

Appendix F

Greenhouse Gas Model Outputs

***CalEEMod Output Files
Construction - Phase 1***

**Valley's Edge Specific Plan Project - Construction (Phase 1)
Butte County AQMD Air District, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	54.00	1000sqft	0.00	54,000.00	0
Other Asphalt Surfaces	11.15	Acre	11.15	485,694.00	0
Health Club	8.64	1000sqft	0.00	8,640.00	0
Apartments Low Rise	170.00	Dwelling Unit	0.00	270,338.00	486
Single Family Housing	36.00	Dwelling Unit	0.00	126,748.00	103
Single Family Housing	390.00	Dwelling Unit	54.62	855,000.00	1115
Free-Standing Discount Store	1.80	1000sqft	0.00	1,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	71
Climate Zone	3			Operational Year	2045
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - VESP. Modeling construction only.

Land Use - Phase 1: VLDR: 36 du, LDR: 150 du, MDR: 50 du, Senior LDR: 240 du, Senior MDR: 120 du, Office: 54 ksf, Retail: 1.8 ksf, Clubhouses: 8.64 ksf, Paving: 11.15 acres. 54.62 Acre site.

Construction Phase - Construction would occur between 4/1/2022 to 10/30/2027.

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Off-road Equipment - Default equipment assumed.

Off-road Equipment - Updated equipment per applicant.

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Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Trips and VMT - Default trips assumed.

Grading - Updated acres disturbed.

Architectural Coating - Application of low-VOC architectural coatings (50 g/L).

Construction Off-road Equipment Mitigation - Water two times daily.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblConstructionPhase	NumDays	40.00	6.00
tblConstructionPhase	NumDays	110.00	298.00
tblConstructionPhase	NumDays	110.00	120.00
tblConstructionPhase	NumDays	1,110.00	656.00
tblConstructionPhase	NumDays	75.00	120.00
tblConstructionPhase	NumDays	75.00	120.00
tblFireplaces	NumberGas	183.18	79.98
tblFireplaces	NumberNoFireplace	76.68	33.48
tblFireplaces	NumberWood	166.14	72.54
tblFleetMix	HHD	0.09	0.00
tblFleetMix	LDA	0.60	0.00
tblFleetMix	LDT1	0.03	0.00
tblFleetMix	LDT2	0.17	0.00
tblFleetMix	LHD1	7.6880e-003	0.00
tblFleetMix	LHD2	3.2390e-003	0.00

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tblFleetMix	MCY	4.1340e-003	0.00
tblFleetMix	MDV	0.08	0.00
tblFleetMix	MH	4.1300e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.3720e-003	0.00
tblFleetMix	SBUS	9.3500e-004	0.00
tblFleetMix	UBUS	9.2700e-004	0.00
tblGrading	AcresOfGrading	330.00	54.62
tblGrading	AcresOfGrading	0.00	54.62
tblLandUse	LandUseSquareFeet	170,000.00	270,338.00
tblLandUse	LandUseSquareFeet	64,800.00	126,748.00
tblLandUse	LandUseSquareFeet	702,000.00	855,000.00
tblLandUse	LotAcreage	1.24	0.00
tblLandUse	LotAcreage	0.20	0.00
tblLandUse	LotAcreage	10.63	0.00
tblLandUse	LotAcreage	11.69	0.00
tblLandUse	LotAcreage	126.62	54.62
tblLandUse	LotAcreage	0.04	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Trenching
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	438.48	191.52
tblTripsAndVMT	WorkerTripNumber	5.00	10.00
tblTripsAndVMT	WorkerTripNumber	10.00	12.00
tblTripsAndVMT	WorkerTripNumber	501.00	588.00
tblTripsAndVMT	WorkerTripNumber	13.00	14.00

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tblTripsAndVMT	WorkerTripNumber	100.00	118.00
tblWater	IndoorWaterUseRate	27,755,614.91	12,118,648.77
tblWater	OutdoorWaterUseRate	17,498,105.05	7,640,017.70
tblWoodstoves	NumberCatalytic	38.34	16.74
tblWoodstoves	NumberNoncatalytic	38.34	16.74

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					
2022	0.0856	0.7212	0.9613	1.8800e-003	0.1738	0.0340	0.2078	0.0737	0.0313	0.1049	0.0000	165.0111	165.0111	0.0508	0.0000	166.2806
2023	0.3397	3.0562	2.8342	7.4100e-003	0.4988	0.1168	0.6156	0.2205	0.1074	0.3279	0.0000	659.8585	659.8585	0.1661	0.0000	664.0106
2024	0.4635	3.0365	3.9106	0.0151	0.8935	0.0457	0.9392	0.2422	0.0421	0.2843	0.0000	1,396.5140	1,396.5140	0.1008	0.0000	1,399.0343
2025	0.4335	2.9012	3.6644	0.0148	0.8901	0.0391	0.9293	0.2413	0.0361	0.2774	0.0000	1,364.8245	1,364.8245	0.0978	0.0000	1,367.2692
2026	1.6485	1.5814	2.1798	6.9900e-003	0.3737	0.0374	0.4111	0.1011	0.0346	0.1357	0.0000	640.7035	640.7035	0.0683	0.0000	642.4098
2027	2.8496	0.0728	0.2151	5.0000e-004	0.0431	3.0100e-003	0.0461	0.0115	2.9900e-003	0.0145	0.0000	44.1334	44.1334	1.5900e-003	0.0000	44.1732
Maximum	2.8496	3.0562	3.9106	0.0151	0.8935	0.1168	0.9392	0.2422	0.1074	0.3279	0.0000	1,396.5140	1,396.5140	0.1661	0.0000	1,399.0343

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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					
2022	0.0856	0.7212	0.9613	1.8800e-003	0.0841	0.0340	0.1181	0.0347	0.0313	0.0660	0.0000	165.0109	165.0109	0.0508	0.0000	166.2805
2023	0.3397	3.0562	2.8342	7.4100e-003	0.2932	0.1168	0.4099	0.1178	0.1074	0.2252	0.0000	659.8579	659.8579	0.1661	0.0000	664.0100
2024	0.4635	3.0365	3.9106	0.0151	0.8935	0.0457	0.9392	0.2422	0.0421	0.2843	0.0000	1,396.5138	1,396.5138	0.1008	0.0000	1,399.0342
2025	0.4335	2.9012	3.6644	0.0148	0.8901	0.0391	0.9293	0.2413	0.0361	0.2774	0.0000	1,364.8244	1,364.8244	0.0978	0.0000	1,367.2691
2026	1.6485	1.5814	2.1798	6.9900e-003	0.3737	0.0374	0.4111	0.1011	0.0346	0.1357	0.0000	640.7033	640.7033	0.0683	0.0000	642.4096
2027	2.8496	0.0728	0.2151	5.0000e-004	0.0431	3.0100e-003	0.0461	0.0115	2.9900e-003	0.0145	0.0000	44.1334	44.1334	1.5900e-003	0.0000	44.1732
Maximum	2.8496	3.0562	3.9106	0.0151	0.8935	0.1168	0.9392	0.2422	0.1074	0.2843	0.0000	1,396.5138	1,396.5138	0.1661	0.0000	1,399.0342

	ROG	NOx	CO	SO2	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	10.28	0.00	9.38	15.91	0.00	12.37	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	4/1/2022	4/8/2022	5	6	
2	Trenching	Grading	4/9/2022	5/31/2023	5	298	
3	Grading	Grading	6/1/2023	11/15/2023	5	120	
4	Building Construction	Building Construction	11/16/2023	5/21/2026	5	656	
5	Paving	Paving	5/22/2026	11/5/2026	5	120	
6	Architectural Coating	Architectural Coating	11/6/2026	4/22/2027	5	120	

Acres of Grading (Site Preparation Phase): 54.62

Acres of Grading (Grading Phase): 54.62

Acres of Paving: 11.15

Residential Indoor: 2,535,474; Residential Outdoor: 845,158; Non-Residential Indoor: 96,660; Non-Residential Outdoor: 32,220;

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Off-Highway Trucks	1	8.00	402	0.38
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Trenching	Excavators	1	8.00	158	0.38
Trenching	Off-Highway Trucks	1	4.00	402	0.38
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Off-Highway Trucks	1	8.00	402	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	3	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	8.00	78	0.48

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Trips and VMT

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		2	10.00	0.00	0.00	12.54	10.52	20.00	LD_Mix	HDT_Mix	HHDT
Trenching		4	12.00	0.00	0.00	12.54	10.52	20.00	LD_Mix	HDT_Mix	HHDT
Grading		7	18.00	0.00	0.00	12.54	10.52	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction		5	588.00	154.00	0.00	12.54	10.52	20.00	LD_Mix	HDT_Mix	HHDT
Paving		5	14.00	0.00	0.00	12.54	10.52	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating		1	118.00	0.00	0.00	12.54	10.52	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 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					
Fugitive Dust					0.1494	0.0000	0.1494	0.0693	0.0000	0.0693	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.1000e-003	0.0384	0.0208	7.0000e-005		1.6900e-003	1.6900e-003		1.5500e-003	1.5500e-003	0.0000	5.7317	5.7317	1.8500e-003	0.0000	5.7780
Total	4.1000e-003	0.0384	0.0208	7.0000e-005	0.1494	1.6900e-003	0.1511	0.0693	1.5500e-003	0.0709	0.0000	5.7317	5.7317	1.8500e-003	0.0000	5.7780

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	1.5000e-004	1.3000e-004	1.1900e-003	0.0000	2.7000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2346	0.2346	1.0000e-005	0.0000	0.2349
Total	1.5000e-004	1.3000e-004	1.1900e-003	0.0000	2.7000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2346	0.2346	1.0000e-005	0.0000	0.2349

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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					0.0672	0.0000	0.0672	0.0312	0.0000	0.0312	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.1000e-003	0.0384	0.0208	7.0000e-005		1.6900e-003	1.6900e-003		1.5500e-003	1.5500e-003	0.0000	5.7316	5.7316	1.8500e-003	0.0000	5.7780
Total	4.1000e-003	0.0384	0.0208	7.0000e-005	0.0672	1.6900e-003	0.0689	0.0312	1.5500e-003	0.0328	0.0000	5.7316	5.7316	1.8500e-003	0.0000	5.7780

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	1.5000e-004	1.3000e-004	1.1900e-003	0.0000	2.7000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2346	0.2346	1.0000e-005	0.0000	0.2349
Total	1.5000e-004	1.3000e-004	1.1900e-003	0.0000	2.7000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2346	0.2346	1.0000e-005	0.0000	0.2349

3.3 Trenching - 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					
Fugitive Dust					0.0137	0.0000	0.0137	1.4800e-003	0.0000	1.4800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0756	0.6778	0.8940	1.7100e-003		0.0322	0.0322		0.0296	0.0296	0.0000	150.1288	150.1288	0.0486	0.0000	151.3427
Total	0.0756	0.6778	0.8940	1.7100e-003	0.0137	0.0322	0.0460	1.4800e-003	0.0296	0.0311	0.0000	150.1288	150.1288	0.0486	0.0000	151.3427

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	5.6800e-003	4.7700e-003	0.0453	1.0000e-004	0.0104	8.0000e-005	0.0105	2.7700e-003	7.0000e-005	2.8400e-003	0.0000	8.9160	8.9160	3.6000e-004	0.0000	8.9251
Total	5.6800e-003	4.7700e-003	0.0453	1.0000e-004	0.0104	8.0000e-005	0.0105	2.7700e-003	7.0000e-005	2.8400e-003	0.0000	8.9160	8.9160	3.6000e-004	0.0000	8.9251

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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					6.1800e-003	0.0000	6.1800e-003	6.7000e-004	0.0000	6.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0756	0.6778	0.8940	1.7100e-003		0.0322	0.0322		0.0296	0.0296	0.0000	150.1286	150.1286	0.0486	0.0000	151.3425
Total	0.0756	0.6778	0.8940	1.7100e-003	6.1800e-003	0.0322	0.0384	6.7000e-004	0.0296	0.0303	0.0000	150.1286	150.1286	0.0486	0.0000	151.3425

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	5.6800e-003	4.7700e-003	0.0453	1.0000e-004	0.0104	8.0000e-005	0.0105	2.7700e-003	7.0000e-005	2.8400e-003	0.0000	8.9160	8.9160	3.6000e-004	0.0000	8.9251
Total	5.6800e-003	4.7700e-003	0.0453	1.0000e-004	0.0104	8.0000e-005	0.0105	2.7700e-003	7.0000e-005	2.8400e-003	0.0000	8.9160	8.9160	3.6000e-004	0.0000	8.9251

3.3 Trenching - 2023

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					0.0137	0.0000	0.0137	1.4800e-003	0.0000	1.4800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0401	0.3458	0.5057	9.7000e-004		0.0158	0.0158		0.0145	0.0145	0.0000	85.3960	85.3960	0.0276	0.0000	86.0865
Total	0.0401	0.3458	0.5057	9.7000e-004	0.0137	0.0158	0.0295	1.4800e-003	0.0145	0.0160	0.0000	85.3960	85.3960	0.0276	0.0000	86.0865

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	3.0000e-003	2.4200e-003	0.0231	5.0000e-005	5.9200e-003	4.0000e-005	5.9600e-003	1.5700e-003	4.0000e-005	1.6100e-003	0.0000	4.8820	4.8820	1.8000e-004	0.0000	4.8866
Total	3.0000e-003	2.4200e-003	0.0231	5.0000e-005	5.9200e-003	4.0000e-005	5.9600e-003	1.5700e-003	4.0000e-005	1.6100e-003	0.0000	4.8820	4.8820	1.8000e-004	0.0000	4.8866

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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					6.1800e-003	0.0000	6.1800e-003	6.7000e-004	0.0000	6.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0401	0.3458	0.5057	9.7000e-004		0.0158	0.0158		0.0145	0.0145	0.0000	85.3959	85.3959	0.0276	0.0000	86.0864
Total	0.0401	0.3458	0.5057	9.7000e-004	6.1800e-003	0.0158	0.0219	6.7000e-004	0.0145	0.0152	0.0000	85.3959	85.3959	0.0276	0.0000	86.0864

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	3.0000e-003	2.4200e-003	0.0231	5.0000e-005	5.9200e-003	4.0000e-005	5.9600e-003	1.5700e-003	4.0000e-005	1.6100e-003	0.0000	4.8820	4.8820	1.8000e-004	0.0000	4.8866
Total	3.0000e-003	2.4200e-003	0.0231	5.0000e-005	5.9200e-003	4.0000e-005	5.9600e-003	1.5700e-003	4.0000e-005	1.6100e-003	0.0000	4.8820	4.8820	1.8000e-004	0.0000	4.8866

3.4 Grading - 2023

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					0.3602	0.0000	0.3602	0.1852	0.0000	0.1852	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2311	2.3170	1.7561	4.4100e-003		0.0946	0.0946		0.0870	0.0870	0.0000	387.5727	387.5727	0.1254	0.0000	390.7064
Total	0.2311	2.3170	1.7561	4.4100e-003	0.3602	0.0946	0.4547	0.1852	0.0870	0.2722	0.0000	387.5727	387.5727	0.1254	0.0000	390.7064

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	4.9900e-003	4.0300e-003	0.0385	9.0000e-005	9.8600e-003	7.0000e-005	9.9400e-003	2.6200e-003	7.0000e-005	2.6900e-003	0.0000	8.1367	8.1367	3.0000e-004	0.0000	8.1443
Total	4.9900e-003	4.0300e-003	0.0385	9.0000e-005	9.8600e-003	7.0000e-005	9.9400e-003	2.6200e-003	7.0000e-005	2.6900e-003	0.0000	8.1367	8.1367	3.0000e-004	0.0000	8.1443

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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					0.1621	0.0000	0.1621	0.0833	0.0000	0.0833	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2311	2.3170	1.7561	4.4100e-003		0.0946	0.0946		0.0870	0.0870	0.0000	387.5722	387.5722	0.1254	0.0000	390.7059
Total	0.2311	2.3170	1.7561	4.4100e-003	0.1621	0.0946	0.2566	0.0833	0.0870	0.1703	0.0000	387.5722	387.5722	0.1254	0.0000	390.7059

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	4.9900e-003	4.0300e-003	0.0385	9.0000e-005	9.8600e-003	7.0000e-005	9.9400e-003	2.6200e-003	7.0000e-005	2.6900e-003	0.0000	8.1367	8.1367	3.0000e-004	0.0000	8.1443
Total	4.9900e-003	4.0300e-003	0.0385	9.0000e-005	9.8600e-003	7.0000e-005	9.9400e-003	2.6200e-003	7.0000e-005	2.6900e-003	0.0000	8.1367	8.1367	3.0000e-004	0.0000	8.1443

3.5 Building Construction - 2023

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	9.7700e-003	0.0952	0.1264	1.7000e-004		5.2700e-003	5.2700e-003		4.8500e-003	4.8500e-003	0.0000	15.2007	15.2007	4.9200e-003	0.0000	15.3236
Total	9.7700e-003	0.0952	0.1264	1.7000e-004		5.2700e-003	5.2700e-003		4.8500e-003	4.8500e-003	0.0000	15.2007	15.2007	4.9200e-003	0.0000	15.3236

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	7.2600e-003	0.2566	0.0493	9.2000e-004	0.0232	4.3000e-004	0.0236	6.7100e-003	4.1000e-004	7.1200e-003	0.0000	87.7908	87.7908	5.0700e-003	0.0000	87.9175
Worker	0.0435	0.0352	0.3352	7.9000e-004	0.0859	6.3000e-004	0.0866	0.0229	5.8000e-004	0.0234	0.0000	70.8796	70.8796	2.6500e-003	0.0000	70.9458
Total	0.0508	0.2917	0.3845	1.7100e-003	0.1091	1.0600e-003	0.1102	0.0296	9.9000e-004	0.0306	0.0000	158.6704	158.6704	7.7200e-003	0.0000	158.8633

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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	9.7700e-003	0.0952	0.1264	1.7000e-004		5.2700e-003	5.2700e-003		4.8500e-003	4.8500e-003	0.0000	15.2007	15.2007	4.9200e-003	0.0000	15.3236
Total	9.7700e-003	0.0952	0.1264	1.7000e-004		5.2700e-003	5.2700e-003		4.8500e-003	4.8500e-003	0.0000	15.2007	15.2007	4.9200e-003	0.0000	15.3236

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	7.2600e-003	0.2566	0.0493	9.2000e-004	0.0232	4.3000e-004	0.0236	6.7100e-003	4.1000e-004	7.1200e-003	0.0000	87.7908	87.7908	5.0700e-003	0.0000	87.9175
Worker	0.0435	0.0352	0.3352	7.9000e-004	0.0859	6.3000e-004	0.0866	0.0229	5.8000e-004	0.0234	0.0000	70.8796	70.8796	2.6500e-003	0.0000	70.9458
Total	0.0508	0.2917	0.3845	1.7100e-003	0.1091	1.0600e-003	0.1102	0.0296	9.9000e-004	0.0306	0.0000	158.6704	158.6704	7.7200e-003	0.0000	158.8633

3.5 Building Construction - 2024

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	0.0747	0.7267	1.0335	1.4200e-003		0.0375	0.0375		0.0345	0.0345	0.0000	124.5011	124.5011	0.0403	0.0000	125.5078
Total	0.0747	0.7267	1.0335	1.4200e-003		0.0375	0.0375		0.0345	0.0345	0.0000	124.5011	124.5011	0.0403	0.0000	125.5078

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	0.0570	2.0518	0.3781	7.5200e-003	0.1900	3.2800e-003	0.1933	0.0550	3.1400e-003	0.0581	0.0000	713.8656	713.8656	0.0413	0.0000	714.8982
Worker	0.3319	0.2580	2.4990	6.1800e-003	0.7035	4.9200e-003	0.7085	0.1872	4.5400e-003	0.1918	0.0000	558.1473	558.1473	0.0192	0.0000	558.6284
Total	0.3888	2.3098	2.8771	0.0137	0.8935	8.2000e-003	0.9017	0.2422	7.6800e-003	0.2499	0.0000	1,272.0129	1,272.0129	0.0606	0.0000	1,273.5266

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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	0.0747	0.7267	1.0335	1.4200e-003		0.0375	0.0375		0.0345	0.0345	0.0000	124.5010	124.5010	0.0403	0.0000	125.5076
Total	0.0747	0.7267	1.0335	1.4200e-003		0.0375	0.0375		0.0345	0.0345	0.0000	124.5010	124.5010	0.0403	0.0000	125.5076

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	0.0570	2.0518	0.3781	7.5200e-003	0.1900	3.2800e-003	0.1933	0.0550	3.1400e-003	0.0581	0.0000	713.8656	713.8656	0.0413	0.0000	714.8982
Worker	0.3319	0.2580	2.4990	6.1800e-003	0.7035	4.9200e-003	0.7085	0.1872	4.5400e-003	0.1918	0.0000	558.1473	558.1473	0.0192	0.0000	558.6284
Total	0.3888	2.3098	2.8771	0.0137	0.8935	8.2000e-003	0.9017	0.2422	7.6800e-003	0.2499	0.0000	1,272.0129	1,272.0129	0.0606	0.0000	1,273.5266

3.5 Building Construction - 2025

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	0.0685	0.6689	1.0258	1.4100e-003		0.0313	0.0313		0.0288	0.0288	0.0000	124.0944	124.0944	0.0401	0.0000	125.0978
Total	0.0685	0.6689	1.0258	1.4100e-003		0.0313	0.0313		0.0288	0.0288	0.0000	124.0944	124.0944	0.0401	0.0000	125.0978

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	0.0548	2.0005	0.3574	7.4400e-003	0.1893	3.0900e-003	0.1924	0.0548	2.9500e-003	0.0577	0.0000	706.6351	706.6351	0.0405	0.0000	707.6470
Worker	0.3103	0.2318	2.2811	5.9100e-003	0.7009	4.7600e-003	0.7056	0.1865	4.3900e-003	0.1909	0.0000	534.0950	534.0950	0.0172	0.0000	534.5245
Total	0.3650	2.2323	2.6386	0.0134	0.8901	7.8500e-003	0.8980	0.2413	7.3400e-003	0.2486	0.0000	1,240.7301	1,240.7301	0.0577	0.0000	1,242.1715

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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	0.0685	0.6689	1.0258	1.4100e-003		0.0313	0.0313		0.0288	0.0288	0.0000	124.0942	124.0942	0.0401	0.0000	125.0976
Total	0.0685	0.6689	1.0258	1.4100e-003		0.0313	0.0313		0.0288	0.0288	0.0000	124.0942	124.0942	0.0401	0.0000	125.0976

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	0.0548	2.0005	0.3574	7.4400e-003	0.1893	3.0900e-003	0.1924	0.0548	2.9500e-003	0.0577	0.0000	706.6351	706.6351	0.0405	0.0000	707.6470
Worker	0.3103	0.2318	2.2811	5.9100e-003	0.7009	4.7600e-003	0.7056	0.1865	4.3900e-003	0.1909	0.0000	534.0950	534.0950	0.0172	0.0000	534.5245
Total	0.3650	2.2323	2.6386	0.0134	0.8901	7.8500e-003	0.8980	0.2413	7.3400e-003	0.2486	0.0000	1,240.7301	1,240.7301	0.0577	0.0000	1,242.1715

3.5 Building Construction - 2026

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	0.0265	0.2589	0.3970	5.5000e-004		0.0121	0.0121		0.0111	0.0111	0.0000	48.0212	48.0212	0.0155	0.0000	48.4095
Total	0.0265	0.2589	0.3970	5.5000e-004		0.0121	0.0121		0.0111	0.0111	0.0000	48.0212	48.0212	0.0155	0.0000	48.4095

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	0.0205	0.7587	0.1318	2.8600e-003	0.0732	1.1300e-003	0.0744	0.0212	1.0800e-003	0.0223	0.0000	271.8130	271.8130	0.0155	0.0000	272.1992
Worker	0.1131	0.0813	0.8123	2.2000e-003	0.2712	1.7700e-003	0.2730	0.0722	1.6300e-003	0.0738	0.0000	198.9862	198.9862	5.9800e-003	0.0000	199.1356
Total	0.1336	0.8400	0.9441	5.0600e-003	0.3445	2.9000e-003	0.3474	0.0934	2.7100e-003	0.0961	0.0000	470.7992	470.7992	0.0214	0.0000	471.3348

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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	0.0265	0.2589	0.3970	5.5000e-004		0.0121	0.0121		0.0111	0.0111	0.0000	48.0211	48.0211	0.0155	0.0000	48.4094
Total	0.0265	0.2589	0.3970	5.5000e-004		0.0121	0.0121		0.0111	0.0111	0.0000	48.0211	48.0211	0.0155	0.0000	48.4094

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	0.0205	0.7587	0.1318	2.8600e-003	0.0732	1.1300e-003	0.0744	0.0212	1.0800e-003	0.0223	0.0000	271.8130	271.8130	0.0155	0.0000	272.1992
Worker	0.1131	0.0813	0.8123	2.2000e-003	0.2712	1.7700e-003	0.2730	0.0722	1.6300e-003	0.0738	0.0000	198.9862	198.9862	5.9800e-003	0.0000	199.1356
Total	0.1336	0.8400	0.9441	5.0600e-003	0.3445	2.9000e-003	0.3474	0.0934	2.7100e-003	0.0961	0.0000	470.7992	470.7992	0.0214	0.0000	471.3348

3.6 Paving - 2026

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	0.0452	0.4432	0.7029	1.0700e-003		0.0209	0.0209		0.0192	0.0192	0.0000	93.6305	93.6305	0.0303	0.0000	94.3876
Paving	0.0146					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0598	0.4432	0.7029	1.0700e-003		0.0209	0.0209		0.0192	0.0192	0.0000	93.6305	93.6305	0.0303	0.0000	94.3876

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	3.2000e-003	2.3000e-003	0.0230	6.0000e-005	7.6700e-003	5.0000e-005	7.7200e-003	2.0400e-003	5.0000e-005	2.0900e-003	0.0000	5.6290	5.6290	1.7000e-004	0.0000	5.6333
Total	3.2000e-003	2.3000e-003	0.0230	6.0000e-005	7.6700e-003	5.0000e-005	7.7200e-003	2.0400e-003	5.0000e-005	2.0900e-003	0.0000	5.6290	5.6290	1.7000e-004	0.0000	5.6333

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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	0.0452	0.4432	0.7029	1.0700e-003		0.0209	0.0209		0.0192	0.0192	0.0000	93.6304	93.6304	0.0303	0.0000	94.3875
Paving	0.0146					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0598	0.4432	0.7029	1.0700e-003		0.0209	0.0209		0.0192	0.0192	0.0000	93.6304	93.6304	0.0303	0.0000	94.3875

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	3.2000e-003	2.3000e-003	0.0230	6.0000e-005	7.6700e-003	5.0000e-005	7.7200e-003	2.0400e-003	5.0000e-005	2.0900e-003	0.0000	5.6290	5.6290	1.7000e-004	0.0000	5.6333
Total	3.2000e-003	2.3000e-003	0.0230	6.0000e-005	7.6700e-003	5.0000e-005	7.7200e-003	2.0400e-003	5.0000e-005	2.0900e-003	0.0000	5.6290	5.6290	1.7000e-004	0.0000	5.6333

3.7 Architectural Coating - 2026

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	1.4118					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.5600e-003	0.0306	0.0482	8.0000e-005		1.3700e-003	1.3700e-003		1.3700e-003	1.3700e-003	0.0000	6.8087	6.8087	3.7000e-004	0.0000	6.8180
Total	1.4164	0.0306	0.0482	8.0000e-005		1.3700e-003	1.3700e-003		1.3700e-003	1.3700e-003	0.0000	6.8087	6.8087	3.7000e-004	0.0000	6.8180

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	8.9900e-003	6.4600e-003	0.0646	1.8000e-004	0.0216	1.4000e-004	0.0217	5.7400e-003	1.3000e-004	5.8700e-003	0.0000	15.8149	15.8149	4.7000e-004	0.0000	15.8268
Total	8.9900e-003	6.4600e-003	0.0646	1.8000e-004	0.0216	1.4000e-004	0.0217	5.7400e-003	1.3000e-004	5.8700e-003	0.0000	15.8149	15.8149	4.7000e-004	0.0000	15.8268

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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	1.4118					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.5600e-003	0.0306	0.0482	8.0000e-005		1.3700e-003	1.3700e-003		1.3700e-003	1.3700e-003	0.0000	6.8087	6.8087	3.7000e-004	0.0000	6.8180
Total	1.4164	0.0306	0.0482	8.0000e-005		1.3700e-003	1.3700e-003		1.3700e-003	1.3700e-003	0.0000	6.8087	6.8087	3.7000e-004	0.0000	6.8180

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	8.9900e-003	6.4600e-003	0.0646	1.8000e-004	0.0216	1.4000e-004	0.0217	5.7400e-003	1.3000e-004	5.8700e-003	0.0000	15.8149	15.8149	4.7000e-004	0.0000	15.8268
Total	8.9900e-003	6.4600e-003	0.0646	1.8000e-004	0.0216	1.4000e-004	0.0217	5.7400e-003	1.3000e-004	5.8700e-003	0.0000	15.8149	15.8149	4.7000e-004	0.0000	15.8268

3.7 Architectural Coating - 2027

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	2.8237					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.1100e-003	0.0611	0.0965	1.6000e-004		2.7500e-003	2.7500e-003		2.7500e-003	2.7500e-003	0.0000	13.6174	13.6174	7.4000e-004	0.0000	13.6359
Total	2.8328	0.0611	0.0965	1.6000e-004		2.7500e-003	2.7500e-003		2.7500e-003	2.7500e-003	0.0000	13.6174	13.6174	7.4000e-004	0.0000	13.6359

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	0.0169	0.0117	0.1186	3.4000e-004	0.0431	2.7000e-004	0.0434	0.0115	2.5000e-004	0.0117	0.0000	30.5161	30.5161	8.5000e-004	0.0000	30.5373
Total	0.0169	0.0117	0.1186	3.4000e-004	0.0431	2.7000e-004	0.0434	0.0115	2.5000e-004	0.0117	0.0000	30.5161	30.5161	8.5000e-004	0.0000	30.5373

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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	2.8237					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.1100e-003	0.0611	0.0965	1.6000e-004		2.7500e-003	2.7500e-003		2.7500e-003	2.7500e-003	0.0000	13.6173	13.6173	7.4000e-004	0.0000	13.6359
Total	2.8328	0.0611	0.0965	1.6000e-004		2.7500e-003	2.7500e-003		2.7500e-003	2.7500e-003	0.0000	13.6173	13.6173	7.4000e-004	0.0000	13.6359

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	0.0169	0.0117	0.1186	3.4000e-004	0.0431	2.7000e-004	0.0434	0.0115	2.5000e-004	0.0117	0.0000	30.5161	30.5161	8.5000e-004	0.0000	30.5373
Total	0.0169	0.0117	0.1186	3.4000e-004	0.0431	2.7000e-004	0.0434	0.0115	2.5000e-004	0.0117	0.0000	30.5161	30.5161	8.5000e-004	0.0000	30.5373

***CalEEMod Output Files
Construction - Phase 2***

**Valley's Edge Specific Plan Project - Construction (Phase 2)
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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	108.00	1000sqft	0.00	108,000.00	0
Other Asphalt Surfaces	16.66	Acre	16.66	725,709.60	0
Health Club	11.52	1000sqft	0.00	11,520.00	0
Apartments Low Rise	293.00	Dwelling Unit	0.00	467,201.00	838
Apartments Mid Rise	97.00	Dwelling Unit	0.00	87,700.00	277
Single Family Housing	84.00	Dwelling Unit	0.00	289,175.00	240
Single Family Housing	630.00	Dwelling Unit	99.28	1,385,171.00	1802
Free-Standing Discount Store	7.20	1000sqft	0.00	7,200.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	71
Climate Zone	3			Operational Year	2045
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - VESP. Modeling construction only.

Land Use - Phase 2: VLDR: 73 du, LDR: 250 du, MDR: 93 du, MHDR: 97 du, Senior VLDR: 11, Senior LDR: 380 du, Senior MDR: 200 du, Office: 108 ksf, Retail: 7.2 ksf, Clubhouses: 11.52 ksf, Paving: 16.66 acres. 99.28 Acre site.

Construction Phase - Construction would occur between 4/1/2027 to 10/30/2033.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Trips and VMT - Default trips assumed.

Grading - Updated disturbed acres.

Architectural Coating - Application of low-VOC architectural coatings (50 g/L).

Construction Off-road Equipment Mitigation - Water two times daily.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_Nonresidential_Exterior	63360	32220
tblAreaCoating	Area_Nonresidential_Interior	190080	96660
tblAreaCoating	Area_Parking	43543	29142
tblAreaCoating	Area_Residential_Exterior	1504741	845158
tblAreaCoating	Area_Residential_Interior	4514223	2535474
tblConstructionPhase	NumDays	120.00	44.00
tblConstructionPhase	NumDays	310.00	552.00
tblConstructionPhase	NumDays	310.00	221.00
tblConstructionPhase	NumDays	3,100.00	900.00
tblConstructionPhase	NumDays	220.00	221.00
tblConstructionPhase	NumDays	220.00	221.00
tblFireplaces	NumberGas	307.02	79.98
tblFireplaces	NumberNoFireplace	128.52	33.48
tblFireplaces	NumberWood	278.46	72.54

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tblFleetMix	HHD	0.09	0.00
tblFleetMix	LDA	0.60	0.00
tblFleetMix	LDT1	0.03	0.00
tblFleetMix	LDT2	0.17	0.00
tblFleetMix	LHD1	7.6880e-003	0.00
tblFleetMix	LHD2	3.2390e-003	0.00
tblFleetMix	MCY	4.1340e-003	0.00
tblFleetMix	MDV	0.08	0.00
tblFleetMix	MH	4.1300e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.3720e-003	0.00
tblFleetMix	SBUS	9.3500e-004	0.00
tblFleetMix	UBUS	9.2700e-004	0.00
tblGrading	AcresOfGrading	930.00	99.28
tblGrading	AcresOfGrading	0.00	99.28
tblLandUse	LandUseSquareFeet	293,000.00	467,201.00
tblLandUse	LandUseSquareFeet	97,000.00	87,700.00
tblLandUse	LandUseSquareFeet	1,134,000.00	1,385,171.00
tblLandUse	LandUseSquareFeet	151,200.00	289,175.00
tblLandUse	LotAcreage	2.48	0.00
tblLandUse	LotAcreage	0.26	0.00
tblLandUse	LotAcreage	18.31	0.00
tblLandUse	LotAcreage	2.55	0.00
tblLandUse	LotAcreage	204.55	99.28
tblLandUse	LotAcreage	27.27	0.00
tblLandUse	LotAcreage	0.17	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00

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tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	30.97	7.74
tblSolidWaste	SolidWasteGenerationRate	100.44	50.22
tblSolidWaste	SolidWasteGenerationRate	65.66	49.25
tblSolidWaste	SolidWasteGenerationRate	735.12	191.52
tblTripsAndVMT	WorkerTripNumber	5.00	12.00
tblTripsAndVMT	WorkerTripNumber	884.00	1,020.00
tblTripsAndVMT	WorkerTripNumber	13.00	14.00
tblTripsAndVMT	WorkerTripNumber	177.00	204.00
tblWater	IndoorWaterUseRate	533,322.15	133,330.54
tblWater	IndoorWaterUseRate	19,195,244.78	9,597,622.39
tblWater	IndoorWaterUseRate	681,329.02	510,996.76
tblWater	IndoorWaterUseRate	46,519,974.29	12,118,648.77
tblWater	OutdoorWaterUseRate	326,874.87	81,718.72
tblWater	OutdoorWaterUseRate	11,764,827.45	5,882,413.72
tblWater	OutdoorWaterUseRate	417,588.75	313,191.57
tblWater	OutdoorWaterUseRate	29,327,809.88	7,640,017.70
tblWoodstoves	NumberCatalytic	64.26	16.74
tblWoodstoves	NumberNoncatalytic	64.26	16.74

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					
2027	0.3451	3.0152	2.9578	7.6500e-003	1.1609	0.1214	1.2823	0.5739	0.1117	0.6856	0.0000	672.4442	672.4442	0.2129	0.0000	677.7663
2028	0.2093	1.7600	2.1655	4.9700e-003	0.3834	0.0712	0.4546	0.1710	0.0655	0.2365	0.0000	437.1292	437.1292	0.1378	0.0000	440.5747
2029	0.3086	2.2742	2.7071	0.0119	0.7489	0.0349	0.7838	0.1986	0.0322	0.2308	0.0000	1,092.1236	1,092.1236	0.0930	0.0000	1,094.4490
2030	0.5284	3.7958	4.1835	0.0226	1.5329	0.0177	1.5506	0.4153	0.0171	0.4323	0.0000	2,090.3949	2,090.3949	0.0857	0.0000	2,092.5370
2031	0.4857	3.7350	3.9405	0.0223	1.5329	0.0171	1.5500	0.4153	0.0165	0.4318	0.0000	2,067.4315	2,067.4315	0.0824	0.0000	2,069.4912
2032	0.6552	3.6366	3.7371	0.0218	1.5095	0.0171	1.5266	0.4089	0.0165	0.4254	0.0000	2,018.9956	2,018.9956	0.0787	0.0000	2,020.9635
2033	7.5184	0.7827	1.9755	4.1900e-003	0.2140	0.0287	0.2428	0.0570	0.0287	0.0856	0.0000	366.5467	366.5467	0.0129	0.0000	366.8702
Maximum	7.5184	3.7958	4.1835	0.0226	1.5329	0.1214	1.5506	0.5739	0.1117	0.6856	0.0000	2,090.3949	2,090.3949	0.2129	0.0000	2,092.5370

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	4/1/2027	6/1/2027	5	44	
2	Trenching	Grading	6/2/2027	7/12/2029	5	552	
3	Grading	Grading	6/2/2027	4/5/2028	5	221	
4	Building Construction	Building Construction	7/13/2029	12/23/2032	5	900	
5	Paving	Paving	12/24/2032	10/28/2033	5	221	
6	Architectural Coating	Architectural Coating	12/24/2032	10/28/2033	5	221	

Acres of Grading (Site Preparation Phase): 99.28

Acres of Grading (Grading Phase): 99.28

Acres of Paving: 16.66

Residential Indoor: 4,514,225; Residential Outdoor: 1,504,742; Non-Residential Indoor: 190,080; Non-Residential Outdoor: 63,360;

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Off-Highway Trucks	1	8.00	402	0.38
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Trenching	Excavators	1	8.00	158	0.38
Trenching	Off-Highway Trucks	1	4.00	402	0.38
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Off-Highway Trucks	1	8.00	402	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	3	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	8.00	78	0.48

Trips and VMT

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	2	12.00	0.00	0.00	12.54	10.52	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	4	10.00	0.00	0.00	12.54	10.52	20.00	LD_Mix	HDT_Mix	HHDT
Grading	7	18.00	0.00	0.00	12.54	10.52	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	1,020.00	258.00	0.00	12.54	10.52	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	14.00	0.00	0.00	12.54	10.52	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	204.00	0.00	0.00	12.54	10.52	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2027

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					0.4140	0.0000	0.4140	0.2043	0.0000	0.2043	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0248	0.2089	0.1360	4.8000e-004		8.6400e-003	8.6400e-003		7.9500e-003	7.9500e-003	0.0000	42.0444	42.0444	0.0136	0.0000	42.3843
Total	0.0248	0.2089	0.1360	4.8000e-004	0.4140	8.6400e-003	0.4226	0.2043	7.9500e-003	0.2123	0.0000	42.0444	42.0444	0.0136	0.0000	42.3843

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	9.4000e-004	6.5000e-004	6.6300e-003	2.0000e-005	2.4100e-003	1.0000e-005	2.4300e-003	6.4000e-004	1.0000e-005	6.6000e-004	0.0000	1.7068	1.7068	5.0000e-005	0.0000	1.7080
Total	9.4000e-004	6.5000e-004	6.6300e-003	2.0000e-005	2.4100e-003	1.0000e-005	2.4300e-003	6.4000e-004	1.0000e-005	6.6000e-004	0.0000	1.7068	1.7068	5.0000e-005	0.0000	1.7080

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					0.1863	0.0000	0.1863	0.0919	0.0000	0.0919	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0248	0.2089	0.1360	4.8000e-004		8.6400e-003	8.6400e-003		7.9500e-003	7.9500e-003	0.0000	42.0443	42.0443	0.0136	0.0000	42.3843
Total	0.0248	0.2089	0.1360	4.8000e-004	0.1863	8.6400e-003	0.1949	0.0919	7.9500e-003	0.0999	0.0000	42.0443	42.0443	0.0136	0.0000	42.3843

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	9.4000e-004	6.5000e-004	6.6300e-003	2.0000e-005	2.4100e-003	1.0000e-005	2.4300e-003	6.4000e-004	1.0000e-005	6.6000e-004	0.0000	1.7068	1.7068	5.0000e-005	0.0000	1.7080
Total	9.4000e-004	6.5000e-004	6.6300e-003	2.0000e-005	2.4100e-003	1.0000e-005	2.4300e-003	6.4000e-004	1.0000e-005	6.6000e-004	0.0000	1.7068	1.7068	5.0000e-005	0.0000	1.7080

3.3 Trenching - 2027

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					0.0261	0.0000	0.0261	2.8100e-003	0.0000	2.8100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0513	0.4074	0.7123	1.3800e-003		0.0168	0.0168		0.0154	0.0154	0.0000	121.0529	121.0529	0.0392	0.0000	122.0317
Total	0.0513	0.4074	0.7123	1.3800e-003	0.0261	0.0168	0.0428	2.8100e-003	0.0154	0.0182	0.0000	121.0529	121.0529	0.0392	0.0000	122.0317

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	2.7300e-003	1.8900e-003	0.0192	5.0000e-005	6.9900e-003	4.0000e-005	7.0300e-003	1.8600e-003	4.0000e-005	1.9000e-003	0.0000	4.9459	4.9459	1.4000e-004	0.0000	4.9494
Total	2.7300e-003	1.8900e-003	0.0192	5.0000e-005	6.9900e-003	4.0000e-005	7.0300e-003	1.8600e-003	4.0000e-005	1.9000e-003	0.0000	4.9459	4.9459	1.4000e-004	0.0000	4.9494

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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					0.0117	0.0000	0.0117	1.2700e-003	0.0000	1.2700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0513	0.4074	0.7123	1.3800e-003		0.0168	0.0168		0.0154	0.0154	0.0000	121.0528	121.0528	0.0392	0.0000	122.0315
Total	0.0513	0.4074	0.7123	1.3800e-003	0.0117	0.0168	0.0285	1.2700e-003	0.0154	0.0167	0.0000	121.0528	121.0528	0.0392	0.0000	122.0315

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	2.7300e-003	1.8900e-003	0.0192	5.0000e-005	6.9900e-003	4.0000e-005	7.0300e-003	1.8600e-003	4.0000e-005	1.9000e-003	0.0000	4.9459	4.9459	1.4000e-004	0.0000	4.9494
Total	2.7300e-003	1.8900e-003	0.0192	5.0000e-005	6.9900e-003	4.0000e-005	7.0300e-003	1.8600e-003	4.0000e-005	1.9000e-003	0.0000	4.9459	4.9459	1.4000e-004	0.0000	4.9494

3.3 Trenching - 2028

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					0.0261	0.0000	0.0261	2.8100e-003	0.0000	2.8100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0871	0.6922	1.2105	2.3400e-003		0.0285	0.0285		0.0262	0.0262	0.0000	205.7108	205.7108	0.0665	0.0000	207.3741
Total	0.0871	0.6922	1.2105	2.3400e-003	0.0261	0.0285	0.0546	2.8100e-003	0.0262	0.0290	0.0000	205.7108	205.7108	0.0665	0.0000	207.3741

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	4.3200e-003	2.9100e-003	0.0302	9.0000e-005	0.0119	7.0000e-005	0.0119	3.1600e-003	6.0000e-005	3.2200e-003	0.0000	8.1288	8.1288	2.1000e-004	0.0000	8.1341
Total	4.3200e-003	2.9100e-003	0.0302	9.0000e-005	0.0119	7.0000e-005	0.0119	3.1600e-003	6.0000e-005	3.2200e-003	0.0000	8.1288	8.1288	2.1000e-004	0.0000	8.1341

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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					0.0117	0.0000	0.0117	1.2700e-003	0.0000	1.2700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0871	0.6922	1.2105	2.3400e-003		0.0285	0.0285		0.0262	0.0262	0.0000	205.7106	205.7106	0.0665	0.0000	207.3738
Total	0.0871	0.6922	1.2105	2.3400e-003	0.0117	0.0285	0.0402	1.2700e-003	0.0262	0.0275	0.0000	205.7106	205.7106	0.0665	0.0000	207.3738

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	4.3200e-003	2.9100e-003	0.0302	9.0000e-005	0.0119	7.0000e-005	0.0119	3.1600e-003	6.0000e-005	3.2200e-003	0.0000	8.1288	8.1288	2.1000e-004	0.0000	8.1341
Total	4.3200e-003	2.9100e-003	0.0302	9.0000e-005	0.0119	7.0000e-005	0.0119	3.1600e-003	6.0000e-005	3.2200e-003	0.0000	8.1288	8.1288	2.1000e-004	0.0000	8.1341

3.3 Trenching - 2029

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					0.0261	0.0000	0.0261	2.8100e-003	0.0000	2.8100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0466	0.3701	0.6471	1.2500e-003		0.0152	0.0152		0.0140	0.0140	0.0000	109.9762	109.9762	0.0356	0.0000	110.8654
Total	0.0466	0.3701	0.6471	1.2500e-003	0.0261	0.0152	0.0413	2.8100e-003	0.0140	0.0168	0.0000	109.9762	109.9762	0.0356	0.0000	110.8654

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	2.1200e-003	1.4000e-003	0.0148	5.0000e-005	6.3500e-003	3.0000e-005	6.3800e-003	1.6900e-003	3.0000e-005	1.7200e-003	0.0000	4.2131	4.2131	1.0000e-004	0.0000	4.2156
Total	2.1200e-003	1.4000e-003	0.0148	5.0000e-005	6.3500e-003	3.0000e-005	6.3800e-003	1.6900e-003	3.0000e-005	1.7200e-003	0.0000	4.2131	4.2131	1.0000e-004	0.0000	4.2156

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					0.0117	0.0000	0.0117	1.2700e-003	0.0000	1.2700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0466	0.3701	0.6471	1.2500e-003		0.0152	0.0152		0.0140	0.0140	0.0000	109.9760	109.9760	0.0356	0.0000	110.8652
Total	0.0466	0.3701	0.6471	1.2500e-003	0.0117	0.0152	0.0270	1.2700e-003	0.0140	0.0153	0.0000	109.9760	109.9760	0.0356	0.0000	110.8652

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	2.1200e-003	1.4000e-003	0.0148	5.0000e-005	6.3500e-003	3.0000e-005	6.3800e-003	1.6900e-003	3.0000e-005	1.7200e-003	0.0000	4.2131	4.2131	1.0000e-004	0.0000	4.2156
Total	2.1200e-003	1.4000e-003	0.0148	5.0000e-005	6.3500e-003	3.0000e-005	6.3800e-003	1.6900e-003	3.0000e-005	1.7200e-003	0.0000	4.2131	4.2131	1.0000e-004	0.0000	4.2156

3.4 Grading - 2027

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					0.6989	0.0000	0.6989	0.3609	0.0000	0.3609	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2605	2.3929	2.0490	5.6200e-003		0.0959	0.0959		0.0882	0.0882	0.0000	493.7915	493.7915	0.1597	0.0000	497.7840
Total	0.2605	2.3929	2.0490	5.6200e-003	0.6989	0.0959	0.7947	0.3609	0.0882	0.4491	0.0000	493.7915	493.7915	0.1597	0.0000	497.7840

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	4.9200e-003	3.4100e-003	0.0346	1.0000e-004	0.0126	8.0000e-005	0.0127	3.3500e-003	7.0000e-005	3.4200e-003	0.0000	8.9027	8.9027	2.5000e-004	0.0000	8.9089
Total	4.9200e-003	3.4100e-003	0.0346	1.0000e-004	0.0126	8.0000e-005	0.0127	3.3500e-003	7.0000e-005	3.4200e-003	0.0000	8.9027	8.9027	2.5000e-004	0.0000	8.9089

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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					0.3145	0.0000	0.3145	0.1624	0.0000	0.1624	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2605	2.3929	2.0490	5.6200e-003		0.0959	0.0959		0.0882	0.0882	0.0000	493.7909	493.7909	0.1597	0.0000	497.7834
Total	0.2605	2.3929	2.0490	5.6200e-003	0.3145	0.0959	0.4104	0.1624	0.0882	0.2506	0.0000	493.7909	493.7909	0.1597	0.0000	497.7834

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	4.9200e-003	3.4100e-003	0.0346	1.0000e-004	0.0126	8.0000e-005	0.0127	3.3500e-003	7.0000e-005	3.4200e-003	0.0000	8.9027	8.9027	2.5000e-004	0.0000	8.9089
Total	4.9200e-003	3.4100e-003	0.0346	1.0000e-004	0.0126	8.0000e-005	0.0127	3.3500e-003	7.0000e-005	3.4200e-003	0.0000	8.9027	8.9027	2.5000e-004	0.0000	8.9089

3.4 Grading - 2028

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					0.3399	0.0000	0.3399	0.1636	0.0000	0.1636	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1158	1.0635	0.9107	2.5000e-003		0.0426	0.0426		0.0392	0.0392	0.0000	219.4629	219.4629	0.0710	0.0000	221.2374
Total	0.1158	1.0635	0.9107	2.5000e-003	0.3399	0.0426	0.3825	0.1636	0.0392	0.2028	0.0000	219.4629	219.4629	0.0710	0.0000	221.2374

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	2.0300e-003	1.3700e-003	0.0142	4.0000e-005	5.5900e-003	3.0000e-005	5.6200e-003	1.4900e-003	3.0000e-005	1.5200e-003	0.0000	3.8268	3.8268	1.0000e-004	0.0000	3.8293
Total	2.0300e-003	1.3700e-003	0.0142	4.0000e-005	5.5900e-003	3.0000e-005	5.6200e-003	1.4900e-003	3.0000e-005	1.5200e-003	0.0000	3.8268	3.8268	1.0000e-004	0.0000	3.8293

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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					0.1529	0.0000	0.1529	0.0736	0.0000	0.0736	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1158	1.0635	0.9107	2.5000e-003		0.0426	0.0426		0.0392	0.0392	0.0000	219.4626	219.4626	0.0710	0.0000	221.2371
Total	0.1158	1.0635	0.9107	2.5000e-003	0.1529	0.0426	0.1955	0.0736	0.0392	0.1128	0.0000	219.4626	219.4626	0.0710	0.0000	221.2371

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	2.0300e-003	1.3700e-003	0.0142	4.0000e-005	5.5900e-003	3.0000e-005	5.6200e-003	1.4900e-003	3.0000e-005	1.5200e-003	0.0000	3.8268	3.8268	1.0000e-004	0.0000	3.8293
Total	2.0300e-003	1.3700e-003	0.0142	4.0000e-005	5.5900e-003	3.0000e-005	5.6200e-003	1.4900e-003	3.0000e-005	1.5200e-003	0.0000	3.8268	3.8268	1.0000e-004	0.0000	3.8293

3.5 Building Construction - 2029

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	0.0320	0.3127	0.4795	6.6000e-004		0.0146	0.0146		0.0135	0.0135	0.0000	58.0058	58.0058	0.0188	0.0000	58.4748
Total	0.0320	0.3127	0.4795	6.6000e-004		0.0146	0.0146		0.0135	0.0135	0.0000	58.0058	58.0058	0.0188	0.0000	58.4748

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	0.0384	1.4650	0.2398	5.7200e-003	0.1482	2.0000e-003	0.1502	0.0429	1.9100e-003	0.0448	0.0000	542.7519	542.7519	0.0296	0.0000	543.4919
Worker	0.1896	0.1251	1.3259	4.1700e-003	0.5683	3.0400e-003	0.5713	0.1512	2.8000e-003	0.1540	0.0000	377.1766	377.1766	8.9800e-003	0.0000	377.4012
Total	0.2279	1.5901	1.5657	9.8900e-003	0.7165	5.0400e-003	0.7216	0.1941	4.7100e-003	0.1988	0.0000	919.9285	919.9285	0.0386	0.0000	920.8932

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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	0.0320	0.3127	0.4795	6.6000e-004		0.0146	0.0146		0.0135	0.0135	0.0000	58.0057	58.0057	0.0188	0.0000	58.4747
Total	0.0320	0.3127	0.4795	6.6000e-004		0.0146	0.0146		0.0135	0.0135	0.0000	58.0057	58.0057	0.0188	0.0000	58.4747

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	0.0384	1.4650	0.2398	5.7200e-003	0.1482	2.0000e-003	0.1502	0.0429	1.9100e-003	0.0448	0.0000	542.7519	542.7519	0.0296	0.0000	543.4919
Worker	0.1896	0.1251	1.3259	4.1700e-003	0.5683	3.0400e-003	0.5713	0.1512	2.8000e-003	0.1540	0.0000	377.1766	377.1766	8.9800e-003	0.0000	377.4012
Total	0.2279	1.5901	1.5657	9.8900e-003	0.7165	5.0400e-003	0.7216	0.1941	4.7100e-003	0.1988	0.0000	919.9285	919.9285	0.0386	0.0000	920.8932

3.5 Building Construction - 2030

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	0.0797	0.4594	1.0790	1.7300e-003		7.5400e-003	7.5400e-003		7.5400e-003	7.5400e-003	0.0000	148.5396	148.5396	6.3800e-003	0.0000	148.6992
Total	0.0797	0.4594	1.0790	1.7300e-003		7.5400e-003	7.5400e-003		7.5400e-003	7.5400e-003	0.0000	148.5396	148.5396	6.3800e-003	0.0000	148.6992

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	0.0805	3.0976	0.4999	0.0122	0.3171	4.1200e-003	0.3212	0.0918	3.9400e-003	0.0957	0.0000	1,157.6580	1,157.6580	0.0622	0.0000	1,159.2137
Worker	0.3682	0.2387	2.6045	8.6700e-003	1.2158	6.0500e-003	1.2218	0.3235	5.5600e-003	0.3291	0.0000	784.1974	784.1974	0.0171	0.0000	784.6240
Total	0.4487	3.3364	3.1044	0.0209	1.5329	0.0102	1.5430	0.4153	9.5000e-003	0.4248	0.0000	1,941.8553	1,941.8553	0.0793	0.0000	1,943.8377

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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	0.0797	0.4594	1.0790	1.7300e-003		7.5400e-003	7.5400e-003		7.5400e-003	7.5400e-003	0.0000	148.5395	148.5395	6.3800e-003	0.0000	148.6991
Total	0.0797	0.4594	1.0790	1.7300e-003		7.5400e-003	7.5400e-003		7.5400e-003	7.5400e-003	0.0000	148.5395	148.5395	6.3800e-003	0.0000	148.6991

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	0.0805	3.0976	0.4999	0.0122	0.3171	4.1200e-003	0.3212	0.0918	3.9400e-003	0.0957	0.0000	1,157.6580	1,157.6580	0.0622	0.0000	1,159.2137
Worker	0.3682	0.2387	2.6045	8.6700e-003	1.2158	6.0500e-003	1.2218	0.3235	5.5600e-003	0.3291	0.0000	784.1974	784.1974	0.0171	0.0000	784.6240
Total	0.4487	3.3364	3.1044	0.0209	1.5329	0.0102	1.5430	0.4153	9.5000e-003	0.4248	0.0000	1,941.8553	1,941.8553	0.0793	0.0000	1,943.8377

3.5 Building Construction - 2031

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	0.0797	0.4594	1.0790	1.7300e-003		7.5400e-003	7.5400e-003		7.5400e-003	7.5400e-003	0.0000	148.5396	148.5396	6.3800e-003	0.0000	148.6992
Total	0.0797	0.4594	1.0790	1.7300e-003		7.5400e-003	7.5400e-003		7.5400e-003	7.5400e-003	0.0000	148.5396	148.5396	6.3800e-003	0.0000	148.6992

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	0.0792	3.0657	0.4898	0.0122	0.3171	3.9900e-003	0.3211	0.0918	3.8100e-003	0.0956	0.0000	1,154.8993	1,154.8993	0.0611	0.0000	1,156.4262
Worker	0.3268	0.2099	2.3716	8.4400e-003	1.2158	5.6000e-003	1.2214	0.3235	5.1500e-003	0.3287	0.0000	763.9926	763.9926	0.0149	0.0000	764.3658
Total	0.4060	3.2756	2.8614	0.0206	1.5329	9.5900e-003	1.5425	0.4153	8.9600e-003	0.4242	0.0000	1,918.8919	1,918.8919	0.0760	0.0000	1,920.7920

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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	0.0797	0.4594	1.0790	1.7300e-003		7.5400e-003	7.5400e-003		7.5400e-003	7.5400e-003	0.0000	148.5395	148.5395	6.3800e-003	0.0000	148.6991
Total	0.0797	0.4594	1.0790	1.7300e-003		7.5400e-003	7.5400e-003		7.5400e-003	7.5400e-003	0.0000	148.5395	148.5395	6.3800e-003	0.0000	148.6991

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	0.0792	3.0657	0.4898	0.0122	0.3171	3.9900e-003	0.3211	0.0918	3.8100e-003	0.0956	0.0000	1,154.8993	1,154.8993	0.0611	0.0000	1,156.4262
Worker	0.3268	0.2099	2.3716	8.4400e-003	1.2158	5.6000e-003	1.2214	0.3235	5.1500e-003	0.3287	0.0000	763.9926	763.9926	0.0149	0.0000	764.3658
Total	0.4060	3.2756	2.8614	0.0206	1.5329	9.5900e-003	1.5425	0.4153	8.9600e-003	0.4242	0.0000	1,918.8919	1,918.8919	0.0760	0.0000	1,920.7920

3.5 Building Construction - 2032

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	0.0782	0.4506	1.0584	1.7000e-003		7.3900e-003	7.3900e-003		7.3900e-003	7.3900e-003	0.0000	145.6940	145.6940	6.2600e-003	0.0000	145.8506
Total	0.0782	0.4506	1.0584	1.7000e-003		7.3900e-003	7.3900e-003		7.3900e-003	7.3900e-003	0.0000	145.6940	145.6940	6.2600e-003	0.0000	145.8506

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	0.0767	2.9795	0.4731	0.0119	0.3110	3.7900e-003	0.3148	0.0900	3.6300e-003	0.0936	0.0000	1,130.8945	1,130.8945	0.0590	0.0000	1,132.3706
Worker	0.2903	0.1845	2.1498	8.0900e-003	1.1925	5.1100e-003	1.1976	0.3173	4.7000e-003	0.3220	0.0000	732.1022	732.1022	0.0130	0.0000	732.4282
Total	0.3670	3.1640	2.6228	0.0200	1.5035	8.9000e-003	1.5124	0.4073	8.3300e-003	0.4156	0.0000	1,862.9967	1,862.9967	0.0721	0.0000	1,864.7988

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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	0.0782	0.4506	1.0584	1.7000e-003		7.3900e-003	7.3900e-003		7.3900e-003	7.3900e-003	0.0000	145.6939	145.6939	6.2600e-003	0.0000	145.8504
Total	0.0782	0.4506	1.0584	1.7000e-003		7.3900e-003	7.3900e-003		7.3900e-003	7.3900e-003	0.0000	145.6939	145.6939	6.2600e-003	0.0000	145.8504

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	0.0767	2.9795	0.4731	0.0119	0.3110	3.7900e-003	0.3148	0.0900	3.6300e-003	0.0936	0.0000	1,130.8945	1,130.8945	0.0590	0.0000	1,132.3706
Worker	0.2903	0.1845	2.1498	8.0900e-003	1.1925	5.1100e-003	1.1976	0.3173	4.7000e-003	0.3220	0.0000	732.1022	732.1022	0.0130	0.0000	732.4282
Total	0.3670	3.1640	2.6228	0.0200	1.5035	8.9000e-003	1.5124	0.4073	8.3300e-003	0.4156	0.0000	1,862.9967	1,862.9967	0.0721	0.0000	1,864.7988

3.6 Paving - 2032

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	3.2100e-003	0.0176	0.0380	7.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004	0.0000	5.6163	5.6163	2.6000e-004	0.0000	5.6229
Paving	5.9000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.8000e-003	0.0176	0.0380	7.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004	0.0000	5.6163	5.6163	2.6000e-004	0.0000	5.6229

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	9.0000e-005	6.0000e-005	6.9000e-004	0.0000	3.8000e-004	0.0000	3.9000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2355	0.2355	0.0000	0.0000	0.2356
Total	9.0000e-005	6.0000e-005	6.9000e-004	0.0000	3.8000e-004	0.0000	3.9000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2355	0.2355	0.0000	0.0000	0.2356

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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	3.2100e-003	0.0176	0.0380	7.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004	0.0000	5.6163	5.6163	2.6000e-004	0.0000	5.6229
Paving	5.9000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.8000e-003	0.0176	0.0380	7.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004	0.0000	5.6163	5.6163	2.6000e-004	0.0000	5.6229

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	9.0000e-005	6.0000e-005	6.9000e-004	0.0000	3.8000e-004	0.0000	3.9000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2355	0.2355	0.0000	0.0000	0.2356
Total	9.0000e-005	6.0000e-005	6.9000e-004	0.0000	3.8000e-004	0.0000	3.9000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2355	0.2355	0.0000	0.0000	0.2356

3.6 Paving - 2033

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	0.1151	0.6303	1.3602	2.3400e-003		0.0250	0.0250		0.0250	0.0250	0.0000	201.2522	201.2522	9.3800e-003	0.0000	201.4866
Paving	0.0212					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1363	0.6303	1.3602	2.3400e-003		0.0250	0.0250		0.0250	0.0250	0.0000	201.2522	201.2522	9.3800e-003	0.0000	201.4866

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	3.0200e-003	1.9100e-003	0.0230	9.0000e-005	0.0138	5.0000e-005	0.0138	3.6600e-003	5.0000e-005	3.7100e-003	0.0000	8.2650	8.2650	1.3000e-004	0.0000	8.2684
Total	3.0200e-003	1.9100e-003	0.0230	9.0000e-005	0.0138	5.0000e-005	0.0138	3.6600e-003	5.0000e-005	3.7100e-003	0.0000	8.2650	8.2650	1.3000e-004	0.0000	8.2684

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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	0.1151	0.6303	1.3602	2.3400e-003		0.0250	0.0250		0.0250	0.0250	0.0000	201.2519	201.2519	9.3800e-003	0.0000	201.4864
Paving	0.0212					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1363	0.6303	1.3602	2.3400e-003		0.0250	0.0250		0.0250	0.0250	0.0000	201.2519	201.2519	9.3800e-003	0.0000	201.4864

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	3.0200e-003	1.9100e-003	0.0230	9.0000e-005	0.0138	5.0000e-005	0.0138	3.6600e-003	5.0000e-005	3.7100e-003	0.0000	8.2650	8.2650	1.3000e-004	0.0000	8.2684
Total	3.0200e-003	1.9100e-003	0.0230	9.0000e-005	0.0138	5.0000e-005	0.0138	3.6600e-003	5.0000e-005	3.7100e-003	0.0000	8.2650	8.2650	1.3000e-004	0.0000	8.2684

3.7 Architectural Coating - 2032

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	0.2042					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.2000e-004	3.4300e-003	7.1900e-003	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.0213	1.0213	4.0000e-005	0.0000	1.0223
Total	0.2047	3.4300e-003	7.1900e-003	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.0213	1.0213	4.0000e-005	0.0000	1.0223

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	1.3600e-003	8.6000e-004	0.0101	4.0000e-005	5.5900e-003	2.0000e-005	5.6100e-003	1.4900e-003	2.0000e-005	1.5100e-003	0.0000	3.4317	3.4317	6.0000e-005	0.0000	3.4333
Total	1.3600e-003	8.6000e-004	0.0101	4.0000e-005	5.5900e-003	2.0000e-005	5.6100e-003	1.4900e-003	2.0000e-005	1.5100e-003	0.0000	3.4317	3.4317	6.0000e-005	0.0000	3.4333

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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	0.2042					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.2000e-004	3.4300e-003	7.1900e-003	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.0213	1.0213	4.0000e-005	0.0000	1.0223
Total	0.2047	3.4300e-003	7.1900e-003	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.0213	1.0213	4.0000e-005	0.0000	1.0223

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	1.3600e-003	8.6000e-004	0.0101	4.0000e-005	5.5900e-003	2.0000e-005	5.6100e-003	1.4900e-003	2.0000e-005	1.5100e-003	0.0000	3.4317	3.4317	6.0000e-005	0.0000	3.4333
Total	1.3600e-003	8.6000e-004	0.0101	4.0000e-005	5.5900e-003	2.0000e-005	5.6100e-003	1.4900e-003	2.0000e-005	1.5100e-003	0.0000	3.4317	3.4317	6.0000e-005	0.0000	3.4333

3.7 Architectural Coating - 2033

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	7.3163					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0187	0.1227	0.2577	4.3000e-004		2.9100e-003	2.9100e-003		2.9100e-003	2.9100e-003	0.0000	36.5966	36.5966	1.4800e-003	0.0000	36.6337
Total	7.3350	0.1227	0.2577	4.3000e-004		2.9100e-003	2.9100e-003		2.9100e-003	2.9100e-003	0.0000	36.5966	36.5966	1.4800e-003	0.0000	36.6337

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	0.0441	0.0278	0.3346	1.3300e-003	0.2003	8.0000e-004	0.2011	0.0533	7.3000e-004	0.0540	0.0000	120.4329	120.4329	1.9500e-003	0.0000	120.4816
Total	0.0441	0.0278	0.3346	1.3300e-003	0.2003	8.0000e-004	0.2011	0.0533	7.3000e-004	0.0540	0.0000	120.4329	120.4329	1.9500e-003	0.0000	120.4816

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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	7.3163					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0187	0.1227	0.2577	4.3000e-004		2.9100e-003	2.9100e-003		2.9100e-003	2.9100e-003	0.0000	36.5966	36.5966	1.4800e-003	0.0000	36.6336
Total	7.3350	0.1227	0.2577	4.3000e-004		2.9100e-003	2.9100e-003		2.9100e-003	2.9100e-003	0.0000	36.5966	36.5966	1.4800e-003	0.0000	36.6336

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	0.0441	0.0278	0.3346	1.3300e-003	0.2003	8.0000e-004	0.2011	0.0533	7.3000e-004	0.0540	0.0000	120.4329	120.4329	1.9500e-003	0.0000	120.4816
Total	0.0441	0.0278	0.3346	1.3300e-003	0.2003	8.0000e-004	0.2011	0.0533	7.3000e-004	0.0540	0.0000	120.4329	120.4329	1.9500e-003	0.0000	120.4816

***CalEEMod Output Files
Construction - Phase 3***

**Valley's Edge Specific Plan Project - Construction (Phase 3)
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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	120.00	1000sqft	0.00	120,000.00	0
Other Asphalt Surfaces	13.33	Acre	13.33	580,654.80	0
Health Club	3.84	1000sqft	0.00	3,840.00	0
Free-Standing Discount Store	13.00	1000sqft	0.00	13,000.00	0
Single Family Housing	112.00	Dwelling Unit	0.00	381,851.00	320
Single Family Housing	309.00	Dwelling Unit	70.24	682,621.00	884
Apartments Low Rise	279.00	Dwelling Unit	0.00	456,323.00	798
Apartments Mid Rise	65.00	Dwelling Unit	0.00	58,467.00	186

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	71
Climate Zone	3	Operational Year		2045	
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - VESP. Modeling construction only.

Land Use - Phase 3: VLDR: 92 du, LDR: 127 du, MDR: 127 du, MHDR: 65 du, Senior VLDR: 20, Senior LDR: 180 du, Senior MDR: 152 du, Office: 120 ksf, Retail: 13 ksf, Clubhouses: 3.84 ksf, Paving: 13.33 acres. 70.24 Acre site.

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Construction Phase - Construction would occur between 4/1/2033 to 4/30/2039.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Trips and VMT - Default trips assumed.

Grading - Updated disturbed acres.

Architectural Coating - Application of low-VOC architectural coatings (50 g/L).

Construction Off-road Equipment Mitigation - Water two times daily.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_Nonresidential_Exterior	68420	32220
tblAreaCoating	Area_Nonresidential_Interior	205260	96660
tblAreaCoating	Area_Parking	34839	29142
tblAreaCoating	Area_Residential_Exterior	1066002	845158
tblAreaCoating	Area_Residential_Interior	3198006	2535474
tblConstructionPhase	NumDays	155.00	153.00
tblConstructionPhase	NumDays	60.00	30.00
tblConstructionPhase	NumDays	155.00	382.00
tblConstructionPhase	NumDays	1,550.00	841.00
tblConstructionPhase	NumDays	110.00	153.00
tblConstructionPhase	NumDays	110.00	153.00
tblConstructionPhase	PhaseEndDate	1/26/2034	12/13/2033
tblConstructionPhase	PhaseEndDate	6/23/2033	5/12/2033
tblConstructionPhase	PhaseEndDate	8/31/2034	10/30/2034

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tblConstructionPhase	PhaseEndDate	8/9/2040	1/19/2038
tblConstructionPhase	PhaseEndDate	1/10/2041	8/20/2038
tblConstructionPhase	PhaseEndDate	6/13/2041	3/23/2039
tblConstructionPhase	PhaseStartDate	6/24/2033	5/13/2033
tblConstructionPhase	PhaseStartDate	1/27/2034	5/13/2033
tblConstructionPhase	PhaseStartDate	9/1/2034	10/31/2034
tblConstructionPhase	PhaseStartDate	8/10/2040	1/20/2038
tblConstructionPhase	PhaseStartDate	1/11/2041	8/21/2038
tblFireplaces	NumberGas	27.95	41.71
tblFireplaces	NumberGas	54.61	21.50
tblFireplaces	NumberGas	65.36	51.60
tblFireplaces	NumberGas	78.26	103.20
tblFireplaces	NumberGas	102.77	79.98
tblFireplaces	NumberNoFireplace	11.70	17.46
tblFireplaces	NumberNoFireplace	22.86	9.00
tblFireplaces	NumberNoFireplace	27.36	21.60
tblFireplaces	NumberNoFireplace	32.76	43.20
tblFireplaces	NumberNoFireplace	43.02	33.48
tblFireplaces	NumberWood	25.35	37.83
tblFireplaces	NumberWood	49.53	19.50
tblFireplaces	NumberWood	59.28	46.80
tblFireplaces	NumberWood	70.98	93.60
tblFireplaces	NumberWood	93.21	72.54
tblGrading	AcresOfGrading	459.00	70.24
tblGrading	AcresOfGrading	0.00	70.24
tblLandUse	LandUseSquareFeet	201,600.00	381,851.00
tblLandUse	LandUseSquareFeet	556,200.00	682,621.00
tblLandUse	LandUseSquareFeet	279,000.00	456,323.00
tblLandUse	LandUseSquareFeet	65,000.00	58,467.00
tblLandUse	LotAcreage	2.75	0.00
tblLandUse	LotAcreage	0.09	0.00

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tblLandUse	LotAcreage	0.30	0.00
tblLandUse	LotAcreage	36.36	0.00
tblLandUse	LotAcreage	100.32	70.24
tblLandUse	LotAcreage	17.44	0.00
tblLandUse	LotAcreage	1.71	0.00
tblOffRoadEquipment	OffRoadEquipmentType		Scrapers
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Dozers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Trenching
tblOffRoadEquipment	PhaseName		Paving
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	29.90	44.62
tblSolidWaste	SolidWasteGenerationRate	58.42	23.00
tblSolidWaste	SolidWasteGenerationRate	138.70	109.50
tblSolidWaste	SolidWasteGenerationRate	55.91	7.74
tblSolidWaste	SolidWasteGenerationRate	111.60	50.22
tblSolidWaste	SolidWasteGenerationRate	21.89	49.25

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tblSolidWaste	SolidWasteGenerationRate	83.72	110.40
tblSolidWaste	SolidWasteGenerationRate	245.88	191.52
tblTripsAndVMT	VendorTripNumber	199.00	200.00
tblTripsAndVMT	WorkerTripNumber	5.00	12.00
tblTripsAndVMT	WorkerTripNumber	753.00	754.00
tblTripsAndVMT	WorkerTripNumber	13.00	14.00
tblTripsAndVMT	WorkerTripNumber	151.00	152.00
tblWater	IndoorWaterUseRate	4,235,011.67	6,319,940.49
tblWater	IndoorWaterUseRate	8,274,561.25	3,257,701.28
tblWater	IndoorWaterUseRate	9,903,411.89	7,818,483.07
tblWater	IndoorWaterUseRate	962,942.78	133,330.54
tblWater	IndoorWaterUseRate	21,328,049.76	9,597,622.39
tblWater	IndoorWaterUseRate	227,109.67	510,996.76
tblWater	IndoorWaterUseRate	11,858,032.66	15,636,966.15
tblWater	IndoorWaterUseRate	15,571,812.12	12,118,648.77
tblWater	OutdoorWaterUseRate	2,669,898.66	3,984,310.31
tblWater	OutdoorWaterUseRate	5,216,571.23	2,053,768.20
tblWater	OutdoorWaterUseRate	6,243,455.32	4,929,043.68
tblWater	OutdoorWaterUseRate	590,190.74	81,718.72
tblWater	OutdoorWaterUseRate	13,072,030.50	5,882,413.72
tblWater	OutdoorWaterUseRate	139,196.25	313,191.57
tblWater	OutdoorWaterUseRate	7,475,716.24	9,858,087.35
tblWater	OutdoorWaterUseRate	9,817,011.99	7,640,017.70
tblWoodstoves	NumberCatalytic	5.85	8.73
tblWoodstoves	NumberCatalytic	11.43	4.50
tblWoodstoves	NumberCatalytic	13.68	10.80
tblWoodstoves	NumberCatalytic	16.38	21.60
tblWoodstoves	NumberCatalytic	21.51	16.74
tblWoodstoves	NumberNoncatalytic	5.85	8.73
tblWoodstoves	NumberNoncatalytic	11.43	4.50
tblWoodstoves	NumberNoncatalytic	13.68	10.80

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tblWoodstoves	NumberNoncatalytic	16.38	21.60
tblWoodstoves	NumberNoncatalytic	21.51	16.74

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					
2033	0.3948	1.5895	2.5334	8.2100e-003	0.6653	0.0539	0.7193	0.3187	0.0539	0.3726	0.0000	798.7081	798.7081	0.0316	0.0000	799.4976
2034	0.1488	0.8373	1.5450	5.1600e-003	0.2208	0.0116	0.2324	0.0569	0.0115	0.0684	0.0000	475.1035	475.1035	0.0176	0.0000	475.5442
2035	0.3011	2.8438	2.7423	0.0169	1.1445	0.0112	1.1557	0.3103	0.0108	0.3211	0.0000	1,561.8452	1,561.8452	0.0584	0.0000	1,563.3050
2036	0.3023	2.8547	2.7528	0.0169	1.1489	0.0112	1.1601	0.3115	0.0108	0.3223	0.0000	1,567.8293	1,567.8293	0.0586	0.0000	1,569.2947
2037	0.3011	2.8438	2.7423	0.0169	1.1445	0.0112	1.1557	0.3103	0.0108	0.3211	0.0000	1,561.8452	1,561.8452	0.0584	0.0000	1,563.3050
2038	3.5136	0.5384	1.3261	3.1800e-003	0.1327	0.0116	0.1444	0.0356	0.0116	0.0472	0.0000	281.1645	281.1645	9.7600e-003	0.0000	281.4084
2039	2.0818	0.0340	0.1278	3.7000e-004	0.0403	5.2000e-004	0.0408	0.0107	5.1000e-004	0.0112	0.0000	33.2572	33.2572	6.8000e-004	0.0000	33.2742
Maximum	3.5136	2.8547	2.7528	0.0169	1.1489	0.0539	1.1601	0.3187	0.0539	0.3726	0.0000	1,567.8293	1,567.8293	0.0586	0.0000	1,569.2947

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	4/1/2033	5/12/2033	5	30	
2	Grading	Grading	5/13/2033	12/13/2033	5	153	
3	Trenching	Grading	5/13/2033	10/30/2034	5	382	
4	Building Construction	Building Construction	10/31/2034	1/19/2038	5	841	
5	Paving	Paving	1/20/2038	8/20/2038	5	153	
6	Architectural Coating	Architectural Coating	8/21/2038	3/23/2039	5	153	

Acres of Grading (Site Preparation Phase): 70.24

Acres of Grading (Grading Phase): 70.24

Acres of Paving: 13.33

Residential Indoor: 3,198,006; Residential Outdoor: 1,066,002; Non-Residential Indoor: 205,260; Non-Residential Outdoor: 68,420;

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Off-Highway Trucks	1	8.00	402	0.38
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Trenching	Excavators	1	8.00	158	0.38
Trenching	Off-Highway Trucks	1	4.00	402	0.38
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Off-Highway Trucks	1	8.00	402	0.38
Grading	Scrapers	3	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	8.00	78	0.48
Grading	Rubber Tired Dozers	1	8.00	247	0.40

Trips and VMT

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	2	12.00	0.00	0.00	12.54	10.52	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	4	10.00	0.00	0.00	12.54	10.52	20.00	LD_Mix	HDT_Mix	HHDT
Grading	7	18.00	0.00	0.00	12.54	10.52	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	754.00	200.00	0.00	12.54	10.52	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	14.00	0.00	0.00	12.54	10.52	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	152.00	0.00	0.00	12.54	10.52	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2033

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					0.1276	0.0000	0.1276	0.0537	0.0000	0.0537	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0175	0.0663	0.0792	3.6000e-004		2.4900e-003	2.4900e-003		2.4900e-003	2.4900e-003	0.0000	34.3107	34.3107	1.4100e-003	0.0000	34.3459
Total	0.0175	0.0663	0.0792	3.6000e-004	0.1276	2.4900e-003	0.1301	0.0537	2.4900e-003	0.0562	0.0000	34.3107	34.3107	1.4100e-003	0.0000	34.3459

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	2.3000e-004	2.7500e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.4000e-004	0.0000	0.9885	0.9885	2.0000e-005	0.0000	0.9889
Total	3.6000e-004	2.3000e-004	2.7500e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.4000e-004	0.0000	0.9885	0.9885	2.0000e-005	0.0000	0.9889

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					0.0574	0.0000	0.0574	0.0242	0.0000	0.0242	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0175	0.0663	0.0792	3.6000e-004		2.4900e-003	2.4900e-003		2.4900e-003	2.4900e-003	0.0000	34.3107	34.3107	1.4100e-003	0.0000	34.3459
Total	0.0175	0.0663	0.0792	3.6000e-004	0.0574	2.4900e-003	0.0599	0.0242	2.4900e-003	0.0266	0.0000	34.3107	34.3107	1.4100e-003	0.0000	34.3459

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	2.3000e-004	2.7500e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.4000e-004	0.0000	0.9885	0.9885	2.0000e-005	0.0000	0.9889
Total	3.6000e-004	2.3000e-004	2.7500e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.4000e-004	0.0000	0.9885	0.9885	2.0000e-005	0.0000	0.9889

3.3 Grading - 2033

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					0.4979	0.0000	0.4979	0.2573	0.0000	0.2573	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3010	1.2522	1.6096	5.9900e-003		0.0443	0.0443		0.0443	0.0443	0.0000	594.1599	594.1599	0.0242	0.0000	594.7657
Total	0.3010	1.2522	1.6096	5.9900e-003	0.4979	0.0443	0.5422	0.2573	0.0443	0.3015	0.0000	594.1599	594.1599	0.0242	0.0000	594.7657

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	2.7700e-003	1.7400e-003	0.0210	8.0000e-005	0.0126	5.0000e-005	0.0126	3.3500e-003	5.0000e-005	3.3900e-003	0.0000	7.5621	7.5621	1.2000e-004	0.0000	7.5651
Total	2.7700e-003	1.7400e-003	0.0210	8.0000e-005	0.0126	5.0000e-005	0.0126	3.3500e-003	5.0000e-005	3.3900e-003	0.0000	7.5621	7.5621	1.2000e-004	0.0000	7.5651

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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					0.2241	0.0000	0.2241	0.1158	0.0000	0.1158	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3010	1.2522	1.6096	5.9900e-003		0.0443	0.0443		0.0443	0.0443	0.0000	594.1592	594.1592	0.0242	0.0000	594.7650
Total	0.3010	1.2522	1.6096	5.9900e-003	0.2241	0.0443	0.2683	0.1158	0.0443	0.1600	0.0000	594.1592	594.1592	0.0242	0.0000	594.7650

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	2.7700e-003	1.7400e-003	0.0210	8.0000e-005	0.0126	5.0000e-005	0.0126	3.3500e-003	5.0000e-005	3.3900e-003	0.0000	7.5621	7.5621	1.2000e-004	0.0000	7.5651
Total	2.7700e-003	1.7400e-003	0.0210	8.0000e-005	0.0126	5.0000e-005	0.0126	3.3500e-003	5.0000e-005	3.3900e-003	0.0000	7.5621	7.5621	1.2000e-004	0.0000	7.5651

3.4 Trenching - 2033

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					0.0180	0.0000	0.0180	1.9500e-003	0.0000	1.9500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0715	0.2680	0.8082	1.7200e-003		7.0700e-003	7.0700e-003		7.0700e-003	7.0700e-003	0.0000	157.1288	157.1288	5.7300e-003	0.0000	157.2720
Total	0.0715	0.2680	0.8082	1.7200e-003	0.0180	7.0700e-003	0.0251	1.9500e-003	7.0700e-003	9.0200e-003	0.0000	157.1288	157.1288	5.7300e-003	0.0000	157.2720

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	1.6700e-003	1.0500e-003	0.0127	5.0000e-005	7.5800e-003	3.0000e-005	7.6100e-003	2.0200e-003	3.0000e-005	2.0500e-003	0.0000	4.5581	4.5581	7.0000e-005	0.0000	4.5600
Total	1.6700e-003	1.0500e-003	0.0127	5.0000e-005	7.5800e-003	3.0000e-005	7.6100e-003	2.0200e-003	3.0000e-005	2.0500e-003	0.0000	4.5581	4.5581	7.0000e-005	0.0000	4.5600

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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					8.1100e-003	0.0000	8.1100e-003	8.8000e-004	0.0000	8.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0715	0.2680	0.8082	1.7200e-003		7.0700e-003	7.0700e-003		7.0700e-003	7.0700e-003	0.0000	157.1286	157.1286	5.7300e-003	0.0000	157.2718
Total	0.0715	0.2680	0.8082	1.7200e-003	8.1100e-003	7.0700e-003	0.0152	8.8000e-004	7.0700e-003	7.9500e-003	0.0000	157.1286	157.1286	5.7300e-003	0.0000	157.2718

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	1.6700e-003	1.0500e-003	0.0127	5.0000e-005	7.5800e-003	3.0000e-005	7.6100e-003	2.0200e-003	3.0000e-005	2.0500e-003	0.0000	4.5581	4.5581	7.0000e-005	0.0000	4.5600
Total	1.6700e-003	1.0500e-003	0.0127	5.0000e-005	7.5800e-003	3.0000e-005	7.6100e-003	2.0200e-003	3.0000e-005	2.0500e-003	0.0000	4.5581	4.5581	7.0000e-005	0.0000	4.5600

3.4 Trenching - 2034

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					0.0180	0.0000	0.0180	1.9500e-003	0.0000	1.9500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0930	0.3487	1.0517	2.2300e-003		9.2100e-003	9.2100e-003		9.2100e-003	9.2100e-003	0.0000	204.4567	204.4567	7.4600e-003	0.0000	204.6431
Total	0.0930	0.3487	1.0517	2.2300e-003	0.0180	9.2100e-003	0.0272	1.9500e-003	9.2100e-003	0.0112	0.0000	204.4567	204.4567	7.4600e-003	0.0000	204.6431

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	1.9800e-003	1.2400e-003	0.0153	6.0000e-005	9.8600e-003	4.0000e-005	9.9000e-003	2.6200e-003	3.0000e-005	2.6600e-003	0.0000	5.8222	5.8222	9.0000e-005	0.0000	5.8243
Total	1.9800e-003	1.2400e-003	0.0153	6.0000e-005	9.8600e-003	4.0000e-005	9.9000e-003	2.6200e-003	3.0000e-005	2.6600e-003	0.0000	5.8222	5.8222	9.0000e-005	0.0000	5.8243

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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					8.1100e-003	0.0000	8.1100e-003	8.8000e-004	0.0000	8.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0930	0.3487	1.0517	2.2300e-003		9.2100e-003	9.2100e-003		9.2100e-003	9.2100e-003	0.0000	204.4565	204.4565	7.4600e-003	0.0000	204.6429
Total	0.0930	0.3487	1.0517	2.2300e-003	8.1100e-003	9.2100e-003	0.0173	8.8000e-004	9.2100e-003	0.0101	0.0000	204.4565	204.4565	7.4600e-003	0.0000	204.6429

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	1.9800e-003	1.2400e-003	0.0153	6.0000e-005	9.8600e-003	4.0000e-005	9.9000e-003	2.6200e-003	3.0000e-005	2.6600e-003	0.0000	5.8222	5.8222	9.0000e-005	0.0000	5.8243
Total	1.9800e-003	1.2400e-003	0.0153	6.0000e-005	9.8600e-003	4.0000e-005	9.9000e-003	2.6200e-003	3.0000e-005	2.6600e-003	0.0000	5.8222	5.8222	9.0000e-005	0.0000	5.8243

3.5 Building Construction - 2034

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	0.0134	0.0775	0.1819	2.9000e-004		1.2700e-003	1.2700e-003		1.2700e-003	1.2700e-003	0.0000	25.0412	25.0412	1.0800e-003	0.0000	25.0681
Total	0.0134	0.0775	0.1819	2.9000e-004		1.2700e-003	1.2700e-003		1.2700e-003	1.2700e-003	0.0000	25.0412	25.0412	1.0800e-003	0.0000	25.0681

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	0.0100	0.3909	0.0615	1.5800e-003	0.0414	4.8000e-004	0.0419	0.0120	4.6000e-004	0.0125	0.0000	150.3585	150.3585	7.7000e-003	0.0000	150.5511
Worker	0.0304	0.0190	0.2346	9.9000e-004	0.1515	5.6000e-004	0.1521	0.0403	5.2000e-004	0.0408	0.0000	89.4249	89.4249	1.3100e-003	0.0000	89.4576
Total	0.0404	0.4099	0.2961	2.5700e-003	0.1930	1.0400e-003	0.1940	0.0523	9.8000e-004	0.0533	0.0000	239.7834	239.7834	9.0100e-003	0.0000	240.0087

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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	0.0134	0.0775	0.1819	2.9000e-004		1.2700e-003	1.2700e-003		1.2700e-003	1.2700e-003	0.0000	25.0411	25.0411	1.0800e-003	0.0000	25.0680
Total	0.0134	0.0775	0.1819	2.9000e-004		1.2700e-003	1.2700e-003		1.2700e-003	1.2700e-003	0.0000	25.0411	25.0411	1.0800e-003	0.0000	25.0680

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	0.0100	0.3909	0.0615	1.5800e-003	0.0414	4.8000e-004	0.0419	0.0120	4.6000e-004	0.0125	0.0000	150.3585	150.3585	7.7000e-003	0.0000	150.5511
Worker	0.0304	0.0190	0.2346	9.9000e-004	0.1515	5.6000e-004	0.1521	0.0403	5.2000e-004	0.0408	0.0000	89.4249	89.4249	1.3100e-003	0.0000	89.4576
Total	0.0404	0.4099	0.2961	2.5700e-003	0.1930	1.0400e-003	0.1940	0.0523	9.8000e-004	0.0533	0.0000	239.7834	239.7834	9.0100e-003	0.0000	240.0087

3.5 Building Construction - 2035

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	0.0764	0.4350	1.0772	1.7300e-003		5.2700e-003	5.2700e-003		5.2700e-003	5.2700e-003	0.0000	148.5396	148.5396	6.1200e-003	0.0000	148.6927
Total	0.0764	0.4350	1.0772	1.7300e-003		5.2700e-003	5.2700e-003		5.2700e-003	5.2700e-003	0.0000	148.5396	148.5396	6.1200e-003	0.0000	148.6927

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	0.0589	2.3046	0.3612	9.3900e-003	0.2458	2.7700e-003	0.2486	0.0711	2.6500e-003	0.0738	0.0000	891.3046	891.3046	0.0453	0.0000	892.4369
Worker	0.1658	0.1041	1.3039	5.7600e-003	0.8987	3.1000e-003	0.9018	0.2392	2.8500e-003	0.2420	0.0000	522.0010	522.0010	6.9800e-003	0.0000	522.1754
Total	0.2247	2.4087	1.6651	0.0152	1.1445	5.8700e-003	1.1504	0.3103	5.5000e-003	0.3158	0.0000	1,413.3056	1,413.3056	0.0523	0.0000	1,414.6123

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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	0.0764	0.4350	1.0772	1.7300e-003		5.2700e-003	5.2700e-003		5.2700e-003	5.2700e-003	0.0000	148.5395	148.5395	6.1200e-003	0.0000	148.6925
Total	0.0764	0.4350	1.0772	1.7300e-003		5.2700e-003	5.2700e-003		5.2700e-003	5.2700e-003	0.0000	148.5395	148.5395	6.1200e-003	0.0000	148.6925

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	0.0589	2.3046	0.3612	9.3900e-003	0.2458	2.7700e-003	0.2486	0.0711	2.6500e-003	0.0738	0.0000	891.3046	891.3046	0.0453	0.0000	892.4369
Worker	0.1658	0.1041	1.3039	5.7600e-003	0.8987	3.1000e-003	0.9018	0.2392	2.8500e-003	0.2420	0.0000	522.0010	522.0010	6.9800e-003	0.0000	522.1754
Total	0.2247	2.4087	1.6651	0.0152	1.1445	5.8700e-003	1.1504	0.3103	5.5000e-003	0.3158	0.0000	1,413.3056	1,413.3056	0.0523	0.0000	1,414.6123

3.5 Building Construction - 2036

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	0.0767	0.4367	1.0814	1.7400e-003		5.2900e-003	5.2900e-003		5.2900e-003	5.2900e-003	0.0000	149.1088	149.1088	6.1500e-003	0.0000	149.2624
Total	0.0767	0.4367	1.0814	1.7400e-003		5.2900e-003	5.2900e-003		5.2900e-003	5.2900e-003	0.0000	149.1088	149.1088	6.1500e-003	0.0000	149.2624

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	0.0591	2.3134	0.3625	9.4200e-003	0.2468	2.7900e-003	0.2495	0.0714	2.6600e-003	0.0741	0.0000	894.7196	894.7196	0.0455	0.0000	895.8562
Worker	0.1665	0.1045	1.3089	5.7900e-003	0.9022	3.1200e-003	0.9053	0.2401	2.8700e-003	0.2429	0.0000	524.0010	524.0010	7.0100e-003	0.0000	524.1761
Total	0.2256	2.4180	1.6715	0.0152	1.1489	5.9100e-003	1.1548	0.3115	5.5300e-003	0.3170	0.0000	1,418.7205	1,418.7205	0.0525	0.0000	1,420.0323

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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	0.0767	0.4367	1.0814	1.7400e-003		5.2900e-003	5.2900e-003		5.2900e-003	5.2900e-003	0.0000	149.1086	149.1086	6.1500e-003	0.0000	149.2622
Total	0.0767	0.4367	1.0814	1.7400e-003		5.2900e-003	5.2900e-003		5.2900e-003	5.2900e-003	0.0000	149.1086	149.1086	6.1500e-003	0.0000	149.2622

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	0.0591	2.3134	0.3625	9.4200e-003	0.2468	2.7900e-003	0.2495	0.0714	2.6600e-003	0.0741	0.0000	894.7196	894.7196	0.0455	0.0000	895.8562
Worker	0.1665	0.1045	1.3089	5.7900e-003	0.9022	3.1200e-003	0.9053	0.2401	2.8700e-003	0.2429	0.0000	524.0010	524.0010	7.0100e-003	0.0000	524.1761
Total	0.2256	2.4180	1.6715	0.0152	1.1489	5.9100e-003	1.1548	0.3115	5.5300e-003	0.3170	0.0000	1,418.7205	1,418.7205	0.0525	0.0000	1,420.0323

3.5 Building Construction - 2037

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	0.0764	0.4350	1.0772	1.7300e-003		5.2700e-003	5.2700e-003		5.2700e-003	5.2700e-003	0.0000	148.5396	148.5396	6.1200e-003	0.0000	148.6927
Total	0.0764	0.4350	1.0772	1.7300e-003		5.2700e-003	5.2700e-003		5.2700e-003	5.2700e-003	0.0000	148.5396	148.5396	6.1200e-003	0.0000	148.6927

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	0.0589	2.3046	0.3612	9.3900e-003	0.2458	2.7700e-003	0.2486	0.0711	2.6500e-003	0.0738	0.0000	891.3046	891.3046	0.0453	0.0000	892.4369
Worker	0.1658	0.1041	1.3039	5.7600e-003	0.8987	3.1000e-003	0.9018	0.2392	2.8500e-003	0.2420	0.0000	522.0010	522.0010	6.9800e-003	0.0000	522.1754
Total	0.2247	2.4087	1.6651	0.0152	1.1445	5.8700e-003	1.1504	0.3103	5.5000e-003	0.3158	0.0000	1,413.3056	1,413.3056	0.0523	0.0000	1,414.6123

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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	0.0764	0.4350	1.0772	1.7300e-003		5.2700e-003	5.2700e-003		5.2700e-003	5.2700e-003	0.0000	148.5395	148.5395	6.1200e-003	0.0000	148.6925
Total	0.0764	0.4350	1.0772	1.7300e-003		5.2700e-003	5.2700e-003		5.2700e-003	5.2700e-003	0.0000	148.5395	148.5395	6.1200e-003	0.0000	148.6925

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	0.0589	2.3046	0.3612	9.3900e-003	0.2458	2.7700e-003	0.2486	0.0711	2.6500e-003	0.0738	0.0000	891.3046	891.3046	0.0453	0.0000	892.4369
Worker	0.1658	0.1041	1.3039	5.7600e-003	0.8987	3.1000e-003	0.9018	0.2392	2.8500e-003	0.2420	0.0000	522.0010	522.0010	6.9800e-003	0.0000	522.1754
Total	0.2247	2.4087	1.6651	0.0152	1.1445	5.8700e-003	1.1504	0.3103	5.5000e-003	0.3158	0.0000	1,413.3056	1,413.3056	0.0523	0.0000	1,414.6123

3.5 Building Construction - 2038

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	3.8100e-003	0.0217	0.0537	9.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	7.3985	7.3985	3.0000e-004	0.0000	7.4062
Total	3.8100e-003	0.0217	0.0537	9.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	7.3985	7.3985	3.0000e-004	0.0000	7.4062

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	2.9300e-003	0.1148	0.0180	4.7000e-004	0.0122	1.4000e-004	0.0124	3.5400e-003	1.3000e-004	3.6700e-003	0.0000	44.3945	44.3945	2.2600e-003	0.0000	44.4509
Worker	8.2600e-003	5.1900e-003	0.0650	2.9000e-004	0.0448	1.5000e-004	0.0449	0.0119	1.4000e-004	0.0121	0.0000	26.0001	26.0001	3.5000e-004	0.0000	26.0087
Total	0.0112	0.1200	0.0829	7.6000e-004	0.0570	2.9000e-004	0.0573	0.0155	2.7000e-004	0.0157	0.0000	70.3945	70.3945	2.6100e-003	0.0000	70.4596

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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	3.8100e-003	0.0217	0.0537	9.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	7.3985	7.3985	3.0000e-004	0.0000	7.4061
Total	3.8100e-003	0.0217	0.0537	9.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	7.3985	7.3985	3.0000e-004	0.0000	7.4061

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	2.9300e-003	0.1148	0.0180	4.7000e-004	0.0122	1.4000e-004	0.0124	3.5400e-003	1.3000e-004	3.6700e-003	0.0000	44.3945	44.3945	2.2600e-003	0.0000	44.4509
Worker	8.2600e-003	5.1900e-003	0.0650	2.9000e-004	0.0448	1.5000e-004	0.0449	0.0119	1.4000e-004	0.0121	0.0000	26.0001	26.0001	3.5000e-004	0.0000	26.0087
Total	0.0112	0.1200	0.0829	7.6000e-004	0.0570	2.9000e-004	0.0573	0.0155	2.7000e-004	0.0157	0.0000	70.3945	70.3945	2.6100e-003	0.0000	70.4596

3.6 Paving - 2038

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	0.0696	0.3400	0.9660	1.6700e-003		0.0102	0.0102		0.0102	0.0102	0.0000	143.2167	143.2167	5.6600e-003	0.0000	143.3582
Paving	0.0175					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0871	0.3400	0.9660	1.6700e-003		0.0102	0.0102		0.0102	0.0102	0.0000	143.2167	143.2167	5.6600e-003	0.0000	143.3582

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	1.8100e-003	1.1300e-003	0.0142	6.0000e-005	9.7800e-003	3.0000e-005	9.8200e-003	2.6000e-003	3.0000e-005	2.6300e-003	0.0000	5.6817	5.6817	8.0000e-005	0.0000	5.6836
Total	1.8100e-003	1.1300e-003	0.0142	6.0000e-005	9.7800e-003	3.0000e-005	9.8200e-003	2.6000e-003	3.0000e-005	2.6300e-003	0.0000	5.6817	5.6817	8.0000e-005	0.0000	5.6836

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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	0.0696	0.3400	0.9660	1.6700e-003		0.0102	0.0102		0.0102	0.0102	0.0000	143.2165	143.2165	5.6600e-003	0.0000	143.3581
Paving	0.0175					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0871	0.3400	0.9660	1.6700e-003		0.0102	0.0102		0.0102	0.0102	0.0000	143.2165	143.2165	5.6600e-003	0.0000	143.3581

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	1.8100e-003	1.1300e-003	0.0142	6.0000e-005	9.7800e-003	3.0000e-005	9.8200e-003	2.6000e-003	3.0000e-005	2.6300e-003	0.0000	5.6817	5.6817	8.0000e-005	0.0000	5.6836
Total	1.8100e-003	1.1300e-003	0.0142	6.0000e-005	9.7800e-003	3.0000e-005	9.8200e-003	2.6000e-003	3.0000e-005	2.6300e-003	0.0000	5.6817	5.6817	8.0000e-005	0.0000	5.6836

3.7 Architectural Coating - 2038

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	3.3901					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.4700e-003	0.0480	0.1136	1.9000e-004		6.3000e-004	6.3000e-004		6.3000e-004	6.3000e-004	0.0000	16.1706	16.1706	6.0000e-004	0.0000	16.1856
Total	3.3976	0.0480	0.1136	1.9000e-004		6.3000e-004	6.3000e-004		6.3000e-004	6.3000e-004	0.0000	16.1706	16.1706	6.0000e-004	0.0000	16.1856

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	0.0122	7.6400e-003	0.0957	4.2000e-004	0.0659	2.3000e-004	0.0662	0.0176	2.1000e-004	0.0178	0.0000	38.3025	38.3025	5.1000e-004	0.0000	38.3153
Total	0.0122	7.6400e-003	0.0957	4.2000e-004	0.0659	2.3000e-004	0.0662	0.0176	2.1000e-004	0.0178	0.0000	38.3025	38.3025	5.1000e-004	0.0000	38.3153

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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	3.3901					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.4700e-003	0.0480	0.1136	1.9000e-004		6.3000e-004	6.3000e-004		6.3000e-004	6.3000e-004	0.0000	16.1706	16.1706	6.0000e-004	0.0000	16.1855
Total	3.3976	0.0480	0.1136	1.9000e-004		6.3000e-004	6.3000e-004		6.3000e-004	6.3000e-004	0.0000	16.1706	16.1706	6.0000e-004	0.0000	16.1855

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	0.0122	7.6400e-003	0.0957	4.2000e-004	0.0659	2.3000e-004	0.0662	0.0176	2.1000e-004	0.0178	0.0000	38.3025	38.3025	5.1000e-004	0.0000	38.3153
Total	0.0122	7.6400e-003	0.0957	4.2000e-004	0.0659	2.3000e-004	0.0662	0.0176	2.1000e-004	0.0178	0.0000	38.3025	38.3025	5.1000e-004	0.0000	38.3153

3.7 Architectural Coating - 2039

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	2.0698					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.5600e-003	0.0293	0.0694	1.1000e-004		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	9.8726	9.8726	3.6000e-004	0.0000	9.8817
Total	2.0743	0.0293	0.0694	1.1000e-004		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	9.8726	9.8726	3.6000e-004	0.0000	9.8817

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	7.4300e-003	4.6600e-003	0.0584	2.6000e-004	0.0403	1.4000e-004	0.0404	0.0107	1.3000e-004	0.0108	0.0000	23.3847	23.3847	3.1000e-004	0.0000	23.3925
Total	7.4300e-003	4.6600e-003	0.0584	2.6000e-004	0.0403	1.4000e-004	0.0404	0.0107	1.3000e-004	0.0108	0.0000	23.3847	23.3847	3.1000e-004	0.0000	23.3925

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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	2.0698					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.5600e-003	0.0293	0.0694	1.1000e-004		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	9.8726	9.8726	3.6000e-004	0.0000	9.8817
Total	2.0743	0.0293	0.0694	1.1000e-004		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	9.8726	9.8726	3.6000e-004	0.0000	9.8817

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	7.4300e-003	4.6600e-003	0.0584	2.6000e-004	0.0403	1.4000e-004	0.0404	0.0107	1.3000e-004	0.0108	0.0000	23.3847	23.3847	3.1000e-004	0.0000	23.3925
Total	7.4300e-003	4.6600e-003	0.0584	2.6000e-004	0.0403	1.4000e-004	0.0404	0.0107	1.3000e-004	0.0108	0.0000	23.3847	23.3847	3.1000e-004	0.0000	23.3925

***CalEEMod Output Files
Construction - Phase 4***

**Valley's Edge Specific Plan Project - Construction (Phase 4)
Butte County AQMD Air District, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	72.00	1000sqft	0.00	72,000.00	0
Other Asphalt Surfaces	2.74	Acre	2.74	119,354.40	0
Apartments Low Rise	123.00	Dwelling Unit	0.00	206,707.00	352
Single Family Housing	100.00	Dwelling Unit	27.11	346,300.00	286
Single Family Housing	72.00	Dwelling Unit	0.00	92,783.00	206
Free-Standing Discount Store	12.00	1000sqft	0.00	12,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	71
Climate Zone	3	Operational Year		2045	
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

Project Characteristics - VESP. Modeling construction only.

Land Use - Phase 4: VLDR: 91 du, LDR: 18 du, MDR: 75 du, Senior VLDR: 9 du, Senior LDR: 24 du, Senior MDR: 48 du, Office: 72 ksf, Retail: 12 ksf, Paving: 2.74 acres. 27.11 Acre site.

Construction Phase - Construction would occur between 4/1/2039 to 5/15/2041.

Off-road Equipment - Default equipment assumed.

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Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Trips and VMT - Default trips assumed.

Grading - Updated disturbed acres.

Architectural Coating - Application of low-VOC architectural coatings (50 g/L).

Construction Off-road Equipment Mitigation - Water two times daily.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Interior	1,307,725.00	1,307,723.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_Nonresidential_Exterior	42000	32220
tblAreaCoating	Area_Nonresidential_Interior	126000	96660
tblAreaCoating	Area_Parking	7161	29142
tblAreaCoating	Area_Residential_Exterior	435908	845158
tblAreaCoating	Area_Residential_Interior	1307725	2535474
tblConstructionPhase	NumDays	35.00	53.00
tblConstructionPhase	NumDays	440.00	291.00
tblConstructionPhase	NumDays	45.00	132.00
tblConstructionPhase	NumDays	45.00	53.00
tblConstructionPhase	NumDays	35.00	53.00
tblConstructionPhase	NumDays	20.00	10.00
tblFireplaces	NumberGas	73.96	79.98
tblFireplaces	NumberNoFireplace	30.96	33.48
tblFireplaces	NumberWood	67.08	72.54
tblGrading	AcresOfGrading	159.00	27.11

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tblGrading	AcresOfGrading	0.00	27.11
tblLandUse	LandUseSquareFeet	123,000.00	206,707.00
tblLandUse	LandUseSquareFeet	180,000.00	346,300.00
tblLandUse	LandUseSquareFeet	129,600.00	92,783.00
tblLandUse	LotAcreage	1.65	0.00
tblLandUse	LotAcreage	7.69	0.00
tblLandUse	LotAcreage	32.47	27.11
tblLandUse	LotAcreage	23.38	0.00
tblLandUse	LotAcreage	0.28	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	51.61	7.74
tblSolidWaste	SolidWasteGenerationRate	66.96	50.22
tblSolidWaste	SolidWasteGenerationRate	177.12	191.52
tblTripsAndVMT	VendorTripNumber	65.00	62.00
tblTripsAndVMT	WorkerTripNumber	5.00	6.00
tblTripsAndVMT	WorkerTripNumber	227.00	226.00
tblTripsAndVMT	WorkerTripNumber	13.00	14.00
tblTripsAndVMT	WorkerTripNumber	45.00	46.00
tblWater	IndoorWaterUseRate	888,870.26	133,330.54
tblWater	IndoorWaterUseRate	12,796,829.86	9,597,622.39
tblWater	IndoorWaterUseRate	11,206,492.41	12,118,648.77
tblWater	OutdoorWaterUseRate	544,791.45	81,718.72
tblWater	OutdoorWaterUseRate	7,843,218.30	5,882,413.72
tblWater	OutdoorWaterUseRate	7,064,962.60	7,640,017.70
tblWoodstoves	NumberCatalytic	15.48	16.74
tblWoodstoves	NumberNoncatalytic	15.48	16.74

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	4/1/2039	4/14/2039	5	10	
2	Trenching	Grading	4/15/2039	10/17/2039	5	132	
3	Grading	Grading	4/15/2039	6/28/2039	5	53	
4	Building Construction	Building Construction	6/29/2039	8/8/2040	5	291	
5	Paving	Paving	8/9/2040	10/22/2040	5	53	
6	Architectural Coating	Architectural Coating	10/23/2040	1/3/2041	5	53	

Acres of Grading (Site Preparation Phase): 27.11

Acres of Grading (Grading Phase): 27.11

Acres of Paving: 2.74

Residential Indoor: 1,307,723; Residential Outdoor: 435,908; Non-Residential Indoor: 126,000; Non-Residential Outdoor: 42,000;

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Off-Highway Trucks	1	8.00	402	0.38
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Trenching	Excavators	1	8.00	158	0.38
Trenching	Off-Highway Trucks	1	4.00	402	0.38
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Off-Highway Trucks	1	8.00	402	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	3	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	8.00	78	0.48

Trips and VMT

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	2	6.00	0.00	0.00	12.54	10.52	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	4	10.00	0.00	0.00	12.54	10.52	20.00	LD_Mix	HDT_Mix	HHDT
Grading	7	18.00	0.00	0.00	12.54	10.52	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	226.00	62.00	0.00	12.54	10.52	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	14.00	0.00	0.00	12.54	10.52	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	46.00	0.00	0.00	12.54	10.52	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2039

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					0.0445	0.0000	0.0445	0.0181	0.0000	0.0181	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.2900e-003	0.0152	0.0259	1.2000e-004		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004	0.0000	11.4369	11.4369	4.2000e-004	0.0000	11.4473
Total	5.2900e-003	0.0152	0.0259	1.2000e-004	0.0445	5.8000e-004	0.0451	0.0181	5.8000e-004	0.0187	0.0000	11.4369	11.4369	4.2000e-004	0.0000	11.4473

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	5.0000e-005	3.0000e-005	4.0000e-004	0.0000	2.7000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1592	0.1592	0.0000	0.0000	0.1592
Total	5.0000e-005	3.0000e-005	4.0000e-004	0.0000	2.7000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1592	0.1592	0.0000	0.0000	0.1592

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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					0.0200	0.0000	0.0200	8.1500e-003	0.0000	8.1500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.2900e-003	0.0152	0.0259	1.2000e-004		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004	0.0000	11.4369	11.4369	4.2000e-004	0.0000	11.4473
Total	5.2900e-003	0.0152	0.0259	1.2000e-004	0.0200	5.8000e-004	0.0206	8.1500e-003	5.8000e-004	8.7300e-003	0.0000	11.4369	11.4369	4.2000e-004	0.0000	11.4473

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	5.0000e-005	3.0000e-005	4.0000e-004	0.0000	2.7000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1592	0.1592	0.0000	0.0000	0.1592
Total	5.0000e-005	3.0000e-005	4.0000e-004	0.0000	2.7000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1592	0.1592	0.0000	0.0000	0.1592

3.3 Trenching - 2039

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					6.5200e-003	0.0000	6.5200e-003	7.0000e-004	0.0000	7.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0538	0.1835	0.6427	1.3700e-003		3.8800e-003	3.8800e-003		3.8800e-003	3.8800e-003	0.0000	124.9458	124.9458	4.2700e-003	0.0000	125.0526
Total	0.0538	0.1835	0.6427	1.3700e-003	6.5200e-003	3.8800e-003	0.0104	7.0000e-004	3.8800e-003	4.5800e-003	0.0000	124.9458	124.9458	4.2700e-003	0.0000	125.0526

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	1.1100e-003	7.0000e-004	8.7500e-003	4.0000e-005	6.0300e-003	2.0000e-005	6.0500e-003	1.6000e-003	2.0000e-005	1.6200e-003	0.0000	3.5013	3.5013	5.0000e-005	0.0000	3.5025
Total	1.1100e-003	7.0000e-004	8.7500e-003	4.0000e-005	6.0300e-003	2.0000e-005	6.0500e-003	1.6000e-003	2.0000e-005	1.6200e-003	0.0000	3.5013	3.5013	5.0000e-005	0.0000	3.5025

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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					2.9300e-003	0.0000	2.9300e-003	3.2000e-004	0.0000	3.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0538	0.1835	0.6427	1.3700e-003		3.8800e-003	3.8800e-003		3.8800e-003	3.8800e-003	0.0000	124.9456	124.9456	4.2700e-003	0.0000	125.0524
Total	0.0538	0.1835	0.6427	1.3700e-003	2.9300e-003	3.8800e-003	6.8100e-003	3.2000e-004	3.8800e-003	4.2000e-003	0.0000	124.9456	124.9456	4.2700e-003	0.0000	125.0524

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	1.1100e-003	7.0000e-004	8.7500e-003	4.0000e-005	6.0300e-003	2.0000e-005	6.0500e-003	1.6000e-003	2.0000e-005	1.6200e-003	0.0000	3.5013	3.5013	5.0000e-005	0.0000	3.5025
Total	1.1100e-003	7.0000e-004	8.7500e-003	4.0000e-005	6.0300e-003	2.0000e-005	6.0500e-003	1.6000e-003	2.0000e-005	1.6200e-003	0.0000	3.5013	3.5013	5.0000e-005	0.0000	3.5025

3.4 Grading - 2039

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					0.1740	0.0000	0.1740	0.0893	0.0000	0.0893	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0925	0.2979	0.5388	2.0700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	205.2537	205.2537	7.3900e-003	0.0000	205.4386
Total	0.0925	0.2979	0.5388	2.0700e-003	0.1740	9.9000e-003	0.1839	0.0893	9.9000e-003	0.0992	0.0000	205.2537	205.2537	7.3900e-003	0.0000	205.4386

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	8.0000e-004	5.0000e-004	6.3200e-003	3.0000e-005	4.3600e-003	2.0000e-005	4.3700e-003	1.1600e-003	1.0000e-005	1.1700e-003	0.0000	2.5305	2.5305	3.0000e-005	0.0000	2.5314
Total	8.0000e-004	5.0000e-004	6.3200e-003	3.0000e-005	4.3600e-003	2.0000e-005	4.3700e-003	1.1600e-003	1.0000e-005	1.1700e-003	0.0000	2.5305	2.5305	3.0000e-005	0.0000	2.5314

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					0.0783	0.0000	0.0783	0.0402	0.0000	0.0402	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0925	0.2979	0.5388	2.0700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	205.2535	205.2535	7.3900e-003	0.0000	205.4384
Total	0.0925	0.2979	0.5388	2.0700e-003	0.0783	9.9000e-003	0.0882	0.0402	9.9000e-003	0.0501	0.0000	205.2535	205.2535	7.3900e-003	0.0000	205.4384

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	8.0000e-004	5.0000e-004	6.3200e-003	3.0000e-005	4.3600e-003	2.0000e-005	4.3700e-003	1.1600e-003	1.0000e-005	1.1700e-003	0.0000	2.5305	2.5305	3.0000e-005	0.0000	2.5314
Total	8.0000e-004	5.0000e-004	6.3200e-003	3.0000e-005	4.3600e-003	2.0000e-005	4.3700e-003	1.1600e-003	1.0000e-005	1.1700e-003	0.0000	2.5305	2.5305	3.0000e-005	0.0000	2.5314

3.5 Building Construction - 2039

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	0.0389	0.2217	0.5489	8.8000e-004		2.6900e-003	2.6900e-003		2.6900e-003	2.6900e-003	0.0000	75.6926	75.6926	3.1200e-003	0.0000	75.7706
Total	0.0389	0.2217	0.5489	8.8000e-004		2.6900e-003	2.6900e-003		2.6900e-003	2.6900e-003	0.0000	75.6926	75.6926	3.1200e-003	0.0000	75.7706

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	9.3000e-003	0.3641	0.0571	1.4800e-003	0.0388	4.4000e-004	0.0393	0.0112	4.2000e-004	0.0117	0.0000	140.7988	140.7988	7.1500e-003	0.0000	140.9777
Worker	0.0253	0.0159	0.1992	8.8000e-004	0.1373	4.7000e-004	0.1377	0.0365	4.4000e-004	0.0370	0.0000	79.7296	79.7296	1.0700e-003	0.0000	79.7562
Total	0.0346	0.3800	0.2562	2.3600e-003	0.1761	9.1000e-004	0.1770	0.0478	8.6000e-004	0.0486	0.0000	220.5284	220.5284	8.2200e-003	0.0000	220.7339

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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	0.0389	0.2217	0.5489	8.8000e-004		2.6900e-003	2.6900e-003		2.6900e-003	2.6900e-003	0.0000	75.6925	75.6925	3.1200e-003	0.0000	75.7705
Total	0.0389	0.2217	0.5489	8.8000e-004		2.6900e-003	2.6900e-003		2.6900e-003	2.6900e-003	0.0000	75.6925	75.6925	3.1200e-003	0.0000	75.7705

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	9.3000e-003	0.3641	0.0571	1.4800e-003	0.0388	4.4000e-004	0.0393	0.0112	4.2000e-004	0.0117	0.0000	140.7988	140.7988	7.1500e-003	0.0000	140.9777
Worker	0.0253	0.0159	0.1992	8.8000e-004	0.1373	4.7000e-004	0.1377	0.0365	4.4000e-004	0.0370	0.0000	79.7296	79.7296	1.0700e-003	0.0000	79.7562
Total	0.0346	0.3800	0.2562	2.3600e-003	0.1761	9.1000e-004	0.1770	0.0478	8.6000e-004	0.0486	0.0000	220.5284	220.5284	8.2200e-003	0.0000	220.7339

3.5 Building Construction - 2040

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	0.0459	0.2595	0.6526	1.0500e-003		2.7900e-003	2.7900e-003		2.7900e-003	2.7900e-003	0.0000	89.9205	89.9205	3.6200e-003	0.0000	90.0109
Total	0.0459	0.2595	0.6526	1.0500e-003		2.7900e-003	2.7900e-003		2.7900e-003	2.7900e-003	0.0000	89.9205	89.9205	3.6200e-003	0.0000	90.0109

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	0.0109	0.4245	0.0662	1.7700e-003	0.0461	4.9000e-004	0.0466	0.0134	4.7000e-004	0.0138	0.0000	167.6816	167.6816	8.2500e-003	0.0000	167.8880
Worker	0.0216	0.0141	0.1898	9.9000e-004	0.1631	4.2000e-004	0.1635	0.0434	3.9000e-004	0.0438	0.0000	90.0032	90.0032	8.6000e-004	0.0000	90.0246
Total	0.0324	0.4386	0.2560	2.7600e-003	0.2092	9.1000e-004	0.2101	0.0567	8.6000e-004	0.0576	0.0000	257.6848	257.6848	9.1100e-003	0.0000	257.9126

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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	0.0459	0.2595	0.6526	1.0500e-003		2.7900e-003	2.7900e-003		2.7900e-003	2.7900e-003	0.0000	89.9204	89.9204	3.6200e-003	0.0000	90.0108
Total	0.0459	0.2595	0.6526	1.0500e-003		2.7900e-003	2.7900e-003		2.7900e-003	2.7900e-003	0.0000	89.9204	89.9204	3.6200e-003	0.0000	90.0108

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	0.0109	0.4245	0.0662	1.7700e-003	0.0461	4.9000e-004	0.0466	0.0134	4.7000e-004	0.0138	0.0000	167.6816	167.6816	8.2500e-003	0.0000	167.8880
Worker	0.0216	0.0141	0.1898	9.9000e-004	0.1631	4.2000e-004	0.1635	0.0434	3.9000e-004	0.0438	0.0000	90.0032	90.0032	8.6000e-004	0.0000	90.0246
Total	0.0324	0.4386	0.2560	2.7600e-003	0.2092	9.1000e-004	0.2101	0.0567	8.6000e-004	0.0576	0.0000	257.6848	257.6848	9.1100e-003	0.0000	257.9126

3.6 Paving - 2040

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	0.0220	0.0980	0.3345	5.8000e-004		2.2400e-003	2.2400e-003		2.2400e-003	2.2400e-003	0.0000	49.6110	49.6110	1.7600e-003	0.0000	49.6549
Paving	3.5900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0255	0.0980	0.3345	5.8000e-004		2.2400e-003	2.2400e-003		2.2400e-003	2.2400e-003	0.0000	49.6110	49.6110	1.7600e-003	0.0000	49.6549

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	4.5000e-004	2.9000e-004	3.9400e-003	2.0000e-005	3.3900e-003	1.0000e-005	3.4000e-003	9.0000e-004	1.0000e-005	9.1000e-004	0.0000	1.8702	1.8702	2.0000e-005	0.0000	1.8707
Total	4.5000e-004	2.9000e-004	3.9400e-003	2.0000e-005	3.3900e-003	1.0000e-005	3.4000e-003	9.0000e-004	1.0000e-005	9.1000e-004	0.0000	1.8702	1.8702	2.0000e-005	0.0000	1.8707

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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	0.0220	0.0980	0.3345	5.8000e-004		2.2400e-003	2.2400e-003		2.2400e-003	2.2400e-003	0.0000	49.6109	49.6109	1.7600e-003	0.0000	49.6548
Paving	3.5900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0255	0.0980	0.3345	5.8000e-004		2.2400e-003	2.2400e-003		2.2400e-003	2.2400e-003	0.0000	49.6109	49.6109	1.7600e-003	0.0000	49.6548

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	4.5000e-004	2.9000e-004	3.9400e-003	2.0000e-005	3.3900e-003	1.0000e-005	3.4000e-003	9.0000e-004	1.0000e-005	9.1000e-004	0.0000	1.8702	1.8702	2.0000e-005	0.0000	1.8707
Total	4.5000e-004	2.9000e-004	3.9400e-003	2.0000e-005	3.3900e-003	1.0000e-005	3.4000e-003	9.0000e-004	1.0000e-005	9.1000e-004	0.0000	1.8702	1.8702	2.0000e-005	0.0000	1.8707

3.7 Architectural Coating - 2040

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	2.1289					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.8300e-003	0.0242	0.0597	1.0000e-004		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	8.5109	8.5109	3.0000e-004	0.0000	8.5183
Total	2.1327	0.0242	0.0597	1.0000e-004		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	8.5109	8.5109	3.0000e-004	0.0000	8.5183

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	1.3900e-003	9.1000e-004	0.0122	6.0000e-005	0.0105	3.0000e-005	0.0105	2.7900e-003	3.0000e-005	2.8200e-003	0.0000	5.7972	5.7972	6.0000e-005	0.0000	5.7986
Total	1.3900e-003	9.1000e-004	0.0122	6.0000e-005	0.0105	3.0000e-005	0.0105	2.7900e-003	3.0000e-005	2.8200e-003	0.0000	5.7972	5.7972	6.0000e-005	0.0000	5.7986

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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	2.1289					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.8300e-003	0.0242	0.0597	1.0000e-004		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	8.5108	8.5108	3.0000e-004	0.0000	8.5183
Total	2.1327	0.0242	0.0597	1.0000e-004		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	8.5108	8.5108	3.0000e-004	0.0000	8.5183

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	1.3900e-003	9.1000e-004	0.0122	6.0000e-005	0.0105	3.0000e-005	0.0105	2.7900e-003	3.0000e-005	2.8200e-003	0.0000	5.7972	5.7972	6.0000e-005	0.0000	5.7986
Total	1.3900e-003	9.1000e-004	0.0122	6.0000e-005	0.0105	3.0000e-005	0.0105	2.7900e-003	3.0000e-005	2.8200e-003	0.0000	5.7972	5.7972	6.0000e-005	0.0000	5.7986

3.7 Architectural Coating - 2041

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	0.1277					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3000e-004	1.4500e-003	3.5800e-003	1.0000e-005		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.5107	0.5107	2.0000e-005	0.0000	0.5111
Total	0.1280	1.4500e-003	3.5800e-003	1.0000e-005		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.5107	0.5107	2.0000e-005	0.0000	0.5111

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	8.0000e-005	5.0000e-005	7.3000e-004	0.0000	6.3000e-004	0.0000	6.3000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.3478	0.3478	0.0000	0.0000	0.3479
Total	8.0000e-005	5.0000e-005	7.3000e-004	0.0000	6.3000e-004	0.0000	6.3000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.3478	0.3478	0.0000	0.0000	0.3479

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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	0.1277					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3000e-004	1.4500e-003	3.5800e-003	1.0000e-005		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.5107	0.5107	2.0000e-005	0.0000	0.5111
Total	0.1280	1.4500e-003	3.5800e-003	1.0000e-005		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.5107	0.5107	2.0000e-005	0.0000	0.5111

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	8.0000e-005	5.0000e-005	7.3000e-004	0.0000	6.3000e-004	0.0000	6.3000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.3478	0.3478	0.0000	0.0000	0.3479
Total	8.0000e-005	5.0000e-005	7.3000e-004	0.0000	6.3000e-004	0.0000	6.3000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.3478	0.3478	0.0000	0.0000	0.3479

***CalEEMod Output Files
Construction - Phase 5***

**Valley's Edge Specific Plan Project - Construction (Phase 5)
Butte County AQMD Air District, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	24.49	1000sqft	0.00	24,492.00	0
Other Asphalt Surfaces	13.40	Acre	13.40	583,704.00	0
Apartments Low Rise	11.00	Dwelling Unit	0.00	20,024.00	31
Single Family Housing	35.00	Dwelling Unit	5.61	121,800.00	100
Free-Standing Discount Store	4.60	1000sqft	0.00	4,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	71
Climate Zone	3	Operational Year		2045	
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - VESP. Modeling construction only.

Land Use - Phase 5: VLDR: 35 du, MDR: 11 du, Office: 24.492 ksf, Retail: 4.6 ksf, Paving: 13.4 acres. 5.61 Acre site.

Construction Phase - Construction would occur between 4/1/2042 to 8/30/2043.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Updated equipment per applicant.

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Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Trips and VMT - Default trips assumed.

Grading - Updated disturbed acres.

Architectural Coating - Application of low-VOC architectural coatings (50 g/L).

Construction Off-road Equipment Mitigation - Water two times daily.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_Nonresidential_Exterior	14546	32220
tblAreaCoating	Area_Nonresidential_Interior	43638	96660
tblAreaCoating	Area_Parking	35022	29142
tblAreaCoating	Area_Residential_Exterior	95731	845158
tblAreaCoating	Area_Residential_Interior	287194	2535474
tblConstructionPhase	NumDays	10.00	2.00
tblConstructionPhase	NumDays	30.00	23.00
tblConstructionPhase	NumDays	30.00	9.00
tblConstructionPhase	NumDays	300.00	50.00
tblConstructionPhase	NumDays	20.00	9.00
tblConstructionPhase	NumDays	20.00	25.00
tblFireplaces	NumberGas	15.05	79.98
tblFireplaces	NumberNoFireplace	6.30	33.48
tblFireplaces	NumberWood	13.65	72.54
tblGrading	AcresOfGrading	27.00	5.61
tblGrading	AcresOfGrading	0.00	5.61
tblLandUse	LandUseSquareFeet	24,490.00	24,492.00

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tblLandUse	LandUseSquareFeet	11,000.00	20,024.00
tblLandUse	LandUseSquareFeet	63,000.00	121,800.00
tblLandUse	LotAcreage	0.56	0.00
tblLandUse	LotAcreage	0.69	0.00
tblLandUse	LotAcreage	11.36	5.61
tblLandUse	LotAcreage	0.11	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	19.78	7.74
tblSolidWaste	SolidWasteGenerationRate	22.78	50.22
tblSolidWaste	SolidWasteGenerationRate	36.00	191.52
tblTripsAndVMT	VendorTripNumber	105.00	106.00
tblTripsAndVMT	WorkerTripNumber	5.00	6.00
tblTripsAndVMT	WorkerTripNumber	275.00	276.00
tblTripsAndVMT	WorkerTripNumber	55.00	56.00
tblWater	IndoorWaterUseRate	340,733.60	133,330.54
tblWater	IndoorWaterUseRate	4,352,699.49	9,597,622.39
tblWater	IndoorWaterUseRate	2,280,390.90	12,118,648.77
tblWater	OutdoorWaterUseRate	208,836.72	81,718.72
tblWater	OutdoorWaterUseRate	2,667,783.56	5,882,413.72
tblWater	OutdoorWaterUseRate	1,437,637.74	7,640,017.70
tblWoodstoves	NumberCatalytic	3.15	16.74
tblWoodstoves	NumberNoncatalytic	3.15	16.74

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	4/1/2042	4/2/2042	5	2	
2	Trenching	Grading	4/3/2042	5/5/2042	5	23	
3	Grading	Grading	4/3/2042	4/15/2042	5	9	
4	Building Construction	Building Construction	5/6/2042	7/14/2042	5	50	
5	Paving	Paving	7/15/2043	7/27/2043	5	9	
6	Architectural Coating	Architectural Coating	7/28/2043	8/31/2043	5	25	

Acres of Grading (Site Preparation Phase): 5.61

Acres of Grading (Grading Phase): 5.61

Acres of Paving: 13.4

Residential Indoor: 287,194; Residential Outdoor: 95,731; Non-Residential Indoor: 43,638; Non-Residential Outdoor: 14,546; Striped

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Off-Highway Trucks	1	8.00	402	0.38
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Trenching	Excavators	1	8.00	158	0.38
Trenching	Off-Highway Trucks	1	4.00	402	0.38
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Off-Highway Trucks	1	8.00	402	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	3	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	8.00	78	0.48

Trips and VMT

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	2	6.00	0.00	0.00	12.54	10.52	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	4	10.00	0.00	0.00	12.54	10.52	20.00	LD_Mix	HDT_Mix	HHDT
Grading	7	18.00	0.00	0.00	12.54	10.52	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	276.00	106.00	0.00	12.54	10.52	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	12.54	10.52	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	56.00	0.00	0.00	12.54	10.52	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2042

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					9.0000e-003	0.0000	9.0000e-003	3.6300e-003	0.0000	3.6300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.9000e-004	2.2300e-003	5.1100e-003	2.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	2.2874	2.2874	8.0000e-005	0.0000	2.2894
Total	9.9000e-004	2.2300e-003	5.1100e-003	2.0000e-005	9.0000e-003	9.0000e-005	9.0900e-003	3.6300e-003	9.0000e-005	3.7200e-003	0.0000	2.2874	2.2874	8.0000e-005	0.0000	2.2894

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	1.0000e-005	0.0000	6.0000e-005	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0303	0.0303	0.0000	0.0000	0.0303
Total	1.0000e-005	0.0000	6.0000e-005	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0303	0.0303	0.0000	0.0000	0.0303

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					4.0500e-003	0.0000	4.0500e-003	1.6300e-003	0.0000	1.6300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.9000e-004	2.2300e-003	5.1100e-003	2.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	2.2874	2.2874	8.0000e-005	0.0000	2.2894
Total	9.9000e-004	2.2300e-003	5.1100e-003	2.0000e-005	4.0500e-003	9.0000e-005	4.1400e-003	1.6300e-003	9.0000e-005	1.7200e-003	0.0000	2.2874	2.2874	8.0000e-005	0.0000	2.2894

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	1.0000e-005	0.0000	6.0000e-005	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0303	0.0303	0.0000	0.0000	0.0303
Total	1.0000e-005	0.0000	6.0000e-005	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0303	0.0303	0.0000	0.0000	0.0303

3.3 Trenching - 2042

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					1.2400e-003	0.0000	1.2400e-003	1.3000e-004	0.0000	1.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.2100e-003	0.0301	0.1120	2.4000e-004		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004	0.0000	21.7709	21.7709	7.3000e-004	0.0000	21.7891
Total	9.2100e-003	0.0301	0.1120	2.4000e-004	1.2400e-003	5.8000e-004	1.8200e-003	1.3000e-004	5.8000e-004	7.1000e-004	0.0000	21.7709	21.7709	7.3000e-004	0.0000	21.7891

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	1.4000e-004	9.0000e-005	1.2200e-003	1.0000e-005	1.0500e-003	0.0000	1.0500e-003	2.8000e-004	0.0000	2.8000e-004	0.0000	0.5797	0.5797	1.0000e-005	0.0000	0.5799
Total	1.4000e-004	9.0000e-005	1.2200e-003	1.0000e-005	1.0500e-003	0.0000	1.0500e-003	2.8000e-004	0.0000	2.8000e-004	0.0000	0.5797	0.5797	1.0000e-005	0.0000	0.5799

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					5.6000e-004	0.0000	5.6000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.2100e-003	0.0301	0.1120	2.4000e-004		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004	0.0000	21.7708	21.7708	7.3000e-004	0.0000	21.7891
Total	9.2100e-003	0.0301	0.1120	2.4000e-004	5.6000e-004	5.8000e-004	1.1400e-003	6.0000e-005	5.8000e-004	6.4000e-004	0.0000	21.7708	21.7708	7.3000e-004	0.0000	21.7891

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	1.4000e-004	9.0000e-005	1.2200e-003	1.0000e-005	1.0500e-003	0.0000	1.0500e-003	2.8000e-004	0.0000	2.8000e-004	0.0000	0.5797	0.5797	1.0000e-005	0.0000	0.5799
Total	1.4000e-004	9.0000e-005	1.2200e-003	1.0000e-005	1.0500e-003	0.0000	1.0500e-003	2.8000e-004	0.0000	2.8000e-004	0.0000	0.5797	0.5797	1.0000e-005	0.0000	0.5799

3.4 Grading - 2042

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					0.0301	0.0000	0.0301	0.0152	0.0000	0.0152	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0147	0.0384	0.0902	3.5000e-004		1.1900e-003	1.1900e-003		1.1900e-003	1.1900e-003	0.0000	34.8544	34.8544	1.1500e-003	0.0000	34.8832
Total	0.0147	0.0384	0.0902	3.5000e-004	0.0301	1.1900e-003	0.0313	0.0152	1.1900e-003	0.0164	0.0000	34.8544	34.8544	1.1500e-003	0.0000	34.8832

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	1.0000e-004	6.0000e-005	8.6000e-004	0.0000	7.4000e-004	0.0000	7.4000e-004	2.0000e-004	0.0000	2.0000e-004	0.0000	0.4083	0.4083	0.0000	0.0000	0.4084
Total	1.0000e-004	6.0000e-005	8.6000e-004	0.0000	7.4000e-004	0.0000	7.4000e-004	2.0000e-004	0.0000	2.0000e-004	0.0000	0.4083	0.4083	0.0000	0.0000	0.4084

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					0.0135	0.0000	0.0135	6.8500e-003	0.0000	6.8500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0147	0.0384	0.0902	3.5000e-004		1.1900e-003	1.1900e-003		1.1900e-003	1.1900e-003	0.0000	34.8543	34.8543	1.1500e-003	0.0000	34.8832
Total	0.0147	0.0384	0.0902	3.5000e-004	0.0135	1.1900e-003	0.0147	6.8500e-003	1.1900e-003	8.0400e-003	0.0000	34.8543	34.8543	1.1500e-003	0.0000	34.8832

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	1.0000e-004	6.0000e-005	8.6000e-004	0.0000	7.4000e-004	0.0000	7.4000e-004	2.0000e-004	0.0000	2.0000e-004	0.0000	0.4083	0.4083	0.0000	0.0000	0.4084
Total	1.0000e-004	6.0000e-005	8.6000e-004	0.0000	7.4000e-004	0.0000	7.4000e-004	2.0000e-004	0.0000	2.0000e-004	0.0000	0.4083	0.4083	0.0000	0.0000	0.4084

3.5 Building Construction - 2042

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	0.0145	0.0821	0.2065	3.3000e-004		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004	0.0000	28.4559	28.4559	1.1400e-003	0.0000	28.4845
Total	0.0145	0.0821	0.2065	3.3000e-004		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004	0.0000	28.4559	28.4559	1.1400e-003	0.0000	28.4845

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	5.8700e-003	0.2297	0.0358	9.6000e-004	0.0250	2.6000e-004	0.0252	7.2200e-003	2.5000e-004	7.4700e-003	0.0000	90.7220	90.7220	4.4700e-003	0.0000	90.8336
Worker	8.3400e-003	5.4400e-003	0.0734	3.8000e-004	0.0630	1.6000e-004	0.0632	0.0168	1.5000e-004	0.0169	0.0000	34.7834	34.7834	3.3000e-004	0.0000	34.7916
Total	0.0142	0.2351	0.1092	1.3400e-003	0.0880	4.2000e-004	0.0884	0.0240	4.0000e-004	0.0244	0.0000	125.5053	125.5053	4.8000e-003	0.0000	125.6253

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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	0.0145	0.0821	0.2065	3.3000e-004		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004	0.0000	28.4558	28.4558	1.1400e-003	0.0000	28.4844
Total	0.0145	0.0821	0.2065	3.3000e-004		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004	0.0000	28.4558	28.4558	1.1400e-003	0.0000	28.4844

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	5.8700e-003	0.2297	0.0358	9.6000e-004	0.0250	2.6000e-004	0.0252	7.2200e-003	2.5000e-004	7.4700e-003	0.0000	90.7220	90.7220	4.4700e-003	0.0000	90.8336
Worker	8.3400e-003	5.4400e-003	0.0734	3.8000e-004	0.0630	1.6000e-004	0.0632	0.0168	1.5000e-004	0.0169	0.0000	34.7834	34.7834	3.3000e-004	0.0000	34.7916
Total	0.0142	0.2351	0.1092	1.3400e-003	0.0880	4.2000e-004	0.0884	0.0240	4.0000e-004	0.0244	0.0000	125.5053	125.5053	4.8000e-003	0.0000	125.6253

3.6 Paving - 2043

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	3.7300e-003	0.0166	0.0568	1.0000e-004		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	8.4245	8.4245	3.0000e-004	0.0000	8.4320
Paving	0.0176					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0213	0.0166	0.0568	1.0000e-004		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	8.4245	8.4245	3.0000e-004	0.0000	8.4320

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	7.0000e-005	5.0000e-005	6.2000e-004	0.0000	5.3000e-004	0.0000	5.4000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.2949	0.2949	0.0000	0.0000	0.2950
Total	7.0000e-005	5.0000e-005	6.2000e-004	0.0000	5.3000e-004	0.0000	5.4000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.2949	0.2949	0.0000	0.0000	0.2950

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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	3.7300e-003	0.0166	0.0568	1.0000e-004		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	8.4245	8.4245	3.0000e-004	0.0000	8.4320
Paving	0.0176					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0213	0.0166	0.0568	1.0000e-004		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	8.4245	8.4245	3.0000e-004	0.0000	8.4320

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	7.0000e-005	5.0000e-005	6.2000e-004	0.0000	5.3000e-004	0.0000	5.4000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.2949	0.2949	0.0000	0.0000	0.2950
Total	7.0000e-005	5.0000e-005	6.2000e-004	0.0000	5.3000e-004	0.0000	5.4000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.2949	0.2949	0.0000	0.0000	0.2950

3.7 Architectural Coating - 2043

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	0.7140					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9100e-003	0.0121	0.0299	5.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	4.2554	4.2554	1.5000e-004	0.0000	4.2592
Total	0.7160	0.0121	0.0299	5.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	4.2554	4.2554	1.5000e-004	0.0000	4.2592

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	8.5000e-004	5.5000e-004	7.4400e-003	4.0000e-005	6.3900e-003	2.0000e-005	6.4100e-003	1.7000e-003	2.0000e-005	1.7200e-003	0.0000	3.5288	3.5288	3.0000e-005	0.0000	3.5296
Total	8.5000e-004	5.5000e-004	7.4400e-003	4.0000e-005	6.3900e-003	2.0000e-005	6.4100e-003	1.7000e-003	2.0000e-005	1.7200e-003	0.0000	3.5288	3.5288	3.0000e-005	0.0000	3.5296

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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	0.7140					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9100e-003	0.0121	0.0299	5.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	4.2554	4.2554	1.5000e-004	0.0000	4.2592
Total	0.7160	0.0121	0.0299	5.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	4.2554	4.2554	1.5000e-004	0.0000	4.2592

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	8.5000e-004	5.5000e-004	7.4400e-003	4.0000e-005	6.3900e-003	2.0000e-005	6.4100e-003	1.7000e-003	2.0000e-005	1.7200e-003	0.0000	3.5288	3.5288	3.0000e-005	0.0000	3.5296
Total	8.5000e-004	5.5000e-004	7.4400e-003	4.0000e-005	6.3900e-003	2.0000e-005	6.4100e-003	1.7000e-003	2.0000e-005	1.7200e-003	0.0000	3.5288	3.5288	3.0000e-005	0.0000	3.5296

***CalEEMod Output Files
Construction - Phase 6***

**Valley's Edge Specific Plan Project - Construction (Phase 6)
Butte County AQMD Air District, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	5.66	1000sqft	3.00	5,662.00	0
Other Asphalt Surfaces	8.24	Acre	8.24	358,934.40	0
Free-Standing Discount Store	0.40	1000sqft	0.00	400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	71
Climate Zone	3	Operational Year	2045		
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - VESP. Modeling construction only.

Land Use - Phase 6: Office: 5.662 ksf, Retail: 0.4 ksf, Paving: 8.24 acres. 3 Acre site.

Construction Phase - Construction would occur between 4/1/2043 to 7/31/2043.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

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Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Trips and VMT - Default trips assumed.

Grading - Updated acres disturbed.

Architectural Coating - Application of low-VOC architectural coatings (50 g/L).

Construction Off-road Equipment Mitigation - Water two times daily.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblAreaCoating	Area_Nonresidential_Exterior	3031	32220
tblAreaCoating	Area_Nonresidential_Interior	9093	96660
tblAreaCoating	Area_Parking	21536	29142
tblAreaCoating	Area_Residential_Exterior	0	845158
tblAreaCoating	Area_Residential_Interior	0	2535474
tblConstructionPhase	NumDays	20.00	9.00
tblConstructionPhase	NumDays	300.00	50.00
tblConstructionPhase	NumDays	30.00	10.00
tblConstructionPhase	NumDays	30.00	10.00
tblConstructionPhase	NumDays	20.00	9.00
tblConstructionPhase	NumDays	10.00	2.00
tblGrading	AcresOfGrading	30.00	3.00
tblGrading	AcresOfGrading	0.00	3.00
tblLandUse	LandUseSquareFeet	5,660.00	5,662.00
tblLandUse	LotAcreage	0.13	3.00
tblLandUse	LotAcreage	0.01	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00

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tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	1.72	7.74
tblSolidWaste	SolidWasteGenerationRate	5.26	50.22
tblTripsAndVMT	VendorTripNumber	60.00	26.00
tblTripsAndVMT	WorkerTripNumber	5.00	6.00
tblTripsAndVMT	WorkerTripNumber	153.00	70.00
tblTripsAndVMT	WorkerTripNumber	13.00	14.00
tblTripsAndVMT	WorkerTripNumber	31.00	16.00
tblWater	IndoorWaterUseRate	29,629.01	133,330.54
tblWater	IndoorWaterUseRate	1,005,973.01	9,597,622.39
tblWater	OutdoorWaterUseRate	18,159.71	81,718.72
tblWater	OutdoorWaterUseRate	616,564.11	5,882,413.72

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	4/1/2043	4/2/2043	5	2	
2	Trenching	Grading	4/3/2043	4/16/2043	5	10	
3	Grading	Grading	4/3/2043	4/16/2043	5	10	
4	Building Construction	Building Construction	4/17/2043	6/25/2043	5	50	
5	Paving	Paving	6/26/2043	7/8/2043	5	9	
6	Architectural Coating	Architectural Coating	7/9/2043	7/21/2043	5	9	

Acres of Grading (Site Preparation Phase): 3

Acres of Grading (Grading Phase): 3

Acres of Paving: 8.24

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 9,093; Non-Residential Outdoor: 3,031; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Off-Highway Trucks	1	8.00	402	0.38
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Trenching	Excavators	1	8.00	158	0.38
Trenching	Off-Highway Trucks	1	4.00	402	0.38
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Off-Highway Trucks	1	8.00	402	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	3	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	8.00	78	0.48

Trips and VMT

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	2	6.00	0.00	0.00	12.54	10.52	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	4	10.00	0.00	0.00	12.54	10.52	20.00	LD_Mix	HDT_Mix	HHDT
Grading	7	18.00	0.00	0.00	12.54	10.52	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	70.00	26.00	0.00	12.54	10.52	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	14.00	0.00	0.00	12.54	10.52	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	16.00	0.00	0.00	12.54	10.52	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2043

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					7.6100e-003	0.0000	7.6100e-003	3.4800e-003	0.0000	3.4800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.9000e-004	2.2300e-003	5.1100e-003	2.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	2.2874	2.2874	8.0000e-005	0.0000	2.2894
Total	9.9000e-004	2.2300e-003	5.1100e-003	2.0000e-005	7.6100e-003	9.0000e-005	7.7000e-003	3.4800e-003	9.0000e-005	3.5700e-003	0.0000	2.2874	2.2874	8.0000e-005	0.0000	2.2894

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	1.0000e-005	0.0000	6.0000e-005	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0303	0.0303	0.0000	0.0000	0.0303
Total	1.0000e-005	0.0000	6.0000e-005	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0303	0.0303	0.0000	0.0000	0.0303

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					3.4300e-003	0.0000	3.4300e-003	1.5700e-003	0.0000	1.5700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.9000e-004	2.2300e-003	5.1100e-003	2.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	2.2874	2.2874	8.0000e-005	0.0000	2.2894
Total	9.9000e-004	2.2300e-003	5.1100e-003	2.0000e-005	3.4300e-003	9.0000e-005	3.5200e-003	1.5700e-003	9.0000e-005	1.6600e-003	0.0000	2.2874	2.2874	8.0000e-005	0.0000	2.2894

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	1.0000e-005	0.0000	6.0000e-005	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0303	0.0303	0.0000	0.0000	0.0303
Total	1.0000e-005	0.0000	6.0000e-005	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0303	0.0303	0.0000	0.0000	0.0303

3.3 Trenching - 2043

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					4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.0000e-003	0.0131	0.0487	1.0000e-004		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	9.4656	9.4656	3.2000e-004	0.0000	9.4735
Total	4.0000e-003	0.0131	0.0487	1.0000e-004	4.0000e-005	2.5000e-004	2.9000e-004	0.0000	2.5000e-004	2.5000e-004	0.0000	9.4656	9.4656	3.2000e-004	0.0000	9.4735

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	6.0000e-005	4.0000e-005	5.3000e-004	0.0000	4.6000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.2521	0.2521	0.0000	0.0000	0.2521
Total	6.0000e-005	4.0000e-005	5.3000e-004	0.0000	4.6000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.2521	0.2521	0.0000	0.0000	0.2521

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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					2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.0000e-003	0.0131	0.0487	1.0000e-004		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	9.4656	9.4656	3.2000e-004	0.0000	9.4735
Total	4.0000e-003	0.0131	0.0487	1.0000e-004	2.0000e-005	2.5000e-004	2.7000e-004	0.0000	2.5000e-004	2.5000e-004	0.0000	9.4656	9.4656	3.2000e-004	0.0000	9.4735

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	6.0000e-005	4.0000e-005	5.3000e-004	0.0000	4.6000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.2521	0.2521	0.0000	0.0000	0.2521
Total	6.0000e-005	4.0000e-005	5.3000e-004	0.0000	4.6000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.2521	0.2521	0.0000	0.0000	0.2521

3.4 Grading - 2043

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					0.0317	0.0000	0.0317	0.0167	0.0000	0.0167	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0163	0.0427	0.1003	3.9000e-004		1.3300e-003	1.3300e-003		1.3300e-003	1.3300e-003	0.0000	38.7271	38.7271	1.2800e-003	0.0000	38.7591
Total	0.0163	0.0427	0.1003	3.9000e-004	0.0317	1.3300e-003	0.0330	0.0167	1.3300e-003	0.0181	0.0000	38.7271	38.7271	1.2800e-003	0.0000	38.7591

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	7.0000e-005	9.6000e-004	1.0000e-005	8.2000e-004	0.0000	8.2000e-004	2.2000e-004	0.0000	2.2000e-004	0.0000	0.4537	0.4537	0.0000	0.0000	0.4538
Total	1.1000e-004	7.0000e-005	9.6000e-004	1.0000e-005	8.2000e-004	0.0000	8.2000e-004	2.2000e-004	0.0000	2.2000e-004	0.0000	0.4537	0.4537	0.0000	0.0000	0.4538

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					0.0143	0.0000	0.0143	7.5300e-003	0.0000	7.5300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0163	0.0427	0.1003	3.9000e-004		1.3300e-003	1.3300e-003		1.3300e-003	1.3300e-003	0.0000	38.7270	38.7270	1.2800e-003	0.0000	38.7591
Total	0.0163	0.0427	0.1003	3.9000e-004	0.0143	1.3300e-003	0.0156	7.5300e-003	1.3300e-003	8.8600e-003	0.0000	38.7270	38.7270	1.2800e-003	0.0000	38.7591

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	7.0000e-005	9.6000e-004	1.0000e-005	8.2000e-004	0.0000	8.2000e-004	2.2000e-004	0.0000	2.2000e-004	0.0000	0.4537	0.4537	0.0000	0.0000	0.4538
Total	1.1000e-004	7.0000e-005	9.6000e-004	1.0000e-005	8.2000e-004	0.0000	8.2000e-004	2.2000e-004	0.0000	2.2000e-004	0.0000	0.4537	0.4537	0.0000	0.0000	0.4538

3.5 Building Construction - 2043

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	0.0145	0.0821	0.2065	3.3000e-004		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004	0.0000	28.4559	28.4559	1.1400e-003	0.0000	28.4845
Total	0.0145	0.0821	0.2065	3.3000e-004		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004	0.0000	28.4559	28.4559	1.1400e-003	0.0000	28.4845

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	1.4400e-003	0.0563	8.7900e-003	2.3000e-004	6.1200e-003	6.0000e-005	6.1900e-003	1.7700e-003	6.0000e-005	1.8300e-003	0.0000	22.2526	22.2526	1.1000e-003	0.0000	22.2799
Worker	2.1200e-003	1.3800e-003	0.0186	1.0000e-004	0.0160	4.0000e-005	0.0160	4.2500e-003	4.0000e-005	4.2900e-003	0.0000	8.8219	8.8219	8.0000e-005	0.0000	8.8240
Total	3.5600e-003	0.0577	0.0274	3.3000e-004	0.0221	1.0000e-004	0.0222	6.0200e-003	1.0000e-004	6.1200e-003	0.0000	31.0744	31.0744	1.1800e-003	0.0000	31.1039

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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	0.0145	0.0821	0.2065	3.3000e-004		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004	0.0000	28.4558	28.4558	1.1400e-003	0.0000	28.4844
Total	0.0145	0.0821	0.2065	3.3000e-004		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004	0.0000	28.4558	28.4558	1.1400e-003	0.0000	28.4844

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	1.4400e-003	0.0563	8.7900e-003	2.3000e-004	6.1200e-003	6.0000e-005	6.1900e-003	1.7700e-003	6.0000e-005	1.8300e-003	0.0000	22.2526	22.2526	1.1000e-003	0.0000	22.2799
Worker	2.1200e-003	1.3800e-003	0.0186	1.0000e-004	0.0160	4.0000e-005	0.0160	4.2500e-003	4.0000e-005	4.2900e-003	0.0000	8.8219	8.8219	8.0000e-005	0.0000	8.8240
Total	3.5600e-003	0.0577	0.0274	3.3000e-004	0.0221	1.0000e-004	0.0222	6.0200e-003	1.0000e-004	6.1200e-003	0.0000	31.0744	31.0744	1.1800e-003	0.0000	31.1039

3.6 Paving - 2043

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	3.7300e-003	0.0166	0.0568	1.0000e-004		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	8.4245	8.4245	3.0000e-004	0.0000	8.4320
Paving	0.0108					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0145	0.0166	0.0568	1.0000e-004		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	8.4245	8.4245	3.0000e-004	0.0000	8.4320

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	8.0000e-005	5.0000e-005	6.7000e-004	0.0000	5.8000e-004	0.0000	5.8000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.3176	0.3176	0.0000	0.0000	0.3177
Total	8.0000e-005	5.0000e-005	6.7000e-004	0.0000	5.8000e-004	0.0000	5.8000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.3176	0.3176	0.0000	0.0000	0.3177

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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	3.7300e-003	0.0166	0.0568	1.0000e-004		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	8.4245	8.4245	3.0000e-004	0.0000	8.4320
Paving	0.0108					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0145	0.0166	0.0568	1.0000e-004		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	8.4245	8.4245	3.0000e-004	0.0000	8.4320

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	8.0000e-005	5.0000e-005	6.7000e-004	0.0000	5.8000e-004	0.0000	5.8000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.3176	0.3176	0.0000	0.0000	0.3177
Total	8.0000e-005	5.0000e-005	6.7000e-004	0.0000	5.8000e-004	0.0000	5.8000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.3176	0.3176	0.0000	0.0000	0.3177

3.7 Architectural Coating - 2043

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	0.1388					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.9000e-004	4.3600e-003	0.0108	2.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	1.5320	1.5320	5.0000e-005	0.0000	1.5333
Total	0.1395	4.3600e-003	0.0108	2.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	1.5320	1.5320	5.0000e-005	0.0000	1.5333

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	9.0000e-005	6.0000e-005	7.7000e-004	0.0000	6.6000e-004	0.0000	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.3630	0.3630	0.0000	0.0000	0.3630
Total	9.0000e-005	6.0000e-005	7.7000e-004	0.0000	6.6000e-004	0.0000	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.3630	0.3630	0.0000	0.0000	0.3630

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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	0.1388					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.9000e-004	4.3600e-003	0.0108	2.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	1.5320	1.5320	5.0000e-005	0.0000	1.5333
Total	0.1395	4.3600e-003	0.0108	2.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	1.5320	1.5320	5.0000e-005	0.0000	1.5333

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	9.0000e-005	6.0000e-005	7.7000e-004	0.0000	6.6000e-004	0.0000	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.3630	0.3630	0.0000	0.0000	0.3630
Total	9.0000e-005	6.0000e-005	7.7000e-004	0.0000	6.6000e-004	0.0000	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.3630	0.3630	0.0000	0.0000	0.3630

*CalEEMod Output Files
Operations*

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	272.00	1000sqft	6.24	272,000.00	0
Medical Office Building	136.00	1000sqft	3.12	136,000.00	0
Elementary School	500.00	Student	0.96	41,801.69	0
City Park	8.00	Acre	8.00	348,480.00	0
Apartments Low Rise	162.00	Dwelling Unit	10.13	146,167.00	463
Retirement Community	1,385.00	Dwelling Unit	277.00	2,551,852.00	3961
Single Family Housing	1,230.00	Dwelling Unit	399.35	3,296,357.00	3518
Regional Shopping Center	39.00	1000sqft	0.90	39,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	71
Climate Zone	3			Operational Year	2045
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	298.3	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Valley's Edge Specific Plan Project. BCAQMD. Adjusted CO2 intensity factor based on 60% RPS by 2030.

Land Use - Single-Family Detached Housing: 1230 DU, Multifamily Housing Low Rise: 162, Senior Adult Housing: 1385, Shopping Center: 39 KSF, General Office Building: 272 KSF, Medical-Dental Office: 136 KSF, Elementary School: 500 students, and 7 field soccer complex.

Construction Phase - Modeling operations only.

Off-road Equipment - Modeling operations only.

Trips and VMT - Modeling operations only.

On-road Fugitive Dust - Modeling operations only.

Demolition - Modeling operations only.

Grading - Modeling operations only.

Architectural Coating - Modeling operations only.

Vehicle Trips - Update trip rate and trip length per TRA (Fehr and Peers). Assumed 100% primary trips. Adjusted trip lengths based on VMT analysis.

Woodstoves - Assume natural gas hearths and no woodstoves.

Area Coating - Default assumptions assumed.

Energy Use - Updated energy use to account to account for 2019 reductions based on CEC Impact Analysis. Adjusted electrical residential based on 20% offset by PVs.

Water And Wastewater - Default water and wastewater. Assumed 100% aerobic.

Solid Waste - Default solid waste generation rates assumed.

Water Mitigation - Reduce water consumption by 20% per CalGreen.

Waste Mitigation - Assume 75% waste diverted consistent with AB 341.

Table Name	Column Name	Default Value	New Value
tblEnergyUse	LightingElect	810.36	648.29
tblEnergyUse	LightingElect	1,001.10	800.88
tblEnergyUse	LightingElect	1,608.84	1,287.07
tblEnergyUse	NT24E	3,172.76	2,538.21
tblEnergyUse	NT24E	3,172.76	2,538.21
tblEnergyUse	NT24E	6,155.97	4,924.78
tblEnergyUse	T24E	694.40	544.41
tblEnergyUse	T24E	2.14	1.91
tblEnergyUse	T24E	2.62	2.34
tblEnergyUse	T24E	2.62	2.34
tblEnergyUse	T24E	2.14	1.91
tblEnergyUse	T24E	694.40	533.30
tblEnergyUse	T24E	995.93	764.87

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tblEnergyUse	T24NG	10,413.46	9,892.79
tblEnergyUse	T24NG	23.19	22.96
tblEnergyUse	T24NG	12.77	12.64
tblEnergyUse	T24NG	12.77	12.64
tblEnergyUse	T24NG	8.62	8.53
tblEnergyUse	T24NG	10,413.46	9,476.25
tblEnergyUse	T24NG	22,422.24	20,404.24
tblFireplaces	FireplaceWoodMass	5,158.40	0.00
tblFireplaces	FireplaceWoodMass	5,158.40	0.00
tblFireplaces	FireplaceWoodMass	5,158.40	0.00
tblFireplaces	NumberGas	69.66	132.84
tblFireplaces	NumberGas	595.55	1,135.70
tblFireplaces	NumberGas	528.90	1,008.60
tblFireplaces	NumberWood	63.18	0.00
tblFireplaces	NumberWood	540.15	0.00
tblFireplaces	NumberWood	479.70	0.00
tblLandUse	LandUseSquareFeet	162,000.00	146,167.00
tblLandUse	LandUseSquareFeet	1,385,000.00	2,551,852.00
tblLandUse	LandUseSquareFeet	2,214,000.00	3,296,357.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	298.3
tblVehicleTrips	CC_TL	10.52	4.63
tblVehicleTrips	CC_TL	10.52	6.34
tblVehicleTrips	CC_TL	10.52	6.74
tblVehicleTrips	CC_TL	10.52	6.71
tblVehicleTrips	CC_TL	10.52	8.57
tblVehicleTrips	CNW_TL	10.52	4.63
tblVehicleTrips	CNW_TL	10.52	6.34
tblVehicleTrips	CNW_TL	10.52	6.74
tblVehicleTrips	CNW_TL	10.52	6.71
tblVehicleTrips	CNW_TL	10.52	8.57
tblVehicleTrips	CW_TL	10.52	4.63

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tblVehicleTrips	CW_TL	10.52	6.34
tblVehicleTrips	CW_TL	10.52	6.74
tblVehicleTrips	CW_TL	10.52	6.71
tblVehicleTrips	CW_TL	10.52	8.57
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	DV_TP	25.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	30.00	0.00
tblVehicleTrips	DV_TP	35.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	HO_TL	7.22	7.67
tblVehicleTrips	HO_TL	7.22	7.29
tblVehicleTrips	HO_TL	7.22	7.60
tblVehicleTrips	HS_TL	7.22	7.67
tblVehicleTrips	HS_TL	7.22	7.29
tblVehicleTrips	HS_TL	7.22	7.60
tblVehicleTrips	HW_TL	12.54	7.67
tblVehicleTrips	HW_TL	12.54	7.29
tblVehicleTrips	HW_TL	12.54	7.60
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PB_TP	12.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	10.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	66.00	100.00

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tblVehicleTrips	PR_TP	63.00	100.00
tblVehicleTrips	PR_TP	77.00	100.00
tblVehicleTrips	PR_TP	60.00	100.00
tblVehicleTrips	PR_TP	54.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	ST_TR	7.16	6.31
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	2.46	1.45
tblVehicleTrips	ST_TR	8.96	6.86
tblVehicleTrips	ST_TR	49.97	75.59
tblVehicleTrips	ST_TR	2.03	2.87
tblVehicleTrips	ST_TR	9.91	7.04
tblVehicleTrips	SU_TR	6.07	5.35
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	1.05	0.62
tblVehicleTrips	SU_TR	1.55	1.19
tblVehicleTrips	SU_TR	25.24	38.18
tblVehicleTrips	SU_TR	1.95	2.76
tblVehicleTrips	SU_TR	8.62	6.12
tblVehicleTrips	WD_TR	6.59	5.81
tblVehicleTrips	WD_TR	1.89	49.69
tblVehicleTrips	WD_TR	1.29	1.50
tblVehicleTrips	WD_TR	11.03	6.51
tblVehicleTrips	WD_TR	36.13	27.67
tblVehicleTrips	WD_TR	42.70	64.60
tblVehicleTrips	WD_TR	2.40	3.39
tblVehicleTrips	WD_TR	9.52	6.76
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00

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tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPerce	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPerce	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPerce	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPerce	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPerce	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPerce	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPerce	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPerce	2.21	0.00
tblWater	IndoorWaterUseRate	10,554,952.15	14,614,303.01
tblWater	IndoorWaterUseRate	1,212,120.00	1,678,291.74
tblWater	IndoorWaterUseRate	48,343,579.45	66,936,136.56
tblWater	IndoorWaterUseRate	17,065,353.11	23,628,552.53
tblWater	IndoorWaterUseRate	2,888,828.34	3,999,848.80
tblWater	IndoorWaterUseRate	90,238,325.49	124,943,269.55
tblWater	IndoorWaterUseRate	80,139,451.51	110,960,448.76
tblWater	OutdoorWaterUseRate	6,654,208.96	9,213,364.93
tblWater	OutdoorWaterUseRate	9,531,850.80	13,197,725.00
tblWater	OutdoorWaterUseRate	3,116,880.00	4,315,607.32
tblWater	OutdoorWaterUseRate	29,629,935.79	41,025,374.02
tblWater	OutdoorWaterUseRate	3,250,543.45	4,500,676.67
tblWater	OutdoorWaterUseRate	1,770,572.21	2,451,520.23
tblWater	OutdoorWaterUseRate	56,889,379.11	78,768,582.97
tblWater	OutdoorWaterUseRate	50,522,697.69	69,953,326.39
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00

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tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	14.58	0.00
tblWoodstoves	NumberCatalytic	124.65	0.00
tblWoodstoves	NumberCatalytic	110.70	0.00
tblWoodstoves	NumberNoncatalytic	14.58	0.00
tblWoodstoves	NumberNoncatalytic	124.65	0.00
tblWoodstoves	NumberNoncatalytic	110.70	0.00
tblWoodstoves	WoodstoveDayYear	150.00	0.00
tblWoodstoves	WoodstoveDayYear	150.00	0.00
tblWoodstoves	WoodstoveDayYear	150.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

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	36.2872	3.7028	22.0125	0.0232		0.3946	0.3946		0.3946	0.3946	0.0000	4,047.4007	4,047.4007	0.1090	0.0736	4,072.0547
Energy	0.3068	2.6411	1.2605	0.0167		0.2119	0.2119		0.2119	0.2119	0.0000	5,572.5731	5,572.5731	0.3048	0.1067	5,611.9841
Mobile	2.8624	41.1009	31.4368	0.2494	21.1892	0.0826	21.2718	5.6889	0.0774	5.7664	0.0000	23,228.7371	23,228.7371	1.3127	0.0000	23,261.5541
Waste						0.0000	0.0000		0.0000	0.0000	778.0136	0.0000	778.0136	45.9793	0.0000	1,927.4958
Water						0.0000	0.0000		0.0000	0.0000	122.6845	359.6875	482.3721	0.4572	0.2740	575.4649
Total	39.4563	47.4448	54.7098	0.2893	21.1892	0.6891	21.8784	5.6889	0.6840	6.3729	900.6981	33,208.3984	34,109.0965	48.1631	0.4543	35,448.5537

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	36.2872	3.7028	22.0125	0.0232		0.3946	0.3946		0.3946	0.3946	0.0000	4,047.4007	4,047.4007	0.1090	0.0736	4,072.0547
Energy	0.3068	2.6411	1.2605	0.0167		0.2119	0.2119		0.2119	0.2119	0.0000	5,572.5731	5,572.5731	0.3048	0.1067	5,611.9841
Mobile	2.8624	41.1009	31.4368	0.2494	21.1892	0.0826	21.2718	5.6889	0.0774	5.7664	0.0000	23,228.7371	23,228.7371	1.3127	0.0000	23,261.5541
Waste						0.0000	0.0000		0.0000	0.0000	194.5034	0.0000	194.5034	11.4948	0.0000	481.8740
Water						0.0000	0.0000		0.0000	0.0000	98.1476	287.7500	385.8976	0.3658	0.2192	460.3719
Total	39.4563	47.4448	54.7098	0.2893	21.1892	0.6891	21.8784	5.6889	0.6840	6.3729	292.6510	33,136.4609	33,429.1119	13.5871	0.3995	33,887.8389

	ROG	NOx	CO	SO2	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	67.51	0.22	1.99	71.79	12.06	4.40

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	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	2.8624	41.1009	31.4368	0.2494	21.1892	0.0826	21.2718	5.6889	0.0774	5.7664	0.0000	23,228.7371	23,228.7371	1.3127	0.0000	23,261.5541
Unmitigated	2.8624	41.1009	31.4368	0.2494	21.1892	0.0826	21.2718	5.6889	0.0774	5.7664	0.0000	23,228.7371	23,228.7371	1.3127	0.0000	23,261.5541

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	941.22	1,022.22	866.70	2,630,358	2,630,358
City Park	397.52	0.00	0.00	478,535	478,535
Elementary School	750.00	0.00	0.00	1,236,300	1,236,300
General Office Building	1,770.72	394.40	168.64	3,300,344	3,300,344
Medical Office Building	3,763.12	932.96	161.84	6,947,137	6,947,137
Regional Shopping Center	2,519.40	2,948.01	1489.02	7,591,045	7,591,045
Retirement Community	4,695.15	3,974.95	3822.60	11,855,083	11,855,083
Single Family Housing	8,314.80	8,659.20	7527.60	22,827,068	22,827,068
Total	23,151.93	17,931.74	14,036.40	56,865,869	56,865,869

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	7.67	7.67	7.67	35.00	17.00	48.00	100	0	0
City Park	4.63	4.63	4.63	33.00	48.00	19.00	100	0	0
Elementary School	6.34	6.34	6.34	65.00	30.00	5.00	100	0	0
General Office Building	6.74	6.74	6.74	33.00	48.00	19.00	100	0	0
Medical Office Building	6.71	6.71	6.71	29.60	51.40	19.00	100	0	0
Regional Shopping Center	8.57	8.57	8.57	16.30	64.70	19.00	100	0	0
Retirement Community	7.29	7.29	7.29	35.00	17.00	48.00	100	0	0
Single Family Housing	7.60	7.60	7.60	35.00	17.00	48.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.599536	0.025790	0.166870	0.083343	0.007688	0.003239	0.018574	0.087179	0.001372	0.000927	0.004134	0.000935	0.000413
City Park	0.599536	0.025790	0.166870	0.083343	0.007688	0.003239	0.018574	0.087179	0.001372	0.000927	0.004134	0.000935	0.000413
Elementary School	0.599536	0.025790	0.166870	0.083343	0.007688	0.003239	0.018574	0.087179	0.001372	0.000927	0.004134	0.000935	0.000413
General Office Building	0.599536	0.025790	0.166870	0.083343	0.007688	0.003239	0.018574	0.087179	0.001372	0.000927	0.004134	0.000935	0.000413
Medical Office Building	0.599536	0.025790	0.166870	0.083343	0.007688	0.003239	0.018574	0.087179	0.001372	0.000927	0.004134	0.000935	0.000413
Regional Shopping Center	0.599536	0.025790	0.166870	0.083343	0.007688	0.003239	0.018574	0.087179	0.001372	0.000927	0.004134	0.000935	0.000413
Retirement Community	0.599536	0.025790	0.166870	0.083343	0.007688	0.003239	0.018574	0.087179	0.001372	0.000927	0.004134	0.000935	0.000413
Single Family Housing	0.599536	0.025790	0.166870	0.083343	0.007688	0.003239	0.018574	0.087179	0.001372	0.000927	0.004134	0.000935	0.000413

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	2,536.7914	2,536.7914	0.2466	0.0510	2,558.1623
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,536.7914	2,536.7914	0.2466	0.0510	2,558.1623
NaturalGas Mitigated	0.3068	2.6411	1.2605	0.0167		0.2119	0.2119		0.2119	0.2119	0.0000	3,035.7817	3,035.7817	0.0582	0.0557	3,053.8218
NaturalGas Unmitigated	0.3068	2.6411	1.2605	0.0167		0.2119	0.2119		0.2119	0.2119	0.0000	3,035.7817	3,035.7817	0.0582	0.0557	3,053.8218

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	2.20576e+006	0.0119	0.1016	0.0433	6.5000e-004		8.2200e-003	8.2200e-003		8.2200e-003	8.2200e-003	0.0000	117.7077	117.7077	2.2600e-003	2.1600e-003	118.4071
City Park	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
Elementary School	1.04003e+006	5.6100e-003	0.0510	0.0428	3.1000e-004		3.8700e-003	3.8700e-003		3.8700e-003	3.8700e-003	0.0000	55.4998	55.4998	1.0600e-003	1.0200e-003	55.8296
General Office Building	3.51424e+006	0.0190	0.1723	0.1447	1.0300e-003		0.0131	0.0131		0.0131	0.0131	0.0000	187.5332	187.5332	3.5900e-003	3.4400e-003	188.6477
Medical Office Building	1.75712e+006	9.4700e-003	0.0861	0.0724	5.2000e-004		6.5500e-003	6.5500e-003		6.5500e-003	6.5500e-003	0.0000	93.7666	93.7666	1.8000e-003	1.7200e-003	94.3238
Regional Shopping Center	413790	2.2300e-003	0.0203	0.0170	1.2000e-004		1.5400e-003	1.5400e-003		1.5400e-003	1.5400e-003	0.0000	22.0814	22.0814	4.2000e-004	4.0000e-004	22.2126
Retirement Community	1.8281e+007	0.0986	0.8424	0.3585	5.3800e-003		0.0681	0.0681		0.0681	0.0681	0.0000	975.5417	975.5417	0.0187	0.0179	981.3389
Single Family Housing	2.96765e+007	0.1600	1.3675	0.5819	8.7300e-003		0.1106	0.1106		0.1106	0.1106	0.0000	1,583.6513	1,583.6513	0.0304	0.0290	1,593.0622
Total		0.3067	2.6411	1.2605	0.0167		0.2119	0.2119		0.2119	0.2119	0.0000	3,035.7817	3,035.7817	0.0582	0.0557	3,053.8218

Valley's Edge Specific Plan Project - Buildout - Butte County AQMD Air District, Annual

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	2.20576e+006	0.0119	0.1016	0.0433	6.5000e-004		8.2200e-003	8.2200e-003		8.2200e-003	8.2200e-003	0.0000	117.7077	117.7077	2.2600e-003	2.1600e-003	118.4071
City Park	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
Elementary School	1.04003e+006	5.6100e-003	0.0510	0.0428	3.1000e-004		3.8700e-003	3.8700e-003		3.8700e-003	3.8700e-003	0.0000	55.4998	55.4998	1.0600e-003	1.0200e-003	55.8296
General Office Building	3.51424e+006	0.0190	0.1723	0.1447	1.0300e-003		0.0131	0.0131		0.0131	0.0131	0.0000	187.5332	187.5332	3.5900e-003	3.4400e-003	188.6477
Medical Office Building	1.75712e+006	9.4700e-003	0.0861	0.0724	5.2000e-004		6.5500e-003	6.5500e-003		6.5500e-003	6.5500e-003	0.0000	93.7666	93.7666	1.8000e-003	1.7200e-003	94.3238
Regional Shopping Center	413790	2.2300e-003	0.0203	0.0170	1.2000e-004		1.5400e-003	1.5400e-003		1.5400e-003	1.5400e-003	0.0000	22.0814	22.0814	4.2000e-004	4.0000e-004	22.2126
Retirement Community	1.8281e+007	0.0986	0.8424	0.3585	5.3800e-003		0.0681	0.0681		0.0681	0.0681	0.0000	975.5417	975.5417	0.0187	0.0179	981.3389
Single Family Housing	2.96765e+007	0.1600	1.3675	0.5819	8.7300e-003		0.1106	0.1106		0.1106	0.1106	0.0000	1,583.6513	1,583.6513	0.0304	0.0290	1,593.0622
Total		0.3067	2.6411	1.2605	0.0167		0.2119	0.2119		0.2119	0.2119	0.0000	3,035.7817	3,035.7817	0.0582	0.0557	3,053.8218

5.3 Energy by Land Use - Electricity**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	604407	81.7803	7.9500e-003	1.6400e-003	82.4693
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	283833	38.4045	3.7300e-003	7.7000e-004	38.7281
General Office Building	2.40448e+006	325.3420	0.0316	6.5400e-003	328.0828
Medical Office Building	1.20224e+006	162.6710	0.0158	3.2700e-003	164.0414
Regional Shopping Center	308880	41.7935	4.0600e-003	8.4000e-004	42.1456
Retirement Community	5.36326e+006	725.6845	0.0706	0.0146	731.7980
Single Family Housing	8.58137e+006	1,161.1154	0.1129	0.0234	1,170.8971
Total		2,536.7914	0.2466	0.0510	2,558.1623

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	604407	81.7803	7.9500e-003	1.6400e-003	82.4693
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	283833	38.4045	3.7300e-003	7.7000e-004	38.7281
General Office Building	2.40448e+006	325.3420	0.0316	6.5400e-003	328.0828
Medical Office Building	1.20224e+006	162.6710	0.0158	3.2700e-003	164.0414
Regional Shopping Center	308880	41.7935	4.0600e-003	8.4000e-004	42.1456
Retirement Community	5.36326e+006	725.6845	0.0706	0.0146	731.7980
Single Family Housing	8.58137e+006	1,161.1154	0.1129	0.0234	1,170.8971
Total		2,536.7914	0.2466	0.0510	2,558.1623

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	36.2872	3.7028	22.0125	0.0232		0.3946	0.3946		0.3946	0.3946	0.0000	4,047.4007	4,047.4007	0.1090	0.0736	4,072.0547
Unmitigated	36.2872	3.7028	22.0125	0.0232		0.3946	0.3946		0.3946	0.3946	0.0000	4,047.4007	4,047.4007	0.1090	0.0736	4,072.0547

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	9.9435					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	25.3233					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.4056	3.4657	1.4748	0.0221		0.2802	0.2802		0.2802	0.2802	0.0000	4,013.7020	4,013.7020	0.0769	0.0736	4,037.5534
Landscaping	0.6148	0.2370	20.5377	1.0900e-003		0.1144	0.1144		0.1144	0.1144	0.0000	33.6987	33.6987	0.0321	0.0000	34.5013
Total	36.2872	3.7028	22.0125	0.0232		0.3946	0.3946		0.3946	0.3946	0.0000	4,047.4007	4,047.4007	0.1090	0.0736	4,072.0547

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	9.9435					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	25.3233					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.4056	3.4657	1.4748	0.0221		0.2802	0.2802		0.2802	0.2802	0.0000	4,013.7020	4,013.7020	0.0769	0.0736	4,037.5534
Landscaping	0.6148	0.2370	20.5377	1.0900e-003		0.1144	0.1144		0.1144	0.1144	0.0000	33.6987	33.6987	0.0321	0.0000	34.5013
Total	36.2872	3.7028	22.0125	0.0232		0.3946	0.3946		0.3946	0.3946	0.0000	4,047.4007	4,047.4007	0.1090	0.0736	4,072.0547

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	385.8976	0.3658	0.2192	460.3719
Unmitigated	482.3721	0.4572	0.2740	575.4649

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	14.6143 / 9.21336	20.2335	0.0193	0.0116	24.1562
City Park	0 / 13.1977	6.2501	6.1000e-004	1.3000e-004	6.3027
Elementary School	1.67829 / 4.31561	3.8663	2.3600e-003	1.3600e-003	4.3298
General Office Building	66.9361 / 41.0254	92.1175	0.0882	0.0529	110.0791
Medical Office Building	23.6286 / 4.50068	27.7907	0.0307	0.0186	34.0914
Regional Shopping Center	3.99985 / 2.45152	5.5046	5.2700e-003	3.1600e-003	6.5779
Retirement Community	124.943 / 78.7686	172.9843	0.1647	0.0987	206.5202
Single Family Housing	110.96 / 69.9533	153.6250	0.1462	0.0877	183.4078
Total		482.3721	0.4572	0.2740	575.4649

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	11.6914 / 7.37069	16.1868	0.0154	9.2400e-003	19.3249
City Park	0 / 10.5582	5.0001	4.9000e-004	1.0000e-004	5.0422
Elementary School	1.34263 / 3.45249	3.0930	1.8900e-003	1.0900e-003	3.4638
General Office Building	53.5489 / 32.8203	73.6940	0.0705	0.0423	88.0633
Medical Office Building	18.9028 / 3.60054	22.2326	0.0245	0.0149	27.2731
Regional Shopping Center	3.19988 / 1.96122	4.4037	4.2100e-003	2.5300e-003	5.2623
Retirement Community	99.9546 / 63.0149	138.3874	0.1317	0.0790	165.2161
Single Family Housing	88.7684 / 55.9627	122.9000	0.1170	0.0701	146.7262
Total		385.8976	0.3658	0.2192	460.3720

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	194.5034	11.4948	0.0000	481.8740
Unmitigated	778.0136	45.9793	0.0000	1,927.4958

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	74.52	15.1269	0.8940	0.0000	37.4762
City Park	0.69	0.1401	8.2800e-003	0.0000	0.3470
Elementary School	91.25	18.5229	1.0947	0.0000	45.8898
General Office Building	252.96	51.3486	3.0346	0.0000	127.2140
Medical Office Building	1468.8	298.1531	17.6203	0.0000	738.6618
Regional Shopping Center	40.95	8.3125	0.4913	0.0000	20.5938
Retirement Community	637.1	129.3255	7.6429	0.0000	320.3986
Single Family Housing	1266.48	257.0840	15.1932	0.0000	636.9147
Total		778.0136	45.9793	0.0000	1,927.4958

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	18.63	3.7817	0.2235	0.0000	9.3691
City Park	0.1725	0.0350	2.0700e-003	0.0000	0.0868
Elementary School	22.8125	4.6307	0.2737	0.0000	11.4724
General Office Building	63.24	12.8372	0.7587	0.0000	31.8035
Medical Office Building	367.2	74.5383	4.4051	0.0000	184.6654
Regional Shopping Center	10.2375	2.0781	0.1228	0.0000	5.1485
Retirement Community	159.275	32.3314	1.9107	0.0000	80.0996
Single Family Housing	316.62	64.2710	3.7983	0.0000	159.2287
Total		194.5034	11.4948	0.0000	481.8740

Energy Calculations

VESP - Construction Energy Use

Phase 1

	CO2 MT/yr			
	Equipment	Hauling	Vendor	Worker
Site Preparation	5.73	0.00	0.00	0.23
Trenching	235.52	0.00	0.00	13.80
Grading	357.57	0.00	0.00	8.14
Building Construction	311.82	0.00	1,780.10	1,362.11
Paving	93.63	0.00	0.00	5.63
Architectural Coating	6.81	0.00	0.00	15.81

Diesel	Gasoline	Construction	Worker	Vendor	Haul
kg CO2/Gallons	kg CO2/Gallons	Equipment Gallons	Vehicle Gallons	Vehicle Gallons	Vehicle Gallons
10.21	8.78	561.37	26.72	0.00	0.00
10.21	8.78	23,068.02	1,571.53	0.00	0.00
10.21	8.78	35,021.76	926.73	0.00	0.00
10.21	8.78	30,540.35	155,137.60	174,349.12	0.00
10.21	8.78	9,170.46	641.12	0.00	0.00
10.21	8.78	666.87	1,801.24	0.00	0.00

Phase 2

	CO2 MT/yr			
	Equipment	Hauling	Vendor	Worker
Site Preparation	42.04	0.00	0.00	1.71
Trenching	436.74	0.00	0.00	17.29
Grading	713.25	0.00	0.00	12.73
Building Construction	500.78	0.00	3,986.20	2,657.47
Paving	206.87	0.00	0.00	8.50
Architectural Coating	37.62	0.00	0.00	123.86

Diesel	Gasoline	Construction	Worker	Vendor	Haul
kg CO2/Gallons	kg CO2/Gallons	Equipment Gallons	Vehicle Gallons	Vehicle Gallons	Vehicle Gallons
10.21	8.78	4,117.95	194.40	0.00	0.00
10.21	8.78	42,775.65	1,969.00	0.00	0.00
10.21	8.78	69,858.38	1,449.83	0.00	0.00
10.21	8.78	49,047.86	302,673.41	390,421.52	0.00
10.21	8.78	20,261.33	968.17	0.00	0.00
10.21	8.78	3,684.42	14,107.59	0.00	0.00

Phase 3

	CO2 MT/yr			
	Equipment	Hauling	Vendor	Worker
Site Preparation	34.31	0.00	0.00	0.99
Trenching	361.59	0.00	0.00	10.38
Grading	594.16	0.00	0.00	7.56
Building Construction	478.63	0.00	2,872.08	1,683.43
Paving	143.22	0.00	0.00	5.68
Architectural Coating	26.04	0.00	0.00	61.69

Diesel	Gasoline	Construction	Worker	Vendor	Haul
kg CO2/Gallons	kg CO2/Gallons	Equipment Gallons	Vehicle Gallons	Vehicle Gallons	Vehicle Gallons
10.21	8.78	3,360.50	112.59	0.00	0.00
10.21	8.78	35,414.80	1,182.27	0.00	0.00
10.21	8.78	58,193.85	861.29	0.00	0.00
10.21	8.78	46,878.28	191,734.40	281,300.86	0.00
10.21	8.78	14,027.08	647.12	0.00	0.00
10.21	8.78	2,550.75	7,025.88	0.00	0.00

Phase 4

	CO2 MT/yr			
	Equipment	Hauling	Vendor	Worker
Site Preparation	11.44	0.00	0.00	0.16
Trenching	124.95	0.00	0.00	3.50
Grading	205.25	0.00	0.00	2.53
Building Construction	165.61	0.00	308.48	169.73
Paving	49.61	0.00	0.00	1.87
Architectural Coating	9.02	0.00	0.00	6.15

Diesel	Gasoline	Construction	Worker	Vendor	Haul
kg CO2/Gallons	kg CO2/Gallons	Equipment Gallons	Vehicle Gallons	Vehicle Gallons	Vehicle Gallons
10.21	8.78	1,120.17	18.13	0.00	0.00
10.21	8.78	12,237.57	398.78	0.00	0.00
10.21	8.78	20,103.18	288.21	0.00	0.00
10.21	8.78	16,220.66	19,331.75	30,213.56	0.00
10.21	8.78	4,859.05	213.01	0.00	0.00
10.21	8.78	883.59	699.89	0.00	0.00

Phase 5

	CO2 MT/yr			
	Equipment	Hauling	Vendor	Worker
Site Preparation	2.29	0.00	0.00	0.03
Trenching	21.77	0.00	0.00	0.58
Grading	34.85	0.00	0.00	0.41
Building Construction	28.46	0.00	90.72	34.78
Paving	8.42	0.00	0.00	0.29
Architectural Coating	4.26	0.00	0.00	3.53

Diesel	Gasoline	Construction	Worker	Vendor	Haul
kg CO2/Gallons	kg CO2/Gallons	Equipment Gallons	Vehicle Gallons	Vehicle Gallons	Vehicle Gallons
10.21	8.78	224.04	3.45	0.00	0.00
10.21	8.78	2,132.30	66.03	0.00	0.00
10.21	8.78	3,413.74	46.50	0.00	0.00
10.21	8.78	2,787.05	3,961.66	8,885.60	0.00
10.21	8.78	825.12	33.59	0.00	0.00
10.21	8.78	416.79	401.91	0.00	0.00

Phase 6

	CO2 MT/yr			
	Equipment	Hauling	Vendor	Worker

Diesel	Gasoline	Construction	Worker	Vendor	Haul
kg CO2/Gallons	kg CO2/Gallons	Equipment Gallons	Vehicle Gallons	Vehicle Gallons	Vehicle Gallons

	CO2 MT/yr				Diesel kg CO2/Gallons	Gasoline kg CO2/Gallons	Construciton Equipment Gallons	Woker Vehicle Gallons	Vendor Vehicle Gallons	Haul Vehicle Gallons	
	Equipment	Hauling	Vendor	Worker							
Site Preparation	2.29	0.00	0.00	0.03	10.21	8.78	224.04	3.45	0.00	0.00	
Trenching	9.47	0.00	0.00	0.25	10.21	8.78	927.09	28.71	0.00	0.00	
Grading	38.73	0.00	0.00	0.45	10.21	8.78	3,793.05	51.67	0.00	0.00	
Building Construction	28.46	0.00	22.25	8.82	10.21	8.78	2,787.05	1,004.77	2,179.49	0.00	
Paving	8.42	0.00	0.00	0.32	10.21	8.78	825.12	36.17	0.00	0.00	
Architectural Coating	1.53	0.00	0.00	0.36	10.21	8.78	150.05	41.34	0.00	0.00	
Total	5,341.15	0.00	9,059.85	6,230.81			523,129.34	709,659.89	887,350.15	0.00	2,120,139.38

California's Consumption of Petroleum Over Construction Period

Phase 1	145,174,200,000.00
Phase 2	188,954,400,000.00
Phase 3	171,505,200,000.00
Phase 4	50,539,800,000.00
Phase 5	40,636,200,000.00
Phase 6	8,724,600,000.00
Total	605,534,400,000.00

VESP - Operational Energy Use

Land Use	kBTU/yr	Therms
Apartments Low Rise	2,205,760	22,058
City Park	0	0
Elementary School	1,040,003	10,400
General Office Building	3,514,240	35,142
Medical Office Building	1,757,120	17,571
Regional Shopping Center	413,790	4,138
Retirement Community	1,828,100	18,281
Single Family Housing	2,967,650	29,677
Total	13,726,663	137,267

VESP - Operational Energy Use

Total Electricity	kWh/yr
Apartments Low Rise	604,407.00
City Park	0.00
Elementary School	283,833.00
General Office Building	2,404,480.00
Medical Office Building	1,202,240.00
Regional Shopping Center	308,880.00
Retirement Community	5,363,260.00
Single Family Housing	8,581,370.00
Building Total	18,748,470.00
Water/Wastewater	
Total	20,875,121.63

Electricity Intensity Factors - Water/Wastewater

Process	Units	
Supply	kwh/MG	2117
Treat	kwh/MG	111
Distribute	kwh/MG	1272
Wastewater Treatment	kwh/MG	1911
Total	kwh/MG	5,411

* Electricity intensity factors from CalEEMod Appendix D for BCAQMD

Electricity Demand - Water/Wastewater

	Units	Potable Water - Indoor	Potable Water - Outdoor	Total
Electricity Intensity Factor				
Supply	kwh/MG	2,117	2,117	N/A
Treat	kwh/MG	111	111	N/A
Distribute	kwh/MG	1,272	1,272	N/A
Wastewater Treatment	kwh/MG	1,911	-	N/A
Total	kwh/MG	5,411	3,500	N/A
Water Consumption - Project	MG/yr	277	179	456
Electricity Usage - Project	kwh/yr	1,501,058	625,594	2,126,651.63

Project - Land Uses	Mgal - Indoor	Mgal - Outdoor
Apartments Low Rise	11.6914	7.37069
City Park	0	10.5582
Elementary School	1.34263	3.45249
General Office Building	53.5489	32.8203
Medical Office Building	18.9028	3.60054
Regional Shopping Center	3.19988	1.96122
Retirement Community	99.9546	63.0149
Single Family Housing	88.7684	55.9627
	277.40861	178.74104

VESP - Operational Energy Use

	Annual VMT	Annual CO2 MT	% GAS	% DSL	MT CO2 GAS	MT CO2 DSL	Diesel kg CO2/Gallons	Gasoline kg CO2/Gallons	Diesel Gallons/yr	Gasoline Gallons/yr	Petro Gallons/yr
Project	56,865,869.00	23,228.74	88.9599812	11.0400188	20,664.28	2,564.46	10.21	8.78	251,171.10	2,353,562.66	2,604,733.76