	0.7087					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.1054	14.3169	14.8625	0.0233		0.7626	0.7626		0.7023	0.7023		2,242.2128	2,242.2128	0.7176		2,260.1530

FORTAG Construction - Monterey County, Winter

3.5 Paving - 2020

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	0.1229	0.1194	0.9746	2.3100e-003	0.2299	1.9200e-003	0.2318	0.0610	1.7700e-003	0.0627		229.6047	229.6047	9.6300e-003		229.8455
Total	0.1229	0.1194	0.9746	2.3100e-003	0.2299	1.9200e-003	0.2318	0.0610	1.7700e-003	0.0627		229.6047	229.6047	9.6300e-003		229.8455

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	1.3967	14.3169	14.8625	0.0233		0.7626	0.7626		0.7023	0.7023	0.0000	2,242.2128	2,242.2128	0.7176		2,260.1530
Paving	0.7087					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.1054	14.3169	14.8625	0.0233		0.7626	0.7626		0.7023	0.7023	0.0000	2,242.2128	2,242.2128	0.7176		2,260.1530

FORTAG Construction - Monterey County, Winter

3.5 Paving - 2020

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	0.1229	0.1194	0.9746	2.3100e-003	0.2299	1.9200e-003	0.2318	0.0610	1.7700e-003	0.0627		229.6047	229.6047	9.6300e-003		229.8455
Total	0.1229	0.1194	0.9746	2.3100e-003	0.2299	1.9200e-003	0.2318	0.0610	1.7700e-003	0.0627		229.6047	229.6047	9.6300e-003		229.8455

3.6 Coatings - 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					
Archit. Coating	33.1280					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	33.3469	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

FORTAG Construction - Monterey County, Winter

3.6 Coatings - 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	0.0315	0.0296	0.2460	6.2000e-004	0.0639	5.2000e-004	0.0644	0.0169	4.8000e-004	0.0174		61.6394	61.6394	2.3800e-003		61.6989
Total	0.0315	0.0296	0.2460	6.2000e-004	0.0639	5.2000e-004	0.0644	0.0169	4.8000e-004	0.0174		61.6394	61.6394	2.3800e-003		61.6989

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	33.1280					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	33.3469	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309

FORTAG Construction - Monterey County, Winter

3.6 Coatings - 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	0.0315	0.0296	0.2460	6.2000e-004	0.0639	5.2000e-004	0.0644	0.0169	4.8000e-004	0.0174		61.6394	61.6394	2.3800e-003		61.6989
Total	0.0315	0.0296	0.2460	6.2000e-004	0.0639	5.2000e-004	0.0644	0.0169	4.8000e-004	0.0174		61.6394	61.6394	2.3800e-003		61.6989

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

FORTAG Construction - 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	0.0570	0.2718	0.7821	2.1100e-003	0.1700	2.1000e-003	0.1721	0.0455	1.9700e-003	0.0475		213.2213	213.2213	0.0110		213.4950
Unmitigated	0.0570	0.2718	0.7821	2.1100e-003	0.1700	2.1000e-003	0.1721	0.0455	1.9700e-003	0.0475		213.2213	213.2213	0.0110		213.4950

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	20.66	20.66	20.66	79,835	79,835
Total	20.66	20.66	20.66	79,835	79,835

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
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	14.70	6.60	6.60	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.538832	0.029687	0.203987	0.136286	0.023350	0.005751	0.018582	0.026631	0.004153	0.002845	0.007802	0.001241	0.000853
Unrefrigerated Warehouse-No Rail	0.538832	0.029687	0.203987	0.136286	0.023350	0.005751	0.018582	0.026631	0.004153	0.002845	0.007802	0.001241	0.000853

FORTAG Construction - Monterey County, Winter

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.2600e-003	0.0115	9.6300e-003	7.0000e-005		8.7000e-004	8.7000e-004		8.7000e-004	8.7000e-004		13.7570	13.7570	2.6000e-004	2.5000e-004	13.8387
NaturalGas Unmitigated	1.2600e-003	0.0115	9.6300e-003	7.0000e-005		8.7000e-004	8.7000e-004		8.7000e-004	8.7000e-004		13.7570	13.7570	2.6000e-004	2.5000e-004	13.8387

FORTAG Construction - Monterey County, Winter

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	116.934	1.2600e-003	0.0115	9.6300e-003	7.0000e-005		8.7000e-004	8.7000e-004		8.7000e-004	8.7000e-004		13.7570	13.7570	2.6000e-004	2.5000e-004	13.8387
Total		1.2600e-003	0.0115	9.6300e-003	7.0000e-005		8.7000e-004	8.7000e-004		8.7000e-004	8.7000e-004		13.7570	13.7570	2.6000e-004	2.5000e-004	13.8387

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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0.116934	1.2600e-003	0.0115	9.6300e-003	7.0000e-005		8.7000e-004	8.7000e-004		8.7000e-004	8.7000e-004		13.7570	13.7570	2.6000e-004	2.5000e-004	13.8387
Total		1.2600e-003	0.0115	9.6300e-003	7.0000e-005		8.7000e-004	8.7000e-004		8.7000e-004	8.7000e-004		13.7570	13.7570	2.6000e-004	2.5000e-004	13.8387

6.0 Area Detail

6.1 Mitigation Measures Area

FORTAG Construction - 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	0.8625	4.0000e-005	4.0300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.6100e-003	8.6100e-003	2.0000e-005		9.1800e-003
Unmitigated	0.8625	4.0000e-005	4.0300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.6100e-003	8.6100e-003	2.0000e-005		9.1800e-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	0.1815					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6806					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.8000e-004	4.0000e-005	4.0300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.6100e-003	8.6100e-003	2.0000e-005		9.1800e-003
Total	0.8625	4.0000e-005	4.0300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.6100e-003	8.6100e-003	2.0000e-005		9.1800e-003

FORTAG Construction - 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	0.1815					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6806					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.8000e-004	4.0000e-005	4.0300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.6100e-003	8.6100e-003	2.0000e-005		9.1800e-003
Total	0.8625	4.0000e-005	4.0300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.6100e-003	8.6100e-003	2.0000e-005		9.1800e-003

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

FORTAG Construction - Monterey County, Winter

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

FORTAG Construction - Monterey County, Annual

**FORTAG Construction
Monterey County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	12.30	1000sqft	0.28	12,300.00	0
Other Asphalt Surfaces	27.05	Acre	27.05	1,178,298.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	3.6	Precipitation Freq (Days)	55
Climate Zone	4			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

FORTAG Construction - Monterey County, Annual

Project Characteristics -

Land Use -

Construction Phase - Assume a total of 18 months for construction. Divided approximately evenly among phases.

Off-road Equipment -

Off-road Equipment - Added skid steer loader per info needs list

Off-road Equipment - added a plate compactor per the info needs list

Off-road Equipment - Added excavator and truck per info needs list

Trips and VMT - Adjusted construction and coating trips to be consistent with other phases based on per equipment calculation.

Grading - grading phase includes aggregate and pavement import

Construction Off-road Equipment Mitigation -

FORTAG Construction - Monterey County, Annual

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	35.00	20.00
tblConstructionPhase	NumDays	440.00	80.00
tblConstructionPhase	NumDays	45.00	80.00
tblConstructionPhase	NumDays	35.00	100.00
tblConstructionPhase	NumDays	20.00	80.00
tblConstructionPhase	PhaseEndDate	3/16/2022	5/21/2021
tblConstructionPhase	PhaseEndDate	12/8/2021	4/23/2021
tblConstructionPhase	PhaseEndDate	4/1/2020	8/12/2020
tblConstructionPhase	PhaseEndDate	1/26/2022	12/30/2020
tblConstructionPhase	PhaseEndDate	1/29/2020	4/22/2020
tblConstructionPhase	PhaseStartDate	1/27/2022	4/24/2021
tblConstructionPhase	PhaseStartDate	4/2/2020	1/3/2021
tblConstructionPhase	PhaseStartDate	1/30/2020	4/23/2020
tblConstructionPhase	PhaseStartDate	12/9/2021	8/13/2020
tblGrading	AcresOfGrading	200.00	27.05
tblGrading	MaterialImported	0.00	12,247.00
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	VendorTripNumber	195.00	28.00
tblTripsAndVMT	WorkerTripNumber	500.00	28.00
tblTripsAndVMT	WorkerTripNumber	100.00	5.00

FORTAG Construction - Monterey County, Annual

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.4716	4.7089	3.1182	6.2000e-003	1.0235	0.2160	1.2395	0.5433	0.1988	0.7421	0.0000	549.8335	549.8335	0.1521	0.0000	553.6360
2021	0.4493	1.1004	1.0099	2.1900e-003	0.0211	0.0502	0.0713	5.7700e-003	0.0470	0.0528	0.0000	192.7248	192.7248	0.0426	0.0000	193.7901
Maximum	0.4716	4.7089	3.1182	6.2000e-003	1.0235	0.2160	1.2395	0.5433	0.1988	0.7421	0.0000	549.8335	549.8335	0.1521	0.0000	553.6360

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.4716	4.7089	3.1182	6.2000e-003	0.4850	0.2160	0.7010	0.2510	0.1988	0.4498	0.0000	549.8330	549.8330	0.1521	0.0000	553.6355
2021	0.4493	1.1004	1.0099	2.1900e-003	0.0211	0.0502	0.0713	5.7700e-003	0.0470	0.0528	0.0000	192.7246	192.7246	0.0426	0.0000	193.7899
Maximum	0.4716	4.7089	3.1182	6.2000e-003	0.4850	0.2160	0.7010	0.2510	0.1988	0.4498	0.0000	549.8330	549.8330	0.1521	0.0000	553.6355

FORTAG Construction - Monterey County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	51.55	0.00	41.08	53.23	0.00	36.77	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-2-2020	4-1-2020	1.5189	1.5189
2	4-2-2020	7-1-2020	1.8966	1.8966
3	7-2-2020	10-1-2020	1.2248	1.2248
4	10-2-2020	1-1-2021	0.5356	0.5356
5	1-2-2021	4-1-2021	0.9546	0.9546
6	4-2-2021	7-1-2021	0.5846	0.5846
		Highest	1.8966	1.8966

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	0.1574	0.0000	5.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.8000e-004	9.8000e-004	0.0000	0.0000	1.0400e-003
Energy	2.3000e-004	2.0900e-003	1.7600e-003	1.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	14.9087	14.9087	6.1000e-004	1.6000e-004	14.9717
Mobile	0.0103	0.0479	0.1361	3.9000e-004	0.0299	3.8000e-004	0.0303	8.0400e-003	3.6000e-004	8.4000e-003	0.0000	35.4070	35.4070	1.7800e-003	0.0000	35.4514
Waste						0.0000	0.0000		0.0000	0.0000	2.3466	0.0000	2.3466	0.1387	0.0000	5.8135
Water						0.0000	0.0000		0.0000	0.0000	0.9024	4.4774	5.3798	0.0929	2.2300e-003	8.3666
Total	0.1679	0.0500	0.1383	4.0000e-004	0.0299	5.4000e-004	0.0305	8.0400e-003	5.2000e-004	8.5600e-003	3.2490	54.7941	58.0430	0.2340	2.3900e-003	64.6043

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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	0.1574	0.0000	5.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.8000e-004	9.8000e-004	0.0000	0.0000	1.0400e-003
Energy	2.3000e-004	2.0900e-003	1.7600e-003	1.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	14.9087	14.9087	6.1000e-004	1.6000e-004	14.9717
Mobile	0.0103	0.0479	0.1361	3.9000e-004	0.0299	3.8000e-004	0.0303	8.0400e-003	3.6000e-004	8.4000e-003	0.0000	35.4070	35.4070	1.7800e-003	0.0000	35.4514
Waste						0.0000	0.0000		0.0000	0.0000	2.3466	0.0000	2.3466	0.1387	0.0000	5.8135
Water						0.0000	0.0000		0.0000	0.0000	0.9024	4.4774	5.3798	0.0929	2.2300e-003	8.3666
Total	0.1679	0.0500	0.1383	4.0000e-004	0.0299	5.4000e-004	0.0305	8.0400e-003	5.2000e-004	8.5600e-003	3.2490	54.7941	58.0430	0.2340	2.3900e-003	64.6043

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/2/2020	4/22/2020	5	80	
2	Grading	Grading	4/23/2020	8/12/2020	5	80	
3	Wall and Bridge construction	Building Construction	1/3/2021	4/23/2021	5	80	
4	Paving	Paving	8/13/2020	12/30/2020	5	100	
5	Coatings	Architectural Coating	4/24/2021	5/21/2021	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 27.05

Acres of Paving: 27.05

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 18,450; Non-Residential Outdoor: 6,150; Striped Parking Area: 70,698 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Skid Steer Loaders	1	8.00	65	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Wall and Bridge construction	Excavators	1	7.00	158	0.38
Paving	Rollers	2	8.00	80	0.38
Wall and Bridge construction	Cranes	1	7.00	231	0.29
Wall and Bridge construction	Off-Highway Trucks	1	7.00	402	0.38
Wall and Bridge construction	Forklifts	3	8.00	89	0.20
Wall and Bridge construction	Generator Sets	1	8.00	84	0.74
Paving	Plate Compactors	1	8.00	8	0.43
Wall and Bridge construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Wall and Bridge construction	Welders	1	8.00	46	0.45
Coatings	Air Compressors	1	6.00	78	0.48

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
Site Preparation	7	18.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	23.00	0.00	1,531.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Wall and Bridge construction	11	28.00	28.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Coatings	1	5.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2020

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					0.7227	0.0000	0.7227	0.3972	0.0000	0.3972	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1631	1.6967	0.8605	1.5200e-003		0.0879	0.0879		0.0809	0.0809	0.0000	133.7227	133.7227	0.0433	0.0000	134.8039
Total	0.1631	1.6967	0.8605	1.5200e-003	0.7227	0.0879	0.8106	0.3972	0.0809	0.4781	0.0000	133.7227	133.7227	0.0433	0.0000	134.8039

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3.2 Site Preparation - 2020

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	4.4100e-003	4.3400e-003	0.0379	9.0000e-005	8.9000e-003	8.0000e-005	8.9700e-003	2.3600e-003	7.0000e-005	2.4400e-003	0.0000	8.3808	8.3808	3.5000e-004	0.0000	8.3895
Total	4.4100e-003	4.3400e-003	0.0379	9.0000e-005	8.9000e-003	8.0000e-005	8.9700e-003	2.3600e-003	7.0000e-005	2.4400e-003	0.0000	8.3808	8.3808	3.5000e-004	0.0000	8.3895

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					0.3252	0.0000	0.3252	0.1788	0.0000	0.1788	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1631	1.6967	0.8605	1.5200e-003		0.0879	0.0879		0.0809	0.0809	0.0000	133.7226	133.7226	0.0433	0.0000	134.8038
Total	0.1631	1.6967	0.8605	1.5200e-003	0.3252	0.0879	0.4131	0.1788	0.0809	0.2596	0.0000	133.7226	133.7226	0.0433	0.0000	134.8038

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3.2 Site Preparation - 2020

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	4.4100e-003	4.3400e-003	0.0379	9.0000e-005	8.9000e-003	8.0000e-005	8.9700e-003	2.3600e-003	7.0000e-005	2.4400e-003	0.0000	8.3808	8.3808	3.5000e-004	0.0000	8.3895
Total	4.4100e-003	4.3400e-003	0.0379	9.0000e-005	8.9000e-003	8.0000e-005	8.9700e-003	2.3600e-003	7.0000e-005	2.4400e-003	0.0000	8.3808	8.3808	3.5000e-004	0.0000	8.3895

3.3 Grading - 2020

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					0.2565	0.0000	0.2565	0.1342	0.0000	0.1342	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1812	2.0502	1.3337	2.5600e-003		0.0888	0.0888		0.0817	0.0817	0.0000	225.1713	225.1713	0.0728	0.0000	226.9920
Total	0.1812	2.0502	1.3337	2.5600e-003	0.2565	0.0888	0.3453	0.1342	0.0817	0.2159	0.0000	225.1713	225.1713	0.0728	0.0000	226.9920

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3.3 Grading - 2020

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	6.5200e-003	0.2309	0.0470	6.2000e-004	0.0130	9.0000e-004	0.0139	3.5600e-003	8.6000e-004	4.4200e-003	0.0000	59.6689	59.6689	2.2400e-003	0.0000	59.7250
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	5.6400e-003	5.5400e-003	0.0485	1.2000e-004	0.0114	1.0000e-004	0.0115	3.0200e-003	9.0000e-005	3.1100e-003	0.0000	10.7088	10.7088	4.5000e-004	0.0000	10.7199
Total	0.0122	0.2364	0.0954	7.4000e-004	0.0243	1.0000e-003	0.0253	6.5800e-003	9.5000e-004	7.5300e-003	0.0000	70.3777	70.3777	2.6900e-003	0.0000	70.4449

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					0.1154	0.0000	0.1154	0.0604	0.0000	0.0604	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1812	2.0502	1.3337	2.5600e-003		0.0888	0.0888		0.0817	0.0817	0.0000	225.1711	225.1711	0.0728	0.0000	226.9917
Total	0.1812	2.0502	1.3337	2.5600e-003	0.1154	0.0888	0.2042	0.0604	0.0817	0.1421	0.0000	225.1711	225.1711	0.0728	0.0000	226.9917

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3.3 Grading - 2020

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	6.5200e-003	0.2309	0.0470	6.2000e-004	0.0130	9.0000e-004	0.0139	3.5600e-003	8.6000e-004	4.4200e-003	0.0000	59.6689	59.6689	2.2400e-003	0.0000	59.7250
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	5.6400e-003	5.5400e-003	0.0485	1.2000e-004	0.0114	1.0000e-004	0.0115	3.0200e-003	9.0000e-005	3.1100e-003	0.0000	10.7088	10.7088	4.5000e-004	0.0000	10.7199
Total	0.0122	0.2364	0.0954	7.4000e-004	0.0243	1.0000e-003	0.0253	6.5800e-003	9.5000e-004	7.5300e-003	0.0000	70.3777	70.3777	2.6900e-003	0.0000	70.4449

3.4 Wall and Bridge 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	0.1053	0.9569	0.9037	1.7200e-003		0.0488	0.0488		0.0456	0.0456	0.0000	149.1317	149.1317	0.0406	0.0000	150.1472
Total	0.1053	0.9569	0.9037	1.7200e-003		0.0488	0.0488		0.0456	0.0456	0.0000	149.1317	149.1317	0.0406	0.0000	150.1472

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3.4 Wall and Bridge 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	3.9200e-003	0.1220	0.0320	2.9000e-004	6.6700e-003	3.6000e-004	7.0300e-003	1.9300e-003	3.4000e-004	2.2700e-003	0.0000	27.8780	27.8780	1.3100e-003	0.0000	27.9107
Worker	6.3400e-003	6.0200e-003	0.0537	1.4000e-004	0.0138	1.2000e-004	0.0140	3.6800e-003	1.1000e-004	3.7900e-003	0.0000	12.5994	12.5994	4.9000e-004	0.0000	12.6115
Total	0.0103	0.1280	0.0857	4.3000e-004	0.0205	4.8000e-004	0.0210	5.6100e-003	4.5000e-004	6.0600e-003	0.0000	40.4773	40.4773	1.8000e-003	0.0000	40.5222

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	0.1053	0.9569	0.9037	1.7200e-003		0.0488	0.0488		0.0456	0.0456	0.0000	149.1315	149.1315	0.0406	0.0000	150.1470
Total	0.1053	0.9569	0.9037	1.7200e-003		0.0488	0.0488		0.0456	0.0456	0.0000	149.1315	149.1315	0.0406	0.0000	150.1470

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3.4 Wall and Bridge 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	3.9200e-003	0.1220	0.0320	2.9000e-004	6.6700e-003	3.6000e-004	7.0300e-003	1.9300e-003	3.4000e-004	2.2700e-003	0.0000	27.8780	27.8780	1.3100e-003	0.0000	27.9107
Worker	6.3400e-003	6.0200e-003	0.0537	1.4000e-004	0.0138	1.2000e-004	0.0140	3.6800e-003	1.1000e-004	3.7900e-003	0.0000	12.5994	12.5994	4.9000e-004	0.0000	12.6115
Total	0.0103	0.1280	0.0857	4.3000e-004	0.0205	4.8000e-004	0.0210	5.6100e-003	4.5000e-004	6.0600e-003	0.0000	40.4773	40.4773	1.8000e-003	0.0000	40.5222

3.5 Paving - 2020

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	0.0698	0.7158	0.7431	1.1600e-003		0.0381	0.0381		0.0351	0.0351	0.0000	101.7051	101.7051	0.0326	0.0000	102.5188
Paving	0.0354					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1053	0.7158	0.7431	1.1600e-003		0.0381	0.0381		0.0351	0.0351	0.0000	101.7051	101.7051	0.0326	0.0000	102.5188

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3.5 Paving - 2020

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	5.5200e-003	5.4200e-003	0.0474	1.2000e-004	0.0111	1.0000e-004	0.0112	2.9600e-003	9.0000e-005	3.0400e-003	0.0000	10.4760	10.4760	4.4000e-004	0.0000	10.4869
Total	5.5200e-003	5.4200e-003	0.0474	1.2000e-004	0.0111	1.0000e-004	0.0112	2.9600e-003	9.0000e-005	3.0400e-003	0.0000	10.4760	10.4760	4.4000e-004	0.0000	10.4869

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	0.0698	0.7158	0.7431	1.1600e-003		0.0381	0.0381		0.0351	0.0351	0.0000	101.7049	101.7049	0.0326	0.0000	102.5187
Paving	0.0354					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1053	0.7158	0.7431	1.1600e-003		0.0381	0.0381		0.0351	0.0351	0.0000	101.7049	101.7049	0.0326	0.0000	102.5187

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3.5 Paving - 2020

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	5.5200e-003	5.4200e-003	0.0474	1.2000e-004	0.0111	1.0000e-004	0.0112	2.9600e-003	9.0000e-005	3.0400e-003	0.0000	10.4760	10.4760	4.4000e-004	0.0000	10.4869
Total	5.5200e-003	5.4200e-003	0.0474	1.2000e-004	0.0111	1.0000e-004	0.0112	2.9600e-003	9.0000e-005	3.0400e-003	0.0000	10.4760	10.4760	4.4000e-004	0.0000	10.4869

3.6 Coatings - 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					
Archit. Coating	0.3313					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1900e-003	0.0153	0.0182	3.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	2.5533	2.5533	1.8000e-004	0.0000	2.5576
Total	0.3335	0.0153	0.0182	3.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	2.5533	2.5533	1.8000e-004	0.0000	2.5576

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3.6 Coatings - 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	2.8000e-004	2.7000e-004	2.4000e-003	1.0000e-005	6.2000e-004	1.0000e-005	6.2000e-004	1.6000e-004	0.0000	1.7000e-004	0.0000	0.5625	0.5625	2.0000e-005	0.0000	0.5630
Total	2.8000e-004	2.7000e-004	2.4000e-003	1.0000e-005	6.2000e-004	1.0000e-005	6.2000e-004	1.6000e-004	0.0000	1.7000e-004	0.0000	0.5625	0.5625	2.0000e-005	0.0000	0.5630

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	0.3313					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1900e-003	0.0153	0.0182	3.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	2.5533	2.5533	1.8000e-004	0.0000	2.5576
Total	0.3335	0.0153	0.0182	3.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	2.5533	2.5533	1.8000e-004	0.0000	2.5576

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3.6 Coatings - 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	2.8000e-004	2.7000e-004	2.4000e-003	1.0000e-005	6.2000e-004	1.0000e-005	6.2000e-004	1.6000e-004	0.0000	1.7000e-004	0.0000	0.5625	0.5625	2.0000e-005	0.0000	0.5630
Total	2.8000e-004	2.7000e-004	2.4000e-003	1.0000e-005	6.2000e-004	1.0000e-005	6.2000e-004	1.6000e-004	0.0000	1.7000e-004	0.0000	0.5625	0.5625	2.0000e-005	0.0000	0.5630

4.0 Operational Detail - Mobile

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	0.0103	0.0479	0.1361	3.9000e-004	0.0299	3.8000e-004	0.0303	8.0400e-003	3.6000e-004	8.4000e-003	0.0000	35.4070	35.4070	1.7800e-003	0.0000	35.4514
Unmitigated	0.0103	0.0479	0.1361	3.9000e-004	0.0299	3.8000e-004	0.0303	8.0400e-003	3.6000e-004	8.4000e-003	0.0000	35.4070	35.4070	1.7800e-003	0.0000	35.4514

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	20.66	20.66	20.66	79,835	79,835
Total	20.66	20.66	20.66	79,835	79,835

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
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	14.70	6.60	6.60	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.538832	0.029687	0.203987	0.136286	0.023350	0.005751	0.018582	0.026631	0.004153	0.002845	0.007802	0.001241	0.000853
Unrefrigerated Warehouse-No Rail	0.538832	0.029687	0.203987	0.136286	0.023350	0.005751	0.018582	0.026631	0.004153	0.002845	0.007802	0.001241	0.000853

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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	12.6311	12.6311	5.7000e-004	1.2000e-004	12.6806
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	12.6311	12.6311	5.7000e-004	1.2000e-004	12.6806
NaturalGas Mitigated	2.3000e-004	2.0900e-003	1.7600e-003	1.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	2.2776	2.2776	4.0000e-005	4.0000e-005	2.2912
NaturalGas Unmitigated	2.3000e-004	2.0900e-003	1.7600e-003	1.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	2.2776	2.2776	4.0000e-005	4.0000e-005	2.2912

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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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	42681	2.3000e-004	2.0900e-003	1.7600e-003	1.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	2.2776	2.2776	4.0000e-005	4.0000e-005	2.2912
Total		2.3000e-004	2.0900e-003	1.7600e-003	1.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	2.2776	2.2776	4.0000e-005	4.0000e-005	2.2912

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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	42681	2.3000e-004	2.0900e-003	1.7600e-003	1.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	2.2776	2.2776	4.0000e-005	4.0000e-005	2.2912
Total		2.3000e-004	2.0900e-003	1.7600e-003	1.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	2.2776	2.2776	4.0000e-005	4.0000e-005	2.2912

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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			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	43419	12.6311	5.7000e-004	1.2000e-004	12.6806
Total		12.6311	5.7000e-004	1.2000e-004	12.6806

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	43419	12.6311	5.7000e-004	1.2000e-004	12.6806
Total		12.6311	5.7000e-004	1.2000e-004	12.6806

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	0.1574	0.0000	5.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.8000e-004	9.8000e-004	0.0000	0.0000	1.0400e-003
Unmitigated	0.1574	0.0000	5.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.8000e-004	9.8000e-004	0.0000	0.0000	1.0400e-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	tons/yr										MT/yr					
Architectural Coating	0.0331					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1242					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0000e-005	0.0000	5.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.8000e-004	9.8000e-004	0.0000	0.0000	1.0400e-003
Total	0.1574	0.0000	5.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.8000e-004	9.8000e-004	0.0000	0.0000	1.0400e-003

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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	0.0331					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1242					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0000e-005	0.0000	5.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.8000e-004	9.8000e-004	0.0000	0.0000	1.0400e-003
Total	0.1574	0.0000	5.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.8000e-004	9.8000e-004	0.0000	0.0000	1.0400e-003

7.0 Water Detail

7.1 Mitigation Measures Water

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	5.3798	0.0929	2.2300e-003	8.3666
Unmitigated	5.3798	0.0929	2.2300e-003	8.3666

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	2.84437 / 0	5.3798	0.0929	2.2300e-003	8.3666
Total		5.3798	0.0929	2.2300e-003	8.3666

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	2.84437 / 0	5.3798	0.0929	2.2300e-003	8.3666
Total		5.3798	0.0929	2.2300e-003	8.3666

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2.3466	0.1387	0.0000	5.8135
Unmitigated	2.3466	0.1387	0.0000	5.8135

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8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	11.56	2.3466	0.1387	0.0000	5.8135
Total		2.3466	0.1387	0.0000	5.8135

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	11.56	2.3466	0.1387	0.0000	5.8135
Total		2.3466	0.1387	0.0000	5.8135

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
