

APPENDIX A

AIR QUALITY AND GREENHOUSE GAS MODELING OUTPUTS



This page intentionally left blank

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Annual

Alamitos Bay Shoreline Trail Project
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	5.22	Acre	5.22	227,383.20	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2022
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

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Annual

Project Characteristics -

Land Use - City park land use is selected for the Alamitos Bay Shoreline Trail project.

Construction Phase - Construction of Phase 1, Phase 2, and Phase 3 are anticipated to occur during calendar years 2020, 2021, 2022, respectively.

Off-road Equipment - Phase 1 Site prep and demolition activities would involve two small haul trucks, one small landscape tractor and one compactor.

Off-road Equipment - Phase 1 Paving activities would involve two delivery trucks, cement mixers, hydraulic pumps, small loader, and two electric cushion carts.

Off-road Equipment - Phase 1 landscaping activities would involve one small landscape tractor and delivery truck.

Off-road Equipment - Phase 2 paving activities would involve cement mixer, hydraulic pump, small tractor loader, concrete trucks, and delivery trucks.

Off-road Equipment - Phase 2 landscaping activities would involve one small landscape tractor and delivery trucks.

Off-road Equipment - Phase 1 demolition activities would involve concrete saw, small landscape tractor, and haul trucks.

Off-road Equipment - Phase 3 demolition activities would involve concrete saw, small landscape tractor, and haul trucks.

Off-road Equipment - Phase 3 paving activities would involve cement mixer, concrete trucks, hydraulic pump, small tractor loader, and delivery trucks.

Off-road Equipment - Phase 3 landscaping activities would involve one small landscape tractor and delivery trucks.

Demolition - Phase 1 and Phase 3 site clearing are approx. 17,500 sq ft and 13,000 sq ft, respectively. Assume 10 ft x 10 ft x 0.33 ft concrete slab = 2,000 lbs.

Trips and VMT - Haul trucks, Delivery trucks, and Cement trucks were added to the data entry.

Vehicle Trips - No vehicle operational emissions

Road Dust - No vehicle operation.

Consumer Products - No consumer products.

Area Coating -

Landscape Equipment - No operation

Water And Wastewater - No change in watering.

Solid Waste - No solid waste during operation

Land Use Change -

Sequestration -

Construction Off-road Equipment Mitigation -

Energy Mitigation -

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstructionPhase	NumDays	20.00	5.00
tblConstructionPhase	NumDays	10.00	60.00
tblConstructionPhase	PhaseEndDate	3/1/2020	3/6/2020
tblConstructionPhase	PhaseEndDate	3/1/2020	6/26/2020
tblConstructionPhase	PhaseEndDate	3/1/2020	5/29/2020
tblConstructionPhase	PhaseStartDate	3/2/2020	6/1/2020
tblConstructionPhase	PhaseStartDate	3/2/2020	3/9/2020
tblOffRoadEquipment	HorsePower	97.00	50.00
tblOffRoadEquipment	HorsePower	84.00	25.00
tblOffRoadEquipment	HorsePower	84.00	25.00
tblOffRoadEquipment	HorsePower	97.00	50.00
tblOffRoadEquipment	HorsePower	203.00	50.00
tblOffRoadEquipment	HorsePower	84.00	25.00
tblOffRoadEquipment	LoadFactor	0.37	0.73
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Annual

tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	OperationalYear	2018	2022
tblRoadDust	MeanVehicleSpeed	40	0
tblRoadDust	RoadPercentPave	100	0
tblSequestration	NumberOfNewTrees	0.00	10.00
tblSolidWaste	SolidWasteGenerationRate	0.45	0.00
tblTripsAndVMT	HaulingTripNumber	1.00	0.00
tblTripsAndVMT	HaulingTripNumber	1.00	0.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	18.00	5.00

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Annual

tblTripsAndVMT	WorkerTripNumber	23.00	8.00
tblTripsAndVMT	WorkerTripNumber	10.00	3.00
tblTripsAndVMT	WorkerTripNumber	18.00	5.00
tblTripsAndVMT	WorkerTripNumber	23.00	8.00
tblTripsAndVMT	WorkerTripNumber	23.00	8.00
tblTripsAndVMT	WorkerTripNumber	10.00	3.00
tblTripsAndVMT	WorkerTripNumber	10.00	3.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblWater	OutdoorWaterUseRate	6,219,532.65	0.00

2.0 Emissions Summary

Alamitos Bay Shoreline Trail Project - 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					
2020	0.1310	1.3334	0.6617	1.2500e-003	0.5449	0.0666	0.6115	0.2987	0.0613	0.3600	0.0000	110.1003	110.1003	0.0337	0.0000	110.9419
2021	0.0355	0.3423	0.2530	4.4000e-004	0.0918	0.0170	0.1089	0.0501	0.0157	0.0658	0.0000	38.8321	38.8321	0.0115	0.0000	39.1195
2022	0.0556	0.5409	0.4477	8.3000e-004	0.0923	0.0261	0.1184	0.0502	0.0242	0.0744	0.0000	72.3548	72.3548	0.0213	0.0000	72.8860
Maximum	0.1310	1.3334	0.6617	1.2500e-003	0.5449	0.0666	0.6115	0.2987	0.0613	0.3600	0.0000	110.1003	110.1003	0.0337	0.0000	110.9419

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.1310	1.3334	0.6617	1.2500e-003	0.2467	0.0666	0.3133	0.1348	0.0613	0.1962	0.0000	110.1002	110.1002	0.0337	0.0000	110.9418
2021	0.0355	0.3423	0.2530	4.4000e-004	0.0421	0.0170	0.0592	0.0228	0.0157	0.0385	0.0000	38.8320	38.8320	0.0115	0.0000	39.1194
2022	0.0556	0.5409	0.4477	8.3000e-004	0.0426	0.0261	0.0687	0.0229	0.0242	0.0471	0.0000	72.3547	72.3547	0.0213	0.0000	72.8859
Maximum	0.1310	1.3334	0.6617	1.2500e-003	0.2467	0.0666	0.3133	0.1348	0.0613	0.1962	0.0000	110.1002	110.1002	0.0337	0.0000	110.9418

Alamitos Bay Shoreline Trail Project - 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	54.54	0.00	47.40	54.77	0.00	43.68	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	3-2-2020	6-1-2020	0.0740	0.0740
2	6-2-2020	9-1-2020	0.1729	0.1729
4	12-2-2020	3-1-2021	0.1010	0.1010
5	3-2-2021	6-1-2021	0.0741	0.0741
8	12-2-2021	3-1-2022	0.3960	0.3960
9	3-2-2022	6-1-2022	0.0163	0.0163
		Highest	0.3960	0.3960

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	2.1400e-003	0.0000	7.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3000e-004	1.3000e-004	0.0000	0.0000	1.4000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.1400e-003	0.0000	7.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.3000e-004	1.3000e-004	0.0000	0.0000	1.4000e-004

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Annual

2.3 Vegetation

Vegetation

	CO2e
Category	MT
New Trees	7.0800
Vegetation Land Change	0.0000
Total	7.0800

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Phase 1 Demolition	Demolition	3/2/2020	3/6/2020	5	5	
2	Phase 1 Paving	Paving	6/1/2020	6/26/2020	5	20	
3	Phase 1 Site Prep, Structure, Landscaping	Site Preparation	3/9/2020	5/29/2020	5	60	
4	Phase 2 Site Paving	Paving	2/15/2021	3/12/2021	5	20	
5	Phase 2 Landscaping	Site Preparation	2/1/2021	2/12/2021	5	10	
6	Phase 3 Demolition	Demolition	1/3/2022	1/28/2022	5	20	
7	Phase 3 Site Paving, Structure, Landscaping	Paving	2/7/2022	3/4/2022	5	20	
8	Phase 3 Landscaping	Site Preparation	3/7/2022	3/18/2022	5	10	

Acres of Grading (Site Preparation Phase): 0

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Annual

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; 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
Phase 3 Demolition	Concrete/Industrial Saws	1	6.00	81	0.73
Phase 3 Demolition	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Phase 1 Demolition	Concrete/Industrial Saws	1	6.00	81	0.73
Phase 3 Site Paving, Structure, Landscaping	Cement and Mortar Mixers	1	6.00	9	0.56
Phase 2 Site Paving	Pumps	1	6.00	25	0.74
Phase 1 Demolition	Excavators	3	8.00	158	0.38
Phase 1 Demolition	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Phase 2 Site Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Phase 2 Site Paving	Tractors/Loaders/Backhoes	1	6.00	50	0.73
Phase 3 Site Paving, Structure, Landscaping	Pumps	1	6.00	25	0.74
Phase 3 Demolition	Excavators	3	8.00	158	0.38
Phase 3 Site Paving, Structure, Landscaping	Tractors/Loaders/Backhoes	1	6.00	50	0.37
Phase 1 Paving	Pavers	2	8.00	130	0.42
Phase 2 Site Paving	Pavers	2	8.00	130	0.42
Phase 3 Site Paving, Structure, Landscaping	Pavers	2	8.00	130	0.42
Phase 1 Site Prep, Structure, Landscaping	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Phase 1 Paving	Paving Equipment	2	8.00	132	0.36
Phase 2 Site Paving	Paving Equipment	2	8.00	132	0.36
Phase 3 Site Paving, Structure, Landscaping	Paving Equipment	2	8.00	132	0.36

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Annual

Phase 2 Landscaping	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Phase 3 Landscaping	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Architectural Coating	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Architectural Coating	Plate Compactors	1	6.00	8	0.43
Phase 1 Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Phase 1 Paving	Rubber Tired Loaders	1	6.00	50	0.36
Phase 1 Paving	Pumps	1	6.00	25	0.74
Phase 1 Paving	Rollers	2	8.00	80	0.38
Phase 2 Site Paving	Rollers	2	8.00	80	0.38
Phase 3 Site Paving, Structure, Landscaping	Rollers	2	8.00	80	0.38
Phase 1 Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Phase 3 Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Phase 1 Site Prep, Structure, Landscaping	Rubber Tired Dozers	3	8.00	247	0.40
Phase 2 Landscaping	Rubber Tired Dozers	3	8.00	247	0.40
Phase 3 Landscaping	Rubber Tired Dozers	3	8.00	247	0.40

Trips and VMT

Alamitos Bay Shoreline Trail Project - 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
Phase 3 Demolition	7	5.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Site Paving	9	8.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Demolition	7	5.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Site Paving, Structure, Landscaping	9	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Paving	9	8.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Site Prep, Structure, Landscaping	4	3.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Landscaping	4	3.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Landscaping	4	3.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Clean Paved Roads

3.2 Phase 1 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.0000e-005	0.0000	9.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.4100e-003	0.0849	0.0564	1.0000e-004		4.2700e-003	4.2700e-003		3.9600e-003	3.9600e-003	0.0000	8.6752	8.6752	2.5400e-003	0.0000	8.7388
Total	8.4100e-003	0.0849	0.0564	1.0000e-004	9.0000e-005	4.2700e-003	4.3600e-003	1.0000e-005	3.9600e-003	3.9700e-003	0.0000	8.6752	8.6752	2.5400e-003	0.0000	8.7388

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Annual

3.2 Phase 1 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	5.4000e-004	1.5000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1242	0.1242	1.0000e-005	0.0000	0.1244
Worker	6.0000e-005	5.0000e-005	5.1000e-004	0.0000	1.4000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1277	0.1277	0.0000	0.0000	0.1278
Total	8.0000e-005	5.9000e-004	6.6000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.2519	0.2519	1.0000e-005	0.0000	0.2522

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.4100e-003	0.0849	0.0564	1.0000e-004		4.2700e-003	4.2700e-003		3.9600e-003	3.9600e-003	0.0000	8.6752	8.6752	2.5400e-003	0.0000	8.7388
Total	8.4100e-003	0.0849	0.0564	1.0000e-004	4.0000e-005	4.2700e-003	4.3100e-003	1.0000e-005	3.9600e-003	3.9700e-003	0.0000	8.6752	8.6752	2.5400e-003	0.0000	8.7388

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Annual

3.2 Phase 1 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	5.4000e-004	1.5000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1242	0.1242	1.0000e-005	0.0000	0.1244
Worker	6.0000e-005	5.0000e-005	5.1000e-004	0.0000	1.4000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1277	0.1277	0.0000	0.0000	0.1278
Total	8.0000e-005	5.9000e-004	6.6000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.2519	0.2519	1.0000e-005	0.0000	0.2522

3.3 Phase 1 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0194	0.1670	0.1710	2.6000e-004		9.2800e-003	9.2800e-003		8.5900e-003	8.5900e-003	0.0000	22.7669	22.7669	7.0300e-003	0.0000	22.9427
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0194	0.1670	0.1710	2.6000e-004		9.2800e-003	9.2800e-003		8.5900e-003	8.5900e-003	0.0000	22.7669	22.7669	7.0300e-003	0.0000	22.9427

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Annual

3.3 Phase 1 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2000e-004	6.5000e-003	1.7600e-003	2.0000e-005	3.8000e-004	3.0000e-005	4.1000e-004	1.1000e-004	3.0000e-005	1.4000e-004	0.0000	1.4906	1.4906	9.0000e-005	0.0000	1.4929
Worker	3.7000e-004	3.0000e-004	3.2900e-003	1.0000e-005	8.8000e-004	1.0000e-005	8.8000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.8171	0.8171	3.0000e-005	0.0000	0.8177
Total	5.9000e-004	6.8000e-003	5.0500e-003	3.0000e-005	1.2600e-003	4.0000e-005	1.2900e-003	3.4000e-004	4.0000e-005	3.8000e-004	0.0000	2.3076	2.3076	1.2000e-004	0.0000	2.3107

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	0.0194	0.1670	0.1710	2.6000e-004		9.2800e-003	9.2800e-003		8.5900e-003	8.5900e-003	0.0000	22.7669	22.7669	7.0300e-003	0.0000	22.9427
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0194	0.1670	0.1710	2.6000e-004		9.2800e-003	9.2800e-003		8.5900e-003	8.5900e-003	0.0000	22.7669	22.7669	7.0300e-003	0.0000	22.9427

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Annual

3.3 Phase 1 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2000e-004	6.5000e-003	1.7600e-003	2.0000e-005	3.8000e-004	3.0000e-005	4.1000e-004	1.1000e-004	3.0000e-005	1.4000e-004	0.0000	1.4906	1.4906	9.0000e-005	0.0000	1.4929
Worker	3.7000e-004	3.0000e-004	3.2900e-003	1.0000e-005	8.8000e-004	1.0000e-005	8.8000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.8171	0.8171	3.0000e-005	0.0000	0.8177
Total	5.9000e-004	6.8000e-003	5.0500e-003	3.0000e-005	1.2600e-003	4.0000e-005	1.2900e-003	3.4000e-004	4.0000e-005	3.8000e-004	0.0000	2.3076	2.3076	1.2000e-004	0.0000	2.3107

3.4 Phase 1 Site Prep, Structure, Landscaping - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.5420	0.0000	0.5420	0.2979	0.0000	0.2979	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1019	1.0673	0.4231	8.4000e-004		0.0529	0.0529		0.0487	0.0487	0.0000	73.6889	73.6889	0.0238	0.0000	74.2847
Total	0.1019	1.0673	0.4231	8.4000e-004	0.5420	0.0529	0.5949	0.2979	0.0487	0.3466	0.0000	73.6889	73.6889	0.0238	0.0000	74.2847

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Annual

3.4 Phase 1 Site Prep, Structure, Landscaping - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2000e-004	6.5000e-003	1.7600e-003	2.0000e-005	3.8000e-004	3.0000e-005	4.1000e-004	1.1000e-004	3.0000e-005	1.4000e-004	0.0000	1.4906	1.4906	9.0000e-005	0.0000	1.4929
Worker	4.2000e-004	3.4000e-004	3.7000e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.9192	0.9192	3.0000e-005	0.0000	0.9199
Total	6.4000e-004	6.8400e-003	5.4600e-003	3.0000e-005	1.3700e-003	4.0000e-005	1.4000e-003	3.7000e-004	4.0000e-005	4.1000e-004	0.0000	2.4098	2.4098	1.2000e-004	0.0000	2.4129

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					0.2439	0.0000	0.2439	0.1341	0.0000	0.1341	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1019	1.0673	0.4231	8.4000e-004		0.0529	0.0529		0.0487	0.0487	0.0000	73.6888	73.6888	0.0238	0.0000	74.2846
Total	0.1019	1.0673	0.4231	8.4000e-004	0.2439	0.0529	0.2968	0.1341	0.0487	0.1828	0.0000	73.6888	73.6888	0.0238	0.0000	74.2846

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Annual

3.4 Phase 1 Site Prep, Structure, Landscaping - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2000e-004	6.5000e-003	1.7600e-003	2.0000e-005	3.8000e-004	3.0000e-005	4.1000e-004	1.1000e-004	3.0000e-005	1.4000e-004	0.0000	1.4906	1.4906	9.0000e-005	0.0000	1.4929
Worker	4.2000e-004	3.4000e-004	3.7000e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.9192	0.9192	3.0000e-005	0.0000	0.9199
Total	6.4000e-004	6.8400e-003	5.4600e-003	3.0000e-005	1.3700e-003	4.0000e-005	1.4000e-003	3.7000e-004	4.0000e-005	4.1000e-004	0.0000	2.4098	2.4098	1.2000e-004	0.0000	2.4129

3.5 Phase 2 Site Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0185	0.1634	0.1785	2.8000e-004		8.6100e-003	8.6100e-003		7.9600e-003	7.9600e-003	0.0000	23.8850	23.8850	7.3900e-003	0.0000	24.0698
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0185	0.1634	0.1785	2.8000e-004		8.6100e-003	8.6100e-003		7.9600e-003	7.9600e-003	0.0000	23.8850	23.8850	7.3900e-003	0.0000	24.0698

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Annual

3.5 Phase 2 Site Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.9000e-004	5.9200e-003	1.6100e-003	2.0000e-005	3.8000e-004	1.0000e-005	3.9000e-004	1.1000e-004	1.0000e-005	1.2000e-004	0.0000	1.4790	1.4790	9.0000e-005	0.0000	1.4813
Worker	3.4000e-004	2.7000e-004	3.0300e-003	1.0000e-005	8.8000e-004	1.0000e-005	8.8000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.7911	0.7911	2.0000e-005	0.0000	0.7917
Total	5.3000e-004	6.1900e-003	4.6400e-003	3.0000e-005	1.2600e-003	2.0000e-005	1.2700e-003	3.4000e-004	2.0000e-005	3.6000e-004	0.0000	2.2701	2.2701	1.1000e-004	0.0000	2.2730

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	0.0185	0.1634	0.1785	2.8000e-004		8.6100e-003	8.6100e-003		7.9600e-003	7.9600e-003	0.0000	23.8850	23.8850	7.3900e-003	0.0000	24.0698
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0185	0.1634	0.1785	2.8000e-004		8.6100e-003	8.6100e-003		7.9600e-003	7.9600e-003	0.0000	23.8850	23.8850	7.3900e-003	0.0000	24.0698

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Annual

3.5 Phase 2 Site Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.9000e-004	5.9200e-003	1.6100e-003	2.0000e-005	3.8000e-004	1.0000e-005	3.9000e-004	1.1000e-004	1.0000e-005	1.2000e-004	0.0000	1.4790	1.4790	9.0000e-005	0.0000	1.4813
Worker	3.4000e-004	2.7000e-004	3.0300e-003	1.0000e-005	8.8000e-004	1.0000e-005	8.8000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.7911	0.7911	2.0000e-005	0.0000	0.7917
Total	5.3000e-004	6.1900e-003	4.6400e-003	3.0000e-005	1.2600e-003	2.0000e-005	1.2700e-003	3.4000e-004	2.0000e-005	3.6000e-004	0.0000	2.2701	2.2701	1.1000e-004	0.0000	2.2730

3.6 Phase 2 Landscaping - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0164	0.1717	0.0690	1.4000e-004		8.4100e-003	8.4100e-003		7.7300e-003	7.7300e-003	0.0000	12.2821	12.2821	3.9700e-003	0.0000	12.3814
Total	0.0164	0.1717	0.0690	1.4000e-004	0.0903	8.4100e-003	0.0987	0.0497	7.7300e-003	0.0574	0.0000	12.2821	12.2821	3.9700e-003	0.0000	12.3814

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Annual

3.6 Phase 2 Landscaping - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0000e-005	9.9000e-004	2.7000e-004	0.0000	6.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2465	0.2465	2.0000e-005	0.0000	0.2469
Worker	6.0000e-005	5.0000e-005	5.7000e-004	0.0000	1.6000e-004	0.0000	1.7000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1483	0.1483	0.0000	0.0000	0.1485
Total	9.0000e-005	1.0400e-003	8.4000e-004	0.0000	2.2000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.3948	0.3948	2.0000e-005	0.0000	0.3953

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					0.0407	0.0000	0.0407	0.0223	0.0000	0.0223	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0164	0.1717	0.0690	1.4000e-004		8.4100e-003	8.4100e-003		7.7300e-003	7.7300e-003	0.0000	12.2821	12.2821	3.9700e-003	0.0000	12.3814
Total	0.0164	0.1717	0.0690	1.4000e-004	0.0407	8.4100e-003	0.0491	0.0223	7.7300e-003	0.0301	0.0000	12.2821	12.2821	3.9700e-003	0.0000	12.3814

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Annual

3.6 Phase 2 Landscaping - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0000e-005	9.9000e-004	2.7000e-004	0.0000	6.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2465	0.2465	2.0000e-005	0.0000	0.2469
Worker	6.0000e-005	5.0000e-005	5.7000e-004	0.0000	1.6000e-004	0.0000	1.7000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1483	0.1483	0.0000	0.0000	0.1485
Total	9.0000e-005	1.0400e-003	8.4000e-004	0.0000	2.2000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.3948	0.3948	2.0000e-005	0.0000	0.3953

3.7 Phase 3 Demolition - 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					7.0000e-005	0.0000	7.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0267	0.2628	0.2136	4.0000e-004		0.0127	0.0127		0.0118	0.0118	0.0000	34.6957	34.6957	0.0101	0.0000	34.9491
Total	0.0267	0.2628	0.2136	4.0000e-004	7.0000e-005	0.0127	0.0128	1.0000e-005	0.0118	0.0118	0.0000	34.6957	34.6957	0.0101	0.0000	34.9491

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Annual

3.7 Phase 3 Demolition - 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	6.0000e-005	1.8800e-003	5.1000e-004	1.0000e-005	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.4887	0.4887	3.0000e-005	0.0000	0.4894
Worker	2.0000e-004	1.5000e-004	1.7400e-003	1.0000e-005	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4771	0.4771	1.0000e-005	0.0000	0.4774
Total	2.6000e-004	2.0300e-003	2.2500e-003	2.0000e-005	6.8000e-004	0.0000	6.8000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.9657	0.9657	4.0000e-005	0.0000	0.9668

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0267	0.2628	0.2136	4.0000e-004		0.0127	0.0127		0.0118	0.0118	0.0000	34.6956	34.6956	0.0101	0.0000	34.9491
Total	0.0267	0.2628	0.2136	4.0000e-004	3.0000e-005	0.0127	0.0128	0.0000	0.0118	0.0118	0.0000	34.6956	34.6956	0.0101	0.0000	34.9491

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Annual

3.7 Phase 3 Demolition - 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	6.0000e-005	1.8800e-003	5.1000e-004	1.0000e-005	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.4887	0.4887	3.0000e-005	0.0000	0.4894
Worker	2.0000e-004	1.5000e-004	1.7400e-003	1.0000e-005	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4771	0.4771	1.0000e-005	0.0000	0.4774
Total	2.6000e-004	2.0300e-003	2.2500e-003	2.0000e-005	6.8000e-004	0.0000	6.8000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.9657	0.9657	4.0000e-005	0.0000	0.9668

3.8 Phase 3 Site Paving, Structure, Landscaping - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0150	0.1348	0.1657	2.6000e-004		6.7900e-003	6.7900e-003		6.2900e-003	6.2900e-003	0.0000	22.7750	22.7750	7.0300e-003	0.0000	22.9507
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0150	0.1348	0.1657	2.6000e-004		6.7900e-003	6.7900e-003		6.2900e-003	6.2900e-003	0.0000	22.7750	22.7750	7.0300e-003	0.0000	22.9507

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Annual

3.8 Phase 3 Site Paving, Structure, Landscaping - 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	6.0000e-005	1.8800e-003	5.1000e-004	1.0000e-005	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.4887	0.4887	3.0000e-005	0.0000	0.4894
Worker	3.2000e-004	2.4000e-004	2.7900e-003	1.0000e-005	8.8000e-004	1.0000e-005	8.8000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.7633	0.7633	2.0000e-005	0.0000	0.7639
Total	3.8000e-004	2.1200e-003	3.3000e-003	2.0000e-005	1.0100e-003	1.0000e-005	1.0100e-003	2.7000e-004	1.0000e-005	2.8000e-004	0.0000	1.2520	1.2520	5.0000e-005	0.0000	1.2532

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	0.0150	0.1348	0.1657	2.6000e-004		6.7900e-003	6.7900e-003		6.2900e-003	6.2900e-003	0.0000	22.7750	22.7750	7.0300e-003	0.0000	22.9507
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0150	0.1348	0.1657	2.6000e-004		6.7900e-003	6.7900e-003		6.2900e-003	6.2900e-003	0.0000	22.7750	22.7750	7.0300e-003	0.0000	22.9507

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Annual

3.8 Phase 3 Site Paving, Structure, Landscaping - 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	6.0000e-005	1.8800e-003	5.1000e-004	1.0000e-005	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.4887	0.4887	3.0000e-005	0.0000	0.4894
Worker	3.2000e-004	2.4000e-004	2.7900e-003	1.0000e-005	8.8000e-004	1.0000e-005	8.8000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.7633	0.7633	2.0000e-005	0.0000	0.7639
Total	3.8000e-004	2.1200e-003	3.3000e-003	2.0000e-005	1.0100e-003	1.0000e-005	1.0100e-003	2.7000e-004	1.0000e-005	2.8000e-004	0.0000	1.2520	1.2520	5.0000e-005	0.0000	1.2532

3.9 Phase 3 Landscaping - 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					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0132	0.1382	0.0621	1.4000e-004		6.6000e-003	6.6000e-003		6.0700e-003	6.0700e-003	0.0000	12.2789	12.2789	3.9700e-003	0.0000	12.3782
Total	0.0132	0.1382	0.0621	1.4000e-004	0.0903	6.6000e-003	0.0969	0.0497	6.0700e-003	0.0557	0.0000	12.2789	12.2789	3.9700e-003	0.0000	12.3782

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Annual

3.9 Phase 3 Landscaping - 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	3.0000e-005	9.4000e-004	2.5000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2443	0.2443	1.0000e-005	0.0000	0.2447
Worker	6.0000e-005	5.0000e-005	5.2000e-004	0.0000	1.6000e-004	0.0000	1.7000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1431	0.1431	0.0000	0.0000	0.1432
Total	9.0000e-005	9.9000e-004	7.7000e-004	0.0000	2.2000e-004	0.0000	2.3000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.3875	0.3875	1.0000e-005	0.0000	0.3879

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					0.0407	0.0000	0.0407	0.0223	0.0000	0.0223	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0132	0.1382	0.0621	1.4000e-004		6.6000e-003	6.6000e-003		6.0700e-003	6.0700e-003	0.0000	12.2789	12.2789	3.9700e-003	0.0000	12.3782
Total	0.0132	0.1382	0.0621	1.4000e-004	0.0407	6.6000e-003	0.0473	0.0223	6.0700e-003	0.0284	0.0000	12.2789	12.2789	3.9700e-003	0.0000	12.3782

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Annual

3.9 Phase 3 Landscaping - 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	3.0000e-005	9.4000e-004	2.5000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2443	0.2443	1.0000e-005	0.0000	0.2447
Worker	6.0000e-005	5.0000e-005	5.2000e-004	0.0000	1.6000e-004	0.0000	1.7000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1431	0.1431	0.0000	0.0000	0.1432
Total	9.0000e-005	9.9000e-004	7.7000e-004	0.0000	2.2000e-004	0.0000	2.3000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.3875	0.3875	1.0000e-005	0.0000	0.3879

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Alamitos Bay Shoreline Trail Project - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876

5.0 Energy Detail

Historical Energy Use: N

Alamitos Bay Shoreline Trail Project - 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					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Alamitos Bay Shoreline Trail Project - 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			
City Park	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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	2.1400e-003	0.0000	7.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3000e-004	1.3000e-004	0.0000	0.0000	1.4000e-004
Unmitigated	2.1400e-003	0.0000	7.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3000e-004	1.3000e-004	0.0000	0.0000	1.4000e-004

Alamitos Bay Shoreline Trail Project - 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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.1400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	7.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3000e-004	1.3000e-004	0.0000	0.0000	1.4000e-004
Total	2.1500e-003	0.0000	7.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3000e-004	1.3000e-004	0.0000	0.0000	1.4000e-004

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.1400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	7.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3000e-004	1.3000e-004	0.0000	0.0000	1.4000e-004
Total	2.1500e-003	0.0000	7.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3000e-004	1.3000e-004	0.0000	0.0000	1.4000e-004

7.0 Water Detail

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Annual

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Alamitos Bay Shoreline Trail Project - 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			
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

Alamitos Bay Shoreline Trail Project - 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			
City Park	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

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

Alamitos Bay Shoreline Trail Project - 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

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	7.0800	0.0000	0.0000	7.0800

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Annual

11.1 Vegetation Land Change

Vegetation Type

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Others	1 / 1	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

11.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	10	7.0800	0.0000	0.0000	7.0800
Total		7.0800	0.0000	0.0000	7.0800

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Summer

Alamitos Bay Shoreline Trail Project
Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	5.22	Acre	5.22	227,383.20	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2022
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

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Summer

Project Characteristics -

Land Use - City park land use is selected for the Alamitos Bay Shoreline Trail project.

Construction Phase - Construction of Phase 1, Phase 2, and Phase 3 are anticipated to occur during calendar years 2020, 2021, 2022, respectively.

Off-road Equipment - Phase 1 Site prep and demolition activities would involve two small haul trucks, one small landscape tractor and one compactor.

Off-road Equipment - Phase 1 Paving activities would involve two delivery trucks, cement mixers, hydraulic pumps, small loader, and two electric cushion carts.

Off-road Equipment - Phase 1 landscaping activities would involve one small landscape tractor and delivery truck.

Off-road Equipment - Phase 2 paving activities would involve cement mixer, hydraulic pump, small tractor loader, concrete trucks, and delivery trucks.

Off-road Equipment - Phase 2 landscaping activities would involve one small landscape tractor and delivery trucks.

Off-road Equipment - Phase 1 demolition activities would involve concrete saw, small landscape tractor, and haul trucks.

Off-road Equipment - Phase 3 demolition activities would involve concrete saw, small landscape tractor, and haul trucks.

Off-road Equipment - Phase 3 paving activities would involve cement mixer, concrete trucks, hydraulic pump, small tractor loader, and delivery trucks.

Off-road Equipment - Phase 3 landscaping activities would involve one small landscape tractor and delivery trucks.

Demolition - Phase 1 and Phase 3 site clearing are approx. 17,500 sq ft and 13,000 sq ft, respectively. Assume 10 ft x 10 ft x 0.33 ft concrete slab = 2,000 lbs.

Trips and VMT - Haul trucks, Delivery trucks, and Cement trucks were added to the data entry.

Vehicle Trips - No vehicle operational emissions

Road Dust - No vehicle operation.

Consumer Products - No consumer products.

Area Coating -

Landscape Equipment - No operation

Water And Wastewater - No change in watering.

Solid Waste - No solid waste during operation

Land Use Change -

Sequestration -

Construction Off-road Equipment Mitigation -

Energy Mitigation -

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Summer

Table Name	Column Name	Default Value	New Value
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstructionPhase	NumDays	20.00	5.00
tblConstructionPhase	NumDays	10.00	60.00
tblConstructionPhase	PhaseEndDate	3/1/2020	3/6/2020
tblConstructionPhase	PhaseEndDate	3/1/2020	6/26/2020
tblConstructionPhase	PhaseEndDate	3/1/2020	5/29/2020
tblConstructionPhase	PhaseStartDate	3/2/2020	6/1/2020
tblConstructionPhase	PhaseStartDate	3/2/2020	3/9/2020
tblOffRoadEquipment	HorsePower	97.00	50.00
tblOffRoadEquipment	HorsePower	84.00	25.00
tblOffRoadEquipment	HorsePower	84.00	25.00
tblOffRoadEquipment	HorsePower	97.00	50.00
tblOffRoadEquipment	HorsePower	203.00	50.00
tblOffRoadEquipment	HorsePower	84.00	25.00
tblOffRoadEquipment	LoadFactor	0.37	0.73
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Summer

tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	OperationalYear	2018	2022
tblRoadDust	MeanVehicleSpeed	40	0
tblRoadDust	RoadPercentPave	100	0
tblSequestration	NumberOfNewTrees	0.00	10.00
tblSolidWaste	SolidWasteGenerationRate	0.45	0.00
tblTripsAndVMT	HaulingTripNumber	1.00	0.00
tblTripsAndVMT	HaulingTripNumber	1.00	0.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	18.00	5.00

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Summer

tblTripsAndVMT	WorkerTripNumber	23.00	8.00
tblTripsAndVMT	WorkerTripNumber	10.00	3.00
tblTripsAndVMT	WorkerTripNumber	18.00	5.00
tblTripsAndVMT	WorkerTripNumber	23.00	8.00
tblTripsAndVMT	WorkerTripNumber	23.00	8.00
tblTripsAndVMT	WorkerTripNumber	10.00	3.00
tblTripsAndVMT	WorkerTripNumber	10.00	3.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblWater	OutdoorWaterUseRate	6,219,532.65	0.00

2.0 Emissions Summary

Alamitos Bay Shoreline Trail Project - 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					
2020	3.4165	35.7982	22.8160	0.0407	18.1126	1.7661	19.8787	9.9433	1.6248	11.5681	0.0000	3,939.3257	3,939.3257	1.1268	0.0000	3,967.4945
2021	3.2985	34.5387	18.3242	0.0301	18.1126	1.6819	19.7945	9.9433	1.5473	11.4906	0.0000	2,888.9052	2,888.9052	0.8800	0.0000	2,909.5808
2022	2.6991	27.8303	21.5902	0.0407	18.1126	1.3203	19.4329	9.9433	1.2147	11.1579	0.0000	3,933.9770	3,933.9770	1.1221	0.0000	3,962.0287
Maximum	3.4165	35.7982	22.8160	0.0407	18.1126	1.7661	19.8787	9.9433	1.6248	11.5681	0.0000	3,939.3257	3,939.3257	1.1268	0.0000	3,967.4945

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	3.4165	35.7982	22.8160	0.0407	8.1762	1.7661	9.9422	4.4814	1.6248	6.1062	0.0000	3,939.3257	3,939.3257	1.1268	0.0000	3,967.4945
2021	3.2985	34.5387	18.3242	0.0301	8.1762	1.6819	9.8580	4.4814	1.5473	6.0287	0.0000	2,888.9052	2,888.9052	0.8800	0.0000	2,909.5808
2022	2.6991	27.8303	21.5902	0.0407	8.1762	1.3203	9.4965	4.4814	1.2147	5.6961	0.0000	3,933.9770	3,933.9770	1.1221	0.0000	3,962.0287
Maximum	3.4165	35.7982	22.8160	0.0407	8.1762	1.7661	9.9422	4.4814	1.6248	6.1062	0.0000	3,939.3257	3,939.3257	1.1268	0.0000	3,967.4945

Alamitos Bay Shoreline Trail Project - 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	54.86	0.00	50.43	54.93	0.00	47.89	0.00	0.00	0.00	0.00	0.00	0.00

Alamitos Bay Shoreline Trail Project - 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	0.0118	0.0000	5.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.1400e-003	1.1400e-003	0.0000		1.2200e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0118	0.0000	5.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		1.1400e-003	1.1400e-003	0.0000	0.0000	1.2200e-003

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	0.0118	0.0000	5.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.1400e-003	1.1400e-003	0.0000		1.2200e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0118	0.0000	5.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		1.1400e-003	1.1400e-003	0.0000	0.0000	1.2200e-003

Alamitos Bay Shoreline Trail Project - 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	Phase 1 Demolition	Demolition	3/2/2020	3/6/2020	5	5	
2	Phase 1 Paving	Paving	6/1/2020	6/26/2020	5	20	
3	Phase 1 Site Prep, Structure, Landscaping	Site Preparation	3/9/2020	5/29/2020	5	60	
4	Phase 2 Site Paving	Paving	2/15/2021	3/12/2021	5	20	
5	Phase 2 Landscaping	Site Preparation	2/1/2021	2/12/2021	5	10	
6	Phase 3 Demolition	Demolition	1/3/2022	1/28/2022	5	20	
7	Phase 3 Site Paving, Structure, Landscaping	Paving	2/7/2022	3/4/2022	5	20	
8	Phase 3 Landscaping	Site Preparation	3/7/2022	3/18/2022	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; 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
Phase 3 Demolition	Concrete/Industrial Saws	1	6.00	81	0.73
Phase 3 Demolition	Tractors/Loaders/Backhoes	1	6.00	97	0.37

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Summer

Phase 1 Demolition	Concrete/Industrial Saws	1	6.00	81	0.73
Phase 3 Site Paving, Structure, Landscaping	Cement and Mortar Mixers	1	6.00	9	0.56
Phase 2 Site Paving	Pumps	1	6.00	25	0.74
Phase 1 Demolition	Excavators	3	8.00	158	0.38
Phase 1 Demolition	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Phase 2 Site Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Phase 2 Site Paving	Tractors/Loaders/Backhoes	1	6.00	50	0.73
Phase 3 Site Paving, Structure, Landscaping	Pumps	1	6.00	25	0.74
Phase 3 Demolition	Excavators	3	8.00	158	0.38
Phase 3 Site Paving, Structure, Landscaping	Tractors/Loaders/Backhoes	1	6.00	50	0.37
Phase 1 Paving	Pavers	2	8.00	130	0.42
Phase 2 Site Paving	Pavers	2	8.00	130	0.42
Phase 3 Site Paving, Structure, Landscaping	Pavers	2	8.00	130	0.42
Phase 1 Site Prep, Structure, Landscaping	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Phase 1 Paving	Paving Equipment	2	8.00	132	0.36
Phase 2 Site Paving	Paving Equipment	2	8.00	132	0.36
Phase 3 Site Paving, Structure, Landscaping	Paving Equipment	2	8.00	132	0.36
Phase 2 Landscaping	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Phase 3 Landscaping	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Architectural Coating	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Architectural Coating	Plate Compactors	1	6.00	8	0.43
Phase 1 Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Phase 1 Paving	Rubber Tired Loaders	1	6.00	50	0.36
Phase 1 Paving	Pumps	1	6.00	25	0.74
Phase 1 Paving	Rollers	2	8.00	80	0.38
Phase 2 Site Paving	Rollers	2	8.00	80	0.38

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Summer

Phase 3 Site Paving, Structure, Landscaping	Rollers	2	8.00	80	0.38
Phase 1 Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Phase 3 Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Phase 1 Site Prep, Structure, Landscaping	Rubber Tired Dozers	3	8.00	247	0.40
Phase 2 Landscaping	Rubber Tired Dozers	3	8.00	247	0.40
Phase 3 Landscaping	Rubber Tired Dozers	3	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Phase 3 Demolition	7	5.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Site Paving	9	8.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Demolition	7	5.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Site Paving, Structure, Landscaping	9	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Paving	9	8.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Site Prep, Structure, Landscaping	4	3.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Landscaping	4	3.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Landscaping	4	3.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Clean Paved Roads

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Summer

3.2 Phase 1 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0375	0.0000	0.0375	5.6700e-003	0.0000	5.6700e-003			0.0000			0.0000
Off-Road	3.3647	33.9552	22.5413	0.0396		1.7090	1.7090		1.5842	1.5842		3,825.1151	3,825.1151	1.1215		3,853.1531
Total	3.3647	33.9552	22.5413	0.0396	0.0375	1.7090	1.7465	5.6700e-003	1.5842	1.5898		3,825.1151	3,825.1151	1.1215		3,853.1531

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	7.1100e-003	0.2127	0.0557	5.2000e-004	0.0128	1.0000e-003	0.0138	3.6900e-003	9.6000e-004	4.6400e-003		55.4049	55.4049	3.3800e-003		55.4895
Worker	0.0230	0.0164	0.2189	5.9000e-004	0.0559	4.7000e-004	0.0564	0.0148	4.3000e-004	0.0153		58.8056	58.8056	1.8500e-003		58.8520
Total	0.0301	0.2291	0.2747	1.1100e-003	0.0687	1.4700e-003	0.0702	0.0185	1.3900e-003	0.0199		114.2106	114.2106	5.2300e-003		114.3415

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Summer

3.2 Phase 1 Demolition - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0169	0.0000	0.0169	2.5500e-003	0.0000	2.5500e-003			0.0000			0.0000
Off-Road	3.3647	33.9552	22.5413	0.0396		1.7090	1.7090		1.5842	1.5842	0.0000	3,825.115 1	3,825.115 1	1.1215		3,853.153 1
Total	3.3647	33.9552	22.5413	0.0396	0.0169	1.7090	1.7259	2.5500e-003	1.5842	1.5867	0.0000	3,825.115 1	3,825.115 1	1.1215		3,853.153 1

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	7.1100e-003	0.2127	0.0557	5.2000e-004	0.0128	1.0000e-003	0.0138	3.6900e-003	9.6000e-004	4.6400e-003		55.4049	55.4049	3.3800e-003		55.4895
Worker	0.0230	0.0164	0.2189	5.9000e-004	0.0559	4.7000e-004	0.0564	0.0148	4.3000e-004	0.0153		58.8056	58.8056	1.8500e-003		58.8520
Total	0.0301	0.2291	0.2747	1.1100e-003	0.0687	1.4700e-003	0.0702	0.0185	1.3900e-003	0.0199		114.2106	114.2106	5.2300e-003		114.3415

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Summer

3.3 Phase 1 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9413	16.7031	17.1000	0.0263		0.9283	0.9283		0.8590	0.8590		2,509.6208	2,509.6208	0.7753		2,529.0020
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9413	16.7031	17.1000	0.0263		0.9283	0.9283		0.8590	0.8590		2,509.6208	2,509.6208	0.7753		2,529.0020

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	0.0213	0.6382	0.1672	1.5600e-003	0.0384	3.0000e-003	0.0414	0.0111	2.8700e-003	0.0139		166.2148	166.2148	0.0101		166.4684
Worker	0.0368	0.0262	0.3503	9.4000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		94.0890	94.0890	2.9700e-003		94.1632
Total	0.0582	0.6644	0.5175	2.5000e-003	0.1278	3.7500e-003	0.1316	0.0348	3.5600e-003	0.0383		260.3039	260.3039	0.0131		260.6316

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Summer

3.3 Phase 1 Paving - 2020

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	1.9413	16.7031	17.1000	0.0263		0.9283	0.9283		0.8590	0.8590	0.0000	2,509.6208	2,509.6208	0.7753		2,529.0020
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9413	16.7031	17.1000	0.0263		0.9283	0.9283		0.8590	0.8590	0.0000	2,509.6208	2,509.6208	0.7753		2,529.0020

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	0.0213	0.6382	0.1672	1.5600e-003	0.0384	3.0000e-003	0.0414	0.0111	2.8700e-003	0.0139		166.2148	166.2148	0.0101		166.4684
Worker	0.0368	0.0262	0.3503	9.4000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		94.0890	94.0890	2.9700e-003		94.1632
Total	0.0582	0.6644	0.5175	2.5000e-003	0.1278	3.7500e-003	0.1316	0.0348	3.5600e-003	0.0383		260.3039	260.3039	0.0131		260.6316

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Summer

3.4 Phase 1 Site Prep, Structure, Landscaping - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.3956	35.5756	14.1046	0.0279		1.7648	1.7648		1.6236	1.6236		2,707.6039	2,707.6039	0.8757		2,729.4963
Total	3.3956	35.5756	14.1046	0.0279	18.0663	1.7648	19.8310	9.9307	1.6236	11.5543		2,707.6039	2,707.6039	0.8757		2,729.4963

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	7.1100e-003	0.2127	0.0557	5.2000e-004	0.0128	1.0000e-003	0.0138	3.6900e-003	9.6000e-004	4.6400e-003		55.4049	55.4049	3.3800e-003		55.4895
Worker	0.0138	9.8200e-003	0.1314	3.5000e-004	0.0335	2.8000e-004	0.0338	8.8900e-003	2.6000e-004	9.1500e-003		35.2834	35.2834	1.1100e-003		35.3112
Total	0.0209	0.2226	0.1871	8.7000e-004	0.0463	1.2800e-003	0.0476	0.0126	1.2200e-003	0.0138		90.6883	90.6883	4.4900e-003		90.8007

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Summer

3.4 Phase 1 Site Prep, Structure, Landscaping - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	3.3956	35.5756	14.1046	0.0279		1.7648	1.7648		1.6236	1.6236	0.0000	2,707.6039	2,707.6039	0.8757		2,729.4963
Total	3.3956	35.5756	14.1046	0.0279	8.1298	1.7648	9.8946	4.4688	1.6236	6.0924	0.0000	2,707.6039	2,707.6039	0.8757		2,729.4963

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	7.1100e-003	0.2127	0.0557	5.2000e-004	0.0128	1.0000e-003	0.0138	3.6900e-003	9.6000e-004	4.6400e-003		55.4049	55.4049	3.3800e-003		55.4895
Worker	0.0138	9.8200e-003	0.1314	3.5000e-004	0.0335	2.8000e-004	0.0338	8.8900e-003	2.6000e-004	9.1500e-003		35.2834	35.2834	1.1100e-003		35.3112
Total	0.0209	0.2226	0.1871	8.7000e-004	0.0463	1.2800e-003	0.0476	0.0126	1.2200e-003	0.0138		90.6883	90.6883	4.4900e-003		90.8007

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Summer

3.5 Phase 2 Site Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8486	16.3363	17.8497	0.0276		0.8605	0.8605		0.7965	0.7965		2,632.875 2	2,632.875 2	0.8146		2,653.240 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.8486	16.3363	17.8497	0.0276		0.8605	0.8605		0.7965	0.7965		2,632.875 2	2,632.875 2	0.8146		2,653.240 8

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	0.0182	0.5825	0.1523	1.5400e-003	0.0384	1.1900e-003	0.0396	0.0111	1.1400e-003	0.0122		164.9284	164.9284	9.7200e-003		165.1713
Worker	0.0343	0.0236	0.3222	9.1000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		91.1016	91.1016	2.6800e-003		91.1687
Total	0.0525	0.6061	0.4745	2.4500e-003	0.1278	1.9100e-003	0.1297	0.0348	1.8100e-003	0.0366		256.0300	256.0300	0.0124		256.3400

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Summer

3.5 Phase 2 Site Paving - 2021

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	1.8486	16.3363	17.8497	0.0276		0.8605	0.8605		0.7965	0.7965	0.0000	2,632.875 2	2,632.875 2	0.8146		2,653.240 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.8486	16.3363	17.8497	0.0276		0.8605	0.8605		0.7965	0.7965	0.0000	2,632.875 2	2,632.875 2	0.8146		2,653.240 8

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	0.0182	0.5825	0.1523	1.5400e-003	0.0384	1.1900e-003	0.0396	0.0111	1.1400e-003	0.0122		164.9284	164.9284	9.7200e-003		165.1713
Worker	0.0343	0.0236	0.3222	9.1000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		91.1016	91.1016	2.6800e-003		91.1687
Total	0.0525	0.6061	0.4745	2.4500e-003	0.1278	1.9100e-003	0.1297	0.0348	1.8100e-003	0.0366		256.0300	256.0300	0.0124		256.3400

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Summer

3.6 Phase 2 Landscaping - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.2795	34.3357	13.8085	0.0279		1.6812	1.6812		1.5467	1.5467		2,707.7316	2,707.7316	0.8757		2,729.6250
Total	3.2795	34.3357	13.8085	0.0279	18.0663	1.6812	19.7475	9.9307	1.5467	11.4774		2,707.7316	2,707.7316	0.8757		2,729.6250

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	6.0800e-003	0.1942	0.0508	5.1000e-004	0.0128	4.0000e-004	0.0132	3.6900e-003	3.8000e-004	4.0700e-003		54.9761	54.9761	3.2400e-003		55.0571
Worker	0.0129	8.8400e-003	0.1208	3.4000e-004	0.0335	2.7000e-004	0.0338	8.8900e-003	2.5000e-004	9.1400e-003		34.1631	34.1631	1.0100e-003		34.1883
Total	0.0189	0.2030	0.1716	8.5000e-004	0.0463	6.7000e-004	0.0470	0.0126	6.3000e-004	0.0132		89.1392	89.1392	4.2500e-003		89.2454

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Summer

3.6 Phase 2 Landscaping - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	3.2795	34.3357	13.8085	0.0279		1.6812	1.6812		1.5467	1.5467	0.0000	2,707.7316	2,707.7316	0.8757		2,729.6250
Total	3.2795	34.3357	13.8085	0.0279	8.1298	1.6812	9.8110	4.4688	1.5467	6.0155	0.0000	2,707.7316	2,707.7316	0.8757		2,729.6250

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	6.0800e-003	0.1942	0.0508	5.1000e-004	0.0128	4.0000e-004	0.0132	3.6900e-003	3.8000e-004	4.0700e-003		54.9761	54.9761	3.2400e-003		55.0571
Worker	0.0129	8.8400e-003	0.1208	3.4000e-004	0.0335	2.7000e-004	0.0338	8.8900e-003	2.5000e-004	9.1400e-003		34.1631	34.1631	1.0100e-003		34.1883
Total	0.0189	0.2030	0.1716	8.5000e-004	0.0463	6.7000e-004	0.0470	0.0126	6.3000e-004	0.0132		89.1392	89.1392	4.2500e-003		89.2454

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Summer

3.7 Phase 3 Demolition - 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					6.9700e-003	0.0000	6.9700e-003	1.0500e-003	0.0000	1.0500e-003			0.0000			0.0000
Off-Road	2.6733	26.2758	21.3564	0.0396		1.2727	1.2727		1.1799	1.1799		3,824.5442	3,824.5442	1.1174		3,852.4798
Total	2.6733	26.2758	21.3564	0.0396	6.9700e-003	1.2727	1.2797	1.0500e-003	1.1799	1.1809		3,824.5442	3,824.5442	1.1174		3,852.4798

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	5.7100e-003	0.1847	0.0480	5.1000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.3000e-004	4.0200e-003		54.4972	54.4972	3.1300e-003		54.5754
Worker	0.0201	0.0133	0.1858	5.5000e-004	0.0559	4.4000e-004	0.0563	0.0148	4.0000e-004	0.0152		54.9356	54.9356	1.5200e-003		54.9735
Total	0.0258	0.1980	0.2338	1.0600e-003	0.0687	7.9000e-004	0.0695	0.0185	7.3000e-004	0.0192		109.4328	109.4328	4.6500e-003		109.5489

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Summer

3.7 Phase 3 Demolition - 2022

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					3.1300e-003	0.0000	3.1300e-003	4.7000e-004	0.0000	4.7000e-004			0.0000			0.0000
Off-Road	2.6733	26.2758	21.3564	0.0396		1.2727	1.2727		1.1799	1.1799	0.0000	3,824.544 2	3,824.544 2	1.1174		3,852.479 8
Total	2.6733	26.2758	21.3564	0.0396	3.1300e-003	1.2727	1.2758	4.7000e-004	1.1799	1.1804	0.0000	3,824.544 2	3,824.544 2	1.1174		3,852.479 8

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	5.7100e-003	0.1847	0.0480	5.1000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.3000e-004	4.0200e-003		54.4972	54.4972	3.1300e-003		54.5754
Worker	0.0201	0.0133	0.1858	5.5000e-004	0.0559	4.4000e-004	0.0563	0.0148	4.0000e-004	0.0152		54.9356	54.9356	1.5200e-003		54.9735
Total	0.0258	0.1980	0.2338	1.0600e-003	0.0687	7.9000e-004	0.0695	0.0185	7.3000e-004	0.0192		109.4328	109.4328	4.6500e-003		109.5489

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Summer

3.8 Phase 3 Site Paving, Structure, Landscaping - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4961	13.4811	16.5702	0.0264		0.6792	0.6792		0.6295	0.6295		2,510.513 2	2,510.513 2	0.7748		2,529.883 3
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4961	13.4811	16.5702	0.0264		0.6792	0.6792		0.6295	0.6295		2,510.513 2	2,510.513 2	0.7748		2,529.883 3

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	5.7100e-003	0.1847	0.0480	5.1000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.3000e-004	4.0200e-003		54.4972	54.4972	3.1300e-003		54.5754
Worker	0.0321	0.0213	0.2973	8.8000e-004	0.0894	7.0000e-004	0.0901	0.0237	6.4000e-004	0.0244		87.8970	87.8970	2.4300e-003		87.9576
Total	0.0378	0.2060	0.3453	1.3900e-003	0.1022	1.0500e-003	0.1033	0.0274	9.7000e-004	0.0284		142.3942	142.3942	5.5600e-003		142.5330

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Summer

3.8 Phase 3 Site Paving, Structure, Landscaping - 2022

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	1.4961	13.4811	16.5702	0.0264		0.6792	0.6792		0.6295	0.6295	0.0000	2,510.513 2	2,510.513 2	0.7748		2,529.883 3
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4961	13.4811	16.5702	0.0264		0.6792	0.6792		0.6295	0.6295	0.0000	2,510.513 2	2,510.513 2	0.7748		2,529.883 3

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	5.7100e-003	0.1847	0.0480	5.1000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.3000e-004	4.0200e-003		54.4972	54.4972	3.1300e-003		54.5754
Worker	0.0321	0.0213	0.2973	8.8000e-004	0.0894	7.0000e-004	0.0901	0.0237	6.4000e-004	0.0244		87.8970	87.8970	2.4300e-003		87.9576
Total	0.0378	0.2060	0.3453	1.3900e-003	0.1022	1.0500e-003	0.1033	0.0274	9.7000e-004	0.0284		142.3942	142.3942	5.5600e-003		142.5330

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Summer

3.9 Phase 3 Landscaping - 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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.6348	27.6377	12.4245	0.0279		1.3197	1.3197		1.2141	1.2141		2,707.0353	2,707.0353	0.8755		2,728.9230
Total	2.6348	27.6377	12.4245	0.0279	18.0663	1.3197	19.3860	9.9307	1.2141	11.1448		2,707.0353	2,707.0353	0.8755		2,728.9230

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	5.7100e-003	0.1847	0.0480	5.1000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.3000e-004	4.0200e-003		54.4972	54.4972	3.1300e-003		54.5754
Worker	0.0121	7.9800e-003	0.1115	3.3000e-004	0.0335	2.6000e-004	0.0338	8.8900e-003	2.4000e-004	9.1300e-003		32.9614	32.9614	9.1000e-004		32.9841
Total	0.0178	0.1926	0.1595	8.4000e-004	0.0463	6.1000e-004	0.0470	0.0126	5.7000e-004	0.0132		87.4586	87.4586	4.0400e-003		87.5595

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Summer

3.9 Phase 3 Landscaping - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	2.6348	27.6377	12.4245	0.0279		1.3197	1.3197		1.2141	1.2141	0.0000	2,707.0353	2,707.0353	0.8755		2,728.9230
Total	2.6348	27.6377	12.4245	0.0279	8.1298	1.3197	9.4495	4.4688	1.2141	5.6829	0.0000	2,707.0353	2,707.0353	0.8755		2,728.9230

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	5.7100e-003	0.1847	0.0480	5.1000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.3000e-004	4.0200e-003		54.4972	54.4972	3.1300e-003		54.5754
Worker	0.0121	7.9800e-003	0.1115	3.3000e-004	0.0335	2.6000e-004	0.0338	8.8900e-003	2.4000e-004	9.1300e-003		32.9614	32.9614	9.1000e-004		32.9841
Total	0.0178	0.1926	0.1595	8.4000e-004	0.0463	6.1000e-004	0.0470	0.0126	5.7000e-004	0.0132		87.4586	87.4586	4.0400e-003		87.5595

4.0 Operational Detail - Mobile

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Summer

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Summer

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Summer

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

Alamitos Bay Shoreline Trail Project - 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	0.0118	0.0000	5.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.1400e-003	1.1400e-003	0.0000		1.2200e-003
Unmitigated	0.0118	0.0000	5.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.1400e-003	1.1400e-003	0.0000		1.2200e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0117					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	0.0000	5.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.1400e-003	1.1400e-003	0.0000		1.2200e-003
Total	0.0118	0.0000	5.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.1400e-003	1.1400e-003	0.0000		1.2200e-003

Alamitos Bay Shoreline Trail Project - 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0117					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	0.0000	5.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.1400e-003	1.1400e-003	0.0000		1.2200e-003
Total	0.0118	0.0000	5.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.1400e-003	1.1400e-003	0.0000		1.2200e-003

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Summer

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

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Winter

Alamitos Bay Shoreline Trail Project
Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	5.22	Acre	5.22	227,383.20	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Winter

Project Characteristics -

Land Use - City park land use is selected for the Alamitos Bay Shoreline Trail project.

Construction Phase - Construction of Phase 1, Phase 2, and Phase 3 are anticipated to occur during calendar years 2020, 2021, 2022, respectively.

Off-road Equipment - Phase 1 Site prep and demolition activities would involve two small haul trucks, one small landscape tractor and one compactor.

Off-road Equipment - Phase 1 Paving activities would involve two delivery trucks, cement mixers, hydraulic pumps, small loader, and two electric cushion carts.

Off-road Equipment - Phase 1 landscaping activities would involve one small landscape tractor and delivery truck.

Off-road Equipment - Phase 2 paving activities would involve cement mixer, hydraulic pump, small tractor loader, concrete trucks, and delivery trucks.

Off-road Equipment - Phase 2 landscaping activities would involve one small landscape tractor and delivery trucks.

Off-road Equipment - Phase 1 demolition activities would involve concrete saw, small landscape tractor, and haul trucks.

Off-road Equipment - Phase 3 demolition activities would involve concrete saw, small landscape tractor, and haul trucks.

Off-road Equipment - Phase 3 paving activities would involve cement mixer, concrete trucks, hydraulic pump, small tractor loader, and delivery trucks.

Off-road Equipment - Phase 3 landscaping activities would involve one small landscape tractor and delivery trucks.

Demolition - Phase 1 and Phase 3 site clearing are approx. 17,500 sq ft and 13,000 sq ft, respectively. Assume 10 ft x 10 ft x 0.33 ft concrete slab = 2,000 lbs.

Trips and VMT - Haul trucks, Delivery trucks, and Cement trucks were added to the data entry.

Vehicle Trips - No vehicle operational emissions

Road Dust - No vehicle operation.

Consumer Products - No consumer products.

Area Coating -

Landscape Equipment - No operation

Water And Wastewater - No change in watering.

Solid Waste - No solid waste during operation

Land Use Change -

Sequestration -

Construction Off-road Equipment Mitigation -

Energy Mitigation -

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Winter

Table Name	Column Name	Default Value	New Value
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstructionPhase	NumDays	20.00	5.00
tblConstructionPhase	NumDays	10.00	60.00
tblConstructionPhase	PhaseEndDate	3/1/2020	3/6/2020
tblConstructionPhase	PhaseEndDate	3/1/2020	6/26/2020
tblConstructionPhase	PhaseEndDate	3/1/2020	5/29/2020
tblConstructionPhase	PhaseStartDate	3/2/2020	6/1/2020
tblConstructionPhase	PhaseStartDate	3/2/2020	3/9/2020
tblOffRoadEquipment	HorsePower	97.00	50.00
tblOffRoadEquipment	HorsePower	84.00	25.00
tblOffRoadEquipment	HorsePower	84.00	25.00
tblOffRoadEquipment	HorsePower	97.00	50.00
tblOffRoadEquipment	HorsePower	203.00	50.00
tblOffRoadEquipment	HorsePower	84.00	25.00
tblOffRoadEquipment	LoadFactor	0.37	0.73
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Winter

tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	OperationalYear	2018	2022
tblRoadDust	MeanVehicleSpeed	40	0
tblRoadDust	RoadPercentPave	100	0
tblSequestration	NumberOfNewTrees	0.00	10.00
tblSolidWaste	SolidWasteGenerationRate	0.45	0.00
tblTripsAndVMT	HaulingTripNumber	1.00	0.00
tblTripsAndVMT	HaulingTripNumber	1.00	0.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	18.00	5.00

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Winter

tblTripsAndVMT	WorkerTripNumber	23.00	8.00
tblTripsAndVMT	WorkerTripNumber	10.00	3.00
tblTripsAndVMT	WorkerTripNumber	18.00	5.00
tblTripsAndVMT	WorkerTripNumber	23.00	8.00
tblTripsAndVMT	WorkerTripNumber	23.00	8.00
tblTripsAndVMT	WorkerTripNumber	10.00	3.00
tblTripsAndVMT	WorkerTripNumber	10.00	3.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblWater	OutdoorWaterUseRate	6,219,532.65	0.00

2.0 Emissions Summary

Alamitos Bay Shoreline Trail Project - 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					
2020	3.4184	35.7992	22.8033	0.0406	18.1126	1.7661	19.8787	9.9433	1.6248	11.5681	0.0000	3,934.3760	3,934.3760	1.1269	0.0000	3,962.5476
2021	3.3002	34.5393	18.3127	0.0300	18.1126	1.6819	19.7945	9.9433	1.5473	11.4906	0.0000	2,879.0627	2,879.0627	0.8801	0.0000	2,899.7502
2022	2.7017	27.8307	21.5791	0.0406	18.1126	1.3203	19.4329	9.9433	1.2147	11.1580	0.0000	3,929.2668	3,929.2668	1.1222	0.0000	3,957.3212
Maximum	3.4184	35.7992	22.8033	0.0406	18.1126	1.7661	19.8787	9.9433	1.6248	11.5681	0.0000	3,934.3760	3,934.3760	1.1269	0.0000	3,962.5476

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	3.4184	35.7992	22.8033	0.0406	8.1762	1.7661	9.9422	4.4814	1.6248	6.1062	0.0000	3,934.3760	3,934.3760	1.1269	0.0000	3,962.5476
2021	3.3002	34.5393	18.3127	0.0300	8.1762	1.6819	9.8580	4.4814	1.5473	6.0287	0.0000	2,879.0627	2,879.0627	0.8801	0.0000	2,899.7502
2022	2.7017	27.8307	21.5791	0.0406	8.1762	1.3203	9.4965	4.4814	1.2147	5.6961	0.0000	3,929.2668	3,929.2668	1.1222	0.0000	3,957.3212
Maximum	3.4184	35.7992	22.8033	0.0406	8.1762	1.7661	9.9422	4.4814	1.6248	6.1062	0.0000	3,934.3760	3,934.3760	1.1269	0.0000	3,962.5476

Alamitos Bay Shoreline Trail Project - 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	54.86	0.00	50.43	54.93	0.00	47.89	0.00	0.00	0.00	0.00	0.00	0.00

Alamitos Bay Shoreline Trail Project - 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	0.0118	0.0000	5.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.1400e-003	1.1400e-003	0.0000		1.2200e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0118	0.0000	5.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		1.1400e-003	1.1400e-003	0.0000	0.0000	1.2200e-003

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	0.0118	0.0000	5.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.1400e-003	1.1400e-003	0.0000		1.2200e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0118	0.0000	5.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		1.1400e-003	1.1400e-003	0.0000	0.0000	1.2200e-003

Alamitos Bay Shoreline Trail Project - 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	Phase 1 Demolition	Demolition	3/2/2020	3/6/2020	5	5	
2	Phase 1 Paving	Paving	6/1/2020	6/26/2020	5	20	
3	Phase 1 Site Prep, Structure, Landscaping	Site Preparation	3/9/2020	5/29/2020	5	60	
4	Phase 2 Site Paving	Paving	2/15/2021	3/12/2021	5	20	
5	Phase 2 Landscaping	Site Preparation	2/1/2021	2/12/2021	5	10	
6	Phase 3 Demolition	Demolition	1/3/2022	1/28/2022	5	20	
7	Phase 3 Site Paving, Structure, Landscaping	Paving	2/7/2022	3/4/2022	5	20	
8	Phase 3 Landscaping	Site Preparation	3/7/2022	3/18/2022	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; 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
Phase 3 Demolition	Concrete/Industrial Saws	1	6.00	81	0.73
Phase 3 Demolition	Tractors/Loaders/Backhoes	1	6.00	97	0.37

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Winter

Phase 1 Demolition	Concrete/Industrial Saws	1	6.00	81	0.73
Phase 3 Site Paving, Structure, Landscaping	Cement and Mortar Mixers	1	6.00	9	0.56
Phase 2 Site Paving	Pumps	1	6.00	25	0.74
Phase 1 Demolition	Excavators	3	8.00	158	0.38
Phase 1 Demolition	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Phase 2 Site Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Phase 2 Site Paving	Tractors/Loaders/Backhoes	1	6.00	50	0.73
Phase 3 Site Paving, Structure, Landscaping	Pumps	1	6.00	25	0.74
Phase 3 Demolition	Excavators	3	8.00	158	0.38
Phase 3 Site Paving, Structure, Landscaping	Tractors/Loaders/Backhoes	1	6.00	50	0.37
Phase 1 Paving	Pavers	2	8.00	130	0.42
Phase 2 Site Paving	Pavers	2	8.00	130	0.42
Phase 3 Site Paving, Structure, Landscaping	Pavers	2	8.00	130	0.42
Phase 1 Site Prep, Structure, Landscaping	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Phase 1 Paving	Paving Equipment	2	8.00	132	0.36
Phase 2 Site Paving	Paving Equipment	2	8.00	132	0.36
Phase 3 Site Paving, Structure, Landscaping	Paving Equipment	2	8.00	132	0.36
Phase 2 Landscaping	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Phase 3 Landscaping	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Architectural Coating	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Architectural Coating	Plate Compactors	1	6.00	8	0.43
Phase 1 Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Phase 1 Paving	Rubber Tired Loaders	1	6.00	50	0.36
Phase 1 Paving	Pumps	1	6.00	25	0.74
Phase 1 Paving	Rollers	2	8.00	80	0.38
Phase 2 Site Paving	Rollers	2	8.00	80	0.38

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Winter

Phase 3 Site Paving, Structure, Landscaping	Rollers	2	8.00	80	0.38
Phase 1 Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Phase 3 Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Phase 1 Site Prep, Structure, Landscaping	Rubber Tired Dozers	3	8.00	247	0.40
Phase 2 Landscaping	Rubber Tired Dozers	3	8.00	247	0.40
Phase 3 Landscaping	Rubber Tired Dozers	3	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Phase 3 Demolition	7	5.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Site Paving	9	8.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Demolition	7	5.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Site Paving, Structure, Landscaping	9	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Paving	9	8.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Site Prep, Structure, Landscaping	4	3.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Landscaping	4	3.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Landscaping	4	3.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Clean Paved Roads

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Winter

3.2 Phase 1 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0375	0.0000	0.0375	5.6700e-003	0.0000	5.6700e-003			0.0000			0.0000
Off-Road	3.3647	33.9552	22.5413	0.0396		1.7090	1.7090		1.5842	1.5842		3,825.1151	3,825.1151	1.1215		3,853.1531
Total	3.3647	33.9552	22.5413	0.0396	0.0375	1.7090	1.7465	5.6700e-003	1.5842	1.5898		3,825.1151	3,825.1151	1.1215		3,853.1531

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	7.4400e-003	0.2127	0.0615	5.0000e-004	0.0128	1.0200e-003	0.0138	3.6900e-003	9.7000e-004	4.6600e-003		53.8898	53.8898	3.6000e-003		53.9799
Worker	0.0256	0.0181	0.2005	5.6000e-004	0.0559	4.7000e-004	0.0564	0.0148	4.3000e-004	0.0153		55.3710	55.3710	1.7500e-003		55.4147
Total	0.0330	0.2308	0.2620	1.0600e-003	0.0687	1.4900e-003	0.0702	0.0185	1.4000e-003	0.0199		109.2608	109.2608	5.3500e-003		109.3946

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Winter

3.2 Phase 1 Demolition - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0169	0.0000	0.0169	2.5500e-003	0.0000	2.5500e-003			0.0000			0.0000
Off-Road	3.3647	33.9552	22.5413	0.0396		1.7090	1.7090		1.5842	1.5842	0.0000	3,825.115 1	3,825.115 1	1.1215		3,853.153 1
Total	3.3647	33.9552	22.5413	0.0396	0.0169	1.7090	1.7259	2.5500e-003	1.5842	1.5867	0.0000	3,825.115 1	3,825.115 1	1.1215		3,853.153 1

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	7.4400e-003	0.2127	0.0615	5.0000e-004	0.0128	1.0200e-003	0.0138	3.6900e-003	9.7000e-004	4.6600e-003		53.8898	53.8898	3.6000e-003		53.9799
Worker	0.0256	0.0181	0.2005	5.6000e-004	0.0559	4.7000e-004	0.0564	0.0148	4.3000e-004	0.0153		55.3710	55.3710	1.7500e-003		55.4147
Total	0.0330	0.2308	0.2620	1.0600e-003	0.0687	1.4900e-003	0.0702	0.0185	1.4000e-003	0.0199		109.2608	109.2608	5.3500e-003		109.3946

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Winter

3.3 Phase 1 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9413	16.7031	17.1000	0.0263		0.9283	0.9283		0.8590	0.8590		2,509.6208	2,509.6208	0.7753		2,529.0020
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9413	16.7031	17.1000	0.0263		0.9283	0.9283		0.8590	0.8590		2,509.6208	2,509.6208	0.7753		2,529.0020

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	0.0223	0.6381	0.1844	1.5100e-003	0.0384	3.0500e-003	0.0415	0.0111	2.9200e-003	0.0140		161.6694	161.6694	0.0108		161.9397
Worker	0.0409	0.0290	0.3208	8.9000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		88.5936	88.5936	2.7900e-003		88.6634
Total	0.0632	0.6671	0.5052	2.4000e-003	0.1278	3.8000e-003	0.1316	0.0348	3.6100e-003	0.0384		250.2631	250.2631	0.0136		250.6032

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Winter

3.3 Phase 1 Paving - 2020

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	1.9413	16.7031	17.1000	0.0263		0.9283	0.9283		0.8590	0.8590	0.0000	2,509.6208	2,509.6208	0.7753		2,529.0020
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9413	16.7031	17.1000	0.0263		0.9283	0.9283		0.8590	0.8590	0.0000	2,509.6208	2,509.6208	0.7753		2,529.0020

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	0.0223	0.6381	0.1844	1.5100e-003	0.0384	3.0500e-003	0.0415	0.0111	2.9200e-003	0.0140		161.6694	161.6694	0.0108		161.9397
Worker	0.0409	0.0290	0.3208	8.9000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		88.5936	88.5936	2.7900e-003		88.6634
Total	0.0632	0.6671	0.5052	2.4000e-003	0.1278	3.8000e-003	0.1316	0.0348	3.6100e-003	0.0384		250.2631	250.2631	0.0136		250.6032

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Winter

3.4 Phase 1 Site Prep, Structure, Landscaping - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.3956	35.5756	14.1046	0.0279		1.7648	1.7648		1.6236	1.6236		2,707.6039	2,707.6039	0.8757		2,729.4963
Total	3.3956	35.5756	14.1046	0.0279	18.0663	1.7648	19.8310	9.9307	1.6236	11.5543		2,707.6039	2,707.6039	0.8757		2,729.4963

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	7.4400e-003	0.2127	0.0615	5.0000e-004	0.0128	1.0200e-003	0.0138	3.6900e-003	9.7000e-004	4.6600e-003		53.8898	53.8898	3.6000e-003		53.9799
Worker	0.0153	0.0109	0.1203	3.3000e-004	0.0335	2.8000e-004	0.0338	8.8900e-003	2.6000e-004	9.1500e-003		33.2226	33.2226	1.0500e-003		33.2488
Total	0.0228	0.2236	0.1818	8.3000e-004	0.0463	1.3000e-003	0.0476	0.0126	1.2300e-003	0.0138		87.1124	87.1124	4.6500e-003		87.2287

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Winter

3.4 Phase 1 Site Prep, Structure, Landscaping - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	3.3956	35.5756	14.1046	0.0279		1.7648	1.7648		1.6236	1.6236	0.0000	2,707.6039	2,707.6039	0.8757		2,729.4963
Total	3.3956	35.5756	14.1046	0.0279	8.1298	1.7648	9.8946	4.4688	1.6236	6.0924	0.0000	2,707.6039	2,707.6039	0.8757		2,729.4963

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	7.4400e-003	0.2127	0.0615	5.0000e-004	0.0128	1.0200e-003	0.0138	3.6900e-003	9.7000e-004	4.6600e-003		53.8898	53.8898	3.6000e-003		53.9799
Worker	0.0153	0.0109	0.1203	3.3000e-004	0.0335	2.8000e-004	0.0338	8.8900e-003	2.6000e-004	9.1500e-003		33.2226	33.2226	1.0500e-003		33.2488
Total	0.0228	0.2236	0.1818	8.3000e-004	0.0463	1.3000e-003	0.0476	0.0126	1.2300e-003	0.0138		87.1124	87.1124	4.6500e-003		87.2287

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Winter

3.5 Phase 2 Site Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8486	16.3363	17.8497	0.0276		0.8605	0.8605		0.7965	0.7965		2,632.875 2	2,632.875 2	0.8146		2,653.240 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.8486	16.3363	17.8497	0.0276		0.8605	0.8605		0.7965	0.7965		2,632.875 2	2,632.875 2	0.8146		2,653.240 8

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	0.0192	0.5813	0.1685	1.5000e-003	0.0384	1.2300e-003	0.0396	0.0111	1.1800e-003	0.0122		160.4073	160.4073	0.0104		160.6662
Worker	0.0382	0.0261	0.2946	8.6000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		85.7801	85.7801	2.5200e-003		85.8432
Total	0.0573	0.6074	0.4631	2.3600e-003	0.1278	1.9500e-003	0.1298	0.0348	1.8500e-003	0.0366		246.1874	246.1874	0.0129		246.5094

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Winter

3.5 Phase 2 Site Paving - 2021

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	1.8486	16.3363	17.8497	0.0276		0.8605	0.8605		0.7965	0.7965	0.0000	2,632.875 2	2,632.875 2	0.8146		2,653.240 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.8486	16.3363	17.8497	0.0276		0.8605	0.8605		0.7965	0.7965	0.0000	2,632.875 2	2,632.875 2	0.8146		2,653.240 8

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	0.0192	0.5813	0.1685	1.5000e-003	0.0384	1.2300e-003	0.0396	0.0111	1.1800e-003	0.0122		160.4073	160.4073	0.0104		160.6662
Worker	0.0382	0.0261	0.2946	8.6000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		85.7801	85.7801	2.5200e-003		85.8432
Total	0.0573	0.6074	0.4631	2.3600e-003	0.1278	1.9500e-003	0.1298	0.0348	1.8500e-003	0.0366		246.1874	246.1874	0.0129		246.5094

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Winter

3.6 Phase 2 Landscaping - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.2795	34.3357	13.8085	0.0279		1.6812	1.6812		1.5467	1.5467		2,707.7316	2,707.7316	0.8757		2,729.6250
Total	3.2795	34.3357	13.8085	0.0279	18.0663	1.6812	19.7475	9.9307	1.5467	11.4774		2,707.7316	2,707.7316	0.8757		2,729.6250

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	6.3800e-003	0.1938	0.0562	5.0000e-004	0.0128	4.1000e-004	0.0132	3.6900e-003	3.9000e-004	4.0800e-003		53.4691	53.4691	3.4500e-003		53.5554
Worker	0.0143	9.7800e-003	0.1105	3.2000e-004	0.0335	2.7000e-004	0.0338	8.8900e-003	2.5000e-004	9.1400e-003		32.1675	32.1675	9.5000e-004		32.1912
Total	0.0207	0.2036	0.1666	8.2000e-004	0.0463	6.8000e-004	0.0470	0.0126	6.4000e-004	0.0132		85.6366	85.6366	4.4000e-003		85.7466

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Winter

3.6 Phase 2 Landscaping - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	3.2795	34.3357	13.8085	0.0279		1.6812	1.6812		1.5467	1.5467	0.0000	2,707.7316	2,707.7316	0.8757		2,729.6250
Total	3.2795	34.3357	13.8085	0.0279	8.1298	1.6812	9.8110	4.4688	1.5467	6.0155	0.0000	2,707.7316	2,707.7316	0.8757		2,729.6250

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	6.3800e-003	0.1938	0.0562	5.0000e-004	0.0128	4.1000e-004	0.0132	3.6900e-003	3.9000e-004	4.0800e-003		53.4691	53.4691	3.4500e-003		53.5554
Worker	0.0143	9.7800e-003	0.1105	3.2000e-004	0.0335	2.7000e-004	0.0338	8.8900e-003	2.5000e-004	9.1400e-003		32.1675	32.1675	9.5000e-004		32.1912
Total	0.0207	0.2036	0.1666	8.2000e-004	0.0463	6.8000e-004	0.0470	0.0126	6.4000e-004	0.0132		85.6366	85.6366	4.4000e-003		85.7466

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Winter

3.7 Phase 3 Demolition - 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					6.9700e-003	0.0000	6.9700e-003	1.0500e-003	0.0000	1.0500e-003			0.0000			0.0000
Off-Road	2.6733	26.2758	21.3564	0.0396		1.2727	1.2727		1.1799	1.1799		3,824.5442	3,824.5442	1.1174		3,852.4798
Total	2.6733	26.2758	21.3564	0.0396	6.9700e-003	1.2727	1.2797	1.0500e-003	1.1799	1.1809		3,824.5442	3,824.5442	1.1174		3,852.4798

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	5.9900e-003	0.1842	0.0532	5.0000e-004	0.0128	3.6000e-004	0.0132	3.6900e-003	3.4000e-004	4.0300e-003		52.9941	52.9941	3.3300e-003		53.0773
Worker	0.0224	0.0147	0.1696	5.2000e-004	0.0559	4.4000e-004	0.0563	0.0148	4.0000e-004	0.0152		51.7285	51.7285	1.4200e-003		51.7641
Total	0.0284	0.1989	0.2227	1.0200e-003	0.0687	8.0000e-004	0.0695	0.0185	7.4000e-004	0.0193		104.7225	104.7225	4.7500e-003		104.8414

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Winter

3.7 Phase 3 Demolition - 2022

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					3.1300e-003	0.0000	3.1300e-003	4.7000e-004	0.0000	4.7000e-004			0.0000			0.0000
Off-Road	2.6733	26.2758	21.3564	0.0396		1.2727	1.2727		1.1799	1.1799	0.0000	3,824.544 2	3,824.544 2	1.1174		3,852.479 8
Total	2.6733	26.2758	21.3564	0.0396	3.1300e-003	1.2727	1.2758	4.7000e-004	1.1799	1.1804	0.0000	3,824.544 2	3,824.544 2	1.1174		3,852.479 8

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	5.9900e-003	0.1842	0.0532	5.0000e-004	0.0128	3.6000e-004	0.0132	3.6900e-003	3.4000e-004	4.0300e-003		52.9941	52.9941	3.3300e-003		53.0773
Worker	0.0224	0.0147	0.1696	5.2000e-004	0.0559	4.4000e-004	0.0563	0.0148	4.0000e-004	0.0152		51.7285	51.7285	1.4200e-003		51.7641
Total	0.0284	0.1989	0.2227	1.0200e-003	0.0687	8.0000e-004	0.0695	0.0185	7.4000e-004	0.0193		104.7225	104.7225	4.7500e-003		104.8414

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Winter

3.8 Phase 3 Site Paving, Structure, Landscaping - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4961	13.4811	16.5702	0.0264		0.6792	0.6792		0.6295	0.6295		2,510.513 2	2,510.513 2	0.7748		2,529.883 3
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4961	13.4811	16.5702	0.0264		0.6792	0.6792		0.6295	0.6295		2,510.513 2	2,510.513 2	0.7748		2,529.883 3

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	5.9900e-003	0.1842	0.0532	5.0000e-004	0.0128	3.6000e-004	0.0132	3.6900e-003	3.4000e-004	4.0300e-003		52.9941	52.9941	3.3300e-003		53.0773
Worker	0.0358	0.0236	0.2713	8.3000e-004	0.0894	7.0000e-004	0.0901	0.0237	6.4000e-004	0.0244		82.7656	82.7656	2.2800e-003		82.8225
Total	0.0418	0.2077	0.3245	1.3300e-003	0.1022	1.0600e-003	0.1033	0.0274	9.8000e-004	0.0284		135.7596	135.7596	5.6100e-003		135.8999

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Winter

3.8 Phase 3 Site Paving, Structure, Landscaping - 2022

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	1.4961	13.4811	16.5702	0.0264		0.6792	0.6792		0.6295	0.6295	0.0000	2,510.513 2	2,510.513 2	0.7748		2,529.883 3
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4961	13.4811	16.5702	0.0264		0.6792	0.6792		0.6295	0.6295	0.0000	2,510.513 2	2,510.513 2	0.7748		2,529.883 3

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	5.9900e-003	0.1842	0.0532	5.0000e-004	0.0128	3.6000e-004	0.0132	3.6900e-003	3.4000e-004	4.0300e-003		52.9941	52.9941	3.3300e-003		53.0773
Worker	0.0358	0.0236	0.2713	8.3000e-004	0.0894	7.0000e-004	0.0901	0.0237	6.4000e-004	0.0244		82.7656	82.7656	2.2800e-003		82.8225
Total	0.0418	0.2077	0.3245	1.3300e-003	0.1022	1.0600e-003	0.1033	0.0274	9.8000e-004	0.0284		135.7596	135.7596	5.6100e-003		135.8999

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Winter

3.9 Phase 3 Landscaping - 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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.6348	27.6377	12.4245	0.0279		1.3197	1.3197		1.2141	1.2141		2,707.0353	2,707.0353	0.8755		2,728.9230
Total	2.6348	27.6377	12.4245	0.0279	18.0663	1.3197	19.3860	9.9307	1.2141	11.1448		2,707.0353	2,707.0353	0.8755		2,728.9230

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	5.9900e-003	0.1842	0.0532	5.0000e-004	0.0128	3.6000e-004	0.0132	3.6900e-003	3.4000e-004	4.0300e-003		52.9941	52.9941	3.3300e-003		53.0773
Worker	0.0134	8.8400e-003	0.1018	3.1000e-004	0.0335	2.6000e-004	0.0338	8.8900e-003	2.4000e-004	9.1300e-003		31.0371	31.0371	8.5000e-004		31.0585
Total	0.0194	0.1930	0.1549	8.1000e-004	0.0463	6.2000e-004	0.0470	0.0126	5.8000e-004	0.0132		84.0311	84.0311	4.1800e-003		84.1358

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Winter

3.9 Phase 3 Landscaping - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	2.6348	27.6377	12.4245	0.0279		1.3197	1.3197		1.2141	1.2141	0.0000	2,707.0353	2,707.0353	0.8755		2,728.9230
Total	2.6348	27.6377	12.4245	0.0279	8.1298	1.3197	9.4495	4.4688	1.2141	5.6829	0.0000	2,707.0353	2,707.0353	0.8755		2,728.9230

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	5.9900e-003	0.1842	0.0532	5.0000e-004	0.0128	3.6000e-004	0.0132	3.6900e-003	3.4000e-004	4.0300e-003		52.9941	52.9941	3.3300e-003		53.0773
Worker	0.0134	8.8400e-003	0.1018	3.1000e-004	0.0335	2.6000e-004	0.0338	8.8900e-003	2.4000e-004	9.1300e-003		31.0371	31.0371	8.5000e-004		31.0585
Total	0.0194	0.1930	0.1549	8.1000e-004	0.0463	6.2000e-004	0.0470	0.0126	5.8000e-004	0.0132		84.0311	84.0311	4.1800e-003		84.1358

4.0 Operational Detail - Mobile

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Winter

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Winter

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Winter

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

Alamitos Bay Shoreline Trail Project - 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	0.0118	0.0000	5.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.1400e-003	1.1400e-003	0.0000		1.2200e-003
Unmitigated	0.0118	0.0000	5.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.1400e-003	1.1400e-003	0.0000		1.2200e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0117					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	0.0000	5.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.1400e-003	1.1400e-003	0.0000		1.2200e-003
Total	0.0118	0.0000	5.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.1400e-003	1.1400e-003	0.0000		1.2200e-003

Alamitos Bay Shoreline Trail Project - 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0117					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	0.0000	5.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.1400e-003	1.1400e-003	0.0000		1.2200e-003
Total	0.0118	0.0000	5.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.1400e-003	1.1400e-003	0.0000		1.2200e-003

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Alamitos Bay Shoreline Trail Project - Los Angeles-South Coast County, Winter

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
