

Appendix B

AQ-GHG Energy Modeling Data

Covina Hassen Site A - Los Angeles-South Coast County, Annual

Covina Hassen Site A
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	409.00	Space	1.27	163,600.00	0
Other Asphalt Surfaces	38.00	1000sqft	0.30	38,000.00	0
Parking Lot	36.00	Space	0.11	14,400.00	0
High Turnover (Sit Down Restaurant)	3.80	1000sqft	0.03	3,800.00	0
Condo/Townhouse	161.00	Dwelling Unit	3.48	161,000.00	460
Regional Shopping Center	13.50	1000sqft	0.11	13,500.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	636.97	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity factor conservatively adjusted for 2016 SCE Power Content Label assuming 28% renewables (636.97 lb/MWh).

Land Use - CalEEMod default lot acreage scaled to match total site acreage of 5.3 acres

Construction Phase - Per applicant-provided schedule assumptions

Off-road Equipment - Per applicant-provided equipment schedule

Off-road Equipment - Per applicant-provided equipment schedule

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Off-road Equipment - Per applicant-provided equipment schedule

Off-road Equipment -

Off-road Equipment - Per applicant-provided equipment schedule

Off-road Equipment - Per applicant-provided equipment schedule

Off-road Equipment - Per applicant-provided equipment schedule

Trips and VMT - Per applicant-provided information

Demolition - Per applicant-provided information and based on existing build structures

Grading - Per applicant-provided material export information

Architectural Coating -

Vehicle Trips -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves - No woodstoves. No fireplaces.

Consumer Products -

Area Coating -

Landscape Equipment -

Energy Use -

Water And Wastewater - Assumed 100% Aerobic.

Solid Waste -

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -

Waste Mitigation -

Fleet Mix -

Stationary Sources - Emergency Generators and Fire Pumps - Per applicant-provided information

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Stationary Sources - Emergency Generators and Fire Pumps EF -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	10.00	44.00
tblConstructionPhase	NumDays	230.00	109.00
tblConstructionPhase	NumDays	230.00	327.00
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	20.00	174.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	136.85	0.00
tblFireplaces	NumberNoFireplace	16.10	0.00
tblFireplaces	NumberWood	8.05	0.00
tblGrading	AcresOfGrading	22.00	5.30
tblGrading	MaterialExported	0.00	9,850.00
tblLandUse	LotAcreage	3.68	1.27
tblLandUse	LotAcreage	0.87	0.30
tblLandUse	LotAcreage	0.32	0.11
tblLandUse	LotAcreage	0.09	0.03
tblLandUse	LotAcreage	10.06	3.48
tblLandUse	LotAcreage	0.31	0.11
tblOffRoadEquipment	HorsePower	97.00	158.00
tblOffRoadEquipment	HorsePower	78.00	231.00
tblOffRoadEquipment	LoadFactor	0.37	0.38

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tblOffRoadEquipment	LoadFactor	0.50	0.29
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Site Preparation and Grading
tblOffRoadEquipment	PhaseName		Site Preparation and Grading
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	636.97
tblTripsAndVMT	HaulingTripNumber	1,231.00	616.00
tblTripsAndVMT	VendorTripNumber	55.00	0.00
tblTripsAndVMT	VendorTripNumber	55.00	20.00
tblTripsAndVMT	VendorTripNumber	0.00	12.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00

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tblTripsAndVMT	WorkerTripNumber	8.00	20.00
tblTripsAndVMT	WorkerTripNumber	20.00	24.00
tblTripsAndVMT	WorkerTripNumber	213.00	12.00
tblTripsAndVMT	WorkerTripNumber	213.00	50.00
tblTripsAndVMT	WorkerTripNumber	10.00	16.00
tblTripsAndVMT	WorkerTripNumber	43.00	16.00
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	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
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	8.05	0.00
tblWoodstoves	NumberNoncatalytic	8.05	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00

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tblWoodstoves	WoodstoveWoodMass	999.60	0.00
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2.0 Emissions Summary

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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					
2019	0.1267	1.4166	0.7570	1.7200e-003	0.3170	0.0628	0.3798	0.1532	0.0578	0.2110	0.0000	157.3568	157.3568	0.0380	0.0000	158.3064
2020	1.0953	6.0995	5.1907	0.0101	0.1256	0.3077	0.4332	0.0349	0.2944	0.3293	0.0000	879.8723	879.8723	0.1556	0.0000	883.7614
2021	0.3761	1.1980	1.1734	2.3100e-003	0.0284	0.0579	0.0864	7.6600e-003	0.0561	0.0637	0.0000	199.6348	199.6348	0.0285	0.0000	200.3463
Maximum	1.0953	6.0995	5.1907	0.0101	0.3170	0.3077	0.4332	0.1532	0.2944	0.3293	0.0000	879.8723	879.8723	0.1556	0.0000	883.7614

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					
2019	0.1267	1.4165	0.7570	1.7200e-003	0.1350	0.0628	0.1978	0.0628	0.0578	0.1206	0.0000	157.3567	157.3567	0.0380	0.0000	158.3063
2020	1.0953	6.0995	5.1907	0.0101	0.1198	0.3077	0.4275	0.0327	0.2944	0.3270	0.0000	879.8715	879.8715	0.1556	0.0000	883.7606
2021	0.3761	1.1980	1.1734	2.3100e-003	0.0284	0.0579	0.0864	7.6600e-003	0.0561	0.0637	0.0000	199.6346	199.6346	0.0285	0.0000	200.3462
Maximum	1.0953	6.0995	5.1907	0.0101	0.1350	0.3077	0.4275	0.0628	0.2944	0.3270	0.0000	879.8715	879.8715	0.1556	0.0000	883.7606

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	39.87	0.00	20.87	47.32	0.00	15.34	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	8-1-2019	10-31-2019	0.4926	0.4926
2	11-1-2019	1-31-2020	1.7267	1.7267
3	2-1-2020	4-30-2020	1.8756	1.8756
4	5-1-2020	7-31-2020	1.7619	1.7619
5	8-1-2020	10-31-2020	1.7136	1.7136
6	11-1-2020	1-31-2021	1.6795	1.6795
7	2-1-2021	4-30-2021	1.0375	1.0375
		Highest	1.8756	1.8756

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2.2 Overall Operational
Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.7707	0.0193	1.6704	9.0000e-005		9.2000e-003	9.2000e-003		9.2000e-003	9.2000e-003	0.0000	2.7246	2.7246	2.6600e-003	0.0000	2.7911
Energy	0.0198	0.1715	0.0912	1.0800e-003		0.0137	0.0137		0.0137	0.0137	0.0000	809.5571	809.5571	0.0317	9.3700e-003	813.1416
Mobile	0.5802	2.8735	7.2236	0.0240	1.8971	0.0207	1.9179	0.5086	0.0194	0.5279	0.0000	2,215.8299	2,215.8299	0.1223	0.0000	2,218.8876
Stationary	0.1106	8.5200e-003	0.2882	4.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	6.4125	6.4125	0.0134	0.0000	6.7477
Waste						0.0000	0.0000		0.0000	0.0000	27.0912	0.0000	27.0912	1.6010	0.0000	67.1172
Water						0.0000	0.0000		0.0000	0.0000	4.4732	70.9964	75.4696	0.0186	0.0104	79.0334
Total	1.4813	3.0728	9.2733	0.0252	1.8971	0.0442	1.9413	0.5086	0.0428	0.5514	31.5644	3,105.5204	3,137.0848	1.7898	0.0198	3,187.7187

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.7707	0.0193	1.6704	9.0000e-005		9.2000e-003	9.2000e-003		9.2000e-003	9.2000e-003	0.0000	2.7246	2.7246	2.6600e-003	0.0000	2.7911
Energy	0.0198	0.1715	0.0912	1.0800e-003		0.0137	0.0137		0.0137	0.0137	0.0000	688.2088	688.2088	0.0262	8.2300e-003	691.3145
Mobile	0.5550	2.7004	6.6048	0.0216	1.6903	0.0187	1.7091	0.4531	0.0175	0.4706	0.0000	1,990.9596	1,990.9596	0.1116	0.0000	1,993.7488
Stationary	0.1106	8.5200e-003	0.2882	4.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	6.4125	6.4125	0.0134	0.0000	6.7477
Waste						0.0000	0.0000		0.0000	0.0000	13.5456	0.0000	13.5456	0.8005	0.0000	33.5586
Water						0.0000	0.0000		0.0000	0.0000	4.4732	70.9964	75.4696	0.0186	0.0104	79.0334
Total	1.4560	2.8997	8.6546	0.0228	1.6903	0.0422	1.7325	0.4531	0.0409	0.4940	18.0188	2,759.3018	2,777.3206	0.9730	0.0186	2,807.1941

	ROG	NOx	CO	SO2	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	1.70	5.63	6.67	9.67	10.90	4.57	10.76	10.90	4.39	10.40	42.91	11.15	11.47	45.64	5.77	11.94

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/1/2019	10/1/2019	5	44	
2	Site Preparation and Grading	Site Preparation	11/1/2019	1/1/2020	5	44	
3	Trenching	Building Construction	1/1/2020	6/1/2020	5	109	
4	Building Construction	Building Construction	1/1/2020	4/1/2021	5	327	
5	Paving	Paving	6/1/2020	7/31/2020	5	45	
6	Architectural Coating	Architectural Coating	8/3/2020	4/1/2021	5	174	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 1.68

Residential Indoor: 326,025; Residential Outdoor: 108,675; Non-Residential Indoor: 25,950; Non-Residential Outdoor: 8,650; Striped Parking Area: 12,960 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	8.00	158	0.38
Site Preparation and Grading	Excavators	1	8.00	158	0.38
Site Preparation and Grading	Graders	1	8.00	187	0.41
Site Preparation and Grading	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation and Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Trenching	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Trenching	Trenchers	2	8.00	231	0.29
Building Construction	Air Compressors	2	8.00	78	0.48
Building Construction	Cranes	2	8.00	231	0.29
Building Construction	Forklifts	1	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Surfacing Equipment	1	8.00	263	0.30
Architectural Coating	Aerial Lifts	1	8.00	63	0.31
Architectural Coating	Air Compressors	2	8.00	78	0.48

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	3	20.00	0.00	334.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation and Grading	8	24.00	0.00	616.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	5	12.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	12	50.00	20.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	4	16.00	12.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	3	16.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2019

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					0.0361	0.0000	0.0361	5.4700e-003	0.0000	5.4700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0376	0.3954	0.2397	4.1000e-004		0.0195	0.0195		0.0179	0.0179	0.0000	37.0737	37.0737	0.0117	0.0000	37.3670
Total	0.0376	0.3954	0.2397	4.1000e-004	0.0361	0.0195	0.0556	5.4700e-003	0.0179	0.0234	0.0000	37.0737	37.0737	0.0117	0.0000	37.3670

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3.2 Demolition - 2019

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	1.5900e-003	0.0529	0.0112	1.3000e-004	2.8700e-003	1.9000e-004	3.0600e-003	7.9000e-004	1.8000e-004	9.7000e-004	0.0000	13.0041	13.0041	9.2000e-004	0.0000	13.0270
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	2.2000e-003	1.8400e-003	0.0200	5.0000e-005	4.8200e-003	4.0000e-005	4.8600e-003	1.2800e-003	4.0000e-005	1.3200e-003	0.0000	4.6348	4.6348	1.6000e-004	0.0000	4.6388
Total	3.7900e-003	0.0547	0.0312	1.8000e-004	7.6900e-003	2.3000e-004	7.9200e-003	2.0700e-003	2.2000e-004	2.2900e-003	0.0000	17.6388	17.6388	1.0800e-003	0.0000	17.6657

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					0.0141	0.0000	0.0141	2.1300e-003	0.0000	2.1300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0376	0.3954	0.2397	4.1000e-004		0.0195	0.0195		0.0179	0.0179	0.0000	37.0737	37.0737	0.0117	0.0000	37.3669
Total	0.0376	0.3954	0.2397	4.1000e-004	0.0141	0.0195	0.0336	2.1300e-003	0.0179	0.0201	0.0000	37.0737	37.0737	0.0117	0.0000	37.3669

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3.2 Demolition - 2019

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	1.5900e-003	0.0529	0.0112	1.3000e-004	2.8700e-003	1.9000e-004	3.0600e-003	7.9000e-004	1.8000e-004	9.7000e-004	0.0000	13.0041	13.0041	9.2000e-004	0.0000	13.0270
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	2.2000e-003	1.8400e-003	0.0200	5.0000e-005	4.8200e-003	4.0000e-005	4.8600e-003	1.2800e-003	4.0000e-005	1.3200e-003	0.0000	4.6348	4.6348	1.6000e-004	0.0000	4.6388
Total	3.7900e-003	0.0547	0.0312	1.8000e-004	7.6900e-003	2.3000e-004	7.9200e-003	2.0700e-003	2.2000e-004	2.2900e-003	0.0000	17.6388	17.6388	1.0800e-003	0.0000	17.6657

3.3 Site Preparation and Grading - 2019

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					0.2623	0.0000	0.2623	0.1427	0.0000	0.1427	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0799	0.8691	0.4424	8.2000e-004		0.0427	0.0427		0.0393	0.0393	0.0000	73.7705	73.7705	0.0233	0.0000	74.3540
Total	0.0799	0.8691	0.4424	8.2000e-004	0.2623	0.0427	0.3050	0.1427	0.0393	0.1820	0.0000	73.7705	73.7705	0.0233	0.0000	74.3540

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3.3 Site Preparation and Grading - 2019

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	2.8600e-003	0.0953	0.0202	2.4000e-004	5.2600e-003	3.4000e-004	5.6000e-003	1.4400e-003	3.3000e-004	1.7700e-003	0.0000	23.4384	23.4384	1.6500e-003	0.0000	23.4798
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	2.5800e-003	2.1500e-003	0.0234	6.0000e-005	5.6500e-003	5.0000e-005	5.7000e-003	1.5000e-003	5.0000e-005	1.5500e-003	0.0000	5.4353	5.4353	1.9000e-004	0.0000	5.4400
Total	5.4400e-003	0.0974	0.0437	3.0000e-004	0.0109	3.9000e-004	0.0113	2.9400e-003	3.8000e-004	3.3200e-003	0.0000	28.8738	28.8738	1.8400e-003	0.0000	28.9198

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					0.1023	0.0000	0.1023	0.0557	0.0000	0.0557	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0799	0.8691	0.4424	8.2000e-004		0.0427	0.0427		0.0393	0.0393	0.0000	73.7704	73.7704	0.0233	0.0000	74.3539
Total	0.0799	0.8691	0.4424	8.2000e-004	0.1023	0.0427	0.1450	0.0557	0.0393	0.0949	0.0000	73.7704	73.7704	0.0233	0.0000	74.3539

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3.3 Site Preparation and Grading - 2019

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	2.8600e-003	0.0953	0.0202	2.4000e-004	5.2600e-003	3.4000e-004	5.6000e-003	1.4400e-003	3.3000e-004	1.7700e-003	0.0000	23.4384	23.4384	1.6500e-003	0.0000	23.4798
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	2.5800e-003	2.1500e-003	0.0234	6.0000e-005	5.6500e-003	5.0000e-005	5.7000e-003	1.5000e-003	5.0000e-005	1.5500e-003	0.0000	5.4353	5.4353	1.9000e-004	0.0000	5.4400
Total	5.4400e-003	0.0974	0.0437	3.0000e-004	0.0109	3.9000e-004	0.0113	2.9400e-003	3.8000e-004	3.3200e-003	0.0000	28.8738	28.8738	1.8400e-003	0.0000	28.9198

3.3 Site Preparation and Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.3900e-003	0.0000	9.3900e-003	3.7000e-003	0.0000	3.7000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7500e-003	0.0189	0.0101	2.0000e-005		9.1000e-004	9.1000e-004		8.4000e-004	8.4000e-004	0.0000	1.6782	1.6782	5.4000e-004	0.0000	1.6918
Total	1.7500e-003	0.0189	0.0101	2.0000e-005	9.3900e-003	9.1000e-004	0.0103	3.7000e-003	8.4000e-004	4.5400e-003	0.0000	1.6782	1.6782	5.4000e-004	0.0000	1.6918

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3.3 Site Preparation and Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.0000e-005	2.0800e-003	4.6000e-004	1.0000e-005	4.0100e-003	1.0000e-005	4.0200e-003	9.9000e-004	1.0000e-005	9.9000e-004	0.0000	0.5396	0.5396	4.0000e-005	0.0000	0.5405
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	4.9000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.1226	0.1226	0.0000	0.0000	0.1227
Total	1.2000e-004	2.1200e-003	9.5000e-004	1.0000e-005	4.1400e-003	1.0000e-005	4.1500e-003	1.0200e-003	1.0000e-005	1.0300e-003	0.0000	0.6621	0.6621	4.0000e-005	0.0000	0.6632

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					3.6600e-003	0.0000	3.6600e-003	1.4400e-003	0.0000	1.4400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7500e-003	0.0189	0.0101	2.0000e-005		9.1000e-004	9.1000e-004		8.4000e-004	8.4000e-004	0.0000	1.6782	1.6782	5.4000e-004	0.0000	1.6918
Total	1.7500e-003	0.0189	0.0101	2.0000e-005	3.6600e-003	9.1000e-004	4.5700e-003	1.4400e-003	8.4000e-004	2.2800e-003	0.0000	1.6782	1.6782	5.4000e-004	0.0000	1.6918

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3.3 Site Preparation and Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.0000e-005	2.0800e-003	4.6000e-004	1.0000e-005	4.0100e-003	1.0000e-005	4.0200e-003	9.9000e-004	1.0000e-005	9.9000e-004	0.0000	0.5396	0.5396	4.0000e-005	0.0000	0.5405
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	4.9000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.1226	0.1226	0.0000	0.0000	0.1227
Total	1.2000e-004	2.1200e-003	9.5000e-004	1.0000e-005	4.1400e-003	1.0000e-005	4.1500e-003	1.0200e-003	1.0000e-005	1.0300e-003	0.0000	0.6621	0.6621	4.0000e-005	0.0000	0.6632

3.4 Trenching - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0847	0.9635	0.6012	1.1400e-003		0.0469	0.0469		0.0431	0.0431	0.0000	99.9418	99.9418	0.0323	0.0000	100.7499
Total	0.0847	0.9635	0.6012	1.1400e-003		0.0469	0.0469		0.0431	0.0431	0.0000	99.9418	99.9418	0.0323	0.0000	100.7499

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3.4 Trenching - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0200e-003	2.4300e-003	0.0269	7.0000e-005	7.1700e-003	6.0000e-005	7.2300e-003	1.9000e-003	6.0000e-005	1.9600e-003	0.0000	6.6796	6.6796	2.1000e-004	0.0000	6.6849
Total	3.0200e-003	2.4300e-003	0.0269	7.0000e-005	7.1700e-003	6.0000e-005	7.2300e-003	1.9000e-003	6.0000e-005	1.9600e-003	0.0000	6.6796	6.6796	2.1000e-004	0.0000	6.6849

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	0.0847	0.9635	0.6012	1.1400e-003		0.0469	0.0469		0.0431	0.0431	0.0000	99.9417	99.9417	0.0323	0.0000	100.7497
Total	0.0847	0.9635	0.6012	1.1400e-003		0.0469	0.0469		0.0431	0.0431	0.0000	99.9417	99.9417	0.0323	0.0000	100.7497

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3.4 Trenching - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0200e-003	2.4300e-003	0.0269	7.0000e-005	7.1700e-003	6.0000e-005	7.2300e-003	1.9000e-003	6.0000e-005	1.9600e-003	0.0000	6.6796	6.6796	2.1000e-004	0.0000	6.6849
Total	3.0200e-003	2.4300e-003	0.0269	7.0000e-005	7.1700e-003	6.0000e-005	7.2300e-003	1.9000e-003	6.0000e-005	1.9600e-003	0.0000	6.6796	6.6796	2.1000e-004	0.0000	6.6849

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.5161	4.2513	3.6112	6.2900e-003		0.2301	0.2301		0.2216	0.2216	0.0000	533.1427	533.1427	0.0979	0.0000	535.5913
Total	0.5161	4.2513	3.6112	6.2900e-003		0.2301	0.2301		0.2216	0.2216	0.0000	533.1427	533.1427	0.0979	0.0000	535.5913

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3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.5000e-003	0.2839	0.0769	6.7000e-004	0.0165	1.3200e-003	0.0178	4.7600e-003	1.2600e-003	6.0300e-003	0.0000	65.0877	65.0877	4.1400e-003	0.0000	65.1911
Worker	0.0302	0.0244	0.2696	7.4000e-004	0.0718	6.1000e-004	0.0724	0.0191	5.6000e-004	0.0196	0.0000	66.8985	66.8985	2.1100e-003	0.0000	66.9512
Total	0.0397	0.3083	0.3465	1.4100e-003	0.0883	1.9300e-003	0.0902	0.0238	1.8200e-003	0.0257	0.0000	131.9861	131.9861	6.2500e-003	0.0000	132.1422

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	0.5161	4.2512	3.6112	6.2900e-003		0.2301	0.2301		0.2216	0.2216	0.0000	533.1421	533.1421	0.0979	0.0000	535.5907
Total	0.5161	4.2512	3.6112	6.2900e-003		0.2301	0.2301		0.2216	0.2216	0.0000	533.1421	533.1421	0.0979	0.0000	535.5907

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3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.5000e-003	0.2839	0.0769	6.7000e-004	0.0165	1.3200e-003	0.0178	4.7600e-003	1.2600e-003	6.0300e-003	0.0000	65.0877	65.0877	4.1400e-003	0.0000	65.1911
Worker	0.0302	0.0244	0.2696	7.4000e-004	0.0718	6.1000e-004	0.0724	0.0191	5.6000e-004	0.0196	0.0000	66.8985	66.8985	2.1100e-003	0.0000	66.9512
Total	0.0397	0.3083	0.3465	1.4100e-003	0.0883	1.9300e-003	0.0902	0.0238	1.8200e-003	0.0257	0.0000	131.9861	131.9861	6.2500e-003	0.0000	132.1422

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1149	0.9620	0.8784	1.5600e-003		0.0491	0.0491		0.0472	0.0472	0.0000	132.2730	132.2730	0.0236	0.0000	132.8627
Total	0.1149	0.9620	0.8784	1.5600e-003		0.0491	0.0491		0.0472	0.0472	0.0000	132.2730	132.2730	0.0236	0.0000	132.8627

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3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0200e-003	0.0642	0.0174	1.7000e-004	4.0900e-003	1.3000e-004	4.2300e-003	1.1800e-003	1.3000e-004	1.3100e-003	0.0000	16.0223	16.0223	9.8000e-004	0.0000	16.0469
Worker	6.9900e-003	5.4400e-003	0.0615	1.8000e-004	0.0178	1.5000e-004	0.0180	4.7300e-003	1.4000e-004	4.8600e-003	0.0000	16.0699	16.0699	4.7000e-004	0.0000	16.0817
Total	9.0100e-003	0.0696	0.0788	3.5000e-004	0.0219	2.8000e-004	0.0222	5.9100e-003	2.7000e-004	6.1700e-003	0.0000	32.0922	32.0922	1.4500e-003	0.0000	32.1286

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	0.1149	0.9620	0.8784	1.5600e-003		0.0491	0.0491		0.0472	0.0472	0.0000	132.2728	132.2728	0.0236	0.0000	132.8626
Total	0.1149	0.9620	0.8784	1.5600e-003		0.0491	0.0491		0.0472	0.0472	0.0000	132.2728	132.2728	0.0236	0.0000	132.8626

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3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0200e-003	0.0642	0.0174	1.7000e-004	4.0900e-003	1.3000e-004	4.2300e-003	1.1800e-003	1.3000e-004	1.3100e-003	0.0000	16.0223	16.0223	9.8000e-004	0.0000	16.0469
Worker	6.9900e-003	5.4400e-003	0.0615	1.8000e-004	0.0178	1.5000e-004	0.0180	4.7300e-003	1.4000e-004	4.8600e-003	0.0000	16.0699	16.0699	4.7000e-004	0.0000	16.0817
Total	9.0100e-003	0.0696	0.0788	3.5000e-004	0.0219	2.8000e-004	0.0222	5.9100e-003	2.7000e-004	6.1700e-003	0.0000	32.0922	32.0922	1.4500e-003	0.0000	32.1286

3.6 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0198	0.2158	0.2030	4.1000e-004		0.0106	0.0106		9.7200e-003	9.7200e-003	0.0000	35.9280	35.9280	0.0116	0.0000	36.2185
Paving	5.4000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0204	0.2158	0.2030	4.1000e-004		0.0106	0.0106		9.7200e-003	9.7200e-003	0.0000	35.9280	35.9280	0.0116	0.0000	36.2185

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3.6 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.8000e-004	0.0293	7.9200e-003	7.0000e-005	1.7000e-003	1.4000e-004	1.8400e-003	4.9000e-004	1.3000e-004	6.2000e-004	0.0000	6.7075	6.7075	4.3000e-004	0.0000	6.7182
Worker	1.6600e-003	1.3400e-003	0.0148	4.0000e-005	3.9400e-003	3.0000e-005	3.9800e-003	1.0500e-003	3.0000e-005	1.0800e-003	0.0000	3.6769	3.6769	1.2000e-004	0.0000	3.6798
Total	2.6400e-003	0.0306	0.0227	1.1000e-004	5.6400e-003	1.7000e-004	5.8200e-003	1.5400e-003	1.6000e-004	1.7000e-003	0.0000	10.3844	10.3844	5.5000e-004	0.0000	10.3979

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	0.0198	0.2158	0.2030	4.1000e-004		0.0106	0.0106		9.7200e-003	9.7200e-003	0.0000	35.9280	35.9280	0.0116	0.0000	36.2185
Paving	5.4000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0204	0.2158	0.2030	4.1000e-004		0.0106	0.0106		9.7200e-003	9.7200e-003	0.0000	35.9280	35.9280	0.0116	0.0000	36.2185

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3.6 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.8000e-004	0.0293	7.9200e-003	7.0000e-005	1.7000e-003	1.4000e-004	1.8400e-003	4.9000e-004	1.3000e-004	6.2000e-004	0.0000	6.7075	6.7075	4.3000e-004	0.0000	6.7182
Worker	1.6600e-003	1.3400e-003	0.0148	4.0000e-005	3.9400e-003	3.0000e-005	3.9800e-003	1.0500e-003	3.0000e-005	1.0800e-003	0.0000	3.6769	3.6769	1.2000e-004	0.0000	3.6798
Total	2.6400e-003	0.0306	0.0227	1.1000e-004	5.6400e-003	1.7000e-004	5.8200e-003	1.5400e-003	1.6000e-004	1.7000e-003	0.0000	10.3844	10.3844	5.5000e-004	0.0000	10.3979

3.7 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3846					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0374	0.2798	0.3258	5.2000e-004		0.0169	0.0169		0.0168	0.0168	0.0000	45.1475	45.1475	5.4700e-003	0.0000	45.2843
Total	0.4219	0.2798	0.3258	5.2000e-004		0.0169	0.0169		0.0168	0.0168	0.0000	45.1475	45.1475	5.4700e-003	0.0000	45.2843

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3.7 Architectural Coating - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.9000e-004	0.0236	6.3900e-003	6.0000e-005	1.3700e-003	1.1000e-004	1.4800e-003	4.0000e-004	1.1000e-004	5.0000e-004	0.0000	5.4157	5.4157	3.4000e-004	0.0000	5.4243
Worker	4.0300e-003	3.2500e-003	0.0359	1.0000e-004	9.5600e-003	8.0000e-005	9.6400e-003	2.5400e-003	8.0000e-005	2.6100e-003	0.0000	8.9062	8.9062	2.8000e-004	0.0000	8.9132
Total	4.8200e-003	0.0269	0.0423	1.6000e-004	0.0109	1.9000e-004	0.0111	2.9400e-003	1.9000e-004	3.1100e-003	0.0000	14.3219	14.3219	6.2000e-004	0.0000	14.3375

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	0.3846					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0374	0.2798	0.3258	5.2000e-004		0.0169	0.0169		0.0168	0.0168	0.0000	45.1474	45.1474	5.4700e-003	0.0000	45.2843
Total	0.4219	0.2798	0.3258	5.2000e-004		0.0169	0.0169		0.0168	0.0168	0.0000	45.1474	45.1474	5.4700e-003	0.0000	45.2843

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3.7 Architectural Coating - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.9000e-004	0.0236	6.3900e-003	6.0000e-005	1.3700e-003	1.1000e-004	1.4800e-003	4.0000e-004	1.1000e-004	5.0000e-004	0.0000	5.4157	5.4157	3.4000e-004	0.0000	5.4243
Worker	4.0300e-003	3.2500e-003	0.0359	1.0000e-004	9.5600e-003	8.0000e-005	9.6400e-003	2.5400e-003	8.0000e-005	2.6100e-003	0.0000	8.9062	8.9062	2.8000e-004	0.0000	8.9132
Total	4.8200e-003	0.0269	0.0423	1.6000e-004	0.0109	1.9000e-004	0.0111	2.9400e-003	1.9000e-004	3.1100e-003	0.0000	14.3219	14.3219	6.2000e-004	0.0000	14.3375

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2293					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0202	0.1519	0.1931	3.1000e-004		8.5300e-003	8.5300e-003		8.5000e-003	8.5000e-003	0.0000	26.9228	26.9228	3.0700e-003	0.0000	26.9995
Total	0.2495	0.1519	0.1931	3.1000e-004		8.5300e-003	8.5300e-003		8.5000e-003	8.5000e-003	0.0000	26.9228	26.9228	3.0700e-003	0.0000	26.9995

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3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-004	0.0128	3.4800e-003	3.0000e-005	8.2000e-004	3.0000e-005	8.5000e-004	2.4000e-004	3.0000e-005	2.6000e-004	0.0000	3.2045	3.2045	2.0000e-004	0.0000	3.2094
Worker	2.2400e-003	1.7400e-003	0.0197	6.0000e-005	5.7000e-003	5.0000e-005	5.7500e-003	1.5100e-003	4.0000e-005	1.5600e-003	0.0000	5.1424	5.1424	1.5000e-004	0.0000	5.1462
Total	2.6400e-003	0.0146	0.0231	9.0000e-005	6.5200e-003	8.0000e-005	6.6000e-003	1.7500e-003	7.0000e-005	1.8200e-003	0.0000	8.3468	8.3468	3.5000e-004	0.0000	8.3555

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	0.2293					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0202	0.1519	0.1931	3.1000e-004		8.5300e-003	8.5300e-003		8.5000e-003	8.5000e-003	0.0000	26.9228	26.9228	3.0700e-003	0.0000	26.9995
Total	0.2495	0.1519	0.1931	3.1000e-004		8.5300e-003	8.5300e-003		8.5000e-003	8.5000e-003	0.0000	26.9228	26.9228	3.0700e-003	0.0000	26.9995

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3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-004	0.0128	3.4800e-003	3.0000e-005	8.2000e-004	3.0000e-005	8.5000e-004	2.4000e-004	3.0000e-005	2.6000e-004	0.0000	3.2045	3.2045	2.0000e-004	0.0000	3.2094
Worker	2.2400e-003	1.7400e-003	0.0197	6.0000e-005	5.7000e-003	5.0000e-005	5.7500e-003	1.5100e-003	4.0000e-005	1.5600e-003	0.0000	5.1424	5.1424	1.5000e-004	0.0000	5.1462
Total	2.6400e-003	0.0146	0.0231	9.0000e-005	6.5200e-003	8.0000e-005	6.6000e-003	1.7500e-003	7.0000e-005	1.8200e-003	0.0000	8.3468	8.3468	3.5000e-004	0.0000	8.3555

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Improve Pedestrian Network

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.5550	2.7004	6.6048	0.0216	1.6903	0.0187	1.7091	0.4531	0.0175	0.4706	0.0000	1,990.9596	1,990.9596	0.1116	0.0000	1,993.7488
Unmitigated	0.5802	2.8735	7.2236	0.0240	1.8971	0.0207	1.9179	0.5086	0.0194	0.5279	0.0000	2,215.8299	2,215.8299	0.1223	0.0000	2,218.8876

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	935.41	912.87	779.24	3,109,198	2,770,296
Enclosed Parking with Elevator	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	483.17	601.81	500.99	685,046	610,376
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	576.45	674.60	340.74	1,204,267	1,073,002
Total	1,995.03	2,189.27	1,620.97	4,998,511	4,453,673

4.3 Trip Type Information

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Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
High Turnover (Sit Down Restaurant)	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
Enclosed Parking with Elevator	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
High Turnover (Sit Down Restaurant)	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
Other Asphalt Surfaces	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
Parking Lot	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
Regional Shopping Center	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated							0.0000	0.0000		0.0000	0.0000	492.6595	492.6595	0.0224	4.6400e-003	494.6032
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	614.0079	614.0079	0.0280	5.7800e-003	616.4303
NaturalGas Mitigated	0.0198	0.1715	0.0912	1.0800e-003			0.0137	0.0137		0.0137	0.0137	195.5492	195.5492	3.7500e-003	3.5900e-003	196.7113
NaturalGas Unmitigated	0.0198	0.1715	0.0912	1.0800e-003			0.0137	0.0137		0.0137	0.0137	195.5492	195.5492	3.7500e-003	3.5900e-003	196.7113

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Condo/Townhouse	2.76543e+006	0.0149	0.1274	0.0542	8.1000e-004		0.0103	0.0103		0.0103	0.0103	0.0000	147.5737	147.5737	2.8300e-003	2.7100e-003	148.4506
Enclosed Parking with Elevator	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
High Turnover (Sit Down Restaurant)	876888	4.7300e-003	0.0430	0.0361	2.6000e-004		3.2700e-003	3.2700e-003		3.2700e-003	3.2700e-003	0.0000	46.7941	46.7941	9.0000e-004	8.6000e-004	47.0722
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	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
Regional Shopping Center	22140	1.2000e-004	1.0900e-003	9.1000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.1815	1.1815	2.0000e-005	2.0000e-005	1.1885
Total		0.0198	0.1715	0.0912	1.0800e-003		0.0137	0.0137		0.0137	0.0137	0.0000	195.5492	195.5492	3.7500e-003	3.5900e-003	196.7113

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5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Condo/Townhouse	2.76543e+006	0.0149	0.1274	0.0542	8.1000e-004		0.0103	0.0103		0.0103	0.0103	0.0000	147.5737	147.5737	2.8300e-003	2.7100e-003	148.4506
Enclosed Parking with Elevator	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
High Turnover (Sit Down Restaurant)	876888	4.7300e-003	0.0430	0.0361	2.6000e-004		3.2700e-003	3.2700e-003		3.2700e-003	3.2700e-003	0.0000	46.7941	46.7941	9.0000e-004	8.6000e-004	47.0722
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	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
Regional Shopping Center	22140	1.2000e-004	1.0900e-003	9.1000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.1815	1.1815	2.0000e-005	2.0000e-005	1.1885
Total		0.0198	0.1715	0.0912	1.0800e-003		0.0137	0.0137		0.0137	0.0137	0.0000	195.5492	195.5492	3.7500e-003	3.5900e-003	196.7113

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	811430	234.4423	0.0107	2.2100e-003	235.3672
Enclosed Parking with Elevator	958696	276.9910	0.0126	2.6100e-003	278.0838
High Turnover (Sit Down Restaurant)	167732	48.4619	2.2100e-003	4.6000e-004	48.6531
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	5040	1.4562	7.0000e-005	1.0000e-005	1.4619
Regional Shopping Center	182250	52.6565	2.4000e-003	5.0000e-004	52.8643
Total		614.0079	0.0280	5.7900e-003	616.4303

Covina Hassen Site A - Los Angeles-South Coast County, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	741430	214.2176	9.7500e-003	2.0200e-003	215.0627
Enclosed Parking with Elevator	888696	256.7663	0.0117	2.4200e-003	257.7793
High Turnover (Sit Down Restaurant)	97732	28.2372	1.2900e-003	2.7000e-004	28.3486
Other Asphalt Surfaces	-70000	-20.2247	-0.0009	-0.0002	-20.3045
Parking Lot	-64960	-18.7686	-0.0009	-0.0002	-18.8426
Regional Shopping Center	112250	32.4318	1.4800e-003	3.1000e-004	32.5598
Total		492.6595	0.0224	4.6500e-003	494.6032

6.0 Area Detail**6.1 Mitigation Measures Area**

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

Covina Hassen Site A - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.7707	0.0193	1.6704	9.0000e-005		9.2000e-003	9.2000e-003		9.2000e-003	9.2000e-003	0.0000	2.7246	2.7246	2.6600e-003	0.0000	2.7911
Unmitigated	0.7707	0.0193	1.6704	9.0000e-005		9.2000e-003	9.2000e-003		9.2000e-003	9.2000e-003	0.0000	2.7246	2.7246	2.6600e-003	0.0000	2.7911

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0614					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6583					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0510	0.0193	1.6704	9.0000e-005		9.2000e-003	9.2000e-003		9.2000e-003	9.2000e-003	0.0000	2.7246	2.7246	2.6600e-003	0.0000	2.7911
Total	0.7707	0.0193	1.6704	9.0000e-005		9.2000e-003	9.2000e-003		9.2000e-003	9.2000e-003	0.0000	2.7246	2.7246	2.6600e-003	0.0000	2.7911

Covina Hassen Site A - Los Angeles-South Coast County, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0614					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6583					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0510	0.0193	1.6704	9.0000e-005		9.2000e-003	9.2000e-003		9.2000e-003	9.2000e-003	0.0000	2.7246	2.7246	2.6600e-003	0.0000	2.7911
Total	0.7707	0.0193	1.6704	9.0000e-005		9.2000e-003	9.2000e-003		9.2000e-003	9.2000e-003	0.0000	2.7246	2.7246	2.6600e-003	0.0000	2.7911

7.0 Water Detail

7.1 Mitigation Measures Water

Covina Hassen Site A - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	75.4696	0.0186	0.0104	79.0334
Unmitigated	75.4696	0.0186	0.0104	79.0334

Covina Hassen Site A - Los Angeles-South Coast County, Annual

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	10.4898 / 6.61313	64.4027	0.0155	8.6400e-003	67.3666
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	1.15343 / 0.0736231	4.9837	1.6100e-003	9.3000e-004	5.3013
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.999979 / 0.61289	6.0832	1.4800e-003	8.2000e-004	6.3655
Total		75.4696	0.0186	0.0104	79.0335

Covina Hassen Site A - Los Angeles-South Coast County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	10.4898 / 6.61313	64.4027	0.0155	8.6400e-003	67.3666
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	1.15343 / 0.0736231	4.9837	1.6100e-003	9.3000e-004	5.3013
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.999979 / 0.61289	6.0832	1.4800e-003	8.2000e-004	6.3655
Total		75.4696	0.0186	0.0104	79.0335

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Covina Hassen Site A - Los Angeles-South Coast County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	13.5456	0.8005	0.0000	33.5586
Unmitigated	27.0912	1.6010	0.0000	67.1172

Covina Hassen Site A - Los Angeles-South Coast County, Annual

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	74.06	15.0335	0.8885	0.0000	37.2449
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	45.22	9.1793	0.5425	0.0000	22.7412
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	14.18	2.8784	0.1701	0.0000	7.1311
Total		27.0912	1.6011	0.0000	67.1172

Covina Hassen Site A - Los Angeles-South Coast County, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	37.03	7.5168	0.4442	0.0000	18.6224
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	22.61	4.5896	0.2712	0.0000	11.3706
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	7.09	1.4392	0.0851	0.0000	3.5656
Total		13.5456	0.8005	0.0000	33.5586

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	1	50	503	0.73	CNG

Covina Hassen Site A - Los Angeles-South Coast County, Annual

Boilers

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

Equipment Type	Number
----------------	--------

10.1 Stationary Sources

Unmitigated/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
Equipment Type	tons/yr										MT/yr					
Emergency Generator - CNG (500 - 9999 HP)	0.1106	8.5200e-003	0.2882	4.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	6.4125	6.4125	0.0134	0.0000	6.7477
Total	0.1106	8.5200e-003	0.2882	4.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	6.4125	6.4125	0.0134	0.0000	6.7477

11.0 Vegetation

Covina Hassen Site A - Los Angeles-South Coast County, Summer

Covina Hassen Site A
Los Angeles-South Coast County, Summer

1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	409.00	Space	1.27	163,600.00	0
Other Asphalt Surfaces	38.00	1000sqft	0.30	38,000.00	0
Parking Lot	36.00	Space	0.11	14,400.00	0
High Turnover (Sit Down Restaurant)	3.80	1000sqft	0.03	3,800.00	0
Condo/Townhouse	161.00	Dwelling Unit	3.48	161,000.00	460
Regional Shopping Center	13.50	1000sqft	0.11	13,500.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	636.97	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity factor conservatively adjusted for 2016 SCE Power Content Label assuming 28% renewables (636.97 lb/MWh).

Land Use - CalEEMod default lot acreage scaled to match total site acreage of 5.3 acres

Construction Phase - Per applicant-provided schedule assumptions

Off-road Equipment - Per applicant-provided equipment schedule

Off-road Equipment - Per applicant-provided equipment schedule

Covina Hassen Site A - Los Angeles-South Coast County, Summer

Off-road Equipment - Per applicant-provided equipment schedule

Off-road Equipment -

Off-road Equipment - Per applicant-provided equipment schedule

Off-road Equipment - Per applicant-provided equipment schedule

Off-road Equipment - Per applicant-provided equipment schedule

Trips and VMT - Per applicant-provided information

Demolition - Per applicant-provided information and based on existing build structures

Grading - Per applicant-provided material export information

Architectural Coating -

Vehicle Trips -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves - No woodstoves. No fireplaces.

Consumer Products -

Area Coating -

Landscape Equipment -

Energy Use -

Water And Wastewater - Assumed 100% Aerobic.

Solid Waste -

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -

Waste Mitigation -

Fleet Mix -

Stationary Sources - Emergency Generators and Fire Pumps - Per applicant-provided information

Covina Hassen Site A - Los Angeles-South Coast County, Summer

Stationary Sources - Emergency Generators and Fire Pumps EF -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	10.00	44.00
tblConstructionPhase	NumDays	230.00	109.00
tblConstructionPhase	NumDays	230.00	327.00
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	20.00	174.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	136.85	0.00
tblFireplaces	NumberNoFireplace	16.10	0.00
tblFireplaces	NumberWood	8.05	0.00
tblGrading	AcresOfGrading	22.00	5.30
tblGrading	MaterialExported	0.00	9,850.00
tblLandUse	LotAcreage	3.68	1.27
tblLandUse	LotAcreage	0.87	0.30
tblLandUse	LotAcreage	0.32	0.11
tblLandUse	LotAcreage	0.09	0.03
tblLandUse	LotAcreage	10.06	3.48
tblLandUse	LotAcreage	0.31	0.11
tblOffRoadEquipment	HorsePower	97.00	158.00
tblOffRoadEquipment	HorsePower	78.00	231.00
tblOffRoadEquipment	LoadFactor	0.37	0.38

Covina Hassen Site A - Los Angeles-South Coast County, Summer

tblOffRoadEquipment	LoadFactor	0.50	0.29
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Site Preparation and Grading
tblOffRoadEquipment	PhaseName		Site Preparation and Grading
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	636.97
tblTripsAndVMT	HaulingTripNumber	1,231.00	616.00
tblTripsAndVMT	VendorTripNumber	55.00	0.00
tblTripsAndVMT	VendorTripNumber	55.00	20.00
tblTripsAndVMT	VendorTripNumber	0.00	12.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00

Covina Hassen Site A - Los Angeles-South Coast County, Summer

tblTripsAndVMT	WorkerTripNumber	8.00	20.00
tblTripsAndVMT	WorkerTripNumber	20.00	24.00
tblTripsAndVMT	WorkerTripNumber	213.00	12.00
tblTripsAndVMT	WorkerTripNumber	213.00	50.00
tblTripsAndVMT	WorkerTripNumber	10.00	16.00
tblTripsAndVMT	WorkerTripNumber	43.00	16.00
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	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
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	8.05	0.00
tblWoodstoves	NumberNoncatalytic	8.05	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00

Covina Hassen Site A - Los Angeles-South Coast County, Summer

tblWoodstoves	WoodstoveWoodMass	999.60	0.00
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2.0 Emissions Summary

Covina Hassen Site A - Los Angeles-South Coast County, Summer

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	3.9665	44.7985	22.6489	0.0523	12.7146	2.0041	14.7187	6.7774	1.8444	8.6218	0.0000	5,283.6604	5,283.6604	1.2900	0.0000	5,315.9107
2020	12.0711	94.2843	63.9970	0.1335	21.4904	4.4756	25.9660	8.9506	4.1943	13.1449	0.0000	12,971.0882	12,971.0882	2.8218	0.0000	13,041.6324
2021	11.5699	36.7968	36.2351	0.0713	0.8914	1.7829	2.6742	0.2399	1.7252	1.9651	0.0000	6,810.7886	6,810.7886	0.9652	0.0000	6,834.9180
Maximum	12.0711	94.2843	63.9970	0.1335	21.4904	4.4756	25.9660	8.9506	4.1943	13.1449	0.0000	12,971.0882	12,971.0882	2.8218	0.0000	13,041.6324

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	3.9665	44.7985	22.6489	0.0523	5.2743	2.0041	7.2784	2.7281	1.8444	4.5725	0.0000	5,283.6604	5,283.6604	1.2900	0.0000	5,315.9107
2020	12.0711	94.2843	63.9970	0.1335	14.0501	4.4756	18.5257	4.9013	4.1943	9.0956	0.0000	12,971.0882	12,971.0882	2.8218	0.0000	13,041.6324
2021	11.5699	36.7968	36.2351	0.0713	0.8914	1.7829	2.6742	0.2399	1.7252	1.9651	0.0000	6,810.7886	6,810.7886	0.9652	0.0000	6,834.9180
Maximum	12.0711	94.2843	63.9970	0.1335	14.0501	4.4756	18.5257	4.9013	4.1943	9.0956	0.0000	12,971.0882	12,971.0882	2.8218	0.0000	13,041.6324

Covina Hassen Site A - Los Angeles-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	42.40	0.00	34.32	50.72	0.00	34.13	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.3514	0.1541	13.3629	7.1000e-004		0.0736	0.0736		0.0736	0.0736	0.0000	24.0264	24.0264	0.0235	0.0000	24.6131
Energy	0.1083	0.9397	0.5000	5.9100e-003		0.0748	0.0748		0.0748	0.0748		1,181.1295	1,181.1295	0.0226	0.0217	1,188.1483
Mobile	3.7516	16.8399	44.9537	0.1501	11.6435	0.1249	11.7684	3.1161	0.1166	3.2327		15,263.7506	15,263.7506	0.8186		15,284.2162
Stationary	4.4254	0.3409	11.5259	1.5400e-003		0.0244	0.0244		0.0244	0.0244		282.7411	282.7411	0.5912		297.5207
Total	12.6366	18.2746	70.3424	0.1582	11.6435	0.2977	11.9412	3.1161	0.2894	3.4055	0.0000	16,751.6475	16,751.6475	1.4559	0.0217	16,794.4984

Covina Hassen Site A - Los Angeles-South Coast County, Summer

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.3514	0.1541	13.3629	7.1000e-004		0.0736	0.0736		0.0736	0.0736	0.0000	24.0264	24.0264	0.0235	0.0000	24.6131
Energy	0.1083	0.9397	0.5000	5.9100e-003		0.0748	0.0748		0.0748	0.0748		1,181.1295	1,181.1295	0.0226	0.0217	1,188.1483
Mobile	3.5970	15.8757	40.9557	0.1349	10.3744	0.1128	10.4871	2.7765	0.1052	2.8817		13,717.9852	13,717.9852	0.7458		13,736.6309
Stationary	4.4254	0.3409	11.5259	1.5400e-003		0.0244	0.0244		0.0244	0.0244		282.7411	282.7411	0.5912		297.5207
Total	12.4821	17.3104	66.3444	0.1430	10.3744	0.2855	10.6599	2.7765	0.2780	3.0545	0.0000	15,205.8821	15,205.8821	1.3831	0.0217	15,246.9131

	ROG	NOx	CO	SO2	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	1.22	5.28	5.68	9.62	10.90	4.08	10.73	10.90	3.93	10.31	0.00	9.23	9.23	5.00	0.00	9.21

3.0 Construction Detail

Construction Phase

Covina Hassen Site A - Los Angeles-South Coast County, Summer

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/1/2019	10/1/2019	5	44	
2	Site Preparation and Grading	Site Preparation	11/1/2019	1/1/2020	5	44	
3	Trenching	Building Construction	1/1/2020	6/1/2020	5	109	
4	Building Construction	Building Construction	1/1/2020	4/1/2021	5	327	
5	Paving	Paving	6/1/2020	7/31/2020	5	45	
6	Architectural Coating	Architectural Coating	8/3/2020	4/1/2021	5	174	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 1.68

Residential Indoor: 326,025; Residential Outdoor: 108,675; Non-Residential Indoor: 25,950; Non-Residential Outdoor: 8,650; Striped Parking Area: 12,960 (Architectural Coating – sqft)

OffRoad Equipment

Covina Hassen Site A - Los Angeles-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	8.00	158	0.38
Site Preparation and Grading	Excavators	1	8.00	158	0.38
Site Preparation and Grading	Graders	1	8.00	187	0.41
Site Preparation and Grading	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation and Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Trenching	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Trenching	Trenchers	2	8.00	231	0.29
Building Construction	Air Compressors	2	8.00	78	0.48
Building Construction	Cranes	2	8.00	231	0.29
Building Construction	Forklifts	1	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Surfacing Equipment	1	8.00	263	0.30
Architectural Coating	Aerial Lifts	1	8.00	63	0.31
Architectural Coating	Air Compressors	2	8.00	78	0.48

Trips and VMT

Covina Hassen Site A - Los Angeles-South Coast County, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	3	20.00	0.00	334.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation and Grading	8	24.00	0.00	616.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	5	12.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	12	50.00	20.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	4	16.00	12.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	3	16.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.6411	0.0000	1.6411	0.2485	0.0000	0.2485			0.0000			0.0000
Off-Road	1.7074	17.9708	10.8951	0.0188		0.8854	0.8854		0.8146	0.8146		1,857.5803	1,857.5803	0.5877		1,872.2733
Total	1.7074	17.9708	10.8951	0.0188	1.6411	0.8854	2.5265	0.2485	0.8146	1.0631		1,857.5803	1,857.5803	0.5877		1,872.2733

Covina Hassen Site A - Los Angeles-South Coast County, Summer

3.2 Demolition - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0713	2.3250	0.4957	6.0700e-003	0.1327	8.5300e-003	0.1413	0.0364	8.1600e-003	0.0445		656.2430	656.2430	0.0452		657.3729
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0999	0.0734	0.9643	2.4400e-003	0.2236	1.9300e-003	0.2255	0.0593	1.7800e-003	0.0611		242.5906	242.5906	8.3300e-003		242.7989
Total	0.1712	2.3984	1.4600	8.5100e-003	0.3563	0.0105	0.3667	0.0957	9.9400e-003	0.1056		898.8336	898.8336	0.0535		900.1718

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.6400	0.0000	0.6400	0.0969	0.0000	0.0969			0.0000			0.0000
Off-Road	1.7074	17.9708	10.8951	0.0188		0.8854	0.8854		0.8146	0.8146	0.0000	1,857.5803	1,857.5803	0.5877		1,872.2733
Total	1.7074	17.9708	10.8951	0.0188	0.6400	0.8854	1.5254	0.0969	0.8146	0.9115	0.0000	1,857.5803	1,857.5803	0.5877		1,872.2733

Covina Hassen Site A - Los Angeles-South Coast County, Summer

3.2 Demolition - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0713	2.3250	0.4957	6.0700e-003	0.1327	8.5300e-003	0.1413	0.0364	8.1600e-003	0.0445		656.2430	656.2430	0.0452		657.3729
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0999	0.0734	0.9643	2.4400e-003	0.2236	1.9300e-003	0.2255	0.0593	1.7800e-003	0.0611		242.5906	242.5906	8.3300e-003		242.7989
Total	0.1712	2.3984	1.4600	8.5100e-003	0.3563	0.0105	0.3667	0.0957	9.9400e-003	0.1056		898.8336	898.8336	0.0535		900.1718

3.3 Site Preparation and Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					12.1972	0.0000	12.1972	6.6381	0.0000	6.6381			0.0000			0.0000
Off-Road	3.7151	40.4224	20.5775	0.0382		1.9861	1.9861		1.8272	1.8272		3,782.2353	3,782.2353	1.1967		3,812.1517
Total	3.7151	40.4224	20.5775	0.0382	12.1972	1.9861	14.1833	6.6381	1.8272	8.4653		3,782.2353	3,782.2353	1.1967		3,812.1517

Covina Hassen Site A - Los Angeles-South Coast County, Summer

3.3 Site Preparation and Grading - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1316	4.2880	0.9142	0.0112	0.2491	0.0157	0.2648	0.0682	0.0151	0.0832		1,210.3165	1,210.3165	0.0834		1,212.4003
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1199	0.0881	1.1572	2.9200e-003	0.2683	2.3100e-003	0.2706	0.0711	2.1300e-003	0.0733		291.1087	291.1087	0.0100		291.3587
Total	0.2515	4.3761	2.0714	0.0141	0.5173	0.0180	0.5354	0.1393	0.0172	0.1565		1,501.4251	1,501.4251	0.0934		1,503.7590

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.7569	0.0000	4.7569	2.5889	0.0000	2.5889			0.0000			0.0000
Off-Road	3.7151	40.4224	20.5775	0.0382		1.9861	1.9861		1.8272	1.8272	0.0000	3,782.2353	3,782.2353	1.1967		3,812.1517
Total	3.7151	40.4224	20.5775	0.0382	4.7569	1.9861	6.7430	2.5889	1.8272	4.4161	0.0000	3,782.2353	3,782.2353	1.1967		3,812.1517

Covina Hassen Site A - Los Angeles-South Coast County, Summer

3.3 Site Preparation and Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1316	4.2880	0.9142	0.0112	0.2491	0.0157	0.2648	0.0682	0.0151	0.0832		1,210.3165	1,210.3165	0.0834		1,212.4003
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1199	0.0881	1.1572	2.9200e-003	0.2683	2.3100e-003	0.2706	0.0711	2.1300e-003	0.0733		291.1087	291.1087	0.0100		291.3587
Total	0.2515	4.3761	2.0714	0.0141	0.5173	0.0180	0.5354	0.1393	0.0172	0.1565		1,501.4251	1,501.4251	0.0934		1,503.7590

3.3 Site Preparation and Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					12.1972	0.0000	12.1972	6.6381	0.0000	6.6381			0.0000			0.0000
Off-Road	3.5083	37.7181	20.1846	0.0382		1.8284	1.8284		1.6821	1.6821		3,699.8276	3,699.8276	1.1966		3,729.7426
Total	3.5083	37.7181	20.1846	0.0382	12.1972	1.8284	14.0256	6.6381	1.6821	8.3202		3,699.8276	3,699.8276	1.1966		3,729.7426

Covina Hassen Site A - Los Angeles-South Coast County, Summer

3.3 Site Preparation and Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1223	4.0256	0.8920	0.0111	8.2039	0.0129	8.2167	2.0207	0.0123	2.0330		1,198.1645	1,198.1645	0.0816		1,200.2034
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1105	0.0786	1.0508	2.8300e-003	0.2683	2.2400e-003	0.2705	0.0711	2.0700e-003	0.0732		282.2671	282.2671	8.9000e-003		282.4896
Total	0.2327	4.1041	1.9429	0.0139	8.4722	0.0151	8.4873	2.0918	0.0144	2.1062		1,480.4316	1,480.4316	0.0905		1,482.6930

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.7569	0.0000	4.7569	2.5889	0.0000	2.5889			0.0000			0.0000
Off-Road	3.5083	37.7181	20.1846	0.0382		1.8284	1.8284		1.6821	1.6821	0.0000	3,699.8276	3,699.8276	1.1966		3,729.7426
Total	3.5083	37.7181	20.1846	0.0382	4.7569	1.8284	6.5853	2.5889	1.6821	4.2710	0.0000	3,699.8276	3,699.8276	1.1966		3,729.7426

Covina Hassen Site A - Los Angeles-South Coast County, Summer

3.3 Site Preparation and Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1223	4.0256	0.8920	0.0111	8.2039	0.0129	8.2167	2.0207	0.0123	2.0330		1,198.1645	1,198.1645	0.0816		1,200.2034
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1105	0.0786	1.0508	2.8300e-003	0.2683	2.2400e-003	0.2705	0.0711	2.0700e-003	0.0732		282.2671	282.2671	8.9000e-003		282.4896
Total	0.2327	4.1041	1.9429	0.0139	8.4722	0.0151	8.4873	2.0918	0.0144	2.1062		1,480.4316	1,480.4316	0.0905		1,482.6930

3.4 Trenching - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5548	17.6794	11.0312	0.0209		0.8598	0.8598		0.7911	0.7911		2,021.4120	2,021.4120	0.6538		2,037.7562
Total	1.5548	17.6794	11.0312	0.0209		0.8598	0.8598		0.7911	0.7911		2,021.4120	2,021.4120	0.6538		2,037.7562

Covina Hassen Site A - Los Angeles-South Coast County, Summer

3.4 Trenching - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0552	0.0393	0.5254	1.4200e-003	0.1341	1.1200e-003	0.1353	0.0356	1.0300e-003	0.0366		141.1335	141.1335	4.4500e-003		141.2448
Total	0.0552	0.0393	0.5254	1.4200e-003	0.1341	1.1200e-003	0.1353	0.0356	1.0300e-003	0.0366		141.1335	141.1335	4.4500e-003		141.2448

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5548	17.6794	11.0312	0.0209		0.8598	0.8598		0.7911	0.7911	0.0000	2,021.4120	2,021.4120	0.6538		2,037.7562
Total	1.5548	17.6794	11.0312	0.0209		0.8598	0.8598		0.7911	0.7911	0.0000	2,021.4120	2,021.4120	0.6538		2,037.7562

Covina Hassen Site A - Los Angeles-South Coast County, Summer

3.4 Trenching - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0552	0.0393	0.5254	1.4200e-003	0.1341	1.1200e-003	0.1353	0.0356	1.0300e-003	0.0366		141.1335	141.1335	4.4500e-003		141.2448
Total	0.0552	0.0393	0.5254	1.4200e-003	0.1341	1.1200e-003	0.1353	0.0356	1.0300e-003	0.0366		141.1335	141.1335	4.4500e-003		141.2448

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.9400	32.4523	27.5663	0.0480		1.7564	1.7564		1.6918	1.6918		4,486.1776	4,486.1776	0.8242		4,506.7813
Total	3.9400	32.4523	27.5663	0.0480		1.7564	1.7564		1.6918	1.6918		4,486.1776	4,486.1776	0.8242		4,506.7813

Covina Hassen Site A - Los Angeles-South Coast County, Summer

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0711	2.1275	0.5574	5.1900e-003	0.1280	0.0100	0.1381	0.0369	9.5800e-003	0.0464		554.0494	554.0494	0.0338		554.8946
Worker	0.2301	0.1637	2.1892	5.9100e-003	0.5589	4.6700e-003	0.5636	0.1482	4.3000e-003	0.1525		588.0564	588.0564	0.0185		588.5199
Total	0.3012	2.2911	2.7466	0.0111	0.6869	0.0147	0.7016	0.1851	0.0139	0.1990		1,142.1058	1,142.1058	0.0524		1,143.4146

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.9400	32.4523	27.5663	0.0480		1.7564	1.7564		1.6918	1.6918	0.0000	4,486.1776	4,486.1776	0.8242		4,506.7813
Total	3.9400	32.4523	27.5663	0.0480		1.7564	1.7564		1.6918	1.6918	0.0000	4,486.1776	4,486.1776	0.8242		4,506.7813

Covina Hassen Site A - Los Angeles-South Coast County, Summer

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0711	2.1275	0.5574	5.1900e-003	0.1280	0.0100	0.1381	0.0369	9.5800e-003	0.0464		554.0494	554.0494	0.0338		554.8946
Worker	0.2301	0.1637	2.1892	5.9100e-003	0.5589	4.6700e-003	0.5636	0.1482	4.3000e-003	0.1525		588.0564	588.0564	0.0185		588.5199
Total	0.3012	2.2911	2.7466	0.0111	0.6869	0.0147	0.7016	0.1851	0.0139	0.1990		1,142.1058	1,142.1058	0.0524		1,143.4146

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.5362	29.6000	27.0267	0.0480		1.5098	1.5098		1.4537	1.4537		4,486.3390	4,486.3390	0.8001		4,506.3406
Total	3.5362	29.6000	27.0267	0.0480		1.5098	1.5098		1.4537	1.4537		4,486.3390	4,486.3390	0.8001		4,506.3406

Covina Hassen Site A - Los Angeles-South Coast County, Summer

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0608	1.9418	0.5076	5.1400e-003	0.1280	3.9700e-003	0.1320	0.0369	3.8000e-003	0.0407		549.7613	549.7613	0.0324		550.5710
Worker	0.2143	0.1473	2.0139	5.7200e-003	0.5589	4.5200e-003	0.5634	0.1482	4.1600e-003	0.1524		569.3849	569.3849	0.0168		569.8044
Total	0.2751	2.0891	2.5215	0.0109	0.6869	8.4900e-003	0.6954	0.1851	7.9600e-003	0.1930		1,119.1462	1,119.1462	0.0492		1,120.3753

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.5362	29.6000	27.0267	0.0480		1.5098	1.5098		1.4537	1.4537	0.0000	4,486.3390	4,486.3390	0.8001		4,506.3406
Total	3.5362	29.6000	27.0267	0.0480		1.5098	1.5098		1.4537	1.4537	0.0000	4,486.3390	4,486.3390	0.8001		4,506.3406

Covina Hassen Site A - Los Angeles-South Coast County, Summer

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0608	1.9418	0.5076	5.1400e-003	0.1280	3.9700e-003	0.1320	0.0369	3.8000e-003	0.0407		549.7613	549.7613	0.0324		550.5710
Worker	0.2143	0.1473	2.0139	5.7200e-003	0.5589	4.5200e-003	0.5634	0.1482	4.1600e-003	0.1524		569.3849	569.3849	0.0168		569.8044
Total	0.2751	2.0891	2.5215	0.0109	0.6869	8.4900e-003	0.6954	0.1851	7.9600e-003	0.1930		1,119.1462	1,119.1462	0.0492		1,120.3753

3.6 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8808	9.5898	9.0224	0.0182		0.4694	0.4694		0.4319	0.4319		1,760.1715	1,760.1715	0.5693		1,774.4034
Paving	0.0239					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9047	9.5898	9.0224	0.0182		0.4694	0.4694		0.4319	0.4319		1,760.1715	1,760.1715	0.5693		1,774.4034

Covina Hassen Site A - Los Angeles-South Coast County, Summer

3.6 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0427	1.2765	0.3345	3.1100e-003	0.0768	6.0100e-003	0.0828	0.0221	5.7500e-003	0.0279		332.4296	332.4296	0.0203		332.9368
Worker	0.0736	0.0524	0.7006	1.8900e-003	0.1788	1.4900e-003	0.1803	0.0474	1.3800e-003	0.0488		188.1781	188.1781	5.9300e-003		188.3264
Total	0.1163	1.3289	1.0350	5.0000e-003	0.2557	7.5000e-003	0.2632	0.0696	7.1300e-003	0.0767		520.6077	520.6077	0.0262		521.2632

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8808	9.5898	9.0224	0.0182		0.4694	0.4694		0.4319	0.4319	0.0000	1,760.1715	1,760.1715	0.5693		1,774.4034
Paving	0.0239					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9047	9.5898	9.0224	0.0182		0.4694	0.4694		0.4319	0.4319	0.0000	1,760.1715	1,760.1715	0.5693		1,774.4034

Covina Hassen Site A - Los Angeles-South Coast County, Summer

3.6 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0427	1.2765	0.3345	3.1100e-003	0.0768	6.0100e-003	0.0828	0.0221	5.7500e-003	0.0279		332.4296	332.4296	0.0203		332.9368
Worker	0.0736	0.0524	0.7006	1.8900e-003	0.1788	1.4900e-003	0.1803	0.0474	1.3800e-003	0.0488		188.1781	188.1781	5.9300e-003		188.3264
Total	0.1163	1.3289	1.0350	5.0000e-003	0.2557	7.5000e-003	0.2632	0.0696	7.1300e-003	0.0767		520.6077	520.6077	0.0262		521.2632

3.7 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	7.0567					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.6854	5.1339	5.9780	9.6000e-003		0.3102	0.3102		0.3090	0.3090		913.1480	913.1480	0.1107		915.9156
Total	7.7420	5.1339	5.9780	9.6000e-003		0.3102	0.3102		0.3090	0.3090		913.1480	913.1480	0.1107		915.9156

Covina Hassen Site A - Los Angeles-South Coast County, Summer

3.7 Architectural Coating - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0142	0.4255	0.1115	1.0400e-003	0.0256	2.0000e-003	0.0276	7.3700e-003	1.9200e-003	9.2900e-003		110.8099	110.8099	6.7600e-003		110.9789
Worker	0.0736	0.0524	0.7006	1.8900e-003	0.1788	1.4900e-003	0.1803	0.0474	1.3800e-003	0.0488		188.1781	188.1781	5.9300e-003		188.3264
Total	0.0879	0.4779	0.8120	2.9300e-003	0.2045	3.4900e-003	0.2080	0.0548	3.3000e-003	0.0581		298.9879	298.9879	0.0127		299.3053

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	7.0567					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.6854	5.1339	5.9780	9.6000e-003		0.3102	0.3102		0.3090	0.3090	0.0000	913.1480	913.1480	0.1107		915.9156
Total	7.7420	5.1339	5.9780	9.6000e-003		0.3102	0.3102		0.3090	0.3090	0.0000	913.1480	913.1480	0.1107		915.9156

Covina Hassen Site A - Los Angeles-South Coast County, Summer

3.7 Architectural Coating - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0142	0.4255	0.1115	1.0400e-003	0.0256	2.0000e-003	0.0276	7.3700e-003	1.9200e-003	9.2900e-003		110.8099	110.8099	6.7600e-003		110.9789
Worker	0.0736	0.0524	0.7006	1.8900e-003	0.1788	1.4900e-003	0.1803	0.0474	1.3800e-003	0.0488		188.1781	188.1781	5.9300e-003		188.3264
Total	0.0879	0.4779	0.8120	2.9300e-003	0.2045	3.4900e-003	0.2080	0.0548	3.3000e-003	0.0581		298.9879	298.9879	0.0127		299.3053

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	7.0567					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.6212	4.6722	5.9409	9.6000e-003		0.2624	0.2624		0.2615	0.2615		913.1480	913.1480	0.1041		915.7505
Total	7.6779	4.6722	5.9409	9.6000e-003		0.2624	0.2624		0.2615	0.2615		913.1480	913.1480	0.1041		915.7505

Covina Hassen Site A - Los Angeles-South Coast County, Summer

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0122	0.3884	0.1015	1.0300e-003	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		109.9523	109.9523	6.4800e-003		110.1142
Worker	0.0686	0.0471	0.6444	1.8300e-003	0.1788	1.4500e-003	0.1803	0.0474	1.3300e-003	0.0488		182.2032	182.2032	5.3700e-003		182.3374
Total	0.0807	0.4355	0.7460	2.8600e-003	0.2045	2.2400e-003	0.2067	0.0548	2.0900e-003	0.0569		292.1554	292.1554	0.0119		292.4516

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	7.0567					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.6212	4.6722	5.9409	9.6000e-003		0.2624	0.2624		0.2615	0.2615	0.0000	913.1480	913.1480	0.1041		915.7505
Total	7.6779	4.6722	5.9409	9.6000e-003		0.2624	0.2624		0.2615	0.2615	0.0000	913.1480	913.1480	0.1041		915.7505

Covina Hassen Site A - Los Angeles-South Coast County, Summer

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0122	0.3884	0.1015	1.0300e-003	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		109.9523	109.9523	6.4800e-003		110.1142
Worker	0.0686	0.0471	0.6444	1.8300e-003	0.1788	1.4500e-003	0.1803	0.0474	1.3300e-003	0.0488		182.2032	182.2032	5.3700e-003		182.3374
Total	0.0807	0.4355	0.7460	2.8600e-003	0.2045	2.2400e-003	0.2067	0.0548	2.0900e-003	0.0569		292.1554	292.1554	0.0119		292.4516

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Improve Pedestrian Network

Covina Hassen Site A - Los Angeles-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.5970	15.8757	40.9557	0.1349	10.3744	0.1128	10.4871	2.7765	0.1052	2.8817		13,717.9852	13,717.9852	0.7458		13,736.6309
Unmitigated	3.7516	16.8399	44.9537	0.1501	11.6435	0.1249	11.7684	3.1161	0.1166	3.2327		15,263.7506	15,263.7506	0.8186		15,284.2162

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	935.41	912.87	779.24	3,109,198	2,770,296
Enclosed Parking with Elevator	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	483.17	601.81	500.99	685,046	610,376
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	576.45	674.60	340.74	1,204,267	1,073,002
Total	1,995.03	2,189.27	1,620.97	4,998,511	4,453,673

4.3 Trip Type Information

Covina Hassen Site A - Los Angeles-South Coast County, Summer

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
High Turnover (Sit Down Restaurant)	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
Enclosed Parking with Elevator	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
High Turnover (Sit Down Restaurant)	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
Other Asphalt Surfaces	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
Parking Lot	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
Regional Shopping Center	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

Covina Hassen Site A - Los Angeles-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1083	0.9397	0.5000	5.9100e-003		0.0748	0.0748		0.0748	0.0748		1,181.1295	1,181.1295	0.0226	0.0217	1,188.1483
NaturalGas Unmitigated	0.1083	0.9397	0.5000	5.9100e-003		0.0748	0.0748		0.0748	0.0748		1,181.1295	1,181.1295	0.0226	0.0217	1,188.1483

Covina Hassen Site A - Los Angeles-South Coast County, Summer

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	7576.51	0.0817	0.6982	0.2971	4.4600e-003		0.0565	0.0565		0.0565	0.0565		891.3541	891.3541	0.0171	0.0163	896.6510
Enclosed Parking with Elevator	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
High Turnover (Sit Down Restaurant)	2402.43	0.0259	0.2355	0.1979	1.4100e-003		0.0179	0.0179		0.0179	0.0179		282.6392	282.6392	5.4200e-003	5.1800e-003	284.3188
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	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
Regional Shopping Center	60.6575	6.5000e-004	5.9500e-003	5.0000e-003	4.0000e-005		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004		7.1362	7.1362	1.4000e-004	1.3000e-004	7.1786
Total		0.1083	0.9397	0.5000	5.9100e-003		0.0748	0.0748		0.0748	0.0748		1,181.1295	1,181.1295	0.0226	0.0217	1,188.1483

Covina Hassen Site A - Los Angeles-South Coast County, Summer

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	7.57651	0.0817	0.6982	0.2971	4.4600e-003		0.0565	0.0565		0.0565	0.0565		891.3541	891.3541	0.0171	0.0163	896.6510
Enclosed Parking with Elevator	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
High Turnover (Sit Down Restaurant)	2.40243	0.0259	0.2355	0.1979	1.4100e-003		0.0179	0.0179		0.0179	0.0179		282.6392	282.6392	5.4200e-003	5.1800e-003	284.3188
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	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
Regional Shopping Center	0.0606575	6.5000e-004	5.9500e-003	5.0000e-003	4.0000e-005		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004		7.1362	7.1362	1.4000e-004	1.3000e-004	7.1786
Total		0.1083	0.9397	0.5000	5.9100e-003		0.0748	0.0748		0.0748	0.0748		1,181.1295	1,181.1295	0.0226	0.0217	1,188.1483

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior

Covina Hassen Site A - Los Angeles-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.3514	0.1541	13.3629	7.1000e-004		0.0736	0.0736		0.0736	0.0736	0.0000	24.0264	24.0264	0.0235	0.0000	24.6131
Unmitigated	4.3514	0.1541	13.3629	7.1000e-004		0.0736	0.0736		0.0736	0.0736	0.0000	24.0264	24.0264	0.0235	0.0000	24.6131

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3364					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.6069					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4081	0.1541	13.3629	7.1000e-004		0.0736	0.0736		0.0736	0.0736		24.0264	24.0264	0.0235		24.6131
Total	4.3514	0.1541	13.3629	7.1000e-004		0.0736	0.0736		0.0736	0.0736	0.0000	24.0264	24.0264	0.0235	0.0000	24.6131

Covina Hassen Site A - Los Angeles-South Coast County, Summer

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3364					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.6069					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4081	0.1541	13.3629	7.1000e-004		0.0736	0.0736		0.0736	0.0736		24.0264	24.0264	0.0235		24.6131
Total	4.3514	0.1541	13.3629	7.1000e-004		0.0736	0.0736		0.0736	0.0736	0.0000	24.0264	24.0264	0.0235	0.0000	24.6131

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Covina Hassen Site A - Los Angeles-South Coast County, Summer

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	1	50	503	0.73	CNG

Boilers

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

Equipment Type	Number
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10.1 Stationary Sources

Unmitigated/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
Equipment Type	lb/day										lb/day					
Emergency Generator - CNG (500 - 9999 HP)	4.4254	0.3409	11.5259	1.5400e-003		0.0244	0.0244		0.0244	0.0244		282.7411	282.7411	0.5912		297.5207
Total	4.4254	0.3409	11.5259	1.5400e-003		0.0244	0.0244		0.0244	0.0244		282.7411	282.7411	0.5912		297.5207

11.0 Vegetation

Covina Hassen Site A - Los Angeles-South Coast County, Winter

Covina Hassen Site A
Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	409.00	Space	1.27	163,600.00	0
Other Asphalt Surfaces	38.00	1000sqft	0.30	38,000.00	0
Parking Lot	36.00	Space	0.11	14,400.00	0
High Turnover (Sit Down Restaurant)	3.80	1000sqft	0.03	3,800.00	0
Condo/Townhouse	161.00	Dwelling Unit	3.48	161,000.00	460
Regional Shopping Center	13.50	1000sqft	0.11	13,500.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	636.97	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity factor conservatively adjusted for 2016 SCE Power Content Label assuming 28% renewables (636.97 lb/MWh).

Land Use - CalEEMod default lot acreage scaled to match total site acreage of 5.3 acres

Construction Phase - Per applicant-provided schedule assumptions

Off-road Equipment - Per applicant-provided equipment schedule

Off-road Equipment - Per applicant-provided equipment schedule

Covina Hassen Site A - Los Angeles-South Coast County, Winter

Off-road Equipment - Per applicant-provided equipment schedule

Off-road Equipment -

Off-road Equipment - Per applicant-provided equipment schedule

Off-road Equipment - Per applicant-provided equipment schedule

Off-road Equipment - Per applicant-provided equipment schedule

Trips and VMT - Per applicant-provided information

Demolition - Per applicant-provided information and based on existing build structures

Grading - Per applicant-provided material export information

Architectural Coating -

Vehicle Trips -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves - No woodstoves. No fireplaces.

Consumer Products -

Area Coating -

Landscape Equipment -

Energy Use -

Water And Wastewater - Assumed 100% Aerobic.

Solid Waste -

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -

Waste Mitigation -

Fleet Mix -

Stationary Sources - Emergency Generators and Fire Pumps - Per applicant-provided information

Covina Hassen Site A - Los Angeles-South Coast County, Winter

Stationary Sources - Emergency Generators and Fire Pumps EF -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	10.00	44.00
tblConstructionPhase	NumDays	230.00	109.00
tblConstructionPhase	NumDays	230.00	327.00
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	20.00	174.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	136.85	0.00
tblFireplaces	NumberNoFireplace	16.10	0.00
tblFireplaces	NumberWood	8.05	0.00
tblGrading	AcresOfGrading	22.00	5.30
tblGrading	MaterialExported	0.00	9,850.00
tblLandUse	LotAcreage	3.68	1.27
tblLandUse	LotAcreage	0.87	0.30
tblLandUse	LotAcreage	0.32	0.11
tblLandUse	LotAcreage	0.09	0.03
tblLandUse	LotAcreage	10.06	3.48
tblLandUse	LotAcreage	0.31	0.11
tblOffRoadEquipment	HorsePower	97.00	158.00
tblOffRoadEquipment	HorsePower	78.00	231.00
tblOffRoadEquipment	LoadFactor	0.37	0.38

Covina Hassen Site A - Los Angeles-South Coast County, Winter

tblOffRoadEquipment	LoadFactor	0.50	0.29
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Site Preparation and Grading
tblOffRoadEquipment	PhaseName		Site Preparation and Grading
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	636.97
tblTripsAndVMT	HaulingTripNumber	1,231.00	616.00
tblTripsAndVMT	VendorTripNumber	55.00	0.00
tblTripsAndVMT	VendorTripNumber	55.00	20.00
tblTripsAndVMT	VendorTripNumber	0.00	12.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00

Covina Hassen Site A - Los Angeles-South Coast County, Winter

tblTripsAndVMT	WorkerTripNumber	8.00	20.00
tblTripsAndVMT	WorkerTripNumber	20.00	24.00
tblTripsAndVMT	WorkerTripNumber	213.00	12.00
tblTripsAndVMT	WorkerTripNumber	213.00	50.00
tblTripsAndVMT	WorkerTripNumber	10.00	16.00
tblTripsAndVMT	WorkerTripNumber	43.00	16.00
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	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
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	8.05	0.00
tblWoodstoves	NumberNoncatalytic	8.05	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00

Covina Hassen Site A - Los Angeles-South Coast County, Winter

tblWoodstoves	WoodstoveWoodMass	999.60	0.00
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2.0 Emissions Summary

Covina Hassen Site A - Los Angeles-South Coast County, Winter

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	3.9828	44.8652	22.6154	0.0519	12.7146	2.0044	14.7190	6.7774	1.8447	8.6221	0.0000	5,246.1362	5,246.1362	1.2926	0.0000	5,278.4517
2020	12.1085	94.3662	63.7935	0.1326	21.4904	4.4759	25.9664	8.9506	4.1946	13.1452	0.0000	12,876.2286	12,876.2286	2.8251	0.0000	12,946.8558
2021	11.6053	36.8128	36.0719	0.0707	0.8914	1.7830	2.6744	0.2399	1.7253	1.9652	0.0000	6,748.8019	6,748.8019	0.9664	0.0000	6,772.9622
Maximum	12.1085	94.3662	63.7935	0.1326	21.4904	4.4759	25.9664	8.9506	4.1946	13.1452	0.0000	12,876.2286	12,876.2286	2.8251	0.0000	12,946.8558

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	3.9828	44.8652	22.6154	0.0519	5.2743	2.0044	7.2787	2.7281	1.8447	4.5728	0.0000	5,246.1362	5,246.1362	1.2926	0.0000	5,278.4517
2020	12.1085	94.3662	63.7935	0.1326	14.0501	4.4759	18.5260	4.9013	4.1946	9.0960	0.0000	12,876.2286	12,876.2286	2.8251	0.0000	12,946.8557
2021	11.6053	36.8128	36.0719	0.0707	0.8914	1.7830	2.6744	0.2399	1.7253	1.9652	0.0000	6,748.8019	6,748.8019	0.9664	0.0000	6,772.9622
Maximum	12.1085	94.3662	63.7935	0.1326	14.0501	4.4759	18.5260	4.9013	4.1946	9.0960	0.0000	12,876.2286	12,876.2286	2.8251	0.0000	12,946.8557

Covina Hassen Site A - Los Angeles-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	42.40	0.00	34.32	50.72	0.00	34.12	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.3514	0.1541	13.3629	7.1000e-004		0.0736	0.0736		0.0736	0.0736	0.0000	24.0264	24.0264	0.0235	0.0000	24.6131
Energy	0.1083	0.9397	0.5000	5.9100e-003		0.0748	0.0748		0.0748	0.0748		1,181.1295	1,181.1295	0.0226	0.0217	1,188.1483
Mobile	3.6435	17.1749	43.2389	0.1426	11.6435	0.1258	11.7693	3.1161	0.1174	3.2335		14,512.1234	14,512.1234	0.8206		14,532.6381
Stationary	4.4254	0.3409	11.5259	1.5400e-003		0.0244	0.0244		0.0244	0.0244		282.7411	282.7411	0.5912		297.5207
Total	12.5285	18.6096	68.6276	0.1508	11.6435	0.2985	11.9421	3.1161	0.2902	3.4063	0.0000	16,000.0204	16,000.0204	1.4579	0.0217	16,042.9203

Covina Hassen Site A - Los Angeles-South Coast County, Winter

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.3514	0.1541	13.3629	7.1000e-004		0.0736	0.0736		0.0736	0.0736	0.0000	24.0264	24.0264	0.0235	0.0000	24.6131
Energy	0.1083	0.9397	0.5000	5.9100e-003		0.0748	0.0748		0.0748	0.0748		1,181.1295	1,181.1295	0.0226	0.0217	1,188.1483
Mobile	3.4927	16.1540	39.6120	0.1281	10.3744	0.1136	10.4880	2.7765	0.1061	2.8825		13,037.4433	13,037.4433	0.7497		13,056.1865
Stationary	4.4254	0.3409	11.5259	1.5400e-003		0.0244	0.0244		0.0244	0.0244		282.7411	282.7411	0.5912		297.5207
Total	12.3778	17.5887	65.0007	0.1363	10.3744	0.2864	10.6608	2.7765	0.2788	3.0553	0.0000	14,525.3402	14,525.3402	1.3870	0.0217	14,566.4686

	ROG	NOx	CO	SO2	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	1.20	5.49	5.28	9.62	10.90	4.07	10.73	10.90	3.91	10.30	0.00	9.22	9.22	4.86	0.00	9.20

3.0 Construction Detail

Construction Phase

Covina Hassen Site A - Los Angeles-South Coast County, Winter

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/1/2019	10/1/2019	5	44	
2	Site Preparation and Grading	Site Preparation	11/1/2019	1/1/2020	5	44	
3	Trenching	Building Construction	1/1/2020	6/1/2020	5	109	
4	Building Construction	Building Construction	1/1/2020	4/1/2021	5	327	
5	Paving	Paving	6/1/2020	7/31/2020	5	45	
6	Architectural Coating	Architectural Coating	8/3/2020	4/1/2021	5	174	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 1.68

Residential Indoor: 326,025; Residential Outdoor: 108,675; Non-Residential Indoor: 25,950; Non-Residential Outdoor: 8,650; Striped Parking Area: 12,960 (Architectural Coating – sqft)

OffRoad Equipment

Covina Hassen Site A - Los Angeles-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	8.00	158	0.38
Site Preparation and Grading	Excavators	1	8.00	158	0.38
Site Preparation and Grading	Graders	1	8.00	187	0.41
Site Preparation and Grading	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation and Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Trenching	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Trenching	Trenchers	2	8.00	231	0.29
Building Construction	Air Compressors	2	8.00	78	0.48
Building Construction	Cranes	2	8.00	231	0.29
Building Construction	Forklifts	1	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Surfacing Equipment	1	8.00	263	0.30
Architectural Coating	Aerial Lifts	1	8.00	63	0.31
Architectural Coating	Air Compressors	2	8.00	78	0.48

Trips and VMT

Covina Hassen Site A - Los Angeles-South Coast County, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	3	20.00	0.00	334.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation and Grading	8	24.00	0.00	616.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	5	12.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	12	50.00	20.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	4	16.00	12.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	3	16.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.6411	0.0000	1.6411	0.2485	0.0000	0.2485			0.0000			0.0000
Off-Road	1.7074	17.9708	10.8951	0.0188		0.8854	0.8854		0.8146	0.8146		1,857.5803	1,857.5803	0.5877		1,872.2733
Total	1.7074	17.9708	10.8951	0.0188	1.6411	0.8854	2.5265	0.2485	0.8146	1.0631		1,857.5803	1,857.5803	0.5877		1,872.2733

Covina Hassen Site A - Los Angeles-South Coast County, Winter

3.2 Demolition - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0731	2.3560	0.5292	5.9600e-003	0.1327	8.6900e-003	0.1414	0.0364	8.3200e-003	0.0447		645.1132	645.1132	0.0469		646.2861
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1108	0.0813	0.8850	2.2900e-003	0.2236	1.9300e-003	0.2255	0.0593	1.7800e-003	0.0611		228.4262	228.4262	7.8600e-003		228.6226
Total	0.1839	2.4373	1.4142	8.2500e-003	0.3563	0.0106	0.3669	0.0957	0.0101	0.1058		873.5393	873.5393	0.0548		874.9087

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.6400	0.0000	0.6400	0.0969	0.0000	0.0969			0.0000			0.0000
Off-Road	1.7074	17.9708	10.8951	0.0188		0.8854	0.8854		0.8146	0.8146	0.0000	1,857.5803	1,857.5803	0.5877		1,872.2733
Total	1.7074	17.9708	10.8951	0.0188	0.6400	0.8854	1.5254	0.0969	0.8146	0.9115	0.0000	1,857.5803	1,857.5803	0.5877		1,872.2733

Covina Hassen Site A - Los Angeles-South Coast County, Winter

3.2 Demolition - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0731	2.3560	0.5292	5.9600e-003	0.1327	8.6900e-003	0.1414	0.0364	8.3200e-003	0.0447		645.1132	645.1132	0.0469		646.2861
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1108	0.0813	0.8850	2.2900e-003	0.2236	1.9300e-003	0.2255	0.0593	1.7800e-003	0.0611		228.4262	228.4262	7.8600e-003		228.6226
Total	0.1839	2.4373	1.4142	8.2500e-003	0.3563	0.0106	0.3669	0.0957	0.0101	0.1058		873.5393	873.5393	0.0548		874.9087

3.3 Site Preparation and Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					12.1972	0.0000	12.1972	6.6381	0.0000	6.6381			0.0000			0.0000
Off-Road	3.7151	40.4224	20.5775	0.0382		1.9861	1.9861		1.8272	1.8272		3,782.2353	3,782.2353	1.1967		3,812.1517
Total	3.7151	40.4224	20.5775	0.0382	12.1972	1.9861	14.1833	6.6381	1.8272	8.4653		3,782.2353	3,782.2353	1.1967		3,812.1517

Covina Hassen Site A - Los Angeles-South Coast County, Winter

3.3 Site Preparation and Grading - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1349	4.3452	0.9760	0.0110	0.2491	0.0160	0.2651	0.0682	0.0153	0.0835		1,189.7896	1,189.7896	0.0865		1,191.9528
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1329	0.0976	1.0619	2.7500e-003	0.2683	2.3100e-003	0.2706	0.0711	2.1300e-003	0.0733		274.1114	274.1114	9.4300e-003		274.3471
Total	0.2678	4.4428	2.0380	0.0138	0.5173	0.0183	0.5357	0.1393	0.0175	0.1568		1,463.9010	1,463.9010	0.0960		1,466.2999

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.7569	0.0000	4.7569	2.5889	0.0000	2.5889			0.0000			0.0000
Off-Road	3.7151	40.4224	20.5775	0.0382		1.9861	1.9861		1.8272	1.8272	0.0000	3,782.2353	3,782.2353	1.1967		3,812.1517
Total	3.7151	40.4224	20.5775	0.0382	4.7569	1.9861	6.7430	2.5889	1.8272	4.4161	0.0000	3,782.2353	3,782.2353	1.1967		3,812.1517

Covina Hassen Site A - Los Angeles-South Coast County, Winter

3.3 Site Preparation and Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1349	4.3452	0.9760	0.0110	0.2491	0.0160	0.2651	0.0682	0.0153	0.0835		1,189.7896	1,189.7896	0.0865		1,191.9528
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1329	0.0976	1.0619	2.7500e-003	0.2683	2.3100e-003	0.2706	0.0711	2.1300e-003	0.0733		274.1114	274.1114	9.4300e-003		274.3471
Total	0.2678	4.4428	2.0380	0.0138	0.5173	0.0183	0.5357	0.1393	0.0175	0.1568		1,463.9010	1,463.9010	0.0960		1,466.2999

3.3 Site Preparation and Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					12.1972	0.0000	12.1972	6.6381	0.0000	6.6381			0.0000			0.0000
Off-Road	3.5083	37.7181	20.1846	0.0382		1.8284	1.8284		1.6821	1.6821		3,699.8276	3,699.8276	1.1966		3,729.7426
Total	3.5083	37.7181	20.1846	0.0382	12.1972	1.8284	14.0256	6.6381	1.6821	8.3202		3,699.8276	3,699.8276	1.1966		3,729.7426

Covina Hassen Site A - Los Angeles-South Coast County, Winter

3.3 Site Preparation and Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1253	4.0777	0.9480	0.0109	8.2039	0.0131	8.2169	2.0207	0.0125	2.0332		1,177.5317	1,177.5317	0.0845		1,179.6447
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1227	0.0870	0.9624	2.6700e-003	0.2683	2.2400e-003	0.2705	0.0711	2.0700e-003	0.0732		265.7809	265.7809	8.3800e-003		265.9903
Total	0.2479	4.1647	1.9104	0.0135	8.4722	0.0153	8.4875	2.0918	0.0146	2.1064		1,443.3126	1,443.3126	0.0929		1,445.6350

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.7569	0.0000	4.7569	2.5889	0.0000	2.5889			0.0000			0.0000
Off-Road	3.5083	37.7181	20.1846	0.0382		1.8284	1.8284		1.6821	1.6821	0.0000	3,699.8276	3,699.8276	1.1966		3,729.7426
Total	3.5083	37.7181	20.1846	0.0382	4.7569	1.8284	6.5853	2.5889	1.6821	4.2710	0.0000	3,699.8276	3,699.8276	1.1966		3,729.7426

Covina Hassen Site A - Los Angeles-South Coast County, Winter

3.3 Site Preparation and Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1253	4.0777	0.9480	0.0109	8.2039	0.0131	8.2169	2.0207	0.0125	2.0332		1,177.5317	1,177.5317	0.0845		1,179.6447
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1227	0.0870	0.9624	2.6700e-003	0.2683	2.2400e-003	0.2705	0.0711	2.0700e-003	0.0732		265.7809	265.7809	8.3800e-003		265.9903
Total	0.2479	4.1647	1.9104	0.0135	8.4722	0.0153	8.4875	2.0918	0.0146	2.1064		1,443.3126	1,443.3126	0.0929		1,445.6350

3.4 Trenching - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5548	17.6794	11.0312	0.0209		0.8598	0.8598		0.7911	0.7911		2,021.4120	2,021.4120	0.6538		2,037.7562
Total	1.5548	17.6794	11.0312	0.0209		0.8598	0.8598		0.7911	0.7911		2,021.4120	2,021.4120	0.6538		2,037.7562

Covina Hassen Site A - Los Angeles-South Coast County, Winter

3.4 Trenching - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0613	0.0435	0.4812	1.3300e-003	0.1341	1.1200e-003	0.1353	0.0356	1.0300e-003	0.0366		132.8905	132.8905	4.1900e-003		132.9952
Total	0.0613	0.0435	0.4812	1.3300e-003	0.1341	1.1200e-003	0.1353	0.0356	1.0300e-003	0.0366		132.8905	132.8905	4.1900e-003		132.9952

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5548	17.6794	11.0312	0.0209		0.8598	0.8598		0.7911	0.7911	0.0000	2,021.4120	2,021.4120	0.6538		2,037.7562
Total	1.5548	17.6794	11.0312	0.0209		0.8598	0.8598		0.7911	0.7911	0.0000	2,021.4120	2,021.4120	0.6538		2,037.7562

Covina Hassen Site A - Los Angeles-South Coast County, Winter

3.4 Trenching - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0613	0.0435	0.4812	1.3300e-003	0.1341	1.1200e-003	0.1353	0.0356	1.0300e-003	0.0366		132.8905	132.8905	4.1900e-003		132.9952
Total	0.0613	0.0435	0.4812	1.3300e-003	0.1341	1.1200e-003	0.1353	0.0356	1.0300e-003	0.0366		132.8905	132.8905	4.1900e-003		132.9952

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.9400	32.4523	27.5663	0.0480		1.7564	1.7564		1.6918	1.6918		4,486.1776	4,486.1776	0.8242		4,506.7813
Total	3.9400	32.4523	27.5663	0.0480		1.7564	1.7564		1.6918	1.6918		4,486.1776	4,486.1776	0.8242		4,506.7813

Covina Hassen Site A - Los Angeles-South Coast County, Winter

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0744	2.1270	0.6148	5.0500e-003	0.1280	0.0102	0.1382	0.0369	9.7300e-003	0.0466		538.8981	538.8981	0.0360		539.7990
Worker	0.2555	0.1812	2.0051	5.5600e-003	0.5589	4.6700e-003	0.5636	0.1482	4.3000e-003	0.1525		553.7102	553.7102	0.0175		554.1465
Total	0.3299	2.3083	2.6198	0.0106	0.6869	0.0148	0.7018	0.1851	0.0140	0.1991		1,092.6083	1,092.6083	0.0535		1,093.9455

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.9400	32.4523	27.5663	0.0480		1.7564	1.7564		1.6918	1.6918	0.0000	4,486.1776	4,486.1776	0.8242		4,506.7813
Total	3.9400	32.4523	27.5663	0.0480		1.7564	1.7564		1.6918	1.6918	0.0000	4,486.1776	4,486.1776	0.8242		4,506.7813

Covina Hassen Site A - Los Angeles-South Coast County, Winter

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0744	2.1270	0.6148	5.0500e-003	0.1280	0.0102	0.1382	0.0369	9.7300e-003	0.0466		538.8981	538.8981	0.0360		539.7990
Worker	0.2555	0.1812	2.0051	5.5600e-003	0.5589	4.6700e-003	0.5636	0.1482	4.3000e-003	0.1525		553.7102	553.7102	0.0175		554.1465
Total	0.3299	2.3083	2.6198	0.0106	0.6869	0.0148	0.7018	0.1851	0.0140	0.1991		1,092.6083	1,092.6083	0.0535		1,093.9455

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.5362	29.6000	27.0267	0.0480		1.5098	1.5098		1.4537	1.4537		4,486.3390	4,486.3390	0.8001		4,506.3406
Total	3.5362	29.6000	27.0267	0.0480		1.5098	1.5098		1.4537	1.4537		4,486.3390	4,486.3390	0.8001		4,506.3406

Covina Hassen Site A - Los Angeles-South Coast County, Winter

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0638	1.9378	0.5615	5.0000e-003	0.1280	4.1000e-003	0.1321	0.0369	3.9200e-003	0.0408		534.6911	534.6911	0.0345		535.5540
Worker	0.2384	0.1631	1.8413	5.3800e-003	0.5589	4.5200e-003	0.5634	0.1482	4.1600e-003	0.1524		536.1256	536.1256	0.0158		536.5200
Total	0.3022	2.1008	2.4028	0.0104	0.6869	8.6200e-003	0.6955	0.1851	8.0800e-003	0.1932		1,070.8166	1,070.8166	0.0503		1,072.0740

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.5362	29.6000	27.0267	0.0480		1.5098	1.5098		1.4537	1.4537	0.0000	4,486.3390	4,486.3390	0.8001		4,506.3406
Total	3.5362	29.6000	27.0267	0.0480		1.5098	1.5098		1.4537	1.4537	0.0000	4,486.3390	4,486.3390	0.8001		4,506.3406

Covina Hassen Site A - Los Angeles-South Coast County, Winter

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0638	1.9378	0.5615	5.0000e-003	0.1280	4.1000e-003	0.1321	0.0369	3.9200e-003	0.0408		534.6911	534.6911	0.0345		535.5540
Worker	0.2384	0.1631	1.8413	5.3800e-003	0.5589	4.5200e-003	0.5634	0.1482	4.1600e-003	0.1524		536.1256	536.1256	0.0158		536.5200
Total	0.3022	2.1008	2.4028	0.0104	0.6869	8.6200e-003	0.6955	0.1851	8.0800e-003	0.1932		1,070.8166	1,070.8166	0.0503		1,072.0740

3.6 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8808	9.5898	9.0224	0.0182		0.4694	0.4694		0.4319	0.4319		1,760.1715	1,760.1715	0.5693		1,774.4034
Paving	0.0239					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9047	9.5898	9.0224	0.0182		0.4694	0.4694		0.4319	0.4319		1,760.1715	1,760.1715	0.5693		1,774.4034

Covina Hassen Site A - Los Angeles-South Coast County, Winter

3.6 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0446	1.2762	0.3689	3.0300e-003	0.0768	6.1000e-003	0.0829	0.0221	5.8400e-003	0.0280		323.3389	323.3389	0.0216		323.8794
Worker	0.0818	0.0580	0.6416	1.7800e-003	0.1788	1.4900e-003	0.1803	0.0474	1.3800e-003	0.0488		177.1873	177.1873	5.5800e-003		177.3269
Total	0.1264	1.3342	1.0105	4.8100e-003	0.2557	7.5900e-003	0.2633	0.0696	7.2200e-003	0.0768		500.5261	500.5261	0.0272		501.2063

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8808	9.5898	9.0224	0.0182		0.4694	0.4694		0.4319	0.4319	0.0000	1,760.1715	1,760.1715	0.5693		1,774.4034
Paving	0.0239					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9047	9.5898	9.0224	0.0182		0.4694	0.4694		0.4319	0.4319	0.0000	1,760.1715	1,760.1715	0.5693		1,774.4034

Covina Hassen Site A - Los Angeles-South Coast County, Winter

3.6 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0446	1.2762	0.3689	3.0300e-003	0.0768	6.1000e-003	0.0829	0.0221	5.8400e-003	0.0280		323.3389	323.3389	0.0216		323.8794
Worker	0.0818	0.0580	0.6416	1.7800e-003	0.1788	1.4900e-003	0.1803	0.0474	1.3800e-003	0.0488		177.1873	177.1873	5.5800e-003		177.3269
Total	0.1264	1.3342	1.0105	4.8100e-003	0.2557	7.5900e-003	0.2633	0.0696	7.2200e-003	0.0768		500.5261	500.5261	0.0272		501.2063

3.7 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	7.0567					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.6854	5.1339	5.9780	9.6000e-003		0.3102	0.3102		0.3090	0.3090		913.1480	913.1480	0.1107		915.9156
Total	7.7420	5.1339	5.9780	9.6000e-003		0.3102	0.3102		0.3090	0.3090		913.1480	913.1480	0.1107		915.9156

Covina Hassen Site A - Los Angeles-South Coast County, Winter

3.7 Architectural Coating - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0149	0.4254	0.1230	1.0100e-003	0.0256	2.0300e-003	0.0276	7.3700e-003	1.9500e-003	9.3200e-003		107.7796	107.7796	7.2100e-003		107.9598
Worker	0.0818	0.0580	0.6416	1.7800e-003	0.1788	1.4900e-003	0.1803	0.0474	1.3800e-003	0.0488		177.1873	177.1873	5.5800e-003		177.3269
Total	0.0966	0.4834	0.7646	2.7900e-003	0.2045	3.5200e-003	0.2080	0.0548	3.3300e-003	0.0581		284.9669	284.9669	0.0128		285.2867

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	7.0567					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.6854	5.1339	5.9780	9.6000e-003		0.3102	0.3102		0.3090	0.3090	0.0000	913.1480	913.1480	0.1107		915.9156
Total	7.7420	5.1339	5.9780	9.6000e-003		0.3102	0.3102		0.3090	0.3090	0.0000	913.1480	913.1480	0.1107		915.9156

Covina Hassen Site A - Los Angeles-South Coast County, Winter

3.7 Architectural Coating - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0149	0.4254	0.1230	1.0100e-003	0.0256	2.0300e-003	0.0276	7.3700e-003	1.9500e-003	9.3200e-003		107.7796	107.7796	7.2100e-003		107.9598
Worker	0.0818	0.0580	0.6416	1.7800e-003	0.1788	1.4900e-003	0.1803	0.0474	1.3800e-003	0.0488		177.1873	177.1873	5.5800e-003		177.3269
Total	0.0966	0.4834	0.7646	2.7900e-003	0.2045	3.5200e-003	0.2080	0.0548	3.3300e-003	0.0581		284.9669	284.9669	0.0128		285.2867

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	7.0567					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.6212	4.6722	5.9409	9.6000e-003		0.2624	0.2624		0.2615	0.2615		913.1480	913.1480	0.1041		915.7505
Total	7.6779	4.6722	5.9409	9.6000e-003		0.2624	0.2624		0.2615	0.2615		913.1480	913.1480	0.1041		915.7505

Covina Hassen Site A - Los Angeles-South Coast County, Winter

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0128	0.3876	0.1123	1.0000e-003	0.0256	8.2000e-004	0.0264	7.3700e-003	7.8000e-004	8.1600e-003		106.9382	106.9382	6.9000e-003		107.1108
Worker	0.0763	0.0522	0.5892	1.7200e-003	0.1788	1.4500e-003	0.1803	0.0474	1.3300e-003	0.0488		171.5602	171.5602	5.0500e-003		171.6864
Total	0.0891	0.4397	0.7015	2.7200e-003	0.2045	2.2700e-003	0.2067	0.0548	2.1100e-003	0.0569		278.4984	278.4984	0.0120		278.7972

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	7.0567					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.6212	4.6722	5.9409	9.6000e-003		0.2624	0.2624		0.2615	0.2615	0.0000	913.1480	913.1480	0.1041		915.7505
Total	7.6779	4.6722	5.9409	9.6000e-003		0.2624	0.2624		0.2615	0.2615	0.0000	913.1480	913.1480	0.1041		915.7505

Covina Hassen Site A - Los Angeles-South Coast County, Winter

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0128	0.3876	0.1123	1.0000e-003	0.0256	8.2000e-004	0.0264	7.3700e-003	7.8000e-004	8.1600e-003		106.9382	106.9382	6.9000e-003		107.1108
Worker	0.0763	0.0522	0.5892	1.7200e-003	0.1788	1.4500e-003	0.1803	0.0474	1.3300e-003	0.0488		171.5602	171.5602	5.0500e-003		171.6864
Total	0.0891	0.4397	0.7015	2.7200e-003	0.2045	2.2700e-003	0.2067	0.0548	2.1100e-003	0.0569		278.4984	278.4984	0.0120		278.7972

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Improve Pedestrian Network

Covina Hassen Site A - Los Angeles-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.4927	16.1540	39.6120	0.1281	10.3744	0.1136	10.4880	2.7765	0.1061	2.8825		13,037.44 33	13,037.44 33	0.7497		13,056.18 65
Unmitigated	3.6435	17.1749	43.2389	0.1426	11.6435	0.1258	11.7693	3.1161	0.1174	3.2335		14,512.12 34	14,512.12 34	0.8206		14,532.63 81

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	935.41	912.87	779.24	3,109,198	2,770,296
Enclosed Parking with Elevator	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	483.17	601.81	500.99	685,046	610,376
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	576.45	674.60	340.74	1,204,267	1,073,002
Total	1,995.03	2,189.27	1,620.97	4,998,511	4,453,673

4.3 Trip Type Information

Covina Hassen Site A - Los Angeles-South Coast County, Winter

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
High Turnover (Sit Down Restaurant)	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
Enclosed Parking with Elevator	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
High Turnover (Sit Down Restaurant)	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
Other Asphalt Surfaces	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
Parking Lot	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
Regional Shopping Center	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

Covina Hassen Site A - Los Angeles-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1083	0.9397	0.5000	5.9100e-003		0.0748	0.0748		0.0748	0.0748		1,181.1295	1,181.1295	0.0226	0.0217	1,188.1483
NaturalGas Unmitigated	0.1083	0.9397	0.5000	5.9100e-003		0.0748	0.0748		0.0748	0.0748		1,181.1295	1,181.1295	0.0226	0.0217	1,188.1483

Covina Hassen Site A - Los Angeles-South Coast County, Winter

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	7576.51	0.0817	0.6982	0.2971	4.4600e-003		0.0565	0.0565		0.0565	0.0565		891.3541	891.3541	0.0171	0.0163	896.6510
Enclosed Parking with Elevator	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
High Turnover (Sit Down Restaurant)	2402.43	0.0259	0.2355	0.1979	1.4100e-003		0.0179	0.0179		0.0179	0.0179		282.6392	282.6392	5.4200e-003	5.1800e-003	284.3188
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	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
Regional Shopping Center	60.6575	6.5000e-004	5.9500e-003	5.0000e-003	4.0000e-005		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004		7.1362	7.1362	1.4000e-004	1.3000e-004	7.1786
Total		0.1083	0.9397	0.5000	5.9100e-003		0.0748	0.0748		0.0748	0.0748		1,181.1295	1,181.1295	0.0226	0.0217	1,188.1483

Covina Hassen Site A - Los Angeles-South Coast County, Winter

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	7.57651	0.0817	0.6982	0.2971	4.4600e-003		0.0565	0.0565		0.0565	0.0565		891.3541	891.3541	0.0171	0.0163	896.6510
Enclosed Parking with Elevator	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
High Turnover (Sit Down Restaurant)	2.40243	0.0259	0.2355	0.1979	1.4100e-003		0.0179	0.0179		0.0179	0.0179		282.6392	282.6392	5.4200e-003	5.1800e-003	284.3188
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	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
Regional Shopping Center	0.0606575	6.5000e-004	5.9500e-003	5.0000e-003	4.0000e-005		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004		7.1362	7.1362	1.4000e-004	1.3000e-004	7.1786
Total		0.1083	0.9397	0.5000	5.9100e-003		0.0748	0.0748		0.0748	0.0748		1,181.1295	1,181.1295	0.0226	0.0217	1,188.1483

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior

Covina Hassen Site A - Los Angeles-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.3514	0.1541	13.3629	7.1000e-004		0.0736	0.0736		0.0736	0.0736	0.0000	24.0264	24.0264	0.0235	0.0000	24.6131
Unmitigated	4.3514	0.1541	13.3629	7.1000e-004		0.0736	0.0736		0.0736	0.0736	0.0000	24.0264	24.0264	0.0235	0.0000	24.6131

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3364					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.6069					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4081	0.1541	13.3629	7.1000e-004		0.0736	0.0736		0.0736	0.0736		24.0264	24.0264	0.0235		24.6131
Total	4.3514	0.1541	13.3629	7.1000e-004		0.0736	0.0736		0.0736	0.0736	0.0000	24.0264	24.0264	0.0235	0.0000	24.6131

Covina Hassen Site A - Los Angeles-South Coast County, Winter

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3364					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.6069					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4081	0.1541	13.3629	7.1000e-004		0.0736	0.0736		0.0736	0.0736		24.0264	24.0264	0.0235		24.6131
Total	4.3514	0.1541	13.3629	7.1000e-004		0.0736	0.0736		0.0736	0.0736	0.0000	24.0264	24.0264	0.0235	0.0000	24.6131

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Covina Hassen Site A - Los Angeles-South Coast County, Winter

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	1	50	503	0.73	CNG

Boilers

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

Equipment Type	Number
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10.1 Stationary Sources

Unmitigated/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
Equipment Type	lb/day										lb/day					
Emergency Generator - CNG (500 - 9999 HP)	4.4254	0.3409	11.5259	1.5400e-003		0.0244	0.0244		0.0244	0.0244		282.7411	282.7411	0.5912		297.5207
Total	4.4254	0.3409	11.5259	1.5400e-003		0.0244	0.0244		0.0244	0.0244		282.7411	282.7411	0.5912		297.5207

11.0 Vegetation