
APPENDIX L

**AIR QUALITY AND GREENHOUSE GAS EMISSIONS
CALCULATIONS**

Chadwick Estates - Los Angeles-South Coast County, Summer

Chadwick Estates
Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	14.00	Dwelling Unit	4.55	25,200.00	40

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2026
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Chadwick Estates - Los Angeles-South Coast County, Summer

Project Characteristics -

Land Use -

Construction Phase - Construction schedule developed from client information

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Estimated by need

Off-road Equipment -

Grading - Data provided by client

Vehicle Trips - Rates were changed to fit Estate Housing trip rates as presented in San Diego Trip Generation Manual

Woodstoves - Residences assumed to be equipped with NG fireplaces

Off-road Equipment - Estimated by need

Off-road Equipment -

Off-road Equipment -

Architectural Coating -

Construction Off-road Equipment Mitigation - Per SCAQMD Mitigation Measure Table XI-C for local streets

Chadwick Estates - Los Angeles-South Coast County, Summer

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	16
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	230.00	217.00
tblConstructionPhase	NumDays	8.00	250.00
tblConstructionPhase	NumDays	8.00	90.00
tblConstructionPhase	NumDays	18.00	90.00
tblFireplaces	NumberGas	11.90	14.00
tblFireplaces	NumberNoFireplace	1.40	0.00
tblFireplaces	NumberWood	0.70	0.00
tblGrading	AcresOfGrading	250.00	44.40
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblTripsAndVMT	WorkerTripNumber	20.00	15.00
tblVehicleTrips	ST_TR	9.91	12.49
tblVehicleTrips	SU_TR	8.62	10.67
tblVehicleTrips	WD_TR	9.52	12.00
tblWoodstoves	NumberCatalytic	0.70	0.00
tblWoodstoves	NumberNoncatalytic	0.70	0.00

2.0 Emissions Summary

Chadwick Estates - 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					
2022	6.6012	65.3599	45.5583	0.1103	19.3214	2.8160	22.1373	10.1506	2.5921	12.7426	0.0000	10,677.84 49	10,677.84 49	3.2842	0.0000	10,759.94 91
2023	5.8748	56.2350	43.7104	0.1102	19.3214	2.3330	21.6544	10.1506	2.1477	12.2983	0.0000	10,661.39 73	10,661.39 73	3.2837	0.0000	10,743.48 89
2024	8.9445	13.5245	16.3474	0.0277	0.0623	0.6138	0.6761	0.0167	0.5774	0.5940	0.0000	2,633.266 5	2,633.266 5	0.6070	0.0000	2,648.440 7
Maximum	8.9445	65.3599	45.5583	0.1103	19.3214	2.8160	22.1373	10.1506	2.5921	12.7426	0.0000	10,677.84 49	10,677.84 49	3.2842	0.0000	10,759.94 91

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					
2022	6.6012	65.3599	45.5583	0.1103	7.7880	2.8160	10.6039	4.0272	2.5921	6.6193	0.0000	10,677.84 49	10,677.84 49	3.2842	0.0000	10,759.94 91
2023	5.8748	56.2350	43.7104	0.1102	7.7880	2.3330	10.1210	4.0272	2.1477	6.1749	0.0000	10,661.39 73	10,661.39 73	3.2837	0.0000	10,743.48 89
2024	8.9445	13.5245	16.3474	0.0277	0.0538	0.6138	0.6676	0.0146	0.5774	0.5919	0.0000	2,633.266 5	2,633.266 5	0.6070	0.0000	2,648.440 7
Maximum	8.9445	65.3599	45.5583	0.1103	7.7880	2.8160	10.6039	4.0272	2.5921	6.6193	0.0000	10,677.84 49	10,677.84 49	3.2842	0.0000	10,759.94 91

Chadwick Estates - Los Angeles-South Coast County, Summer

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.6040	0.2455	1.2528	1.5400e-003		0.0252	0.0252		0.0252	0.0252	0.0000	298.5503	298.5503	7.6700e-003	5.4400e-003	300.3619
Energy	0.0114	0.0971	0.0413	6.2000e-004		7.8500e-003	7.8500e-003		7.8500e-003	7.8500e-003		123.9788	123.9788	2.3800e-003	2.2700e-003	124.7156
Mobile	0.2477	1.0967	3.3275	0.0139	1.2702	0.0101	1.2803	0.3398	9.3700e-003	0.3492		1,421.4655	1,421.4655	0.0625		1,423.0278
Total	0.8630	1.4393	4.6215	0.0161	1.2702	0.0431	1.3134	0.3398	0.0424	0.3822	0.0000	1,843.9947	1,843.9947	0.0725	7.7100e-003	1,848.1052

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.6040	0.2455	1.2528	1.5400e-003		0.0252	0.0252		0.0252	0.0252	0.0000	298.5503	298.5503	7.6700e-003	5.4400e-003	300.3619
Energy	0.0114	0.0971	0.0413	6.2000e-004		7.8500e-003	7.8500e-003		7.8500e-003	7.8500e-003		123.9788	123.9788	2.3800e-003	2.2700e-003	124.7156
Mobile	0.2477	1.0967	3.3275	0.0139	1.2702	0.0101	1.2803	0.3398	9.3700e-003	0.3492		1,421.4655	1,421.4655	0.0625		1,423.0278
Total	0.8630	1.4393	4.6215	0.0161	1.2702	0.0431	1.3134	0.3398	0.0424	0.3822	0.0000	1,843.9947	1,843.9947	0.0725	7.7100e-003	1,848.1052

Chadwick Estates - 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	4/1/2022	3/16/2023	5	250	
2	Drainage Improvements	Grading	11/11/2022	3/16/2023	5	90	
3	Paving & Utilities	Paving	3/17/2023	7/20/2023	5	90	
4	Entry Road Paving	Paving	7/21/2023	8/15/2023	5	18	
5	Building Construction	Building Construction	8/16/2023	6/13/2024	5	217	
6	Architectural Coating	Architectural Coating	6/14/2024	7/9/2024	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 44.4

Acres of Paving: 0

Residential Indoor: 51,030; Residential Outdoor: 17,010; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Off-Highway Trucks	2	6.00	402	0.38
Grading	Plate Compactors	1	6.00	8	0.43

Chadwick Estates - Los Angeles-South Coast County, Summer

Grading	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Drainage Improvements	Excavators	1	8.00	158	0.38
Drainage Improvements	Graders	1	8.00	187	0.41
Drainage Improvements	Rubber Tired Dozers	1	8.00	247	0.40
Drainage Improvements	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving & Utilities	Cement and Mortar Mixers	2	6.00	9	0.56
Paving & Utilities	Pavers	1	8.00	130	0.42
Paving & Utilities	Paving Equipment	2	6.00	132	0.36
Paving & Utilities	Rollers	2	6.00	80	0.38
Paving & Utilities	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Entry Road Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Entry Road Paving	Pavers	1	8.00	130	0.42
Entry Road Paving	Paving Equipment	2	6.00	132	0.36
Entry Road Paving	Rollers	2	6.00	80	0.38
Entry Road Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Drainage Improvements	Plate Compactors	1	8.00	8	0.43
Drainage Improvements	Off-Highway Trucks	1	6.00	402	0.38

Trips and VMT

Chadwick Estates - 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
Grading	11	28.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Drainage Improvements	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving & Utilities	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Entry Road Paving	8	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	5.00	1.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					12.2325	0.0000	12.2325	6.6408	0.0000	6.6408			0.0000			0.0000
Off-Road	4.0234	41.1154	25.7724	0.0650		1.7517	1.7517		1.6121	1.6121		6,284.698 2	6,284.698 2	2.0269		6,335.371 2
Total	4.0234	41.1154	25.7724	0.0650	12.2325	1.7517	13.9842	6.6408	1.6121	8.2529		6,284.698 2	6,284.698 2	2.0269		6,335.371 2

Chadwick Estates - Los Angeles-South Coast County, Summer

3.2 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1124	0.0745	1.0405	3.0900e-003	0.3130	2.4500e-003	0.3154	0.0830	2.2600e-003	0.0853		307.6395	307.6395	8.4900e-003		307.8517
Total	0.1124	0.0745	1.0405	3.0900e-003	0.3130	2.4500e-003	0.3154	0.0830	2.2600e-003	0.0853		307.6395	307.6395	8.4900e-003		307.8517

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					4.7707	0.0000	4.7707	2.5899	0.0000	2.5899			0.0000			0.0000
Off-Road	4.0234	41.1154	25.7724	0.0650		1.7517	1.7517		1.6121	1.6121	0.0000	6,284.6982	6,284.6982	2.0269		6,335.3712
Total	4.0234	41.1154	25.7724	0.0650	4.7707	1.7517	6.5224	2.5899	1.6121	4.2020	0.0000	6,284.6982	6,284.6982	2.0269		6,335.3712

Chadwick Estates - Los Angeles-South Coast County, Summer

3.2 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1124	0.0745	1.0405	3.0900e-003	0.2694	2.4500e-003	0.2719	0.0723	2.2600e-003	0.0746		307.6395	307.6395	8.4900e-003		307.8517
Total	0.1124	0.0745	1.0405	3.0900e-003	0.2694	2.4500e-003	0.2719	0.0723	2.2600e-003	0.0746		307.6395	307.6395	8.4900e-003		307.8517

3.2 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					12.2325	0.0000	12.2325	6.6408	0.0000	6.6408			0.0000			0.0000
Off-Road	3.5649	35.2564	24.6403	0.0650		1.4474	1.4474		1.3322	1.3322		6,286.2392	6,286.2392	2.0274		6,336.9246
Total	3.5649	35.2564	24.6403	0.0650	12.2325	1.4474	13.6800	6.6408	1.3322	7.9730		6,286.2392	6,286.2392	2.0274		6,336.9246

Chadwick Estates - Los Angeles-South Coast County, Summer

3.2 Grading - 2023

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	0.1056	0.0674	0.9582	2.9700e-003	0.3130	2.3800e-003	0.3154	0.0830	2.1900e-003	0.0852		296.3750	296.3750	7.6600e-003		296.5664
Total	0.1056	0.0674	0.9582	2.9700e-003	0.3130	2.3800e-003	0.3154	0.0830	2.1900e-003	0.0852		296.3750	296.3750	7.6600e-003		296.5664

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					4.7707	0.0000	4.7707	2.5899	0.0000	2.5899			0.0000			0.0000
Off-Road	3.5649	35.2564	24.6403	0.0650		1.4474	1.4474		1.3322	1.3322	0.0000	6,286.2391	6,286.2391	2.0274		6,336.9246
Total	3.5649	35.2564	24.6403	0.0650	4.7707	1.4474	6.2181	2.5899	1.3322	3.9221	0.0000	6,286.2391	6,286.2391	2.0274		6,336.9246

Chadwick Estates - Los Angeles-South Coast County, Summer

3.2 Grading - 2023

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	0.1056	0.0674	0.9582	2.9700e-003	0.2694	2.3800e-003	0.2718	0.0723	2.1900e-003	0.0745		296.3750	296.3750	7.6600e-003		296.5664
Total	0.1056	0.0674	0.9582	2.9700e-003	0.2694	2.3800e-003	0.2718	0.0723	2.1900e-003	0.0745		296.3750	296.3750	7.6600e-003		296.5664

3.3 Drainage Improvements - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.3851	24.1167	18.0022	0.0401		1.0601	1.0601		0.9761	0.9761		3,865.7648	3,865.7648	1.2427		3,896.8321
Total	2.3851	24.1167	18.0022	0.0401	6.5523	1.0601	7.6124	3.3675	0.9761	4.3435		3,865.7648	3,865.7648	1.2427		3,896.8321

Chadwick Estates - Los Angeles-South Coast County, Summer

3.3 Drainage Improvements - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0803	0.0532	0.7432	2.2100e-003	0.2236	1.7500e-003	0.2253	0.0593	1.6100e-003	0.0609		219.7425	219.7425	6.0600e-003		219.8941
Total	0.0803	0.0532	0.7432	2.2100e-003	0.2236	1.7500e-003	0.2253	0.0593	1.6100e-003	0.0609		219.7425	219.7425	6.0600e-003		219.8941

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5554	0.0000	2.5554	1.3133	0.0000	1.3133			0.0000			0.0000
Off-Road	2.3851	24.1167	18.0022	0.0401		1.0601	1.0601		0.9761	0.9761	0.0000	3,865.7648	3,865.7648	1.2427		3,896.8321
Total	2.3851	24.1167	18.0022	0.0401	2.5554	1.0601	3.6155	1.3133	0.9761	2.2894	0.0000	3,865.7648	3,865.7648	1.2427		3,896.8321

Chadwick Estates - Los Angeles-South Coast County, Summer

3.3 Drainage Improvements - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0803	0.0532	0.7432	2.2100e-003	0.1925	1.7500e-003	0.1942	0.0517	1.6100e-003	0.0533		219.7425	219.7425	6.0600e-003		219.8941
Total	0.0803	0.0532	0.7432	2.2100e-003	0.1925	1.7500e-003	0.1942	0.0517	1.6100e-003	0.0533		219.7425	219.7425	6.0600e-003		219.8941

3.3 Drainage Improvements - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.1289	20.8631	17.4275	0.0401		0.8815	0.8815		0.8117	0.8117		3,867.0868	3,867.0868	1.2431		3,898.1648
Total	2.1289	20.8631	17.4275	0.0401	6.5523	0.8815	7.4338	3.3675	0.8117	4.1792		3,867.0868	3,867.0868	1.2431		3,898.1648

Chadwick Estates - Los Angeles-South Coast County, Summer

3.3 Drainage Improvements - 2023

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	0.0754	0.0482	0.6844	2.1200e-003	0.2236	1.7000e-003	0.2253	0.0593	1.5700e-003	0.0609		211.6964	211.6964	5.4700e-003		211.8331
Total	0.0754	0.0482	0.6844	2.1200e-003	0.2236	1.7000e-003	0.2253	0.0593	1.5700e-003	0.0609		211.6964	211.6964	5.4700e-003		211.8331

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5554	0.0000	2.5554	1.3133	0.0000	1.3133			0.0000			0.0000
Off-Road	2.1289	20.8631	17.4275	0.0401		0.8815	0.8815		0.8117	0.8117	0.0000	3,867.0868	3,867.0868	1.2431		3,898.1648
Total	2.1289	20.8631	17.4275	0.0401	2.5554	0.8815	3.4369	1.3133	0.8117	2.1250	0.0000	3,867.0868	3,867.0868	1.2431		3,898.1648

Chadwick Estates - Los Angeles-South Coast County, Summer

3.3 Drainage Improvements - 2023

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	0.0754	0.0482	0.6844	2.1200e-003	0.1925	1.7000e-003	0.1942	0.0517	1.5700e-003	0.0532		211.6964	211.6964	5.4700e-003		211.8331
Total	0.0754	0.0482	0.6844	2.1200e-003	0.1925	1.7000e-003	0.1942	0.0517	1.5700e-003	0.0532		211.6964	211.6964	5.4700e-003		211.8331

3.4 Paving & Utilities - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025		1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025		1,805.4304	1,805.4304	0.5673		1,819.6122

Chadwick Estates - Los Angeles-South Coast County, Summer

3.4 Paving & Utilities - 2023

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	0.0754	0.0482	0.6844	2.1200e-003	0.2236	1.7000e-003	0.2253	0.0593	1.5700e-003	0.0609		211.6964	211.6964	5.4700e-003		211.8331
Total	0.0754	0.0482	0.6844	2.1200e-003	0.2236	1.7000e-003	0.2253	0.0593	1.5700e-003	0.0609		211.6964	211.6964	5.4700e-003		211.8331

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	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025	0.0000	1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025	0.0000	1,805.4304	1,805.4304	0.5673		1,819.6122

Chadwick Estates - Los Angeles-South Coast County, Summer

3.4 Paving & Utilities - 2023

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	0.0754	0.0482	0.6844	2.1200e-003	0.1925	1.7000e-003	0.1942	0.0517	1.5700e-003	0.0532		211.6964	211.6964	5.4700e-003		211.8331
Total	0.0754	0.0482	0.6844	2.1200e-003	0.1925	1.7000e-003	0.1942	0.0517	1.5700e-003	0.0532		211.6964	211.6964	5.4700e-003		211.8331

3.5 Entry Road Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025		1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025		1,805.4304	1,805.4304	0.5673		1,819.6122

Chadwick Estates - Los Angeles-South Coast County, Summer

3.5 Entry Road Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0566	0.0361	0.5133	1.5900e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1700e-003	0.0456		158.7723	158.7723	4.1000e-003		158.8748
Total	0.0566	0.0361	0.5133	1.5900e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1700e-003	0.0456		158.7723	158.7723	4.1000e-003		158.8748

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	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025	0.0000	1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025	0.0000	1,805.4304	1,805.4304	0.5673		1,819.6122

Chadwick Estates - Los Angeles-South Coast County, Summer

3.5 Entry Road Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0566	0.0361	0.5133	1.5900e-003	0.1443	1.2800e-003	0.1456	0.0387	1.1700e-003	0.0399		158.7723	158.7723	4.1000e-003		158.8748
Total	0.0566	0.0361	0.5133	1.5900e-003	0.1443	1.2800e-003	0.1456	0.0387	1.1700e-003	0.0399		158.7723	158.7723	4.1000e-003		158.8748

3.6 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061

Chadwick Estates - Los Angeles-South Coast County, Summer

3.6 Building Construction - 2023

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	2.1200e-003	0.0701	0.0217	2.5000e-004	6.4000e-003	8.0000e-005	6.4800e-003	1.8400e-003	8.0000e-005	1.9200e-003		26.3907	26.3907	1.3900e-003		26.4254
Worker	0.0189	0.0120	0.1711	5.3000e-004	0.0559	4.3000e-004	0.0563	0.0148	3.9000e-004	0.0152		52.9241	52.9241	1.3700e-003		52.9583
Total	0.0210	0.0821	0.1928	7.8000e-004	0.0623	5.1000e-004	0.0628	0.0167	4.7000e-004	0.0171		79.3148	79.3148	2.7600e-003		79.3837

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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061

Chadwick Estates - Los Angeles-South Coast County, Summer

3.6 Building Construction - 2023

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	2.1200e-003	0.0701	0.0217	2.5000e-004	5.6700e-003	8.0000e-005	5.7500e-003	1.6600e-003	8.0000e-005	1.7400e-003		26.3907	26.3907	1.3900e-003		26.4254
Worker	0.0189	0.0120	0.1711	5.3000e-004	0.0481	4.3000e-004	0.0485	0.0129	3.9000e-004	0.0133		52.9241	52.9241	1.3700e-003		52.9583
Total	0.0210	0.0821	0.1928	7.8000e-004	0.0538	5.1000e-004	0.0543	0.0146	4.7000e-004	0.0151		79.3148	79.3148	2.7600e-003		79.3837

3.6 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077

Chadwick Estates - Los Angeles-South Coast County, Summer

3.6 Building Construction - 2024

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	2.0700e-003	0.0698	0.0210	2.5000e-004	6.4000e-003	8.0000e-005	6.4800e-003	1.8400e-003	8.0000e-005	1.9200e-003		26.2836	26.2836	1.3700e-003		26.3178
Worker	0.0178	0.0110	0.1595	5.1000e-004	0.0559	4.2000e-004	0.0563	0.0148	3.9000e-004	0.0152		51.2839	51.2839	1.2500e-003		51.3153
Total	0.0199	0.0808	0.1805	7.6000e-004	0.0623	5.0000e-004	0.0628	0.0167	4.7000e-004	0.0171		77.5676	77.5676	2.6200e-003		77.6331

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	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077

Chadwick Estates - Los Angeles-South Coast County, Summer

3.6 Building Construction - 2024

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	2.0700e-003	0.0698	0.0210	2.5000e-004	5.6700e-003	8.0000e-005	5.7500e-003	1.6600e-003	8.0000e-005	1.7400e-003		26.2836	26.2836	1.3700e-003		26.3178
Worker	0.0178	0.0110	0.1595	5.1000e-004	0.0481	4.2000e-004	0.0485	0.0129	3.9000e-004	0.0133		51.2839	51.2839	1.2500e-003		51.3153
Total	0.0199	0.0808	0.1805	7.6000e-004	0.0538	5.0000e-004	0.0543	0.0146	4.7000e-004	0.0150		77.5676	77.5676	2.6200e-003		77.6331

3.7 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	8.7602					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	8.9409	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

Chadwick Estates - Los Angeles-South Coast County, Summer

3.7 Architectural Coating - 2024

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	3.5700e-003	2.2000e-003	0.0319	1.0000e-004	0.0112	8.0000e-005	0.0113	2.9600e-003	8.0000e-005	3.0400e-003		10.2568	10.2568	2.5000e-004		10.2631
Total	3.5700e-003	2.2000e-003	0.0319	1.0000e-004	0.0112	8.0000e-005	0.0113	2.9600e-003	8.0000e-005	3.0400e-003		10.2568	10.2568	2.5000e-004		10.2631

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	8.7602					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	8.9409	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443

Chadwick Estates - Los Angeles-South Coast County, Summer

3.7 Architectural Coating - 2024

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	3.5700e-003	2.2000e-003	0.0319	1.0000e-004	9.6200e-003	8.0000e-005	9.7100e-003	2.5800e-003	8.0000e-005	2.6600e-003		10.2568	10.2568	2.5000e-004		10.2631
Total	3.5700e-003	2.2000e-003	0.0319	1.0000e-004	9.6200e-003	8.0000e-005	9.7100e-003	2.5800e-003	8.0000e-005	2.6600e-003		10.2568	10.2568	2.5000e-004		10.2631

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Chadwick Estates - 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	0.2477	1.0967	3.3275	0.0139	1.2702	0.0101	1.2803	0.3398	9.3700e-003	0.3492		1,421.4655	1,421.4655	0.0625		1,423.0278
Unmitigated	0.2477	1.0967	3.3275	0.0139	1.2702	0.0101	1.2803	0.3398	9.3700e-003	0.3492		1,421.4655	1,421.4655	0.0625		1,423.0278

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	168.00	174.86	149.38	568,341	568,341
Total	168.00	174.86	149.38	568,341	568,341

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834

5.0 Energy Detail

Historical Energy Use: N

Chadwick Estates - Los Angeles-South Coast County, Summer

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0114	0.0971	0.0413	6.2000e-004		7.8500e-003	7.8500e-003		7.8500e-003	7.8500e-003		123.9788	123.9788	2.3800e-003	2.2700e-003	124.7156
NaturalGas Unmitigated	0.0114	0.0971	0.0413	6.2000e-004		7.8500e-003	7.8500e-003		7.8500e-003	7.8500e-003		123.9788	123.9788	2.3800e-003	2.2700e-003	124.7156

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					
Single Family Housing	1053.82	0.0114	0.0971	0.0413	6.2000e-004		7.8500e-003	7.8500e-003		7.8500e-003	7.8500e-003		123.9788	123.9788	2.3800e-003	2.2700e-003	124.7156
Total		0.0114	0.0971	0.0413	6.2000e-004		7.8500e-003	7.8500e-003		7.8500e-003	7.8500e-003		123.9788	123.9788	2.3800e-003	2.2700e-003	124.7156

Chadwick Estates - Los Angeles-South Coast County, Summer

5.2 Energy by Land Use - Natural Gas

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	1.05382	0.0114	0.0971	0.0413	6.2000e-004		7.8500e-003	7.8500e-003		7.8500e-003	7.8500e-003		123.9788	123.9788	2.3800e-003	2.2700e-003	124.7156
Total		0.0114	0.0971	0.0413	6.2000e-004		7.8500e-003	7.8500e-003		7.8500e-003	7.8500e-003		123.9788	123.9788	2.3800e-003	2.2700e-003	124.7156

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.6040	0.2455	1.2528	1.5400e-003		0.0252	0.0252		0.0252	0.0252	0.0000	298.5503	298.5503	7.6700e-003	5.4400e-003	300.3619
Unmitigated	0.6040	0.2455	1.2528	1.5400e-003		0.0252	0.0252		0.0252	0.0252	0.0000	298.5503	298.5503	7.6700e-003	5.4400e-003	300.3619

Chadwick Estates - Los Angeles-South Coast County, Summer

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	0.0432					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4990					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0272	0.2322	0.0988	1.4800e-003		0.0188	0.0188		0.0188	0.0188	0.0000	296.4706	296.4706	5.6800e-003	5.4400e-003	298.2324
Landscaping	0.0347	0.0133	1.1539	6.0000e-005		6.4000e-003	6.4000e-003		6.4000e-003	6.4000e-003		2.0797	2.0797	1.9900e-003		2.1295
Total	0.6040	0.2455	1.2527	1.5400e-003		0.0252	0.0252		0.0252	0.0252	0.0000	298.5503	298.5503	7.6700e-003	5.4400e-003	300.3619

Chadwick Estates - 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	0.0432					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4990					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0272	0.2322	0.0988	1.4800e-003		0.0188	0.0188		0.0188	0.0188	0.0000	296.4706	296.4706	5.6800e-003	5.4400e-003	298.2324
Landscaping	0.0347	0.0133	1.1539	6.0000e-005		6.4000e-003	6.4000e-003		6.4000e-003	6.4000e-003		2.0797	2.0797	1.9900e-003		2.1295
Total	0.6040	0.2455	1.2527	1.5400e-003		0.0252	0.0252		0.0252	0.0252	0.0000	298.5503	298.5503	7.6700e-003	5.4400e-003	300.3619

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Chadwick Estates - Los Angeles-South Coast County, Summer

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

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

11.0 Vegetation

Chadwick Estates - Los Angeles-South Coast County, Winter

Chadwick Estates
Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	14.00	Dwelling Unit	4.55	25,200.00	40

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2026
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Chadwick Estates - Los Angeles-South Coast County, Winter

Project Characteristics -

Land Use -

Construction Phase - Construction schedule developed from client information

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Estimated by need

Off-road Equipment -

Grading - Data provided by client

Vehicle Trips - Rates were changed to fit Estate Housing trip rates as presented in San Diego Trip Generation Manual

Woodstoves - Residences assumed to be equipped with NG fireplaces

Off-road Equipment - Estimated by need

Off-road Equipment -

Off-road Equipment -

Architectural Coating -

Construction Off-road Equipment Mitigation - Per SCAQMD Mitigation Measure Table XI-C for local streets

Chadwick Estates - Los Angeles-South Coast County, Winter

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	16
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	230.00	217.00
tblConstructionPhase	NumDays	8.00	250.00
tblConstructionPhase	NumDays	8.00	90.00
tblConstructionPhase	NumDays	18.00	90.00
tblFireplaces	NumberGas	11.90	14.00
tblFireplaces	NumberNoFireplace	1.40	0.00
tblFireplaces	NumberWood	0.70	0.00
tblGrading	AcresOfGrading	250.00	44.40
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblTripsAndVMT	WorkerTripNumber	20.00	15.00
tblVehicleTrips	ST_TR	9.91	12.49
tblVehicleTrips	SU_TR	8.62	10.67
tblVehicleTrips	WD_TR	9.52	12.00
tblWoodstoves	NumberCatalytic	0.70	0.00
tblWoodstoves	NumberNoncatalytic	0.70	0.00

2.0 Emissions Summary

Chadwick Estates - 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					
2022	6.6235	65.3735	45.4027	0.1100	19.3214	2.8160	22.1373	10.1506	2.5921	12.7426	0.0000	10,647.0563	10,647.0563	3.2833	0.0000	10,729.1385
2023	5.8963	56.2473	43.5643	0.1099	19.3214	2.3330	21.6544	10.1506	2.1477	12.2983	0.0000	10,631.7518	10,631.7518	3.2829	0.0000	10,713.8231
2024	8.9449	13.5254	16.3348	0.0277	0.0623	0.6138	0.6761	0.0167	0.5774	0.5940	0.0000	2,629.5637	2,629.5637	0.6070	0.0000	2,644.7379
Maximum	8.9449	65.3735	45.4027	0.1100	19.3214	2.8160	22.1373	10.1506	2.5921	12.7426	0.0000	10,647.0563	10,647.0563	3.2833	0.0000	10,729.1385

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					
2022	6.6235	65.3735	45.4027	0.1100	7.7880	2.8160	10.6039	4.0272	2.5921	6.6193	0.0000	10,647.0563	10,647.0563	3.2833	0.0000	10,729.1385
2023	5.8963	56.2473	43.5643	0.1099	7.7880	2.3330	10.1210	4.0272	2.1477	6.1749	0.0000	10,631.7518	10,631.7518	3.2829	0.0000	10,713.8231
2024	8.9449	13.5254	16.3348	0.0277	0.0538	0.6138	0.6676	0.0146	0.5774	0.5919	0.0000	2,629.5637	2,629.5637	0.6070	0.0000	2,644.7379
Maximum	8.9449	65.3735	45.4027	0.1100	7.7880	2.8160	10.6039	4.0272	2.5921	6.6193	0.0000	10,647.0563	10,647.0563	3.2833	0.0000	10,729.1385

Chadwick Estates - 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	59.62	0.00	51.89	60.29	0.00	47.78	0.00	0.00	0.00	0.00	0.00	0.00

Chadwick Estates - Los Angeles-South Coast County, Winter

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.6040	0.2455	1.2528	1.5400e-003		0.0252	0.0252		0.0252	0.0252	0.0000	298.5503	298.5503	7.6700e-003	5.4400e-003	300.3619
Energy	0.0114	0.0971	0.0413	6.2000e-004		7.8500e-003	7.8500e-003		7.8500e-003	7.8500e-003		123.9788	123.9788	2.3800e-003	2.2700e-003	124.7156
Mobile	0.2399	1.1198	3.1478	0.0133	1.2702	0.0101	1.2804	0.3398	9.4100e-003	0.3492		1,354.784 2	1,354.784 2	0.0624		1,356.344 2
Total	0.8553	1.4624	4.4419	0.0154	1.2702	0.0432	1.3134	0.3398	0.0424	0.3823	0.0000	1,777.313 3	1,777.313 3	0.0725	7.7100e-003	1,781.421 7

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.6040	0.2455	1.2528	1.5400e-003		0.0252	0.0252		0.0252	0.0252	0.0000	298.5503	298.5503	7.6700e-003	5.4400e-003	300.3619
Energy	0.0114	0.0971	0.0413	6.2000e-004		7.8500e-003	7.8500e-003		7.8500e-003	7.8500e-003		123.9788	123.9788	2.3800e-003	2.2700e-003	124.7156
Mobile	0.2399	1.1198	3.1478	0.0133	1.2702	0.0101	1.2804	0.3398	9.4100e-003	0.3492		1,354.784 2	1,354.784 2	0.0624		1,356.344 2
Total	0.8553	1.4624	4.4419	0.0154	1.2702	0.0432	1.3134	0.3398	0.0424	0.3823	0.0000	1,777.313 3	1,777.313 3	0.0725	7.7100e-003	1,781.421 7

Chadwick Estates - 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	4/1/2022	3/16/2023	5	250	
2	Drainage Improvements	Grading	11/11/2022	3/16/2023	5	90	
3	Paving & Utilities	Paving	3/17/2023	7/20/2023	5	90	
4	Entry Road Paving	Paving	7/21/2023	8/15/2023	5	18	
5	Building Construction	Building Construction	8/16/2023	6/13/2024	5	217	
6	Architectural Coating	Architectural Coating	6/14/2024	7/9/2024	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 44.4

Acres of Paving: 0

Residential Indoor: 51,030; Residential Outdoor: 17,010; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Off-Highway Trucks	2	6.00	402	0.38
Grading	Plate Compactors	1	6.00	8	0.43

Chadwick Estates - Los Angeles-South Coast County, Winter

Grading	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Drainage Improvements	Excavators	1	8.00	158	0.38
Drainage Improvements	Graders	1	8.00	187	0.41
Drainage Improvements	Rubber Tired Dozers	1	8.00	247	0.40
Drainage Improvements	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving & Utilities	Cement and Mortar Mixers	2	6.00	9	0.56
Paving & Utilities	Pavers	1	8.00	130	0.42
Paving & Utilities	Paving Equipment	2	6.00	132	0.36
Paving & Utilities	Rollers	2	6.00	80	0.38
Paving & Utilities	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Entry Road Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Entry Road Paving	Pavers	1	8.00	130	0.42
Entry Road Paving	Paving Equipment	2	6.00	132	0.36
Entry Road Paving	Rollers	2	6.00	80	0.38
Entry Road Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Drainage Improvements	Plate Compactors	1	8.00	8	0.43
Drainage Improvements	Off-Highway Trucks	1	6.00	402	0.38

Trips and VMT

Chadwick Estates - 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
Grading	11	28.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Drainage Improvements	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving & Utilities	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Entry Road Paving	8	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	5.00	1.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					12.2325	0.0000	12.2325	6.6408	0.0000	6.6408			0.0000			0.0000
Off-Road	4.0234	41.1154	25.7724	0.0650		1.7517	1.7517		1.6121	1.6121		6,284.698 2	6,284.698 2	2.0269		6,335.371 2
Total	4.0234	41.1154	25.7724	0.0650	12.2325	1.7517	13.9842	6.6408	1.6121	8.2529		6,284.698 2	6,284.698 2	2.0269		6,335.371 2

Chadwick Estates - Los Angeles-South Coast County, Winter

3.2 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1254	0.0825	0.9497	2.9100e-003	0.3130	2.4500e-003	0.3154	0.0830	2.2600e-003	0.0853		289.6795	289.6795	7.9800e-003		289.8789
Total	0.1254	0.0825	0.9497	2.9100e-003	0.3130	2.4500e-003	0.3154	0.0830	2.2600e-003	0.0853		289.6795	289.6795	7.9800e-003		289.8789

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					4.7707	0.0000	4.7707	2.5899	0.0000	2.5899			0.0000			0.0000
Off-Road	4.0234	41.1154	25.7724	0.0650		1.7517	1.7517		1.6121	1.6121	0.0000	6,284.6982	6,284.6982	2.0269		6,335.3712
Total	4.0234	41.1154	25.7724	0.0650	4.7707	1.7517	6.5224	2.5899	1.6121	4.2020	0.0000	6,284.6982	6,284.6982	2.0269		6,335.3712

Chadwick Estates - Los Angeles-South Coast County, Winter

3.2 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1254	0.0825	0.9497	2.9100e-003	0.2694	2.4500e-003	0.2719	0.0723	2.2600e-003	0.0746		289.6795	289.6795	7.9800e-003		289.8789
Total	0.1254	0.0825	0.9497	2.9100e-003	0.2694	2.4500e-003	0.2719	0.0723	2.2600e-003	0.0746		289.6795	289.6795	7.9800e-003		289.8789

3.2 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					12.2325	0.0000	12.2325	6.6408	0.0000	6.6408			0.0000			0.0000
Off-Road	3.5649	35.2564	24.6403	0.0650		1.4474	1.4474		1.3322	1.3322		6,286.2392	6,286.2392	2.0274		6,336.9246
Total	3.5649	35.2564	24.6403	0.0650	12.2325	1.4474	13.6800	6.6408	1.3322	7.9730		6,286.2392	6,286.2392	2.0274		6,336.9246

Chadwick Estates - Los Angeles-South Coast County, Winter

3.2 Grading - 2023

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	0.1181	0.0746	0.8730	2.8000e-003	0.3130	2.3800e-003	0.3154	0.0830	2.1900e-003	0.0852		279.0818	279.0818	7.1800e-003		279.2613
Total	0.1181	0.0746	0.8730	2.8000e-003	0.3130	2.3800e-003	0.3154	0.0830	2.1900e-003	0.0852		279.0818	279.0818	7.1800e-003		279.2613

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					4.7707	0.0000	4.7707	2.5899	0.0000	2.5899			0.0000			0.0000
Off-Road	3.5649	35.2564	24.6403	0.0650		1.4474	1.4474		1.3322	1.3322	0.0000	6,286.2391	6,286.2391	2.0274		6,336.9246
Total	3.5649	35.2564	24.6403	0.0650	4.7707	1.4474	6.2181	2.5899	1.3322	3.9221	0.0000	6,286.2391	6,286.2391	2.0274		6,336.9246

Chadwick Estates - Los Angeles-South Coast County, Winter

3.2 Grading - 2023

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	0.1181	0.0746	0.8730	2.8000e-003	0.2694	2.3800e-003	0.2718	0.0723	2.1900e-003	0.0745		279.0818	279.0818	7.1800e-003		279.2613
Total	0.1181	0.0746	0.8730	2.8000e-003	0.2694	2.3800e-003	0.2718	0.0723	2.1900e-003	0.0745		279.0818	279.0818	7.1800e-003		279.2613

3.3 Drainage Improvements - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.3851	24.1167	18.0022	0.0401		1.0601	1.0601		0.9761	0.9761		3,865.7648	3,865.7648	1.2427		3,896.8321
Total	2.3851	24.1167	18.0022	0.0401	6.5523	1.0601	7.6124	3.3675	0.9761	4.3435		3,865.7648	3,865.7648	1.2427		3,896.8321

Chadwick Estates - Los Angeles-South Coast County, Winter

3.3 Drainage Improvements - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0896	0.0589	0.6784	2.0800e-003	0.2236	1.7500e-003	0.2253	0.0593	1.6100e-003	0.0609		206.9139	206.9139	5.7000e-003		207.0563
Total	0.0896	0.0589	0.6784	2.0800e-003	0.2236	1.7500e-003	0.2253	0.0593	1.6100e-003	0.0609		206.9139	206.9139	5.7000e-003		207.0563

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5554	0.0000	2.5554	1.3133	0.0000	1.3133			0.0000			0.0000
Off-Road	2.3851	24.1167	18.0022	0.0401		1.0601	1.0601		0.9761	0.9761	0.0000	3,865.7648	3,865.7648	1.2427		3,896.8321
Total	2.3851	24.1167	18.0022	0.0401	2.5554	1.0601	3.6155	1.3133	0.9761	2.2894	0.0000	3,865.7648	3,865.7648	1.2427		3,896.8321

Chadwick Estates - Los Angeles-South Coast County, Winter

3.3 Drainage Improvements - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0896	0.0589	0.6784	2.0800e-003	0.1925	1.7500e-003	0.1942	0.0517	1.6100e-003	0.0533		206.9139	206.9139	5.7000e-003		207.0563
Total	0.0896	0.0589	0.6784	2.0800e-003	0.1925	1.7500e-003	0.1942	0.0517	1.6100e-003	0.0533		206.9139	206.9139	5.7000e-003		207.0563

3.3 Drainage Improvements - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.1289	20.8631	17.4275	0.0401		0.8815	0.8815		0.8117	0.8117		3,867.0868	3,867.0868	1.2431		3,898.1648
Total	2.1289	20.8631	17.4275	0.0401	6.5523	0.8815	7.4338	3.3675	0.8117	4.1792		3,867.0868	3,867.0868	1.2431		3,898.1648

Chadwick Estates - Los Angeles-South Coast County, Winter

3.3 Drainage Improvements - 2023

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	0.0844	0.0533	0.6235	2.0000e-003	0.2236	1.7000e-003	0.2253	0.0593	1.5700e-003	0.0609		199.3441	199.3441	5.1300e-003		199.4724
Total	0.0844	0.0533	0.6235	2.0000e-003	0.2236	1.7000e-003	0.2253	0.0593	1.5700e-003	0.0609		199.3441	199.3441	5.1300e-003		199.4724

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5554	0.0000	2.5554	1.3133	0.0000	1.3133			0.0000			0.0000
Off-Road	2.1289	20.8631	17.4275	0.0401		0.8815	0.8815		0.8117	0.8117	0.0000	3,867.0868	3,867.0868	1.2431		3,898.1648
Total	2.1289	20.8631	17.4275	0.0401	2.5554	0.8815	3.4369	1.3133	0.8117	2.1250	0.0000	3,867.0868	3,867.0868	1.2431		3,898.1648

Chadwick Estates - Los Angeles-South Coast County, Winter

3.3 Drainage Improvements - 2023

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	0.0844	0.0533	0.6235	2.0000e-003	0.1925	1.7000e-003	0.1942	0.0517	1.5700e-003	0.0532		199.3441	199.3441	5.1300e-003		199.4724
Total	0.0844	0.0533	0.6235	2.0000e-003	0.1925	1.7000e-003	0.1942	0.0517	1.5700e-003	0.0532		199.3441	199.3441	5.1300e-003		199.4724

3.4 Paving & Utilities - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025		1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025		1,805.4304	1,805.4304	0.5673		1,819.6122

Chadwick Estates - Los Angeles-South Coast County, Winter

3.4 Paving & Utilities - 2023

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	0.0844	0.0533	0.6235	2.0000e-003	0.2236	1.7000e-003	0.2253	0.0593	1.5700e-003	0.0609		199.3441	199.3441	5.1300e-003		199.4724
Total	0.0844	0.0533	0.6235	2.0000e-003	0.2236	1.7000e-003	0.2253	0.0593	1.5700e-003	0.0609		199.3441	199.3441	5.1300e-003		199.4724

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	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025	0.0000	1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025	0.0000	1,805.4304	1,805.4304	0.5673		1,819.6122

Chadwick Estates - Los Angeles-South Coast County, Winter

3.4 Paving & Utilities - 2023

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	0.0844	0.0533	0.6235	2.0000e-003	0.1925	1.7000e-003	0.1942	0.0517	1.5700e-003	0.0532		199.3441	199.3441	5.1300e-003		199.4724
Total	0.0844	0.0533	0.6235	2.0000e-003	0.1925	1.7000e-003	0.1942	0.0517	1.5700e-003	0.0532		199.3441	199.3441	5.1300e-003		199.4724

3.5 Entry Road Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025		1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025		1,805.4304	1,805.4304	0.5673		1,819.6122

Chadwick Estates - Los Angeles-South Coast County, Winter

3.5 Entry Road Paving - 2023

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	0.0633	0.0400	0.4677	1.5000e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1700e-003	0.0456		149.5081	149.5081	3.8500e-003		149.6043
Total	0.0633	0.0400	0.4677	1.5000e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1700e-003	0.0456		149.5081	149.5081	3.8500e-003		149.6043

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	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025	0.0000	1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025	0.0000	1,805.4304	1,805.4304	0.5673		1,819.6122

Chadwick Estates - Los Angeles-South Coast County, Winter

3.5 Entry Road Paving - 2023

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	0.0633	0.0400	0.4677	1.5000e-003	0.1443	1.2800e-003	0.1456	0.0387	1.1700e-003	0.0399		149.5081	149.5081	3.8500e-003		149.6043
Total	0.0633	0.0400	0.4677	1.5000e-003	0.1443	1.2800e-003	0.1456	0.0387	1.1700e-003	0.0399		149.5081	149.5081	3.8500e-003		149.6043

3.6 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061

Chadwick Estates - Los Angeles-South Coast County, Winter

3.6 Building Construction - 2023

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	2.2300e-003	0.0697	0.0236	2.4000e-004	6.4000e-003	9.0000e-005	6.4900e-003	1.8400e-003	8.0000e-005	1.9200e-003		25.6741	25.6741	1.4700e-003		25.7108
Worker	0.0211	0.0133	0.1559	5.0000e-004	0.0559	4.3000e-004	0.0563	0.0148	3.9000e-004	0.0152		49.8360	49.8360	1.2800e-003		49.8681
Total	0.0233	0.0831	0.1795	7.4000e-004	0.0623	5.2000e-004	0.0628	0.0167	4.7000e-004	0.0171		75.5102	75.5102	2.7500e-003		75.5789

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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061

Chadwick Estates - Los Angeles-South Coast County, Winter

3.6 Building Construction - 2023

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	2.2300e-003	0.0697	0.0236	2.4000e-004	5.6700e-003	9.0000e-005	5.7600e-003	1.6600e-003	8.0000e-005	1.7500e-003		25.6741	25.6741	1.4700e-003		25.7108
Worker	0.0211	0.0133	0.1559	5.0000e-004	0.0481	4.3000e-004	0.0485	0.0129	3.9000e-004	0.0133		49.8360	49.8360	1.2800e-003		49.8681
Total	0.0233	0.0831	0.1795	7.4000e-004	0.0538	5.2000e-004	0.0543	0.0146	4.7000e-004	0.0151		75.5102	75.5102	2.7500e-003		75.5789

3.6 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077

Chadwick Estates - Los Angeles-South Coast County, Winter

3.6 Building Construction - 2024

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	2.1700e-003	0.0695	0.0229	2.4000e-004	6.4000e-003	8.0000e-005	6.4900e-003	1.8400e-003	8.0000e-005	1.9200e-003		25.5746	25.5746	1.4400e-003		25.6107
Worker	0.0200	0.0121	0.1451	4.8000e-004	0.0559	4.2000e-004	0.0563	0.0148	3.9000e-004	0.0152		48.2902	48.2902	1.1800e-003		48.3196
Total	0.0222	0.0816	0.1680	7.2000e-004	0.0623	5.0000e-004	0.0628	0.0167	4.7000e-004	0.0171		73.8648	73.8648	2.6200e-003		73.9302

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	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077

Chadwick Estates - Los Angeles-South Coast County, Winter

3.6 Building Construction - 2024

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	2.1700e-003	0.0695	0.0229	2.4000e-004	5.6700e-003	8.0000e-005	5.7600e-003	1.6600e-003	8.0000e-005	1.7400e-003		25.5746	25.5746	1.4400e-003		25.6107
Worker	0.0200	0.0121	0.1451	4.8000e-004	0.0481	4.2000e-004	0.0485	0.0129	3.9000e-004	0.0133		48.2902	48.2902	1.1800e-003		48.3196
Total	0.0222	0.0816	0.1680	7.2000e-004	0.0538	5.0000e-004	0.0543	0.0146	4.7000e-004	0.0150		73.8648	73.8648	2.6200e-003		73.9302

3.7 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	8.7602					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	8.9409	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

Chadwick Estates - Los Angeles-South Coast County, Winter

3.7 Architectural Coating - 2024

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	4.0000e-003	2.4300e-003	0.0290	1.0000e-004	0.0112	8.0000e-005	0.0113	2.9600e-003	8.0000e-005	3.0400e-003		9.6580	9.6580	2.4000e-004		9.6639
Total	4.0000e-003	2.4300e-003	0.0290	1.0000e-004	0.0112	8.0000e-005	0.0113	2.9600e-003	8.0000e-005	3.0400e-003		9.6580	9.6580	2.4000e-004		9.6639

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	8.7602					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	8.9409	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443

Chadwick Estates - Los Angeles-South Coast County, Winter

3.7 Architectural Coating - 2024

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	4.0000e-003	2.4300e-003	0.0290	1.0000e-004	9.6200e-003	8.0000e-005	9.7100e-003	2.5800e-003	8.0000e-005	2.6600e-003		9.6580	9.6580	2.4000e-004		9.6639
Total	4.0000e-003	2.4300e-003	0.0290	1.0000e-004	9.6200e-003	8.0000e-005	9.7100e-003	2.5800e-003	8.0000e-005	2.6600e-003		9.6580	9.6580	2.4000e-004		9.6639

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Chadwick Estates - 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	0.2399	1.1198	3.1478	0.0133	1.2702	0.0101	1.2804	0.3398	9.4100e-003	0.3492		1,354.784 2	1,354.784 2	0.0624		1,356.344 2
Unmitigated	0.2399	1.1198	3.1478	0.0133	1.2702	0.0101	1.2804	0.3398	9.4100e-003	0.3492		1,354.784 2	1,354.784 2	0.0624		1,356.344 2

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	168.00	174.86	149.38	568,341	568,341
Total	168.00	174.86	149.38	568,341	568,341

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834

5.0 Energy Detail

Historical Energy Use: N

Chadwick Estates - Los Angeles-South Coast County, Winter

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0114	0.0971	0.0413	6.2000e-004		7.8500e-003	7.8500e-003		7.8500e-003	7.8500e-003		123.9788	123.9788	2.3800e-003	2.2700e-003	124.7156
NaturalGas Unmitigated	0.0114	0.0971	0.0413	6.2000e-004		7.8500e-003	7.8500e-003		7.8500e-003	7.8500e-003		123.9788	123.9788	2.3800e-003	2.2700e-003	124.7156

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					
Single Family Housing	1053.82	0.0114	0.0971	0.0413	6.2000e-004		7.8500e-003	7.8500e-003		7.8500e-003	7.8500e-003		123.9788	123.9788	2.3800e-003	2.2700e-003	124.7156
Total		0.0114	0.0971	0.0413	6.2000e-004		7.8500e-003	7.8500e-003		7.8500e-003	7.8500e-003		123.9788	123.9788	2.3800e-003	2.2700e-003	124.7156

Chadwick Estates - Los Angeles-South Coast County, Winter

5.2 Energy by Land Use - Natural Gas

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	1.05382	0.0114	0.0971	0.0413	6.2000e-004		7.8500e-003	7.8500e-003		7.8500e-003	7.8500e-003		123.9788	123.9788	2.3800e-003	2.2700e-003	124.7156
Total		0.0114	0.0971	0.0413	6.2000e-004		7.8500e-003	7.8500e-003		7.8500e-003	7.8500e-003		123.9788	123.9788	2.3800e-003	2.2700e-003	124.7156

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.6040	0.2455	1.2528	1.5400e-003		0.0252	0.0252		0.0252	0.0252	0.0000	298.5503	298.5503	7.6700e-003	5.4400e-003	300.3619
Unmitigated	0.6040	0.2455	1.2528	1.5400e-003		0.0252	0.0252		0.0252	0.0252	0.0000	298.5503	298.5503	7.6700e-003	5.4400e-003	300.3619

Chadwick Estates - Los Angeles-South Coast County, Winter

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	0.0432					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4990					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0272	0.2322	0.0988	1.4800e-003		0.0188	0.0188		0.0188	0.0188	0.0000	296.4706	296.4706	5.6800e-003	5.4400e-003	298.2324
Landscaping	0.0347	0.0133	1.1539	6.0000e-005		6.4000e-003	6.4000e-003		6.4000e-003	6.4000e-003		2.0797	2.0797	1.9900e-003		2.1295
Total	0.6040	0.2455	1.2527	1.5400e-003		0.0252	0.0252		0.0252	0.0252	0.0000	298.5503	298.5503	7.6700e-003	5.4400e-003	300.3619

Chadwick Estates - 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	0.0432					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4990					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0272	0.2322	0.0988	1.4800e-003		0.0188	0.0188		0.0188	0.0188	0.0000	296.4706	296.4706	5.6800e-003	5.4400e-003	298.2324
Landscaping	0.0347	0.0133	1.1539	6.0000e-005		6.4000e-003	6.4000e-003		6.4000e-003	6.4000e-003		2.0797	2.0797	1.9900e-003		2.1295
Total	0.6040	0.2455	1.2527	1.5400e-003		0.0252	0.0252		0.0252	0.0252	0.0000	298.5503	298.5503	7.6700e-003	5.4400e-003	300.3619

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Chadwick Estates - Los Angeles-South Coast County, Winter

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

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

11.0 Vegetation

Chadwick Estates - Los Angeles-South Coast County, Annual

Chadwick Estates
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	14.00	Dwelling Unit	4.55	25,200.00	40

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2026
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Chadwick Estates - Los Angeles-South Coast County, Annual

Project Characteristics -

Land Use -

Construction Phase - Construction schedule developed from client information

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Estimated by need

Off-road Equipment -

Grading - Data provided by client

Vehicle Trips - Rates were changed to fit Estate Housing trip rates as presented in San Diego Trip Generation Manual

Woodstoves - Residences assumed to be equipped with NG fireplaces

Off-road Equipment - Estimated by need

Off-road Equipment -

Off-road Equipment -

Architectural Coating -

Construction Off-road Equipment Mitigation - Per SCAQMD Mitigation Measure Table XI-C for local streets

Chadwick Estates - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	16
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	230.00	217.00
tblConstructionPhase	NumDays	8.00	250.00
tblConstructionPhase	NumDays	8.00	90.00
tblConstructionPhase	NumDays	18.00	90.00
tblFireplaces	NumberGas	11.90	14.00
tblFireplaces	NumberNoFireplace	1.40	0.00
tblFireplaces	NumberWood	0.70	0.00
tblGrading	AcresOfGrading	250.00	44.40
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblTripsAndVMT	WorkerTripNumber	20.00	15.00
tblVehicleTrips	ST_TR	9.91	12.49
tblVehicleTrips	SU_TR	8.62	10.67
tblVehicleTrips	WD_TR	9.52	12.00
tblWoodstoves	NumberCatalytic	0.70	0.00
tblWoodstoves	NumberNoncatalytic	0.70	0.00

2.0 Emissions Summary

Chadwick Estates - Los Angeles-South Coast County, Annual

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.4498	4.4728	2.9579	7.4200e-003	1.3701	0.1910	1.5612	0.7225	0.1758	0.8984	0.0000	651.4778	651.4778	0.2013	0.0000	656.5105
2023	0.2903	2.7053	2.6737	5.4500e-003	0.5637	0.1209	0.6846	0.2808	0.1121	0.3929	0.0000	475.5635	475.5635	0.1356	0.0000	478.9533
2024	0.1693	0.8158	0.9887	1.6700e-003	3.7300e-003	0.0371	0.0408	1.0000e-003	0.0349	0.0359	0.0000	144.3809	144.3809	0.0329	0.0000	145.2032
Maximum	0.4498	4.4728	2.9579	7.4200e-003	1.3701	0.1910	1.5612	0.7225	0.1758	0.8984	0.0000	651.4778	651.4778	0.2013	0.0000	656.5105

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.4498	4.4728	2.9579	7.4200e-003	0.5504	0.1910	0.7414	0.2861	0.1758	0.4620	0.0000	651.4770	651.4770	0.2013	0.0000	656.5098
2023	0.2903	2.7053	2.6737	5.4500e-003	0.2333	0.1209	0.3542	0.1132	0.1121	0.2253	0.0000	475.5630	475.5630	0.1356	0.0000	478.9527
2024	0.1693	0.8158	0.9887	1.6700e-003	3.2300e-003	0.0371	0.0403	8.8000e-004	0.0349	0.0358	0.0000	144.3807	144.3807	0.0329	0.0000	145.2031
Maximum	0.4498	4.4728	2.9579	7.4200e-003	0.5504	0.1910	0.7414	0.2861	0.1758	0.4620	0.0000	651.4770	651.4770	0.2013	0.0000	656.5098

Chadwick Estates - 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
Percent Reduction	0.00	0.00	0.00	0.00	59.39	0.00	50.32	60.15	0.00	45.52	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	4-1-2022	6-30-2022	1.4731	1.4731
2	7-1-2022	9-30-2022	1.4893	1.4893
3	10-1-2022	12-31-2022	1.9754	1.9754
4	1-1-2023	3-31-2023	1.7173	1.7173
5	4-1-2023	6-30-2023	0.3195	0.3195
6	7-1-2023	9-30-2023	0.4251	0.4251
7	10-1-2023	12-31-2023	0.5278	0.5278
8	1-1-2024	3-31-2024	0.4881	0.4881
9	4-1-2024	6-30-2024	0.4586	0.4586
10	7-1-2024	9-30-2024	0.0327	0.0327
		Highest	1.9754	1.9754

Chadwick Estates - Los Angeles-South Coast County, Annual

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	0.1036	4.5600e-003	0.1455	3.0000e-005		1.0400e-003	1.0400e-003		1.0400e-003	1.0400e-003	0.0000	3.5978	3.5978	2.9000e-004	6.0000e-005	3.6234
Energy	2.0700e-003	0.0177	7.5400e-003	1.1000e-004		1.4300e-003	1.4300e-003		1.4300e-003	1.4300e-003	0.0000	57.1408	57.1408	1.9100e-003	6.9000e-004	57.3938
Mobile	0.0406	0.1971	0.5532	2.3300e-003	0.2157	1.7500e-003	0.2174	0.0578	1.6200e-003	0.0594	0.0000	215.6990	215.6990	9.7600e-003	0.0000	215.9429
Waste						0.0000	0.0000		0.0000	0.0000	3.3291	0.0000	3.3291	0.1967	0.0000	8.2476
Water						0.0000	0.0000		0.0000	0.0000	0.2894	5.8200	6.1093	0.0300	7.5000e-004	7.0824
Total	0.1463	0.2194	0.7062	2.4700e-003	0.2157	4.2200e-003	0.2199	0.0578	4.0900e-003	0.0619	3.6184	282.2575	285.8759	0.2387	1.5000e-003	292.2900

Chadwick Estates - Los Angeles-South Coast County, Annual

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	0.1036	4.5600e-003	0.1455	3.0000e-005		1.0400e-003	1.0400e-003		1.0400e-003	1.0400e-003	0.0000	3.5978	3.5978	2.9000e-004	6.0000e-005	3.6234
Energy	2.0700e-003	0.0177	7.5400e-003	1.1000e-004		1.4300e-003	1.4300e-003		1.4300e-003	1.4300e-003	0.0000	57.1408	57.1408	1.9100e-003	6.9000e-004	57.3938
Mobile	0.0406	0.1971	0.5532	2.3300e-003	0.2157	1.7500e-003	0.2174	0.0578	1.6200e-003	0.0594	0.0000	215.6990	215.6990	9.7600e-003	0.0000	215.9429
Waste						0.0000	0.0000		0.0000	0.0000	3.3291	0.0000	3.3291	0.1967	0.0000	8.2476
Water						0.0000	0.0000		0.0000	0.0000	0.2894	5.8200	6.1093	0.0300	7.5000e-004	7.0824
Total	0.1463	0.2194	0.7062	2.4700e-003	0.2157	4.2200e-003	0.2199	0.0578	4.0900e-003	0.0619	3.6184	282.2575	285.8759	0.2387	1.5000e-003	292.2900

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

3.0 Construction Detail

Construction Phase

Chadwick Estates - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	4/1/2022	3/16/2023	5	250	
2	Drainage Improvements	Grading	11/11/2022	3/16/2023	5	90	
3	Paving & Utilities	Paving	3/17/2023	7/20/2023	5	90	
4	Entry Road Paving	Paving	7/21/2023	8/15/2023	5	18	
5	Building Construction	Building Construction	8/16/2023	6/13/2024	5	217	
6	Architectural Coating	Architectural Coating	6/14/2024	7/9/2024	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 44.4

Acres of Paving: 0

Residential Indoor: 51,030; Residential Outdoor: 17,010; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Off-Highway Trucks	2	6.00	402	0.38
Grading	Plate Compactors	1	6.00	8	0.43
Grading	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Drainage Improvements	Excavators	1	8.00	158	0.38
Drainage Improvements	Graders	1	8.00	187	0.41
Drainage Improvements	Rubber Tired Dozers	1	8.00	247	0.40
Drainage Improvements	Tractors/Loaders/Backhoes	3	8.00	97	0.37

Chadwick Estates - Los Angeles-South Coast County, Annual

Paving & Utilities	Cement and Mortar Mixers	2	6.00	9	0.56
Paving & Utilities	Pavers	1	8.00	130	0.42
Paving & Utilities	Paving Equipment	2	6.00	132	0.36
Paving & Utilities	Rollers	2	6.00	80	0.38
Paving & Utilities	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Entry Road Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Entry Road Paving	Pavers	1	8.00	130	0.42
Entry Road Paving	Paving Equipment	2	6.00	132	0.36
Entry Road Paving	Rollers	2	6.00	80	0.38
Entry Road Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Drainage Improvements	Plate Compactors	1	8.00	8	0.43
Drainage Improvements	Off-Highway Trucks	1	6.00	402	0.38

Trips and VMT

Chadwick Estates - Los Angeles-South Coast County, Annual

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
Grading	11	28.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Drainage Improvements	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving & Utilities	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Entry Road Paving	8	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	5.00	1.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.2039	0.0000	1.2039	0.6514	0.0000	0.6514	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3943	4.0293	2.5257	6.3700e-003		0.1717	0.1717		0.1580	0.1580	0.0000	558.7355	558.7355	0.1802	0.0000	563.2405
Total	0.3943	4.0293	2.5257	6.3700e-003	1.2039	0.1717	1.3755	0.6514	0.1580	0.8093	0.0000	558.7355	558.7355	0.1802	0.0000	563.2405

Chadwick Estates - Los Angeles-South Coast County, Annual

3.2 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0111	8.3000e-003	0.0956	2.9000e-004	0.0301	2.4000e-004	0.0303	7.9900e-003	2.2000e-004	8.2100e-003	0.0000	26.1820	26.1820	7.2000e-004	0.0000	26.2000
Total	0.0111	8.3000e-003	0.0956	2.9000e-004	0.0301	2.4000e-004	0.0303	7.9900e-003	2.2000e-004	8.2100e-003	0.0000	26.1820	26.1820	7.2000e-004	0.0000	26.2000

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					0.4695	0.0000	0.4695	0.2540	0.0000	0.2540	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3943	4.0293	2.5257	6.3700e-003		0.1717	0.1717		0.1580	0.1580	0.0000	558.7348	558.7348	0.1802	0.0000	563.2398
Total	0.3943	4.0293	2.5257	6.3700e-003	0.4695	0.1717	0.6412	0.2540	0.1580	0.4120	0.0000	558.7348	558.7348	0.1802	0.0000	563.2398

Chadwick Estates - Los Angeles-South Coast County, Annual

3.2 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0111	8.3000e-003	0.0956	2.9000e-004	0.0259	2.4000e-004	0.0261	6.9600e-003	2.2000e-004	7.1800e-003	0.0000	26.1820	26.1820	7.2000e-004	0.0000	26.2000
Total	0.0111	8.3000e-003	0.0956	2.9000e-004	0.0259	2.4000e-004	0.0261	6.9600e-003	2.2000e-004	7.1800e-003	0.0000	26.1820	26.1820	7.2000e-004	0.0000	26.2000

3.2 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3487	0.0000	0.3487	0.1813	0.0000	0.1813	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0963	0.9519	0.6653	1.7600e-003		0.0391	0.0391		0.0360	0.0360	0.0000	153.9751	153.9751	0.0497	0.0000	155.2166
Total	0.0963	0.9519	0.6653	1.7600e-003	0.3487	0.0391	0.3878	0.1813	0.0360	0.2173	0.0000	153.9751	153.9751	0.0497	0.0000	155.2166

Chadwick Estates - Los Angeles-South Coast County, Annual

3.2 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8700e-003	2.0700e-003	0.0242	8.0000e-005	8.2800e-003	6.0000e-005	8.3500e-003	2.2000e-003	6.0000e-005	2.2600e-003	0.0000	6.9495	6.9495	1.8000e-004	0.0000	6.9539
Total	2.8700e-003	2.0700e-003	0.0242	8.0000e-005	8.2800e-003	6.0000e-005	8.3500e-003	2.2000e-003	6.0000e-005	2.2600e-003	0.0000	6.9495	6.9495	1.8000e-004	0.0000	6.9539

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					0.1360	0.0000	0.1360	0.0707	0.0000	0.0707	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0963	0.9519	0.6653	1.7600e-003		0.0391	0.0391		0.0360	0.0360	0.0000	153.9749	153.9749	0.0497	0.0000	155.2164
Total	0.0963	0.9519	0.6653	1.7600e-003	0.1360	0.0391	0.1751	0.0707	0.0360	0.1067	0.0000	153.9749	153.9749	0.0497	0.0000	155.2164

Chadwick Estates - Los Angeles-South Coast County, Annual

3.2 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8700e-003	2.0700e-003	0.0242	8.0000e-005	7.1400e-003	6.0000e-005	7.2000e-003	1.9200e-003	6.0000e-005	1.9800e-003	0.0000	6.9495	6.9495	1.8000e-004	0.0000	6.9539
Total	2.8700e-003	2.0700e-003	0.0242	8.0000e-005	7.1400e-003	6.0000e-005	7.2000e-003	1.9200e-003	6.0000e-005	1.9800e-003	0.0000	6.9495	6.9495	1.8000e-004	0.0000	6.9539

3.3 Drainage Improvements - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1323	0.0000	0.1323	0.0622	0.0000	0.0622	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0429	0.4341	0.3240	7.2000e-004		0.0191	0.0191		0.0176	0.0176	0.0000	63.1253	63.1253	0.0203	0.0000	63.6326
Total	0.0429	0.4341	0.3240	7.2000e-004	0.1323	0.0191	0.1513	0.0622	0.0176	0.0797	0.0000	63.1253	63.1253	0.0203	0.0000	63.6326

Chadwick Estates - Los Angeles-South Coast County, Annual

3.3 Drainage Improvements - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4500e-003	1.0900e-003	0.0125	4.0000e-005	3.9400e-003	3.0000e-005	3.9800e-003	1.0500e-003	3.0000e-005	1.0800e-003	0.0000	3.4350	3.4350	9.0000e-005	0.0000	3.4373
Total	1.4500e-003	1.0900e-003	0.0125	4.0000e-005	3.9400e-003	3.0000e-005	3.9800e-003	1.0500e-003	3.0000e-005	1.0800e-003	0.0000	3.4350	3.4350	9.0000e-005	0.0000	3.4373

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					0.0516	0.0000	0.0516	0.0242	0.0000	0.0242	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0429	0.4341	0.3240	7.2000e-004		0.0191	0.0191		0.0176	0.0176	0.0000	63.1253	63.1253	0.0203	0.0000	63.6326
Total	0.0429	0.4341	0.3240	7.2000e-004	0.0516	0.0191	0.0707	0.0242	0.0176	0.0418	0.0000	63.1253	63.1253	0.0203	0.0000	63.6326

Chadwick Estates - Los Angeles-South Coast County, Annual

3.3 Drainage Improvements - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4500e-003	1.0900e-003	0.0125	4.0000e-005	3.4000e-003	3.0000e-005	3.4300e-003	9.1000e-004	3.0000e-005	9.4000e-004	0.0000	3.4350	3.4350	9.0000e-005	0.0000	3.4373
Total	1.4500e-003	1.0900e-003	0.0125	4.0000e-005	3.4000e-003	3.0000e-005	3.4300e-003	9.1000e-004	3.0000e-005	9.4000e-004	0.0000	3.4350	3.4350	9.0000e-005	0.0000	3.4373

3.3 Drainage Improvements - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1865	0.0000	0.1865	0.0920	0.0000	0.0920	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0575	0.5633	0.4705	1.0800e-003		0.0238	0.0238		0.0219	0.0219	0.0000	94.7204	94.7204	0.0305	0.0000	95.4816
Total	0.0575	0.5633	0.4705	1.0800e-003	0.1865	0.0238	0.2103	0.0920	0.0219	0.1139	0.0000	94.7204	94.7204	0.0305	0.0000	95.4816

Chadwick Estates - Los Angeles-South Coast County, Annual

3.3 Drainage Improvements - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0500e-003	1.4800e-003	0.0173	5.0000e-005	5.9200e-003	5.0000e-005	5.9600e-003	1.5700e-003	4.0000e-005	1.6100e-003	0.0000	4.9639	4.9639	1.3000e-004	0.0000	4.9671
Total	2.0500e-003	1.4800e-003	0.0173	5.0000e-005	5.9200e-003	5.0000e-005	5.9600e-003	1.5700e-003	4.0000e-005	1.6100e-003	0.0000	4.9639	4.9639	1.3000e-004	0.0000	4.9671

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					0.0727	0.0000	0.0727	0.0359	0.0000	0.0359	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0575	0.5633	0.4705	1.0800e-003		0.0238	0.0238		0.0219	0.0219	0.0000	94.7203	94.7203	0.0305	0.0000	95.4815
Total	0.0575	0.5633	0.4705	1.0800e-003	0.0727	0.0238	0.0965	0.0359	0.0219	0.0578	0.0000	94.7203	94.7203	0.0305	0.0000	95.4815

Chadwick Estates - Los Angeles-South Coast County, Annual

3.3 Drainage Improvements - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0500e-003	1.4800e-003	0.0173	5.0000e-005	5.1000e-003	5.0000e-005	5.1400e-003	1.3700e-003	4.0000e-005	1.4100e-003	0.0000	4.9639	4.9639	1.3000e-004	0.0000	4.9671
Total	2.0500e-003	1.4800e-003	0.0173	5.0000e-005	5.1000e-003	5.0000e-005	5.1400e-003	1.3700e-003	4.0000e-005	1.4100e-003	0.0000	4.9639	4.9639	1.3000e-004	0.0000	4.9671

3.4 Paving & Utilities - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0413	0.3956	0.5486	8.5000e-004		0.0196	0.0196		0.0181	0.0181	0.0000	73.7037	73.7037	0.0232	0.0000	74.2826
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0413	0.3956	0.5486	8.5000e-004		0.0196	0.0196		0.0181	0.0181	0.0000	73.7037	73.7037	0.0232	0.0000	74.2826

Chadwick Estates - Los Angeles-South Coast County, Annual

3.4 Paving & Utilities - 2023

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	3.4100e-003	2.4600e-003	0.0288	9.0000e-005	9.8600e-003	8.0000e-005	9.9400e-003	2.6200e-003	7.0000e-005	2.6900e-003	0.0000	8.2732	8.2732	2.1000e-004	0.0000	8.2785
Total	3.4100e-003	2.4600e-003	0.0288	9.0000e-005	9.8600e-003	8.0000e-005	9.9400e-003	2.6200e-003	7.0000e-005	2.6900e-003	0.0000	8.2732	8.2732	2.1000e-004	0.0000	8.2785

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	0.0413	0.3956	0.5486	8.5000e-004		0.0196	0.0196		0.0181	0.0181	0.0000	73.7036	73.7036	0.0232	0.0000	74.2825
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0413	0.3956	0.5486	8.5000e-004		0.0196	0.0196		0.0181	0.0181	0.0000	73.7036	73.7036	0.0232	0.0000	74.2825

Chadwick Estates - Los Angeles-South Coast County, Annual

3.4 Paving & Utilities - 2023

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	3.4100e-003	2.4600e-003	0.0288	9.0000e-005	8.4900e-003	8.0000e-005	8.5700e-003	2.2800e-003	7.0000e-005	2.3500e-003	0.0000	8.2732	8.2732	2.1000e-004	0.0000	8.2785
Total	3.4100e-003	2.4600e-003	0.0288	9.0000e-005	8.4900e-003	8.0000e-005	8.5700e-003	2.2800e-003	7.0000e-005	2.3500e-003	0.0000	8.2732	8.2732	2.1000e-004	0.0000	8.2785

3.5 Entry Road Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.2600e-003	0.0791	0.1097	1.7000e-004		3.9200e-003	3.9200e-003		3.6200e-003	3.6200e-003	0.0000	14.7407	14.7407	4.6300e-003	0.0000	14.8565
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	8.2600e-003	0.0791	0.1097	1.7000e-004		3.9200e-003	3.9200e-003		3.6200e-003	3.6200e-003	0.0000	14.7407	14.7407	4.6300e-003	0.0000	14.8565

Chadwick Estates - Los Angeles-South Coast County, Annual

3.5 Entry Road Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1000e-004	3.7000e-004	4.3300e-003	1.0000e-005	1.4800e-003	1.0000e-005	1.4900e-003	3.9000e-004	1.0000e-005	4.0000e-004	0.0000	1.2410	1.2410	3.0000e-005	0.0000	1.2418
Total	5.1000e-004	3.7000e-004	4.3300e-003	1.0000e-005	1.4800e-003	1.0000e-005	1.4900e-003	3.9000e-004	1.0000e-005	4.0000e-004	0.0000	1.2410	1.2410	3.0000e-005	0.0000	1.2418

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	8.2600e-003	0.0791	0.1097	1.7000e-004		3.9200e-003	3.9200e-003		3.6200e-003	3.6200e-003	0.0000	14.7407	14.7407	4.6300e-003	0.0000	14.8565
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	8.2600e-003	0.0791	0.1097	1.7000e-004		3.9200e-003	3.9200e-003		3.6200e-003	3.6200e-003	0.0000	14.7407	14.7407	4.6300e-003	0.0000	14.8565

Chadwick Estates - Los Angeles-South Coast County, Annual

3.5 Entry Road Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1000e-004	3.7000e-004	4.3300e-003	1.0000e-005	1.2700e-003	1.0000e-005	1.2900e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.2410	1.2410	3.0000e-005	0.0000	1.2418
Total	5.1000e-004	3.7000e-004	4.3300e-003	1.0000e-005	1.2700e-003	1.0000e-005	1.2900e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.2410	1.2410	3.0000e-005	0.0000	1.2418

3.6 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0771	0.7049	0.7960	1.3200e-003		0.0343	0.0343		0.0323	0.0323	0.0000	113.5843	113.5843	0.0270	0.0000	114.2598
Total	0.0771	0.7049	0.7960	1.3200e-003		0.0343	0.0343		0.0323	0.0323	0.0000	113.5843	113.5843	0.0270	0.0000	114.2598

Chadwick Estates - Los Angeles-South Coast County, Annual

3.6 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1000e-004	3.4700e-003	1.1100e-003	1.0000e-005	3.1000e-004	0.0000	3.1000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	1.1597	1.1597	6.0000e-005	0.0000	1.1613
Worker	9.3000e-004	6.7000e-004	7.8500e-003	2.0000e-005	2.6800e-003	2.0000e-005	2.7100e-003	7.1000e-004	2.0000e-005	7.3000e-004	0.0000	2.2521	2.2521	6.0000e-005	0.0000	2.2536
Total	1.0400e-003	4.1400e-003	8.9600e-003	3.0000e-005	2.9900e-003	2.0000e-005	3.0200e-003	8.0000e-004	2.0000e-005	8.2000e-004	0.0000	3.4119	3.4119	1.2000e-004	0.0000	3.4149

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	0.0771	0.7049	0.7960	1.3200e-003		0.0343	0.0343		0.0323	0.0323	0.0000	113.5842	113.5842	0.0270	0.0000	114.2597
Total	0.0771	0.7049	0.7960	1.3200e-003		0.0343	0.0343		0.0323	0.0323	0.0000	113.5842	113.5842	0.0270	0.0000	114.2597

Chadwick Estates - Los Angeles-South Coast County, Annual

3.6 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1000e-004	3.4700e-003	1.1100e-003	1.0000e-005	2.7000e-004	0.0000	2.8000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	1.1597	1.1597	6.0000e-005	0.0000	1.1613
Worker	9.3000e-004	6.7000e-004	7.8500e-003	2.0000e-005	2.3100e-003	2.0000e-005	2.3300e-003	6.2000e-004	2.0000e-005	6.4000e-004	0.0000	2.2521	2.2521	6.0000e-005	0.0000	2.2536
Total	1.0400e-003	4.1400e-003	8.9600e-003	3.0000e-005	2.5800e-003	2.0000e-005	2.6100e-003	7.0000e-004	2.0000e-005	7.2000e-004	0.0000	3.4119	3.4119	1.2000e-004	0.0000	3.4149

3.6 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0876	0.7999	0.9619	1.6000e-003		0.0365	0.0365		0.0343	0.0343	0.0000	137.9502	137.9502	0.0326	0.0000	138.7658
Total	0.0876	0.7999	0.9619	1.6000e-003		0.0365	0.0365		0.0343	0.0343	0.0000	137.9502	137.9502	0.0326	0.0000	138.7658

Chadwick Estates - Los Angeles-South Coast County, Annual

3.6 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3000e-004	4.2000e-003	1.3100e-003	1.0000e-005	3.7000e-004	0.0000	3.8000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	1.4027	1.4027	8.0000e-005	0.0000	1.4045
Worker	1.0700e-003	7.4000e-004	8.8800e-003	3.0000e-005	3.2600e-003	2.0000e-005	3.2800e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.6499	2.6499	6.0000e-005	0.0000	2.6516
Total	1.2000e-003	4.9400e-003	0.0102	4.0000e-005	3.6300e-003	2.0000e-005	3.6600e-003	9.8000e-004	2.0000e-005	1.0000e-003	0.0000	4.0526	4.0526	1.4000e-004	0.0000	4.0561

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	0.0876	0.7999	0.9619	1.6000e-003		0.0365	0.0365		0.0343	0.0343	0.0000	137.9501	137.9501	0.0326	0.0000	138.7656
Total	0.0876	0.7999	0.9619	1.6000e-003		0.0365	0.0365		0.0343	0.0343	0.0000	137.9501	137.9501	0.0326	0.0000	138.7656

Chadwick Estates - Los Angeles-South Coast County, Annual

3.6 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3000e-004	4.2000e-003	1.3100e-003	1.0000e-005	3.3000e-004	0.0000	3.4000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	1.4027	1.4027	8.0000e-005	0.0000	1.4045
Worker	1.0700e-003	7.4000e-004	8.8800e-003	3.0000e-005	2.8100e-003	2.0000e-005	2.8300e-003	7.5000e-004	2.0000e-005	7.8000e-004	0.0000	2.6499	2.6499	6.0000e-005	0.0000	2.6516
Total	1.2000e-003	4.9400e-003	0.0102	4.0000e-005	3.1400e-003	2.0000e-005	3.1700e-003	8.5000e-004	2.0000e-005	8.8000e-004	0.0000	4.0526	4.0526	1.4000e-004	0.0000	4.0561

3.7 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0788					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6300e-003	0.0110	0.0163	3.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004	0.0000	2.2979	2.2979	1.3000e-004	0.0000	2.3012
Total	0.0805	0.0110	0.0163	3.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004	0.0000	2.2979	2.2979	1.3000e-004	0.0000	2.3012

Chadwick Estates - Los Angeles-South Coast County, Annual

3.7 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	2.7000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0802	0.0802	0.0000	0.0000	0.0802
Total	3.0000e-005	2.0000e-005	2.7000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0802	0.0802	0.0000	0.0000	0.0802

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	0.0788					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6300e-003	0.0110	0.0163	3.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004	0.0000	2.2979	2.2979	1.3000e-004	0.0000	2.3012
Total	0.0805	0.0110	0.0163	3.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004	0.0000	2.2979	2.2979	1.3000e-004	0.0000	2.3012

Chadwick Estates - Los Angeles-South Coast County, Annual

3.7 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	2.7000e-004	0.0000	8.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0802	0.0802	0.0000	0.0000	0.0802
Total	3.0000e-005	2.0000e-005	2.7000e-004	0.0000	8.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0802	0.0802	0.0000	0.0000	0.0802

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Chadwick Estates - 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	0.0406	0.1971	0.5532	2.3300e-003	0.2157	1.7500e-003	0.2174	0.0578	1.6200e-003	0.0594	0.0000	215.6990	215.6990	9.7600e-003	0.0000	215.9429
Unmitigated	0.0406	0.1971	0.5532	2.3300e-003	0.2157	1.7500e-003	0.2174	0.0578	1.6200e-003	0.0594	0.0000	215.6990	215.6990	9.7600e-003	0.0000	215.9429

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	168.00	174.86	149.38	568,341	568,341
Total	168.00	174.86	149.38	568,341	568,341

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834

5.0 Energy Detail

Historical Energy Use: N

Chadwick Estates - Los Angeles-South Coast County, Annual

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	36.6147	36.6147	1.5100e-003	3.1000e-004	36.7457
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	36.6147	36.6147	1.5100e-003	3.1000e-004	36.7457
NaturalGas Mitigated	2.0700e-003	0.0177	7.5400e-003	1.1000e-004		1.4300e-003	1.4300e-003		1.4300e-003	1.4300e-003	0.0000	20.5261	20.5261	3.9000e-004	3.8000e-004	20.6481
NaturalGas Unmitigated	2.0700e-003	0.0177	7.5400e-003	1.1000e-004		1.4300e-003	1.4300e-003		1.4300e-003	1.4300e-003	0.0000	20.5261	20.5261	3.9000e-004	3.8000e-004	20.6481

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					
Single Family Housing	384644	2.0700e-003	0.0177	7.5400e-003	1.1000e-004		1.4300e-003	1.4300e-003		1.4300e-003	1.4300e-003	0.0000	20.5261	20.5261	3.9000e-004	3.8000e-004	20.6481
Total		2.0700e-003	0.0177	7.5400e-003	1.1000e-004		1.4300e-003	1.4300e-003		1.4300e-003	1.4300e-003	0.0000	20.5261	20.5261	3.9000e-004	3.8000e-004	20.6481

Chadwick Estates - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - Natural Gas

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	384644	2.0700e-003	0.0177	7.5400e-003	1.1000e-004		1.4300e-003	1.4300e-003		1.4300e-003	1.4300e-003	0.0000	20.5261	20.5261	3.9000e-004	3.8000e-004	20.6481
Total		2.0700e-003	0.0177	7.5400e-003	1.1000e-004		1.4300e-003	1.4300e-003		1.4300e-003	1.4300e-003	0.0000	20.5261	20.5261	3.9000e-004	3.8000e-004	20.6481

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	114916	36.6147	1.5100e-003	3.1000e-004	36.7457
Total		36.6147	1.5100e-003	3.1000e-004	36.7457

Chadwick Estates - 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			
Single Family Housing	114916	36.6147	1.5100e-003	3.1000e-004	36.7457
Total		36.6147	1.5100e-003	3.1000e-004	36.7457

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1036	4.5600e-003	0.1455	3.0000e-005		1.0400e-003	1.0400e-003		1.0400e-003	1.0400e-003	0.0000	3.5978	3.5978	2.9000e-004	6.0000e-005	3.6234
Unmitigated	0.1036	4.5600e-003	0.1455	3.0000e-005		1.0400e-003	1.0400e-003		1.0400e-003	1.0400e-003	0.0000	3.5978	3.5978	2.9000e-004	6.0000e-005	3.6234

Chadwick Estates - Los Angeles-South Coast County, Annual

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	7.8800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0911					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	3.4000e-004	2.9000e-003	1.2400e-003	2.0000e-005		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	3.3619	3.3619	6.0000e-005	6.0000e-005	3.3819
Landscaping	4.3300e-003	1.6600e-003	0.1442	1.0000e-005		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004	0.0000	0.2358	0.2358	2.3000e-004	0.0000	0.2415
Total	0.1036	4.5600e-003	0.1455	3.0000e-005		1.0300e-003	1.0300e-003		1.0300e-003	1.0300e-003	0.0000	3.5978	3.5978	2.9000e-004	6.0000e-005	3.6234

Chadwick Estates - 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	7.8800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0911					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	3.4000e-004	2.9000e-003	1.2400e-003	2.0000e-005		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	3.3619	3.3619	6.0000e-005	6.0000e-005	3.3819
Landscaping	4.3300e-003	1.6600e-003	0.1442	1.0000e-005		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004	0.0000	0.2358	0.2358	2.3000e-004	0.0000	0.2415
Total	0.1036	4.5600e-003	0.1455	3.0000e-005		1.0300e-003	1.0300e-003		1.0300e-003	1.0300e-003	0.0000	3.5978	3.5978	2.9000e-004	6.0000e-005	3.6234

7.0 Water Detail

7.1 Mitigation Measures Water

Chadwick Estates - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	6.1093	0.0300	7.5000e-004	7.0824
Unmitigated	6.1093	0.0300	7.5000e-004	7.0824

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	0.912156 / 0.575055	6.1093	0.0300	7.5000e-004	7.0824
Total		6.1093	0.0300	7.5000e-004	7.0824

Chadwick Estates - 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			
Single Family Housing	0.912156 / 0.575055	6.1093	0.0300	7.5000e-004	7.0824
Total		6.1093	0.0300	7.5000e-004	7.0824

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	3.3291	0.1967	0.0000	8.2476
Unmitigated	3.3291	0.1967	0.0000	8.2476

Chadwick Estates - 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			
Single Family Housing	16.4	3.3291	0.1967	0.0000	8.2476
Total		3.3291	0.1967	0.0000	8.2476

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	16.4	3.3291	0.1967	0.0000	8.2476
Total		3.3291	0.1967	0.0000	8.2476

9.0 Operational Offroad

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

Chadwick Estates - Los Angeles-South Coast County, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

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

11.0 Vegetation
