

# Appendix A

## **Air Quality, GHG, and Energy Analysis**



Broadway Blocks - South Coast AQMD Air District, Annual

**Broadway Blocks**  
**South Coast AQMD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	205.90	1000sqft	0.00	205,898.00	0
High Turnover (Sit Down Restaurant)	9.60	1000sqft	0.22	9,600.00	0
Condo/Townhouse High Rise	400.00	Dwelling Unit	1.35	425,596.00	1144
Regional Shopping Center	23.21	1000sqft	0.00	23,210.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	9			<b>Operational Year</b>	2021
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	529.11	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

**1.3 User Entered Comments & Non-Default Data**

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Project Characteristics - CO2 intensity factor for 2016 (factors includes both CH4 and N2O emissions as CO2e)

Land Use - Lot acreage for residential equal to total lot acreage minus acreage for 'Acres of Books'.

Construction Phase - Based on anticipated project-specific construction schedule.

Trips and VMT - Number of worker trips equal to estimated maximum worker trips per day.

Demolition - Demoliton weight from construction estimates.

Grading - Total acres graded equal to total construction disturbed area.

Woodstoves - No woodstoves or fireplaces.

Energy Use -

Construction Off-road Equipment Mitigation -

Energy Mitigation -

Vehicle Trips - Trip rates based on project-specific traffic report.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	27.00
tblConstructionPhase	NumDays	4.00	155.00
tblConstructionPhase	NumDays	200.00	79.00
tblConstructionPhase	NumDays	200.00	704.00
tblConstructionPhase	NumDays	10.00	105.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	1/28/2019	1/31/2019
tblConstructionPhase	PhaseEndDate	2/1/2019	6/29/2019
tblConstructionPhase	PhaseEndDate	11/8/2019	5/31/2019

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tblConstructionPhase	PhaseEndDate	8/14/2020	6/29/2021
tblConstructionPhase	PhaseEndDate	8/28/2020	6/30/2021
tblConstructionPhase	PhaseStartDate	1/29/2019	1/1/2019
tblConstructionPhase	PhaseStartDate	2/2/2019	3/1/2019
tblConstructionPhase	PhaseStartDate	11/9/2019	4/1/2019
tblConstructionPhase	PhaseStartDate	8/15/2020	3/1/2021
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	340.00	0.00
tblFireplaces	NumberNoFireplace	40.00	0.00
tblFireplaces	NumberWood	20.00	0.00
tblGrading	AcresOfGrading	48.38	1.70
tblGrading	MaterialExported	0.00	76,523.00
tblLandUse	LandUseSquareFeet	205,900.00	205,898.00
tblLandUse	LandUseSquareFeet	400,000.00	425,596.00
tblLandUse	LotAcreage	4.73	0.00
tblLandUse	LotAcreage	6.25	1.35
tblLandUse	LotAcreage	0.53	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	529.11
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblTripsAndVMT	WorkerTripNumber	13.00	20.00
tblTripsAndVMT	WorkerTripNumber	8.00	50.00
tblTripsAndVMT	WorkerTripNumber	386.00	80.00
tblTripsAndVMT	WorkerTripNumber	386.00	300.00
tblTripsAndVMT	WorkerTripNumber	13.00	20.00

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tblVehicleTrips	ST_TR	4.31	3.73
tblVehicleTrips	ST_TR	158.37	140.51
tblVehicleTrips	ST_TR	49.97	44.17
tblVehicleTrips	SU_TR	3.43	2.97
tblVehicleTrips	SU_TR	131.84	116.97
tblVehicleTrips	SU_TR	25.24	22.31
tblVehicleTrips	WD_TR	4.18	3.62
tblVehicleTrips	WD_TR	127.15	112.81
tblVehicleTrips	WD_TR	42.70	37.74
tblWoodstoves	NumberCatalytic	20.00	0.00
tblWoodstoves	NumberNoncatalytic	20.00	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

## 2.0 Emissions Summary

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**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.7979	7.2538	5.2871	0.0170	0.9922	0.2378	1.2300	0.3416	0.2262	0.5677	0.0000	1,555.7896	1,555.7896	0.1566	0.0000	1,559.7045
2020	0.5722	3.8568	4.1947	0.0119	0.5979	0.1357	0.7336	0.1607	0.1308	0.2915	0.0000	1,066.8503	1,066.8503	0.0870	0.0000	1,069.0264
2021	0.2988	2.1418	2.4513	6.5500e-003	0.3048	0.0777	0.3825	0.0819	0.0740	0.1558	0.0000	586.5038	586.5038	0.0605	0.0000	588.0157
<b>Maximum</b>	<b>0.7979</b>	<b>7.2538</b>	<b>5.2871</b>	<b>0.0170</b>	<b>0.9922</b>	<b>0.2378</b>	<b>1.2300</b>	<b>0.3416</b>	<b>0.2262</b>	<b>0.5677</b>	<b>0.0000</b>	<b>1,555.7896</b>	<b>1,555.7896</b>	<b>0.1566</b>	<b>0.0000</b>	<b>1,559.7045</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.7979	7.2538	5.2871	0.0170	0.7755	0.2378	1.0132	0.2380	0.2262	0.4642	0.0000	1,555.7891	1,555.7891	0.1566	0.0000	1,559.7040
2020	0.5722	3.8568	4.1947	0.0119	0.5979	0.1357	0.7336	0.1607	0.1308	0.2915	0.0000	1,066.8500	1,066.8500	0.0870	0.0000	1,069.0261
2021	0.2988	2.1418	2.4513	6.5500e-003	0.3048	0.0777	0.3825	0.0819	0.0740	0.1558	0.0000	586.5036	586.5036	0.0605	0.0000	588.0154
<b>Maximum</b>	<b>0.7979</b>	<b>7.2538</b>	<b>5.2871</b>	<b>0.0170</b>	<b>0.7755</b>	<b>0.2378</b>	<b>1.0132</b>	<b>0.2380</b>	<b>0.2262</b>	<b>0.4642</b>	<b>0.0000</b>	<b>1,555.7891</b>	<b>1,555.7891</b>	<b>0.1566</b>	<b>0.0000</b>	<b>1,559.7040</b>

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	11.44	0.00	9.24	17.73	0.00	10.20	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2019	3-31-2019	2.2098	2.2098
2	4-1-2019	6-30-2019	3.3372	3.3372
3	7-1-2019	9-30-2019	1.2003	1.2003
4	10-1-2019	12-31-2019	1.2101	1.2101
5	1-1-2020	3-31-2020	1.0989	1.0989
6	4-1-2020	6-30-2020	1.0905	1.0905
7	7-1-2020	9-30-2020	1.1025	1.1025
8	10-1-2020	12-31-2020	1.1109	1.1109
9	1-1-2021	3-31-2021	1.1090	1.1090
10	4-1-2021	6-30-2021	1.3244	1.3244
		Highest	3.3372	3.3372



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**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.9465	0.0478	4.1371	2.2000e-004		0.0228	0.0228		0.0228	0.0228	0.0000	6.7441	6.7441	6.5500e-003	0.0000	6.9078
Energy	0.0410	0.3574	0.1979	2.2400e-003		0.0284	0.0284		0.0284	0.0284	0.0000	1,286.2227	1,286.2227	7.7900e-003	7.4500e-003	1,288.6365
Mobile	0.9356	5.0114	11.2121	0.0391	3.1188	0.0321	3.1509	0.8358	0.0300	0.8658	0.0000	3,612.2453	3,612.2453	0.1873	0.0000	3,616.9273
Waste						0.0000	0.0000		0.0000	0.0000	65.4869	0.0000	65.4869	3.8702	0.0000	162.2411
Water						0.0000	0.0000		0.0000	0.0000	9.7380	143.0374	152.7754	1.0002	0.0236	184.8179
<b>Total</b>	<b>2.9231</b>	<b>5.4165</b>	<b>15.5471</b>	<b>0.0416</b>	<b>3.1188</b>	<b>0.0833</b>	<b>3.2021</b>	<b>0.8358</b>	<b>0.0811</b>	<b>0.9169</b>	<b>75.2249</b>	<b>5,048.2496</b>	<b>5,123.4745</b>	<b>5.0720</b>	<b>0.0311</b>	<b>5,259.5306</b>

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**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.9465	0.0478	4.1371	2.2000e-004		0.0228	0.0228		0.0228	0.0228	0.0000	6.7441	6.7441	6.5500e-003	0.0000	6.9078
Energy	0.0410	0.3574	0.1979	2.2400e-003		0.0284	0.0284		0.0284	0.0284	0.0000	1,286.2227	1,286.2227	7.7900e-003	7.4500e-003	1,288.6365
Mobile	0.9356	5.0114	11.2121	0.0391	3.1188	0.0321	3.1509	0.8358	0.0300	0.8658	0.0000	3,612.2453	3,612.2453	0.1873	0.0000	3,616.9273
Waste						0.0000	0.0000		0.0000	0.0000	65.4869	0.0000	65.4869	3.8702	0.0000	162.2411
Water						0.0000	0.0000		0.0000	0.0000	9.7380	143.0374	152.7754	1.0002	0.0236	184.8179
<b>Total</b>	<b>2.9231</b>	<b>5.4165</b>	<b>15.5471</b>	<b>0.0416</b>	<b>3.1188</b>	<b>0.0833</b>	<b>3.2021</b>	<b>0.8358</b>	<b>0.0811</b>	<b>0.9169</b>	<b>75.2249</b>	<b>5,048.2496</b>	<b>5,123.4745</b>	<b>5.0720</b>	<b>0.0311</b>	<b>5,259.5306</b>

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

**3.0 Construction Detail**

**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2019	1/31/2019	6	27	
2	Grading	Grading	1/1/2019	6/29/2019	6	155	
3	Foundation/Concrete Pour	Building Construction	3/1/2019	5/31/2019	6	79	
4	Building Construction	Building Construction	4/1/2019	6/29/2021	6	704	
5	Paving	Paving	3/1/2021	6/30/2021	6	105	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 1.7**

**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**

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Foundation/Concrete Pour	Cranes	1	6.00	231	0.29
Foundation/Concrete Pour	Forklifts	1	6.00	89	0.20
Foundation/Concrete Pour	Generator Sets	1	8.00	84	0.74
Foundation/Concrete Pour	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Foundation/Concrete Pour	Welders	3	8.00	46	0.45
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	20.00	0.00	544.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	50.00	0.00	9,565.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Foundation/Concrete Pour	7	80.00	82.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	300.00	82.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

**3.2 Demolition - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0589	0.0000	0.0589	8.9100e-003	0.0000	8.9100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0310	0.3061	0.2011	3.3000e-004		0.0174	0.0174		0.0162	0.0162	0.0000	28.9117	28.9117	7.3600e-003	0.0000	29.0958
<b>Total</b>	<b>0.0310</b>	<b>0.3061</b>	<b>0.2011</b>	<b>3.3000e-004</b>	<b>0.0589</b>	<b>0.0174</b>	<b>0.0762</b>	<b>8.9100e-003</b>	<b>0.0162</b>	<b>0.0251</b>	<b>0.0000</b>	<b>28.9117</b>	<b>28.9117</b>	<b>7.3600e-003</b>	<b>0.0000</b>	<b>29.0958</b>

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**3.2 Demolition - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.2600e-003	0.0817	0.0157	2.1000e-004	4.6800e-003	3.0000e-004	4.9700e-003	1.2800e-003	2.8000e-004	1.5700e-003	0.0000	20.7363	20.7363	1.4500e-003	0.0000	20.7727
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-003	1.0400e-003	0.0113	3.0000e-005	2.9600e-003	2.0000e-005	2.9900e-003	7.9000e-004	2.0000e-005	8.1000e-004	0.0000	2.7521	2.7521	9.0000e-005	0.0000	2.7542
<b>Total</b>	<b>3.5600e-003</b>	<b>0.0827</b>	<b>0.0270</b>	<b>2.4000e-004</b>	<b>7.6400e-003</b>	<b>3.2000e-004</b>	<b>7.9600e-003</b>	<b>2.0700e-003</b>	<b>3.0000e-004</b>	<b>2.3800e-003</b>	<b>0.0000</b>	<b>23.4884</b>	<b>23.4884</b>	<b>1.5400e-003</b>	<b>0.0000</b>	<b>23.5269</b>

**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					0.0230	0.0000	0.0230	3.4700e-003	0.0000	3.4700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0310	0.3061	0.2011	3.3000e-004		0.0174	0.0174		0.0162	0.0162	0.0000	28.9117	28.9117	7.3600e-003	0.0000	29.0957
<b>Total</b>	<b>0.0310</b>	<b>0.3061</b>	<b>0.2011</b>	<b>3.3000e-004</b>	<b>0.0230</b>	<b>0.0174</b>	<b>0.0403</b>	<b>3.4700e-003</b>	<b>0.0162</b>	<b>0.0197</b>	<b>0.0000</b>	<b>28.9117</b>	<b>28.9117</b>	<b>7.3600e-003</b>	<b>0.0000</b>	<b>29.0957</b>

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**3.2 Demolition - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.2600e-003	0.0817	0.0157	2.1000e-004	4.6800e-003	3.0000e-004	4.9700e-003	1.2800e-003	2.8000e-004	1.5700e-003	0.0000	20.7363	20.7363	1.4500e-003	0.0000	20.7727
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-003	1.0400e-003	0.0113	3.0000e-005	2.9600e-003	2.0000e-005	2.9900e-003	7.9000e-004	2.0000e-005	8.1000e-004	0.0000	2.7521	2.7521	9.0000e-005	0.0000	2.7542
<b>Total</b>	<b>3.5600e-003</b>	<b>0.0827</b>	<b>0.0270</b>	<b>2.4000e-004</b>	<b>7.6400e-003</b>	<b>3.2000e-004</b>	<b>7.9600e-003</b>	<b>2.0700e-003</b>	<b>3.0000e-004</b>	<b>2.3800e-003</b>	<b>0.0000</b>	<b>23.4884</b>	<b>23.4884</b>	<b>1.5400e-003</b>	<b>0.0000</b>	<b>23.5269</b>

**3.3 Grading - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2966	0.0000	0.2966	0.1609	0.0000	0.1609	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1100	1.2428	0.5120	1.0900e-003		0.0571	0.0571		0.0525	0.0525	0.0000	98.1758	98.1758	0.0311	0.0000	98.9523
<b>Total</b>	<b>0.1100</b>	<b>1.2428</b>	<b>0.5120</b>	<b>1.0900e-003</b>	<b>0.2966</b>	<b>0.0571</b>	<b>0.3536</b>	<b>0.1609</b>	<b>0.0525</b>	<b>0.2134</b>	<b>0.0000</b>	<b>98.1758</b>	<b>98.1758</b>	<b>0.0311</b>	<b>0.0000</b>	<b>98.9523</b>

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**3.3 Grading - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0398	1.4366	0.2760	3.7200e-003	0.0822	5.2100e-003	0.0874	0.0226	4.9800e-003	0.0276	0.0000	364.6008	364.6008	0.0256	0.0000	365.2398
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0187	0.0149	0.1616	4.4000e-004	0.0425	3.4000e-004	0.0429	0.0113	3.1000e-004	0.0116	0.0000	39.4976	39.4976	1.2300e-003	0.0000	39.5284
<b>Total</b>	<b>0.0585</b>	<b>1.4514</b>	<b>0.4376</b>	<b>4.1600e-003</b>	<b>0.1247</b>	<b>5.5500e-003</b>	<b>0.1303</b>	<b>0.0339</b>	<b>5.2900e-003</b>	<b>0.0392</b>	<b>0.0000</b>	<b>404.0984</b>	<b>404.0984</b>	<b>0.0268</b>	<b>0.0000</b>	<b>404.7682</b>

**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					0.1157	0.0000	0.1157	0.0628	0.0000	0.0628	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1100	1.2428	0.5120	1.0900e-003		0.0571	0.0571		0.0525	0.0525	0.0000	98.1757	98.1757	0.0311	0.0000	98.9522
<b>Total</b>	<b>0.1100</b>	<b>1.2428</b>	<b>0.5120</b>	<b>1.0900e-003</b>	<b>0.1157</b>	<b>0.0571</b>	<b>0.1727</b>	<b>0.0628</b>	<b>0.0525</b>	<b>0.1153</b>	<b>0.0000</b>	<b>98.1757</b>	<b>98.1757</b>	<b>0.0311</b>	<b>0.0000</b>	<b>98.9522</b>



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**3.3 Grading - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0398	1.4366	0.2760	3.7200e-003	0.0822	5.2100e-003	0.0874	0.0226	4.9800e-003	0.0276	0.0000	364.6008	364.6008	0.0256	0.0000	365.2398
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0187	0.0149	0.1616	4.4000e-004	0.0425	3.4000e-004	0.0429	0.0113	3.1000e-004	0.0116	0.0000	39.4976	39.4976	1.2300e-003	0.0000	39.5284
<b>Total</b>	<b>0.0585</b>	<b>1.4514</b>	<b>0.4376</b>	<b>4.1600e-003</b>	<b>0.1247</b>	<b>5.5500e-003</b>	<b>0.1303</b>	<b>0.0339</b>	<b>5.2900e-003</b>	<b>0.0392</b>	<b>0.0000</b>	<b>404.0984</b>	<b>404.0984</b>	<b>0.0268</b>	<b>0.0000</b>	<b>404.7682</b>

**3.4 Foundation/Concrete Pour - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0898	0.6312	0.5327	8.7000e-004		0.0362	0.0362		0.0349	0.0349	0.0000	72.3134	72.3134	0.0139	0.0000	72.6609
<b>Total</b>	<b>0.0898</b>	<b>0.6312</b>	<b>0.5327</b>	<b>8.7000e-004</b>		<b>0.0362</b>	<b>0.0362</b>		<b>0.0349</b>	<b>0.0349</b>	<b>0.0000</b>	<b>72.3134</b>	<b>72.3134</b>	<b>0.0139</b>	<b>0.0000</b>	<b>72.6609</b>

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**3.4 Foundation/Concrete Pour - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0127	0.3777	0.0947	8.3000e-004	0.0204	2.4700e-003	0.0229	5.8900e-003	2.3600e-003	8.2600e-003	0.0000	80.1883	80.1883	5.5500e-003	0.0000	80.3270
Worker	0.0153	0.0121	0.1318	3.6000e-004	0.0347	2.7000e-004	0.0349	9.2100e-003	2.5000e-004	9.4600e-003	0.0000	32.2096	32.2096	1.0100e-003	0.0000	32.2348
<b>Total</b>	<b>0.0280</b>	<b>0.3898</b>	<b>0.2265</b>	<b>1.1900e-003</b>	<b>0.0551</b>	<b>2.7400e-003</b>	<b>0.0578</b>	<b>0.0151</b>	<b>2.6100e-003</b>	<b>0.0177</b>	<b>0.0000</b>	<b>112.3979</b>	<b>112.3979</b>	<b>6.5600e-003</b>	<b>0.0000</b>	<b>112.5618</b>

**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	0.0898	0.6312	0.5327	8.7000e-004		0.0362	0.0362		0.0349	0.0349	0.0000	72.3133	72.3133	0.0139	0.0000	72.6609
<b>Total</b>	<b>0.0898</b>	<b>0.6312</b>	<b>0.5327</b>	<b>8.7000e-004</b>		<b>0.0362</b>	<b>0.0362</b>		<b>0.0349</b>	<b>0.0349</b>	<b>0.0000</b>	<b>72.3133</b>	<b>72.3133</b>	<b>0.0139</b>	<b>0.0000</b>	<b>72.6609</b>

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**3.4 Foundation/Concrete Pour - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0127	0.3777	0.0947	8.3000e-004	0.0204	2.4700e-003	0.0229	5.8900e-003	2.3600e-003	8.2600e-003	0.0000	80.1883	80.1883	5.5500e-003	0.0000	80.3270
Worker	0.0153	0.0121	0.1318	3.6000e-004	0.0347	2.7000e-004	0.0349	9.2100e-003	2.5000e-004	9.4600e-003	0.0000	32.2096	32.2096	1.0100e-003	0.0000	32.2348
<b>Total</b>	<b>0.0280</b>	<b>0.3898</b>	<b>0.2265</b>	<b>1.1900e-003</b>	<b>0.0551</b>	<b>2.7400e-003</b>	<b>0.0578</b>	<b>0.0151</b>	<b>2.6100e-003</b>	<b>0.0177</b>	<b>0.0000</b>	<b>112.3979</b>	<b>112.3979</b>	<b>6.5600e-003</b>	<b>0.0000</b>	<b>112.5618</b>

**3.5 Building Construction - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2681	1.8857	1.5915	2.6000e-003		0.1081	0.1081		0.1044	0.1044	0.0000	216.0249	216.0249	0.0415	0.0000	217.0631
<b>Total</b>	<b>0.2681</b>	<b>1.8857</b>	<b>1.5915</b>	<b>2.6000e-003</b>		<b>0.1081</b>	<b>0.1081</b>		<b>0.1044</b>	<b>0.1044</b>	<b>0.0000</b>	<b>216.0249</b>	<b>216.0249</b>	<b>0.0415</b>	<b>0.0000</b>	<b>217.0631</b>

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**3.5 Building Construction - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0380	1.1282	0.2829	2.4800e-003	0.0610	7.3800e-003	0.0684	0.0176	7.0600e-003	0.0247	0.0000	239.5497	239.5497	0.0166	0.0000	239.9641
Worker	0.1710	0.1358	1.4759	3.9900e-003	0.3884	3.0800e-003	0.3915	0.1032	2.8400e-003	0.1060	0.0000	360.8294	360.8294	0.0113	0.0000	361.1113
<b>Total</b>	<b>0.2090</b>	<b>1.2640</b>	<b>1.7589</b>	<b>6.4700e-003</b>	<b>0.4494</b>	<b>0.0105</b>	<b>0.4598</b>	<b>0.1208</b>	<b>9.9000e-003</b>	<b>0.1306</b>	<b>0.0000</b>	<b>600.3791</b>	<b>600.3791</b>	<b>0.0279</b>	<b>0.0000</b>	<b>601.0755</b>

**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	0.2681	1.8857	1.5915	2.6000e-003		0.1081	0.1081		0.1044	0.1044	0.0000	216.0246	216.0246	0.0415	0.0000	217.0628
<b>Total</b>	<b>0.2681</b>	<b>1.8857</b>	<b>1.5915</b>	<b>2.6000e-003</b>		<b>0.1081</b>	<b>0.1081</b>		<b>0.1044</b>	<b>0.1044</b>	<b>0.0000</b>	<b>216.0246</b>	<b>216.0246</b>	<b>0.0415</b>	<b>0.0000</b>	<b>217.0628</b>

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**3.5 Building Construction - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0380	1.1282	0.2829	2.4800e-003	0.0610	7.3800e-003	0.0684	0.0176	7.0600e-003	0.0247	0.0000	239.5497	239.5497	0.0166	0.0000	239.9641
Worker	0.1710	0.1358	1.4759	3.9900e-003	0.3884	3.0800e-003	0.3915	0.1032	2.8400e-003	0.1060	0.0000	360.8294	360.8294	0.0113	0.0000	361.1113
<b>Total</b>	<b>0.2090</b>	<b>1.2640</b>	<b>1.7589</b>	<b>6.4700e-003</b>	<b>0.4494</b>	<b>0.0105</b>	<b>0.4598</b>	<b>0.1208</b>	<b>9.9000e-003</b>	<b>0.1306</b>	<b>0.0000</b>	<b>600.3791</b>	<b>600.3791</b>	<b>0.0279</b>	<b>0.0000</b>	<b>601.0755</b>

**3.5 Building Construction - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3188	2.3218	2.0705	3.4600e-003		0.1250	0.1250		0.1207	0.1207	0.0000	285.0212	285.0212	0.0529	0.0000	286.3439
<b>Total</b>	<b>0.3188</b>	<b>2.3218</b>	<b>2.0705</b>	<b>3.4600e-003</b>		<b>0.1250</b>	<b>0.1250</b>		<b>0.1207</b>	<b>0.1207</b>	<b>0.0000</b>	<b>285.0212</b>	<b>285.0212</b>	<b>0.0529</b>	<b>0.0000</b>	<b>286.3439</b>

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**3.5 Building Construction - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0431	1.3739	0.3403	3.2700e-003	0.0812	6.7300e-003	0.0879	0.0234	6.4400e-003	0.0299	0.0000	316.6385	316.6385	0.0208	0.0000	317.1581
Worker	0.2103	0.1612	1.7838	5.1500e-003	0.5168	3.9900e-003	0.5207	0.1372	3.6800e-003	0.1409	0.0000	465.1907	465.1907	0.0134	0.0000	465.5244
<b>Total</b>	<b>0.2534</b>	<b>1.5351</b>	<b>2.1242</b>	<b>8.4200e-003</b>	<b>0.5979</b>	<b>0.0107</b>	<b>0.6086</b>	<b>0.1607</b>	<b>0.0101</b>	<b>0.1708</b>	<b>0.0000</b>	<b>781.8292</b>	<b>781.8292</b>	<b>0.0341</b>	<b>0.0000</b>	<b>782.6825</b>

**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	0.3188	2.3218	2.0705	3.4600e-003		0.1250	0.1250		0.1207	0.1207	0.0000	285.0208	285.0208	0.0529	0.0000	286.3436
<b>Total</b>	<b>0.3188</b>	<b>2.3218</b>	<b>2.0705</b>	<b>3.4600e-003</b>		<b>0.1250</b>	<b>0.1250</b>		<b>0.1207</b>	<b>0.1207</b>	<b>0.0000</b>	<b>285.0208</b>	<b>285.0208</b>	<b>0.0529</b>	<b>0.0000</b>	<b>286.3436</b>

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**3.5 Building Construction - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0431	1.3739	0.3403	3.2700e-003	0.0812	6.7300e-003	0.0879	0.0234	6.4400e-003	0.0299	0.0000	316.6385	316.6385	0.0208	0.0000	317.1581
Worker	0.2103	0.1612	1.7838	5.1500e-003	0.5168	3.9900e-003	0.5207	0.1372	3.6800e-003	0.1409	0.0000	465.1907	465.1907	0.0134	0.0000	465.5244
<b>Total</b>	<b>0.2534</b>	<b>1.5351</b>	<b>2.1242</b>	<b>8.4200e-003</b>	<b>0.5979</b>	<b>0.0107</b>	<b>0.6086</b>	<b>0.1607</b>	<b>0.0101</b>	<b>0.1708</b>	<b>0.0000</b>	<b>781.8292</b>	<b>781.8292</b>	<b>0.0341</b>	<b>0.0000</b>	<b>782.6825</b>

**3.5 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1396	1.0500	0.9933	1.7000e-003		0.0527	0.0527		0.0509	0.0509	0.0000	139.7917	139.7917	0.0250	0.0000	140.4156
<b>Total</b>	<b>0.1396</b>	<b>1.0500</b>	<b>0.9933</b>	<b>1.7000e-003</b>		<b>0.0527</b>	<b>0.0527</b>		<b>0.0509</b>	<b>0.0509</b>	<b>0.0000</b>	<b>139.7917</b>	<b>139.7917</b>	<b>0.0250</b>	<b>0.0000</b>	<b>140.4156</b>

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**3.5 Building Construction - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0180	0.6109	0.1515	1.5900e-003	0.0398	1.2300e-003	0.0410	0.0115	1.1800e-003	0.0127	0.0000	154.1541	154.1541	9.7500e-003	0.0000	154.3978
Worker	0.0963	0.0712	0.8050	2.4400e-003	0.2534	1.9000e-003	0.2553	0.0673	1.7500e-003	0.0691	0.0000	220.7575	220.7575	5.9200e-003	0.0000	220.9055
<b>Total</b>	<b>0.1142</b>	<b>0.6821</b>	<b>0.9565</b>	<b>4.0300e-003</b>	<b>0.2932</b>	<b>3.1300e-003</b>	<b>0.2964</b>	<b>0.0788</b>	<b>2.9300e-003</b>	<b>0.0817</b>	<b>0.0000</b>	<b>374.9116</b>	<b>374.9116</b>	<b>0.0157</b>	<b>0.0000</b>	<b>375.3033</b>

**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	0.1396	1.0500	0.9933	1.7000e-003		0.0527	0.0527		0.0509	0.0509	0.0000	139.7915	139.7915	0.0250	0.0000	140.4154
<b>Total</b>	<b>0.1396</b>	<b>1.0500</b>	<b>0.9933</b>	<b>1.7000e-003</b>		<b>0.0527</b>	<b>0.0527</b>		<b>0.0509</b>	<b>0.0509</b>	<b>0.0000</b>	<b>139.7915</b>	<b>139.7915</b>	<b>0.0250</b>	<b>0.0000</b>	<b>140.4154</b>



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**3.5 Building Construction - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0180	0.6109	0.1515	1.5900e-003	0.0398	1.2300e-003	0.0410	0.0115	1.1800e-003	0.0127	0.0000	154.1541	154.1541	9.7500e-003	0.0000	154.3978
Worker	0.0963	0.0712	0.8050	2.4400e-003	0.2534	1.9000e-003	0.2553	0.0673	1.7500e-003	0.0691	0.0000	220.7575	220.7575	5.9200e-003	0.0000	220.9055
<b>Total</b>	<b>0.1142</b>	<b>0.6821</b>	<b>0.9565</b>	<b>4.0300e-003</b>	<b>0.2932</b>	<b>3.1300e-003</b>	<b>0.2964</b>	<b>0.0788</b>	<b>2.9300e-003</b>	<b>0.0817</b>	<b>0.0000</b>	<b>374.9116</b>	<b>374.9116</b>	<b>0.0157</b>	<b>0.0000</b>	<b>375.3033</b>

**3.6 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	0.0406	0.4065	0.4650	7.1000e-004		0.0218	0.0218		0.0201	0.0201	0.0000	61.7661	61.7661	0.0196	0.0000	62.2556
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0406</b>	<b>0.4065</b>	<b>0.4650</b>	<b>7.1000e-004</b>		<b>0.0218</b>	<b>0.0218</b>		<b>0.0201</b>	<b>0.0201</b>	<b>0.0000</b>	<b>61.7661</b>	<b>61.7661</b>	<b>0.0196</b>	<b>0.0000</b>	<b>62.2556</b>

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**3.6 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3800e-003	3.2300e-003	0.0366	1.1000e-004	0.0115	9.0000e-005	0.0116	3.0600e-003	8.0000e-005	3.1400e-003	0.0000	10.0344	10.0344	2.7000e-004	0.0000	10.0412
<b>Total</b>	<b>4.3800e-003</b>	<b>3.2300e-003</b>	<b>0.0366</b>	<b>1.1000e-004</b>	<b>0.0115</b>	<b>9.0000e-005</b>	<b>0.0116</b>	<b>3.0600e-003</b>	<b>8.0000e-005</b>	<b>3.1400e-003</b>	<b>0.0000</b>	<b>10.0344</b>	<b>10.0344</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>10.0412</b>

**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	0.0406	0.4065	0.4650	7.1000e-004		0.0218	0.0218		0.0201	0.0201	0.0000	61.7660	61.7660	0.0196	0.0000	62.2555
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0406</b>	<b>0.4065</b>	<b>0.4650</b>	<b>7.1000e-004</b>		<b>0.0218</b>	<b>0.0218</b>		<b>0.0201</b>	<b>0.0201</b>	<b>0.0000</b>	<b>61.7660</b>	<b>61.7660</b>	<b>0.0196</b>	<b>0.0000</b>	<b>62.2555</b>

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**3.6 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3800e-003	3.2300e-003	0.0366	1.1000e-004	0.0115	9.0000e-005	0.0116	3.0600e-003	8.0000e-005	3.1400e-003	0.0000	10.0344	10.0344	2.7000e-004	0.0000	10.0412
<b>Total</b>	<b>4.3800e-003</b>	<b>3.2300e-003</b>	<b>0.0366</b>	<b>1.1000e-004</b>	<b>0.0115</b>	<b>9.0000e-005</b>	<b>0.0116</b>	<b>3.0600e-003</b>	<b>8.0000e-005</b>	<b>3.1400e-003</b>	<b>0.0000</b>	<b>10.0344</b>	<b>10.0344</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>10.0412</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.9356	5.0114	11.2121	0.0391	3.1188	0.0321	3.1509	0.8358	0.0300	0.8658	0.0000	3,612.2453	3,612.2453	0.1873	0.0000	3,616.9273
Unmitigated	0.9356	5.0114	11.2121	0.0391	3.1188	0.0321	3.1509	0.8358	0.0300	0.8658	0.0000	3,612.2453	3,612.2453	0.1873	0.0000	3,616.9273

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse High Rise	1,448.00	1,492.00	1188.00	4,842,592	4,842,592
Enclosed Parking with Elevator	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	1,082.98	1,348.90	1122.91	1,535,460	1,535,460
Regional Shopping Center	875.95	1,025.19	517.82	1,829,991	1,829,991
<b>Total</b>	<b>3,406.92</b>	<b>3,866.08</b>	<b>2,828.73</b>	<b>8,208,043</b>	<b>8,208,043</b>

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
Condo/Townhouse High Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
High Turnover (Sit Down)	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse High Rise	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Enclosed Parking with Elevator	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
High Turnover (Sit Down Restaurant)	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Regional Shopping Center	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	880.0265	880.0265	0.0000	0.0000	880.0265
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	880.0265	880.0265	0.0000	0.0000	880.0265
NaturalGas Mitigated	0.0410	0.3574	0.1979	2.2400e-003		0.0284	0.0284		0.0284	0.0284	0.0000	406.1962	406.1962	7.7900e-003	7.4500e-003	408.6100
NaturalGas Unmitigated	0.0410	0.3574	0.1979	2.2400e-003		0.0284	0.0284		0.0284	0.0284	0.0000	406.1962	406.1962	7.7900e-003	7.4500e-003	408.6100

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Condo/Townhouse High Rise	5.35847e+006	0.0289	0.2469	0.1051	1.5800e-003		0.0200	0.0200		0.0200	0.0200	0.0000	285.9483	285.9483	5.4800e-003	5.2400e-003	287.6475
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	2.2153e+006	0.0120	0.1086	0.0912	6.5000e-004		8.2500e-003	8.2500e-003		8.2500e-003	8.2500e-003	0.0000	118.2166	118.2166	2.2700e-003	2.1700e-003	118.9191
Regional Shopping Center	38064.4	2.1000e-004	1.8700e-003	1.5700e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	2.0313	2.0313	4.0000e-005	4.0000e-005	2.0433
<b>Total</b>		<b>0.0411</b>	<b>0.3574</b>	<b>0.1979</b>	<b>2.2400e-003</b>		<b>0.0284</b>	<b>0.0284</b>		<b>0.0284</b>	<b>0.0284</b>	<b>0.0000</b>	<b>406.1962</b>	<b>406.1962</b>	<b>7.7900e-003</b>	<b>7.4500e-003</b>	<b>408.6100</b>

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**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Condo/Townhouse High Rise	5.35847e+006	0.0289	0.2469	0.1051	1.5800e-003		0.0200	0.0200		0.0200	0.0200	0.0000	285.9483	285.9483	5.4800e-003	5.2400e-003	287.6475
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	2.2153e+006	0.0120	0.1086	0.0912	6.5000e-004		8.2500e-003	8.2500e-003		8.2500e-003	8.2500e-003	0.0000	118.2166	118.2166	2.2700e-003	2.1700e-003	118.9191
Regional Shopping Center	38064.4	2.1000e-004	1.8700e-003	1.5700e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	2.0313	2.0313	4.0000e-005	4.0000e-005	2.0433
<b>Total</b>		<b>0.0411</b>	<b>0.3574</b>	<b>0.1979</b>	<b>2.2400e-003</b>		<b>0.0284</b>	<b>0.0284</b>		<b>0.0284</b>	<b>0.0284</b>	<b>0.0000</b>	<b>406.1962</b>	<b>406.1962</b>	<b>7.7900e-003</b>	<b>7.4500e-003</b>	<b>408.6100</b>

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse High Rise	1.72313e+006	413.5521	0.0000	0.0000	413.5521
Enclosed Parking with Elevator	1.20656e+006	289.5753	0.0000	0.0000	289.5753
High Turnover (Sit Down Restaurant)	423744	101.6987	0.0000	0.0000	101.6987
Regional Shopping Center	313335	75.2005	0.0000	0.0000	75.2005
<b>Total</b>		<b>880.0265</b>	<b>0.0000</b>	<b>0.0000</b>	<b>880.0265</b>



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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse High Rise	1.72313e+006	413.5521	0.0000	0.0000	413.5521
Enclosed Parking with Elevator	1.20656e+006	289.5753	0.0000	0.0000	289.5753
High Turnover (Sit Down Restaurant)	423744	101.6987	0.0000	0.0000	101.6987
Regional Shopping Center	313335	75.2005	0.0000	0.0000	75.2005
<b>Total</b>		<b>880.0265</b>	<b>0.0000</b>	<b>0.0000</b>	<b>880.0265</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.9465	0.0478	4.1371	2.2000e-004		0.0228	0.0228		0.0228	0.0228	0.0000	6.7441	6.7441	6.5500e-003	0.0000	6.9078
Unmitigated	1.9465	0.0478	4.1371	2.2000e-004		0.0228	0.0228		0.0228	0.0228	0.0000	6.7441	6.7441	6.5500e-003	0.0000	6.9078

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	0.1512					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.6698					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1255	0.0478	4.1371	2.2000e-004		0.0228	0.0228		0.0228	0.0228	0.0000	6.7441	6.7441	6.5500e-003	0.0000	6.9078
<b>Total</b>	<b>1.9465</b>	<b>0.0478</b>	<b>4.1371</b>	<b>2.2000e-004</b>		<b>0.0228</b>	<b>0.0228</b>		<b>0.0228</b>	<b>0.0228</b>	<b>0.0000</b>	<b>6.7441</b>	<b>6.7441</b>	<b>6.5500e-003</b>	<b>0.0000</b>	<b>6.9078</b>

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**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1512					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.6698					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1255	0.0478	4.1371	2.2000e-004		0.0228	0.0228		0.0228	0.0228	0.0000	6.7441	6.7441	6.5500e-003	0.0000	6.9078
<b>Total</b>	<b>1.9465</b>	<b>0.0478</b>	<b>4.1371</b>	<b>2.2000e-004</b>		<b>0.0228</b>	<b>0.0228</b>		<b>0.0228</b>	<b>0.0228</b>	<b>0.0000</b>	<b>6.7441</b>	<b>6.7441</b>	<b>6.5500e-003</b>	<b>0.0000</b>	<b>6.9078</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	152.7754	1.0002	0.0236	184.8179
Unmitigated	152.7754	1.0002	0.0236	184.8179

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse High Rise	26.0616 / 16.4301	133.5212	0.8492	0.0201	160.7271
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	2.91392 / 0.185995	10.5265	0.0950	2.2400e-003	13.5684
Regional Shopping Center	1.71922 / 1.05372	8.7277	0.0560	1.3200e-003	10.5224
<b>Total</b>		<b>152.7754</b>	<b>1.0002</b>	<b>0.0236</b>	<b>184.8179</b>

Broadway Blocks - South Coast AQMD Air District, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse High Rise	26.0616 / 16.4301	133.5212	0.8492	0.0201	160.7271
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	2.91392 / 0.185995	10.5265	0.0950	2.2400e-003	13.5684
Regional Shopping Center	1.71922 / 1.05372	8.7277	0.0560	1.3200e-003	10.5224
<b>Total</b>		<b>152.7754</b>	<b>1.0002</b>	<b>0.0236</b>	<b>184.8179</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Broadway Blocks - South Coast AQMD Air District, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	65.4869	3.8702	0.0000	162.2411
Unmitigated	65.4869	3.8702	0.0000	162.2411

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse High Rise	184	37.3503	2.2073	0.0000	92.5339
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	114.24	23.1897	1.3705	0.0000	57.4515
Regional Shopping Center	24.37	4.9469	0.2924	0.0000	12.2557
<b>Total</b>		<b>65.4869</b>	<b>3.8702</b>	<b>0.0000</b>	<b>162.2411</b>

Broadway Blocks - South Coast AQMD Air District, Annual

**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse High Rise	184	37.3503	2.2073	0.0000	92.5339
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	114.24	23.1897	1.3705	0.0000	57.4515
Regional Shopping Center	24.37	4.9469	0.2924	0.0000	12.2557
<b>Total</b>		<b>65.4869</b>	<b>3.8702</b>	<b>0.0000</b>	<b>162.2411</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

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

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

Broadway Blocks - South Coast AQMD Air District, Annual

Equipment Type	Number
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## 11.0 Vegetation

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Broadway Blocks - South Coast AQMD Air District, Summer

**Broadway Blocks**  
**South Coast AQMD Air District, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	205.90	1000sqft	0.00	205,898.00	0
High Turnover (Sit Down Restaurant)	9.60	1000sqft	0.22	9,600.00	0
Condo/Townhouse High Rise	400.00	Dwelling Unit	1.35	425,596.00	1144
Regional Shopping Center	23.21	1000sqft	0.00	23,210.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	9			<b>Operational Year</b>	2021
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	529.11	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

**1.3 User Entered Comments & Non-Default Data**

Broadway Blocks - South Coast AQMD Air District, Summer

Project Characteristics - CO2 intensity factor for 2016 (factors includes both CH4 and N2O emissions as CO2e)

Land Use - Lot acreage for residential equal to total lot acreage minus acreage for 'Acres of Books'.

Construction Phase - Based on anticipated project-specific construction schedule.

Trips and VMT - Number of worker trips equal to estimated maximum worker trips per day.

Demolition - Demoliton weight from construction estimates.

Grading - Total acres graded equal to total construction disturbed area.

Woodstoves - No woodstoves or fireplaces.

Energy Use -

Construction Off-road Equipment Mitigation -

Energy Mitigation -

Vehicle Trips - Trip rates based on project-specific traffic report.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	27.00
tblConstructionPhase	NumDays	4.00	155.00
tblConstructionPhase	NumDays	200.00	79.00
tblConstructionPhase	NumDays	200.00	704.00
tblConstructionPhase	NumDays	10.00	105.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	1/28/2019	1/31/2019
tblConstructionPhase	PhaseEndDate	2/1/2019	6/29/2019
tblConstructionPhase	PhaseEndDate	11/8/2019	5/31/2019

## Broadway Blocks - South Coast AQMD Air District, Summer

tblConstructionPhase	PhaseEndDate	8/14/2020	6/29/2021
tblConstructionPhase	PhaseEndDate	8/28/2020	6/30/2021
tblConstructionPhase	PhaseStartDate	1/29/2019	1/1/2019
tblConstructionPhase	PhaseStartDate	2/2/2019	3/1/2019
tblConstructionPhase	PhaseStartDate	11/9/2019	4/1/2019
tblConstructionPhase	PhaseStartDate	8/15/2020	3/1/2021
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	340.00	0.00
tblFireplaces	NumberNoFireplace	40.00	0.00
tblFireplaces	NumberWood	20.00	0.00
tblGrading	AcresOfGrading	48.38	1.70
tblGrading	MaterialExported	0.00	76,523.00
tblLandUse	LandUseSquareFeet	205,900.00	205,898.00
tblLandUse	LandUseSquareFeet	400,000.00	425,596.00
tblLandUse	LotAcreage	4.73	0.00
tblLandUse	LotAcreage	6.25	1.35
tblLandUse	LotAcreage	0.53	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	529.11
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblTripsAndVMT	WorkerTripNumber	13.00	20.00
tblTripsAndVMT	WorkerTripNumber	8.00	50.00
tblTripsAndVMT	WorkerTripNumber	386.00	80.00
tblTripsAndVMT	WorkerTripNumber	386.00	300.00
tblTripsAndVMT	WorkerTripNumber	13.00	20.00

## Broadway Blocks - South Coast AQMD Air District, Summer

tblVehicleTrips	ST_TR	4.31	3.73
tblVehicleTrips	ST_TR	158.37	140.51
tblVehicleTrips	ST_TR	49.97	44.17
tblVehicleTrips	SU_TR	3.43	2.97
tblVehicleTrips	SU_TR	131.84	116.97
tblVehicleTrips	SU_TR	25.24	22.31
tblVehicleTrips	WD_TR	4.18	3.62
tblVehicleTrips	WD_TR	127.15	112.81
tblVehicleTrips	WD_TR	42.70	37.74
tblWoodstoves	NumberCatalytic	20.00	0.00
tblWoodstoves	NumberNoncatalytic	20.00	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

## 2.0 Emissions Summary

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Broadway Blocks - South Coast AQMD Air District, Summer

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	9.2091	86.1922	60.8769	0.2001	10.7608	2.7965	13.5573	3.9483	2.6638	6.6121	0.0000	20,266.37 32	20,266.37 32	2.0327	0.0000	20,317.19 15
2020	3.6571	24.3053	27.5016	0.0776	3.8781	0.8640	4.7421	1.0404	0.8330	1.8734	0.0000	7,684.889 2	7,684.889 2	0.6115	0.0000	7,700.176 5
2021	4.1653	30.0751	35.6673	0.0921	4.1017	1.1417	5.2434	1.0997	1.0831	2.1827	0.0000	9,075.772 5	9,075.772 5	0.9988	0.0000	9,100.742 8
<b>Maximum</b>	<b>9.2091</b>	<b>86.1922</b>	<b>60.8769</b>	<b>0.2001</b>	<b>10.7608</b>	<b>2.7965</b>	<b>13.5573</b>	<b>3.9483</b>	<b>2.6638</b>	<b>6.6121</b>	<b>0.0000</b>	<b>20,266.37 32</b>	<b>20,266.37 32</b>	<b>2.0327</b>	<b>0.0000</b>	<b>20,317.19 15</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	9.2091	86.1922	60.8769	0.2001	8.4267	2.7965	11.2232	2.6820	2.6638	5.3458	0.0000	20,266.37 32	20,266.37 32	2.0327	0.0000	20,317.19 15
2020	3.6571	24.3053	27.5016	0.0776	3.8781	0.8640	4.7421	1.0404	0.8330	1.8734	0.0000	7,684.889 2	7,684.889 2	0.6115	0.0000	7,700.176 5
2021	4.1653	30.0751	35.6673	0.0921	4.1017	1.1417	5.2434	1.0997	1.0831	2.1827	0.0000	9,075.772 5	9,075.772 5	0.9988	0.0000	9,100.742 8
<b>Maximum</b>	<b>9.2091</b>	<b>86.1922</b>	<b>60.8769</b>	<b>0.2001</b>	<b>8.4267</b>	<b>2.7965</b>	<b>11.2232</b>	<b>2.6820</b>	<b>2.6638</b>	<b>5.3458</b>	<b>0.0000</b>	<b>20,266.37 32</b>	<b>20,266.37 32</b>	<b>2.0327</b>	<b>0.0000</b>	<b>20,317.19 15</b>

## Broadway Blocks - South Coast AQMD Air District, 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	12.45	0.00	9.91	20.80	0.00	11.87	0.00	0.00	0.00	0.00	0.00	0.00

Broadway Blocks - South Coast AQMD Air District, 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	10.9823	0.3820	33.0967	1.7400e-003		0.1824	0.1824		0.1824	0.1824	0.0000	59.4732	59.4732	0.0577	0.0000	60.9162
Energy	0.2249	1.9582	1.0841	0.0123		0.1554	0.1554		0.1554	0.1554		2,453.4499	2,453.4499	0.0470	0.0450	2,468.0296
Mobile	6.2876	30.0858	71.7647	0.2500	19.4642	0.1969	19.6611	5.2080	0.1838	5.3918		25,443.6278	25,443.6278	1.2754		25,475.5115
<b>Total</b>	<b>17.4948</b>	<b>32.4260</b>	<b>105.9455</b>	<b>0.2640</b>	<b>19.4642</b>	<b>0.5346</b>	<b>19.9989</b>	<b>5.2080</b>	<b>0.5216</b>	<b>5.7296</b>	<b>0.0000</b>	<b>27,956.5509</b>	<b>27,956.5509</b>	<b>1.3801</b>	<b>0.0450</b>	<b>28,004.4573</b>

**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	10.9823	0.3820	33.0967	1.7400e-003		0.1824	0.1824		0.1824	0.1824	0.0000	59.4732	59.4732	0.0577	0.0000	60.9162
Energy	0.2249	1.9582	1.0841	0.0123		0.1554	0.1554		0.1554	0.1554		2,453.4499	2,453.4499	0.0470	0.0450	2,468.0296
Mobile	6.2876	30.0858	71.7647	0.2500	19.4642	0.1969	19.6611	5.2080	0.1838	5.3918		25,443.6278	25,443.6278	1.2754		25,475.5115
<b>Total</b>	<b>17.4948</b>	<b>32.4260</b>	<b>105.9455</b>	<b>0.2640</b>	<b>19.4642</b>	<b>0.5346</b>	<b>19.9989</b>	<b>5.2080</b>	<b>0.5216</b>	<b>5.7296</b>	<b>0.0000</b>	<b>27,956.5509</b>	<b>27,956.5509</b>	<b>1.3801</b>	<b>0.0450</b>	<b>28,004.4573</b>

## Broadway Blocks - South Coast AQMD Air District, 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

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#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2019	1/31/2019	6	27	
2	Grading	Grading	1/1/2019	6/29/2019	6	155	
3	Foundation/Concrete Pour	Building Construction	3/1/2019	5/31/2019	6	79	
4	Building Construction	Building Construction	4/1/2019	6/29/2021	6	704	
5	Paving	Paving	3/1/2021	6/30/2021	6	105	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1.7

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



## Broadway Blocks - South Coast AQMD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Foundation/Concrete Pour	Cranes	1	6.00	231	0.29
Foundation/Concrete Pour	Forklifts	1	6.00	89	0.20
Foundation/Concrete Pour	Generator Sets	1	8.00	84	0.74
Foundation/Concrete Pour	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Foundation/Concrete Pour	Welders	3	8.00	46	0.45
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Broadway Blocks - South Coast AQMD Air District, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	20.00	0.00	544.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	50.00	0.00	9,565.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Foundation/Concrete Pour	7	80.00	82.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	300.00	82.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

**3.2 Demolition - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.3591	0.0000	4.3591	0.6600	0.0000	0.6600			0.0000			0.0000
Off-Road	2.2950	22.6751	14.8943	0.0241		1.2863	1.2863		1.2017	1.2017		2,360.7198	2,360.7198	0.6011		2,375.7475
<b>Total</b>	<b>2.2950</b>	<b>22.6751</b>	<b>14.8943</b>	<b>0.0241</b>	<b>4.3591</b>	<b>1.2863</b>	<b>5.6454</b>	<b>0.6600</b>	<b>1.2017</b>	<b>1.8617</b>		<b>2,360.7198</b>	<b>2,360.7198</b>	<b>0.6011</b>		<b>2,375.7475</b>

Broadway Blocks - South Coast AQMD Air District, Summer

**3.2 Demolition - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1656	5.8656	1.1227	0.0158	0.3521	0.0218	0.3738	0.0965	0.0208	0.1173		1,706.1798	1,706.1798	0.1164		1,709.0896
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0980	0.0682	0.8987	2.3700e-003	0.2236	1.7400e-003	0.2253	0.0593	1.6000e-003	0.0609		236.1978	236.1978	7.3900e-003		236.3825
<b>Total</b>	<b>0.2635</b>	<b>5.9338</b>	<b>2.0214</b>	<b>0.0182</b>	<b>0.5756</b>	<b>0.0235</b>	<b>0.5991</b>	<b>0.1558</b>	<b>0.0224</b>	<b>0.1782</b>		<b>1,942.3776</b>	<b>1,942.3776</b>	<b>0.1238</b>		<b>1,945.4721</b>

**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					1.7000	0.0000	1.7000	0.2574	0.0000	0.2574			0.0000			0.0000
Off-Road	2.2950	22.6751	14.8943	0.0241		1.2863	1.2863		1.2017	1.2017	0.0000	2,360.7197	2,360.7197	0.6011		2,375.7475
<b>Total</b>	<b>2.2950</b>	<b>22.6751</b>	<b>14.8943</b>	<b>0.0241</b>	<b>1.7000</b>	<b>1.2863</b>	<b>2.9863</b>	<b>0.2574</b>	<b>1.2017</b>	<b>1.4591</b>	<b>0.0000</b>	<b>2,360.7197</b>	<b>2,360.7197</b>	<b>0.6011</b>		<b>2,375.7475</b>

Broadway Blocks - South Coast AQMD Air District, Summer

**3.2 Demolition - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1656	5.8656	1.1227	0.0158	0.3521	0.0218	0.3738	0.0965	0.0208	0.1173		1,706.1798	1,706.1798	0.1164		1,709.0896
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0980	0.0682	0.8987	2.3700e-003	0.2236	1.7400e-003	0.2253	0.0593	1.6000e-003	0.0609		236.1978	236.1978	7.3900e-003		236.3825
<b>Total</b>	<b>0.2635</b>	<b>5.9338</b>	<b>2.0214</b>	<b>0.0182</b>	<b>0.5756</b>	<b>0.0235</b>	<b>0.5991</b>	<b>0.1558</b>	<b>0.0224</b>	<b>0.1782</b>		<b>1,942.3776</b>	<b>1,942.3776</b>	<b>0.1238</b>		<b>1,945.4721</b>

**3.3 Grading - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.8264	0.0000	3.8264	2.0759	0.0000	2.0759			0.0000			0.0000
Off-Road	1.4197	16.0357	6.6065	0.0141		0.7365	0.7365		0.6775	0.6775		1,396.3909	1,396.3909	0.4418		1,407.4359
<b>Total</b>	<b>1.4197</b>	<b>16.0357</b>	<b>6.6065</b>	<b>0.0141</b>	<b>3.8264</b>	<b>0.7365</b>	<b>4.5629</b>	<b>2.0759</b>	<b>0.6775</b>	<b>2.7535</b>		<b>1,396.3909</b>	<b>1,396.3909</b>	<b>0.4418</b>		<b>1,407.4359</b>

Broadway Blocks - South Coast AQMD Air District, Summer

**3.3 Grading - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.5071	17.9652	3.4385	0.0484	1.0784	0.0667	1.1450	0.2955	0.0638	0.3593		5,225.6816	5,225.6816	0.3565		5,234.5936
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2449	0.1704	2.2467	5.9300e-003	0.5589	4.3500e-003	0.5632	0.1482	4.0100e-003	0.1522		590.4945	590.4945	0.0185		590.9562
<b>Total</b>	<b>0.7519</b>	<b>18.1356</b>	<b>5.6852</b>	<b>0.0543</b>	<b>1.6372</b>	<b>0.0710</b>	<b>1.7082</b>	<b>0.4437</b>	<b>0.0678</b>	<b>0.5115</b>		<b>5,816.1761</b>	<b>5,816.1761</b>	<b>0.3750</b>		<b>5,825.5498</b>

**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					1.4923	0.0000	1.4923	0.8096	0.0000	0.8096			0.0000			0.0000
Off-Road	1.4197	16.0357	6.6065	0.0141		0.7365	0.7365		0.6775	0.6775	0.0000	1,396.3909	1,396.3909	0.4418		1,407.4359
<b>Total</b>	<b>1.4197</b>	<b>16.0357</b>	<b>6.6065</b>	<b>0.0141</b>	<b>1.4923</b>	<b>0.7365</b>	<b>2.2288</b>	<b>0.8096</b>	<b>0.6775</b>	<b>1.4872</b>	<b>0.0000</b>	<b>1,396.3909</b>	<b>1,396.3909</b>	<b>0.4418</b>		<b>1,407.4359</b>

Broadway Blocks - South Coast AQMD Air District, Summer

**3.3 Grading - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.5071	17.9652	3.4385	0.0484	1.0784	0.0667	1.1450	0.2955	0.0638	0.3593		5,225.6816	5,225.6816	0.3565		5,234.5936
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2449	0.1704	2.2467	5.9300e-003	0.5589	4.3500e-003	0.5632	0.1482	4.0100e-003	0.1522		590.4945	590.4945	0.0185		590.9562
<b>Total</b>	<b>0.7519</b>	<b>18.1356</b>	<b>5.6852</b>	<b>0.0543</b>	<b>1.6372</b>	<b>0.0710</b>	<b>1.7082</b>	<b>0.4437</b>	<b>0.0678</b>	<b>0.5115</b>		<b>5,816.1761</b>	<b>5,816.1761</b>	<b>0.3750</b>		<b>5,825.5498</b>

**3.4 Foundation/Concrete Pour - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2721	15.9802	13.4870	0.0220		0.9158	0.9158		0.8846	0.8846		2,018.0224	2,018.0224	0.3879		2,027.7210
<b>Total</b>	<b>2.2721</b>	<b>15.9802</b>	<b>13.4870</b>	<b>0.0220</b>		<b>0.9158</b>	<b>0.9158</b>		<b>0.8846</b>	<b>0.8846</b>		<b>2,018.0224</b>	<b>2,018.0224</b>	<b>0.3879</b>		<b>2,027.7210</b>

Broadway Blocks - South Coast AQMD Air District, Summer

**3.4 Foundation/Concrete Pour - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3161	9.3828	2.2682	0.0213	0.5248	0.0622	0.5870	0.1511	0.0595	0.2105		2,265.0016	2,265.0016	0.1499		2,268.7483
Worker	0.3918	0.2726	3.5947	9.4900e-003	0.8942	6.9600e-003	0.9012	0.2372	6.4100e-003	0.2436		944.7912	944.7912	0.0296		945.5299
<b>Total</b>	<b>0.7079</b>	<b>9.6554</b>	<b>5.8629</b>	<b>0.0307</b>	<b>1.4190</b>	<b>0.0691</b>	<b>1.4881</b>	<b>0.3882</b>	<b>0.0659</b>	<b>0.4541</b>		<b>3,209.7928</b>	<b>3,209.7928</b>	<b>0.1794</b>		<b>3,214.2782</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2721	15.9802	13.4870	0.0220		0.9158	0.9158		0.8846	0.8846	0.0000	2,018.0224	2,018.0224	0.3879		2,027.7210
<b>Total</b>	<b>2.2721</b>	<b>15.9802</b>	<b>13.4870</b>	<b>0.0220</b>		<b>0.9158</b>	<b>0.9158</b>		<b>0.8846</b>	<b>0.8846</b>	<b>0.0000</b>	<b>2,018.0224</b>	<b>2,018.0224</b>	<b>0.3879</b>		<b>2,027.7210</b>

Broadway Blocks - South Coast AQMD Air District, Summer

**3.4 Foundation/Concrete Pour - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3161	9.3828	2.2682	0.0213	0.5248	0.0622	0.5870	0.1511	0.0595	0.2105		2,265.0016	2,265.0016	0.1499		2,268.7483
Worker	0.3918	0.2726	3.5947	9.4900e-003	0.8942	6.9600e-003	0.9012	0.2372	6.4100e-003	0.2436		944.7912	944.7912	0.0296		945.5299
<b>Total</b>	<b>0.7079</b>	<b>9.6554</b>	<b>5.8629</b>	<b>0.0307</b>	<b>1.4190</b>	<b>0.0691</b>	<b>1.4881</b>	<b>0.3882</b>	<b>0.0659</b>	<b>0.4541</b>		<b>3,209.7928</b>	<b>3,209.7928</b>	<b>0.1794</b>		<b>3,214.2782</b>

**3.5 Building Construction - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2721	15.9802	13.4870	0.0220		0.9158	0.9158		0.8846	0.8846		2,018.0224	2,018.0224	0.3879		2,027.7210
<b>Total</b>	<b>2.2721</b>	<b>15.9802</b>	<b>13.4870</b>	<b>0.0220</b>		<b>0.9158</b>	<b>0.9158</b>		<b>0.8846</b>	<b>0.8846</b>		<b>2,018.0224</b>	<b>2,018.0224</b>	<b>0.3879</b>		<b>2,027.7210</b>



Broadway Blocks - South Coast AQMD Air District, Summer

**3.5 Building Construction - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3161	9.3828	2.2682	0.0213	0.5248	0.0622	0.5870	0.1511	0.0595	0.2105		2,265.0016	2,265.0016	0.1499		2,268.7483
Worker	1.4692	1.0224	13.4801	0.0356	3.3533	0.0261	3.3794	0.8893	0.0240	0.9134		3,542.9671	3,542.9671	0.1108		3,545.7373
<b>Total</b>	<b>1.7854</b>	<b>10.4052</b>	<b>15.7483</b>	<b>0.0568</b>	<b>3.8781</b>	<b>0.0883</b>	<b>3.9664</b>	<b>1.0404</b>	<b>0.0835</b>	<b>1.1239</b>		<b>5,807.9687</b>	<b>5,807.9687</b>	<b>0.2607</b>		<b>5,814.4855</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2721	15.9802	13.4870	0.0220		0.9158	0.9158		0.8846	0.8846	0.0000	2,018.0224	2,018.0224	0.3879		2,027.7210
<b>Total</b>	<b>2.2721</b>	<b>15.9802</b>	<b>13.4870</b>	<b>0.0220</b>		<b>0.9158</b>	<b>0.9158</b>		<b>0.8846</b>	<b>0.8846</b>	<b>0.0000</b>	<b>2,018.0224</b>	<b>2,018.0224</b>	<b>0.3879</b>		<b>2,027.7210</b>

Broadway Blocks - South Coast AQMD Air District, Summer

**3.5 Building Construction - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3161	9.3828	2.2682	0.0213	0.5248	0.0622	0.5870	0.1511	0.0595	0.2105		2,265.0016	2,265.0016	0.1499		2,268.7483
Worker	1.4692	1.0224	13.4801	0.0356	3.3533	0.0261	3.3794	0.8893	0.0240	0.9134		3,542.9671	3,542.9671	0.1108		3,545.7373
<b>Total</b>	<b>1.7854</b>	<b>10.4052</b>	<b>15.7483</b>	<b>0.0568</b>	<b>3.8781</b>	<b>0.0883</b>	<b>3.9664</b>	<b>1.0404</b>	<b>0.0835</b>	<b>1.1239</b>		<b>5,807.9687</b>	<b>5,807.9687</b>	<b>0.2607</b>		<b>5,814.4855</b>

**3.5 Building Construction - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0305	14.7882	13.1881	0.0220		0.7960	0.7960		0.7688	0.7688		2,001.1595	2,001.1595	0.3715		2,010.4467
<b>Total</b>	<b>2.0305</b>	<b>14.7882</b>	<b>13.1881</b>	<b>0.0220</b>		<b>0.7960</b>	<b>0.7960</b>		<b>0.7688</b>	<b>0.7688</b>		<b>2,001.1595</b>	<b>2,001.1595</b>	<b>0.3715</b>		<b>2,010.4467</b>

Broadway Blocks - South Coast AQMD Air District, Summer

**3.5 Building Construction - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2693	8.6047	2.0490	0.0211	0.5248	0.0426	0.5674	0.1511	0.0408	0.1919		2,250.477 3	2,250.477 3	0.1413		2,254.009 7
Worker	1.3573	0.9124	12.2645	0.0345	3.3533	0.0254	3.3787	0.8893	0.0234	0.9127		3,433.252 4	3,433.252 4	0.0987		3,435.720 1
<b>Total</b>	<b>1.6266</b>	<b>9.5171</b>	<b>14.3135</b>	<b>0.0556</b>	<b>3.8781</b>	<b>0.0681</b>	<b>3.9462</b>	<b>1.0404</b>	<b>0.0642</b>	<b>1.1046</b>		<b>5,683.729 7</b>	<b>5,683.729 7</b>	<b>0.2400</b>		<b>5,689.729 8</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0305	14.7882	13.1881	0.0220		0.7960	0.7960		0.7688	0.7688	0.0000	2,001.159 5	2,001.159 5	0.3715		2,010.446 7
<b>Total</b>	<b>2.0305</b>	<b>14.7882</b>	<b>13.1881</b>	<b>0.0220</b>		<b>0.7960</b>	<b>0.7960</b>		<b>0.7688</b>	<b>0.7688</b>	<b>0.0000</b>	<b>2,001.159 5</b>	<b>2,001.159 5</b>	<b>0.3715</b>		<b>2,010.446 7</b>

Broadway Blocks - South Coast AQMD Air District, Summer

**3.5 Building Construction - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2693	8.6047	2.0490	0.0211	0.5248	0.0426	0.5674	0.1511	0.0408	0.1919		2,250.477 3	2,250.477 3	0.1413		2,254.009 7
Worker	1.3573	0.9124	12.2645	0.0345	3.3533	0.0254	3.3787	0.8893	0.0234	0.9127		3,433.252 4	3,433.252 4	0.0987		3,435.720 1
<b>Total</b>	<b>1.6266</b>	<b>9.5171</b>	<b>14.3135</b>	<b>0.0556</b>	<b>3.8781</b>	<b>0.0681</b>	<b>3.9462</b>	<b>1.0404</b>	<b>0.0642</b>	<b>1.1046</b>		<b>5,683.729 7</b>	<b>5,683.729 7</b>	<b>0.2400</b>		<b>5,689.729 8</b>

**3.5 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.220 0	2,001.220 0	0.3573		2,010.151 7
<b>Total</b>	<b>1.8125</b>	<b>13.6361</b>	<b>12.8994</b>	<b>0.0221</b>		<b>0.6843</b>	<b>0.6843</b>		<b>0.6608</b>	<b>0.6608</b>		<b>2,001.220 0</b>	<b>2,001.220 0</b>	<b>0.3573</b>		<b>2,010.151 7</b>

Broadway Blocks - South Coast AQMD Air District, Summer

**3.5 Building Construction - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2282	7.8208	1.8559	0.0209	0.5248	0.0158	0.5406	0.1511	0.0151	0.1662		2,233.9954	2,233.9954	0.1351		2,237.3739
Worker	1.2664	0.8213	11.3017	0.0333	3.3533	0.0247	3.3780	0.8893	0.0227	0.9120		3,322.2099	3,322.2099	0.0893		3,324.4434
<b>Total</b>	<b>1.4945</b>	<b>8.6421</b>	<b>13.1576</b>	<b>0.0543</b>	<b>3.8781</b>	<b>0.0404</b>	<b>3.9185</b>	<b>1.0404</b>	<b>0.0378</b>	<b>1.0782</b>		<b>5,556.2054</b>	<b>5,556.2054</b>	<b>0.2245</b>		<b>5,561.8173</b>

**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	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608	0.0000	2,001.2200	2,001.2200	0.3573		2,010.1517
<b>Total</b>	<b>1.8125</b>	<b>13.6361</b>	<b>12.8994</b>	<b>0.0221</b>		<b>0.6843</b>	<b>0.6843</b>		<b>0.6608</b>	<b>0.6608</b>	<b>0.0000</b>	<b>2,001.2200</b>	<b>2,001.2200</b>	<b>0.3573</b>		<b>2,010.1517</b>

Broadway Blocks - South Coast AQMD Air District, Summer

**3.5 Building Construction - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2282	7.8208	1.8559	0.0209	0.5248	0.0158	0.5406	0.1511	0.0151	0.1662		2,233.9954	2,233.9954	0.1351		2,237.3739
Worker	1.2664	0.8213	11.3017	0.0333	3.3533	0.0247	3.3780	0.8893	0.0227	0.9120		3,322.2099	3,322.2099	0.0893		3,324.4434
<b>Total</b>	<b>1.4945</b>	<b>8.6421</b>	<b>13.1576</b>	<b>0.0543</b>	<b>3.8781</b>	<b>0.0404</b>	<b>3.9185</b>	<b>1.0404</b>	<b>0.0378</b>	<b>1.0782</b>		<b>5,556.2054</b>	<b>5,556.2054</b>	<b>0.2245</b>		<b>5,561.8173</b>

**3.6 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	0.7739	7.7422	8.8569	0.0135		0.4153	0.4153		0.3830	0.3830		1,296.8664	1,296.8664	0.4111		1,307.1442
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.7739</b>	<b>7.7422</b>	<b>8.8569</b>	<b>0.0135</b>		<b>0.4153</b>	<b>0.4153</b>		<b>0.3830</b>	<b>0.3830</b>		<b>1,296.8664</b>	<b>1,296.8664</b>	<b>0.4111</b>		<b>1,307.1442</b>

Broadway Blocks - South Coast AQMD Air District, Summer

**3.6 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0844	0.0548	0.7535	2.2200e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		221.4807	221.4807	5.9600e-003		221.6296
<b>Total</b>	<b>0.0844</b>	<b>0.0548</b>	<b>0.7535</b>	<b>2.2200e-003</b>	<b>0.2236</b>	<b>1.6500e-003</b>	<b>0.2252</b>	<b>0.0593</b>	<b>1.5200e-003</b>	<b>0.0608</b>		<b>221.4807</b>	<b>221.4807</b>	<b>5.9600e-003</b>		<b>221.6296</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7739	7.7422	8.8569	0.0135		0.4153	0.4153		0.3830	0.3830	0.0000	1,296.8664	1,296.8664	0.4111		1,307.1442
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.7739</b>	<b>7.7422</b>	<b>8.8569</b>	<b>0.0135</b>		<b>0.4153</b>	<b>0.4153</b>		<b>0.3830</b>	<b>0.3830</b>	<b>0.0000</b>	<b>1,296.8664</b>	<b>1,296.8664</b>	<b>0.4111</b>		<b>1,307.1442</b>

Broadway Blocks - South Coast AQMD Air District, Summer

**3.6 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0844	0.0548	0.7535	2.2200e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		221.4807	221.4807	5.9600e-003		221.6296
<b>Total</b>	<b>0.0844</b>	<b>0.0548</b>	<b>0.7535</b>	<b>2.2200e-003</b>	<b>0.2236</b>	<b>1.6500e-003</b>	<b>0.2252</b>	<b>0.0593</b>	<b>1.5200e-003</b>	<b>0.0608</b>		<b>221.4807</b>	<b>221.4807</b>	<b>5.9600e-003</b>		<b>221.6296</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**



Broadway Blocks - South Coast AQMD Air District, 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	6.2876	30.0858	71.7647	0.2500	19.4642	0.1969	19.6611	5.2080	0.1838	5.3918		25,443.6278	25,443.6278	1.2754		25,475.5115
Unmitigated	6.2876	30.0858	71.7647	0.2500	19.4642	0.1969	19.6611	5.2080	0.1838	5.3918		25,443.6278	25,443.6278	1.2754		25,475.5115

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse High Rise	1,448.00	1,492.00	1188.00	4,842,592	4,842,592
Enclosed Parking with Elevator	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	1,082.98	1,348.90	1122.91	1,535,460	1,535,460
Regional Shopping Center	875.95	1,025.19	517.82	1,829,991	1,829,991
<b>Total</b>	<b>3,406.92</b>	<b>3,866.08</b>	<b>2,828.73</b>	<b>8,208,043</b>	<b>8,208,043</b>

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
Condo/Townhouse High Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
High Turnover (Sit Down)	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Broadway Blocks - South Coast AQMD Air District, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse High Rise	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Enclosed Parking with Elevator	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
High Turnover (Sit Down Restaurant)	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Regional Shopping Center	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925

**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	0.2249	1.9582	1.0841	0.0123		0.1554	0.1554		0.1554	0.1554		2,453.4499	2,453.4499	0.0470	0.0450	2,468.0296
NaturalGas Unmitigated	0.2249	1.9582	1.0841	0.0123		0.1554	0.1554		0.1554	0.1554		2,453.4499	2,453.4499	0.0470	0.0450	2,468.0296

Broadway Blocks - South Coast AQMD Air District, Summer

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse High Rise	14680.7	0.1583	1.3529	0.5757	8.6400e-003		0.1094	0.1094		0.1094	0.1094		1,727.1452	1,727.1452	0.0331	0.0317	1,737.4088
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	6069.3	0.0655	0.5950	0.4998	3.5700e-003		0.0452	0.0452		0.0452	0.0452		714.0358	714.0358	0.0137	0.0131	718.2789
Regional Shopping Center	104.286	1.1200e-003	0.0102	8.5900e-003	6.0000e-005		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004		12.2689	12.2689	2.4000e-004	2.2000e-004	12.3419
<b>Total</b>		<b>0.2249</b>	<b>1.9582</b>	<b>1.0841</b>	<b>0.0123</b>		<b>0.1554</b>	<b>0.1554</b>		<b>0.1554</b>	<b>0.1554</b>		<b>2,453.4499</b>	<b>2,453.4499</b>	<b>0.0470</b>	<b>0.0450</b>	<b>2,468.0296</b>

Broadway Blocks - South Coast AQMD Air District, Summer

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse High Rise	14.6807	0.1583	1.3529	0.5757	8.6400e-003		0.1094	0.1094		0.1094	0.1094		1,727.1452	1,727.1452	0.0331	0.0317	1,737.4088
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	6.0693	0.0655	0.5950	0.4998	3.5700e-003		0.0452	0.0452		0.0452	0.0452		714.0358	714.0358	0.0137	0.0131	718.2789
Regional Shopping Center	0.104286	1.1200e-003	0.0102	8.5900e-003	6.0000e-005		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004		12.2689	12.2689	2.4000e-004	2.2000e-004	12.3419
<b>Total</b>		<b>0.2249</b>	<b>1.9582</b>	<b>1.0841</b>	<b>0.0123</b>		<b>0.1554</b>	<b>0.1554</b>		<b>0.1554</b>	<b>0.1554</b>		<b>2,453.4499</b>	<b>2,453.4499</b>	<b>0.0470</b>	<b>0.0450</b>	<b>2,468.0296</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Broadway Blocks - South Coast AQMD Air District, 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	10.9823	0.3820	33.0967	1.7400e-003		0.1824	0.1824		0.1824	0.1824	0.0000	59.4732	59.4732	0.0577	0.0000	60.9162
Unmitigated	10.9823	0.3820	33.0967	1.7400e-003		0.1824	0.1824		0.1824	0.1824	0.0000	59.4732	59.4732	0.0577	0.0000	60.9162

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	0.8286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.1494					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0043	0.3820	33.0967	1.7400e-003		0.1824	0.1824		0.1824	0.1824		59.4732	59.4732	0.0577		60.9162
<b>Total</b>	<b>10.9823</b>	<b>0.3820</b>	<b>33.0967</b>	<b>1.7400e-003</b>		<b>0.1824</b>	<b>0.1824</b>		<b>0.1824</b>	<b>0.1824</b>	<b>0.0000</b>	<b>59.4732</b>	<b>59.4732</b>	<b>0.0577</b>	<b>0.0000</b>	<b>60.9162</b>

Broadway Blocks - South Coast AQMD Air District, 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	0.8286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.1494					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0043	0.3820	33.0967	1.7400e-003		0.1824	0.1824		0.1824	0.1824		59.4732	59.4732	0.0577		60.9162
<b>Total</b>	<b>10.9823</b>	<b>0.3820</b>	<b>33.0967</b>	<b>1.7400e-003</b>		<b>0.1824</b>	<b>0.1824</b>		<b>0.1824</b>	<b>0.1824</b>	<b>0.0000</b>	<b>59.4732</b>	<b>59.4732</b>	<b>0.0577</b>	<b>0.0000</b>	<b>60.9162</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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Broadway Blocks - South Coast AQMD Air District, Summer

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Broadway Blocks - South Coast AQMD Air District, Winter

**Broadway Blocks**  
**South Coast AQMD Air District, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	205.90	1000sqft	0.00	205,898.00	0
High Turnover (Sit Down Restaurant)	9.60	1000sqft	0.22	9,600.00	0
Condo/Townhouse High Rise	400.00	Dwelling Unit	1.35	425,596.00	1144
Regional Shopping Center	23.21	1000sqft	0.00	23,210.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	9			<b>Operational Year</b>	2021
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	529.11	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

**1.3 User Entered Comments & Non-Default Data**



Broadway Blocks - South Coast AQMD Air District, Winter

Project Characteristics - CO2 intensity factor for 2016 (factors includes both CH4 and N2O emissions as CO2e)

Land Use - Lot acreage for residential equal to total lot acreage minus acreage for 'Acres of Books'.

Construction Phase - Based on anticipated project-specific construction schedule.

Trips and VMT - Number of worker trips equal to estimated maximum worker trips per day.

Demolition - Demoliton weight from construction estimates.

Grading - Total acres graded equal to total construction disturbed area.

Woodstoves - No woodstoves or fireplaces.

Energy Use -

Construction Off-road Equipment Mitigation -

Energy Mitigation -

Vehicle Trips - Trip rates based on project-specific traffic report.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	27.00
tblConstructionPhase	NumDays	4.00	155.00
tblConstructionPhase	NumDays	200.00	79.00
tblConstructionPhase	NumDays	200.00	704.00
tblConstructionPhase	NumDays	10.00	105.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	1/28/2019	1/31/2019
tblConstructionPhase	PhaseEndDate	2/1/2019	6/29/2019
tblConstructionPhase	PhaseEndDate	11/8/2019	5/31/2019

## Broadway Blocks - South Coast AQMD Air District, Winter

tblConstructionPhase	PhaseEndDate	8/14/2020	6/29/2021
tblConstructionPhase	PhaseEndDate	8/28/2020	6/30/2021
tblConstructionPhase	PhaseStartDate	1/29/2019	1/1/2019
tblConstructionPhase	PhaseStartDate	2/2/2019	3/1/2019
tblConstructionPhase	PhaseStartDate	11/9/2019	4/1/2019
tblConstructionPhase	PhaseStartDate	8/15/2020	3/1/2021
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	340.00	0.00
tblFireplaces	NumberNoFireplace	40.00	0.00
tblFireplaces	NumberWood	20.00	0.00
tblGrading	AcresOfGrading	48.38	1.70
tblGrading	MaterialExported	0.00	76,523.00
tblLandUse	LandUseSquareFeet	205,900.00	205,898.00
tblLandUse	LandUseSquareFeet	400,000.00	425,596.00
tblLandUse	LotAcreage	4.73	0.00
tblLandUse	LotAcreage	6.25	1.35
tblLandUse	LotAcreage	0.53	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	529.11
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblTripsAndVMT	WorkerTripNumber	13.00	20.00
tblTripsAndVMT	WorkerTripNumber	8.00	50.00
tblTripsAndVMT	WorkerTripNumber	386.00	80.00
tblTripsAndVMT	WorkerTripNumber	386.00	300.00
tblTripsAndVMT	WorkerTripNumber	13.00	20.00

## Broadway Blocks - South Coast AQMD Air District, Winter

tblVehicleTrips	ST_TR	4.31	3.73
tblVehicleTrips	ST_TR	158.37	140.51
tblVehicleTrips	ST_TR	49.97	44.17
tblVehicleTrips	SU_TR	3.43	2.97
tblVehicleTrips	SU_TR	131.84	116.97
tblVehicleTrips	SU_TR	25.24	22.31
tblVehicleTrips	WD_TR	4.18	3.62
tblVehicleTrips	WD_TR	127.15	112.81
tblVehicleTrips	WD_TR	42.70	37.74
tblWoodstoves	NumberCatalytic	20.00	0.00
tblWoodstoves	NumberNoncatalytic	20.00	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

## 2.0 Emissions Summary

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Broadway Blocks - South Coast AQMD Air District, Winter

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	9.4393	86.5869	59.7845	0.1947	10.7608	2.7997	13.5605	3.9483	2.6669	6.6152	0.0000	19,713.69 31	19,713.69 31	2.0608	0.0000	19,765.21 34
2020	3.7930	24.3830	26.5151	0.0748	3.8781	0.8647	4.7428	1.0404	0.8337	1.8741	0.0000	7,397.659 4	7,397.659 4	0.6153	0.0000	7,413.042 6
2021	4.3024	30.1333	34.6663	0.0892	4.1017	1.1422	5.2439	1.0997	1.0835	2.1832	0.0000	8,781.535 2	8,781.535 2	1.0023	0.0000	8,806.593 8
<b>Maximum</b>	<b>9.4393</b>	<b>86.5869</b>	<b>59.7845</b>	<b>0.1947</b>	<b>10.7608</b>	<b>2.7997</b>	<b>13.5605</b>	<b>3.9483</b>	<b>2.6669</b>	<b>6.6152</b>	<b>0.0000</b>	<b>19,713.69 31</b>	<b>19,713.69 31</b>	<b>2.0608</b>	<b>0.0000</b>	<b>19,765.21 34</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	9.4393	86.5869	59.7845	0.1947	8.4267	2.7997	11.2264	2.6820	2.6669	5.3489	0.0000	19,713.69 31	19,713.69 31	2.0608	0.0000	19,765.21 34
2020	3.7930	24.3830	26.5151	0.0748	3.8781	0.8647	4.7428	1.0404	0.8337	1.8741	0.0000	7,397.659 4	7,397.659 4	0.6153	0.0000	7,413.042 6
2021	4.3024	30.1333	34.6663	0.0892	4.1017	1.1422	5.2439	1.0997	1.0835	2.1832	0.0000	8,781.535 2	8,781.535 2	1.0023	0.0000	8,806.593 8
<b>Maximum</b>	<b>9.4393</b>	<b>86.5869</b>	<b>59.7845</b>	<b>0.1947</b>	<b>8.4267</b>	<b>2.7997</b>	<b>11.2264</b>	<b>2.6820</b>	<b>2.6669</b>	<b>5.3489</b>	<b>0.0000</b>	<b>19,713.69 31</b>	<b>19,713.69 31</b>	<b>2.0608</b>	<b>0.0000</b>	<b>19,765.21 34</b>

## Broadway Blocks - South Coast AQMD Air District, 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	12.45	0.00	9.91	20.80	0.00	11.87	0.00	0.00	0.00	0.00	0.00	0.00

Broadway Blocks - South Coast AQMD Air District, 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	10.9823	0.3820	33.0967	1.7400e-003		0.1824	0.1824		0.1824	0.1824	0.0000	59.4732	59.4732	0.0577	0.0000	60.9162
Energy	0.2249	1.9582	1.0841	0.0123		0.1554	0.1554		0.1554	0.1554		2,453.4499	2,453.4499	0.0470	0.0450	2,468.0296
Mobile	5.9647	30.5049	68.2543	0.2364	19.4642	0.1985	19.6627	5.2080	0.1853	5.3933		24,065.7084	24,065.7084	1.2855		24,097.8458
<b>Total</b>	<b>17.1719</b>	<b>32.8450</b>	<b>102.4351</b>	<b>0.2504</b>	<b>19.4642</b>	<b>0.5362</b>	<b>20.0004</b>	<b>5.2080</b>	<b>0.5231</b>	<b>5.7311</b>	<b>0.0000</b>	<b>26,578.6315</b>	<b>26,578.6315</b>	<b>1.3902</b>	<b>0.0450</b>	<b>26,626.7916</b>

**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	10.9823	0.3820	33.0967	1.7400e-003		0.1824	0.1824		0.1824	0.1824	0.0000	59.4732	59.4732	0.0577	0.0000	60.9162
Energy	0.2249	1.9582	1.0841	0.0123		0.1554	0.1554		0.1554	0.1554		2,453.4499	2,453.4499	0.0470	0.0450	2,468.0296
Mobile	5.9647	30.5049	68.2543	0.2364	19.4642	0.1985	19.6627	5.2080	0.1853	5.3933		24,065.7084	24,065.7084	1.2855		24,097.8458
<b>Total</b>	<b>17.1719</b>	<b>32.8450</b>	<b>102.4351</b>	<b>0.2504</b>	<b>19.4642</b>	<b>0.5362</b>	<b>20.0004</b>	<b>5.2080</b>	<b>0.5231</b>	<b>5.7311</b>	<b>0.0000</b>	<b>26,578.6315</b>	<b>26,578.6315</b>	<b>1.3902</b>	<b>0.0450</b>	<b>26,626.7916</b>

Broadway Blocks - South Coast AQMD Air District, 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	Demolition	Demolition	1/1/2019	1/31/2019	6	27	
2	Grading	Grading	1/1/2019	6/29/2019	6	155	
3	Foundation/Concrete Pour	Building Construction	3/1/2019	5/31/2019	6	79	
4	Building Construction	Building Construction	4/1/2019	6/29/2021	6	704	
5	Paving	Paving	3/1/2021	6/30/2021	6	105	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1.7

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

## Broadway Blocks - South Coast AQMD Air District, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Foundation/Concrete Pour	Cranes	1	6.00	231	0.29
Foundation/Concrete Pour	Forklifts	1	6.00	89	0.20
Foundation/Concrete Pour	Generator Sets	1	8.00	84	0.74
Foundation/Concrete Pour	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Foundation/Concrete Pour	Welders	3	8.00	46	0.45
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT



Broadway Blocks - South Coast AQMD Air District, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	20.00	0.00	544.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	50.00	0.00	9,565.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Foundation/Concrete Pour	7	80.00	82.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	300.00	82.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

**3.2 Demolition - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.3591	0.0000	4.3591	0.6600	0.0000	0.6600			0.0000			0.0000
Off-Road	2.2950	22.6751	14.8943	0.0241		1.2863	1.2863		1.2017	1.2017		2,360.7198	2,360.7198	0.6011		2,375.7475
<b>Total</b>	<b>2.2950</b>	<b>22.6751</b>	<b>14.8943</b>	<b>0.0241</b>	<b>4.3591</b>	<b>1.2863</b>	<b>5.6454</b>	<b>0.6600</b>	<b>1.2017</b>	<b>1.8617</b>		<b>2,360.7198</b>	<b>2,360.7198</b>	<b>0.6011</b>		<b>2,375.7475</b>

Broadway Blocks - South Coast AQMD Air District, Winter

**3.2 Demolition - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1704	5.9446	1.2147	0.0155	0.3521	0.0222	0.3743	0.0965	0.0212	0.1177		1,675.2177	1,675.2177	0.1217		1,678.2593
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1067	0.0747	0.8108	2.2200e-003	0.2236	1.7400e-003	0.2253	0.0593	1.6000e-003	0.0609		220.9312	220.9312	6.9000e-003		221.1037
<b>Total</b>	<b>0.2771</b>	<b>6.0192</b>	<b>2.0255</b>	<b>0.0177</b>	<b>0.5756</b>	<b>0.0239</b>	<b>0.5995</b>	<b>0.1558</b>	<b>0.0228</b>	<b>0.1786</b>		<b>1,896.1489</b>	<b>1,896.1489</b>	<b>0.1286</b>		<b>1,899.3630</b>

**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					1.7000	0.0000	1.7000	0.2574	0.0000	0.2574			0.0000			0.0000
Off-Road	2.2950	22.6751	14.8943	0.0241		1.2863	1.2863		1.2017	1.2017	0.0000	2,360.7197	2,360.7197	0.6011		2,375.7475
<b>Total</b>	<b>2.2950</b>	<b>22.6751</b>	<b>14.8943</b>	<b>0.0241</b>	<b>1.7000</b>	<b>1.2863</b>	<b>2.9863</b>	<b>0.2574</b>	<b>1.2017</b>	<b>1.4591</b>	<b>0.0000</b>	<b>2,360.7197</b>	<b>2,360.7197</b>	<b>0.6011</b>		<b>2,375.7475</b>

Broadway Blocks - South Coast AQMD Air District, Winter

**3.2 Demolition - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1704	5.9446	1.2147	0.0155	0.3521	0.0222	0.3743	0.0965	0.0212	0.1177		1,675.2177	1,675.2177	0.1217		1,678.2593
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1067	0.0747	0.8108	2.2200e-003	0.2236	1.7400e-003	0.2253	0.0593	1.6000e-003	0.0609		220.9312	220.9312	6.9000e-003		221.1037
<b>Total</b>	<b>0.2771</b>	<b>6.0192</b>	<b>2.0255</b>	<b>0.0177</b>	<b>0.5756</b>	<b>0.0239</b>	<b>0.5995</b>	<b>0.1558</b>	<b>0.0228</b>	<b>0.1786</b>		<b>1,896.1489</b>	<b>1,896.1489</b>	<b>0.1286</b>		<b>1,899.3630</b>

**3.3 Grading - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.8264	0.0000	3.8264	2.0759	0.0000	2.0759			0.0000			0.0000
Off-Road	1.4197	16.0357	6.6065	0.0141		0.7365	0.7365		0.6775	0.6775		1,396.3909	1,396.3909	0.4418		1,407.4359
<b>Total</b>	<b>1.4197</b>	<b>16.0357</b>	<b>6.6065</b>	<b>0.0141</b>	<b>3.8264</b>	<b>0.7365</b>	<b>4.5629</b>	<b>2.0759</b>	<b>0.6775</b>	<b>2.7535</b>		<b>1,396.3909</b>	<b>1,396.3909</b>	<b>0.4418</b>		<b>1,407.4359</b>

Broadway Blocks - South Coast AQMD Air District, Winter

**3.3 Grading - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.5220	18.2070	3.7203	0.0475	1.0784	0.0679	1.1463	0.2955	0.0650	0.3605		5,130.8509	5,130.8509	0.3726		5,140.1666
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2666	0.1866	2.0269	5.5500e-003	0.5589	4.3500e-003	0.5632	0.1482	4.0100e-003	0.1522		552.3279	552.3279	0.0173		552.7593
<b>Total</b>	<b>0.7886</b>	<b>18.3936</b>	<b>5.7472</b>	<b>0.0531</b>	<b>1.6372</b>	<b>0.0723</b>	<b>1.7095</b>	<b>0.4437</b>	<b>0.0690</b>	<b>0.5127</b>		<b>5,683.1788</b>	<b>5,683.1788</b>	<b>0.3899</b>		<b>5,692.9258</b>

**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					1.4923	0.0000	1.4923	0.8096	0.0000	0.8096			0.0000			0.0000
Off-Road	1.4197	16.0357	6.6065	0.0141		0.7365	0.7365		0.6775	0.6775	0.0000	1,396.3909	1,396.3909	0.4418		1,407.4359
<b>Total</b>	<b>1.4197</b>	<b>16.0357</b>	<b>6.6065</b>	<b>0.0141</b>	<b>1.4923</b>	<b>0.7365</b>	<b>2.2288</b>	<b>0.8096</b>	<b>0.6775</b>	<b>1.4872</b>	<b>0.0000</b>	<b>1,396.3909</b>	<b>1,396.3909</b>	<b>0.4418</b>		<b>1,407.4359</b>

Broadway Blocks - South Coast AQMD Air District, Winter

**3.3 Grading - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.5220	18.2070	3.7203	0.0475	1.0784	0.0679	1.1463	0.2955	0.0650	0.3605		5,130.8509	5,130.8509	0.3726		5,140.1666
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2666	0.1866	2.0269	5.5500e-003	0.5589	4.3500e-003	0.5632	0.1482	4.0100e-003	0.1522		552.3279	552.3279	0.0173		552.7593
<b>Total</b>	<b>0.7886</b>	<b>18.3936</b>	<b>5.7472</b>	<b>0.0531</b>	<b>1.6372</b>	<b>0.0723</b>	<b>1.7095</b>	<b>0.4437</b>	<b>0.0690</b>	<b>0.5127</b>		<b>5,683.1788</b>	<b>5,683.1788</b>	<b>0.3899</b>		<b>5,692.9258</b>

**3.4 Foundation/Concrete Pour - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2721	15.9802	13.4870	0.0220		0.9158	0.9158		0.8846	0.8846		2,018.0224	2,018.0224	0.3879		2,027.7210
<b>Total</b>	<b>2.2721</b>	<b>15.9802</b>	<b>13.4870</b>	<b>0.0220</b>		<b>0.9158</b>	<b>0.9158</b>		<b>0.8846</b>	<b>0.8846</b>		<b>2,018.0224</b>	<b>2,018.0224</b>	<b>0.3879</b>		<b>2,027.7210</b>

Broadway Blocks - South Coast AQMD Air District, Winter

**3.4 Foundation/Concrete Pour - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3303	9.3894	2.5261	0.0207	0.5248	0.0631	0.5880	0.1511	0.0604	0.2115		2,200.1934	2,200.1934	0.1610		2,204.2195
Worker	0.4266	0.2986	3.2431	8.8700e-003	0.8942	6.9600e-003	0.9012	0.2372	6.4100e-003	0.2436		883.7246	883.7246	0.0276		884.4149
<b>Total</b>	<b>0.7568</b>	<b>9.6880</b>	<b>5.7692</b>	<b>0.0295</b>	<b>1.4190</b>	<b>0.0701</b>	<b>1.4891</b>	<b>0.3882</b>	<b>0.0668</b>	<b>0.4550</b>		<b>3,083.9180</b>	<b>3,083.9180</b>	<b>0.1887</b>		<b>3,088.6344</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2721	15.9802	13.4870	0.0220		0.9158	0.9158		0.8846	0.8846	0.0000	2,018.0224	2,018.0224	0.3879		2,027.7210
<b>Total</b>	<b>2.2721</b>	<b>15.9802</b>	<b>13.4870</b>	<b>0.0220</b>		<b>0.9158</b>	<b>0.9158</b>		<b>0.8846</b>	<b>0.8846</b>	<b>0.0000</b>	<b>2,018.0224</b>	<b>2,018.0224</b>	<b>0.3879</b>		<b>2,027.7210</b>

Broadway Blocks - South Coast AQMD Air District, Winter

**3.4 Foundation/Concrete Pour - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3303	9.3894	2.5261	0.0207	0.5248	0.0631	0.5880	0.1511	0.0604	0.2115		2,200.1934	2,200.1934	0.1610		2,204.2195
Worker	0.4266	0.2986	3.2431	8.8700e-003	0.8942	6.9600e-003	0.9012	0.2372	6.4100e-003	0.2436		883.7246	883.7246	0.0276		884.4149
<b>Total</b>	<b>0.7568</b>	<b>9.6880</b>	<b>5.7692</b>	<b>0.0295</b>	<b>1.4190</b>	<b>0.0701</b>	<b>1.4891</b>	<b>0.3882</b>	<b>0.0668</b>	<b>0.4550</b>		<b>3,083.9180</b>	<b>3,083.9180</b>	<b>0.1887</b>		<b>3,088.6344</b>

**3.5 Building Construction - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2721	15.9802	13.4870	0.0220		0.9158	0.9158		0.8846	0.8846		2,018.0224	2,018.0224	0.3879		2,027.7210
<b>Total</b>	<b>2.2721</b>	<b>15.9802</b>	<b>13.4870</b>	<b>0.0220</b>		<b>0.9158</b>	<b>0.9158</b>		<b>0.8846</b>	<b>0.8846</b>		<b>2,018.0224</b>	<b>2,018.0224</b>	<b>0.3879</b>		<b>2,027.7210</b>

Broadway Blocks - South Coast AQMD Air District, Winter

**3.5 Building Construction - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3303	9.3894	2.5261	0.0207	0.5248	0.0631	0.5880	0.1511	0.0604	0.2115		2,200.1934	2,200.1934	0.1610		2,204.2195
Worker	1.5997	1.1199	12.1615	0.0333	3.3533	0.0261	3.3794	0.8893	0.0240	0.9134		3,313.9672	3,313.9672	0.1035		3,316.5557
<b>Total</b>	<b>1.9299</b>	<b>10.5092</b>	<b>14.6876</b>	<b>0.0539</b>	<b>3.8781</b>	<b>0.0892</b>	<b>3.9673</b>	<b>1.0404</b>	<b>0.0844</b>	<b>1.1248</b>		<b>5,514.1606</b>	<b>5,514.1606</b>	<b>0.2646</b>		<b>5,520.7752</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2721	15.9802	13.4870	0.0220		0.9158	0.9158		0.8846	0.8846	0.0000	2,018.0224	2,018.0224	0.3879		2,027.7210
<b>Total</b>	<b>2.2721</b>	<b>15.9802</b>	<b>13.4870</b>	<b>0.0220</b>		<b>0.9158</b>	<b>0.9158</b>		<b>0.8846</b>	<b>0.8846</b>	<b>0.0000</b>	<b>2,018.0224</b>	<b>2,018.0224</b>	<b>0.3879</b>		<b>2,027.7210</b>



Broadway Blocks - South Coast AQMD Air District, Winter

**3.5 Building Construction - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3303	9.3894	2.5261	0.0207	0.5248	0.0631	0.5880	0.1511	0.0604	0.2115		2,200.1934	2,200.1934	0.1610		2,204.2195
Worker	1.5997	1.1199	12.1615	0.0333	3.3533	0.0261	3.3794	0.8893	0.0240	0.9134		3,313.9672	3,313.9672	0.1035		3,316.5557
<b>Total</b>	<b>1.9299</b>	<b>10.5092</b>	<b>14.6876</b>	<b>0.0539</b>	<b>3.8781</b>	<b>0.0892</b>	<b>3.9673</b>	<b>1.0404</b>	<b>0.0844</b>	<b>1.1248</b>		<b>5,514.1606</b>	<b>5,514.1606</b>	<b>0.2646</b>		<b>5,520.7752</b>

**3.5 Building Construction - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0305	14.7882	13.1881	0.0220		0.7960	0.7960		0.7688	0.7688		2,001.1595	2,001.1595	0.3715		2,010.4467
<b>Total</b>	<b>2.0305</b>	<b>14.7882</b>	<b>13.1881</b>	<b>0.0220</b>		<b>0.7960</b>	<b>0.7960</b>		<b>0.7688</b>	<b>0.7688</b>		<b>2,001.1595</b>	<b>2,001.1595</b>	<b>0.3715</b>		<b>2,010.4467</b>

Broadway Blocks - South Coast AQMD Air District, Winter

**3.5 Building Construction - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2821	8.5958	2.2844	0.0205	0.5248	0.0433	0.5681	0.1511	0.0414	0.1925		2,185.4050	2,185.4050	0.1518		2,189.1988
Worker	1.4804	0.9990	11.0426	0.0322	3.3533	0.0254	3.3787	0.8893	0.0234	0.9127		3,211.0949	3,211.0949	0.0921		3,213.3971
<b>Total</b>	<b>1.7625</b>	<b>9.5948</b>	<b>13.3270</b>	<b>0.0527</b>	<b>3.8781</b>	<b>0.0687</b>	<b>3.9468</b>	<b>1.0404</b>	<b>0.0648</b>	<b>1.1052</b>		<b>5,396.4999</b>	<b>5,396.4999</b>	<b>0.2438</b>		<b>5,402.5959</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0305	14.7882	13.1881	0.0220		0.7960	0.7960		0.7688	0.7688	0.0000	2,001.1595	2,001.1595	0.3715		2,010.4467
<b>Total</b>	<b>2.0305</b>	<b>14.7882</b>	<b>13.1881</b>	<b>0.0220</b>		<b>0.7960</b>	<b>0.7960</b>		<b>0.7688</b>	<b>0.7688</b>	<b>0.0000</b>	<b>2,001.1595</b>	<b>2,001.1595</b>	<b>0.3715</b>		<b>2,010.4467</b>

Broadway Blocks - South Coast AQMD Air District, Winter

**3.5 Building Construction - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2821	8.5958	2.2844	0.0205	0.5248	0.0433	0.5681	0.1511	0.0414	0.1925		2,185.4050	2,185.4050	0.1518		2,189.1988
Worker	1.4804	0.9990	11.0426	0.0322	3.3533	0.0254	3.3787	0.8893	0.0234	0.9127		3,211.0949	3,211.0949	0.0921		3,213.3971
<b>Total</b>	<b>1.7625</b>	<b>9.5948</b>	<b>13.3270</b>	<b>0.0527</b>	<b>3.8781</b>	<b>0.0687</b>	<b>3.9468</b>	<b>1.0404</b>	<b>0.0648</b>	<b>1.1052</b>		<b>5,396.4999</b>	<b>5,396.4999</b>	<b>0.2438</b>		<b>5,402.5959</b>

**3.5 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.2200	2,001.2200	0.3573		2,010.1517
<b>Total</b>	<b>1.8125</b>	<b>13.6361</b>	<b>12.8994</b>	<b>0.0221</b>		<b>0.6843</b>	<b>0.6843</b>		<b>0.6608</b>	<b>0.6608</b>		<b>2,001.2200</b>	<b>2,001.2200</b>	<b>0.3573</b>		<b>2,010.1517</b>

Broadway Blocks - South Coast AQMD Air District, Winter

**3.5 Building Construction - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.2402	7.7960	2.0768	0.0203	0.5248	0.0163	0.5411	0.1511	0.0155	0.1666		2,169.3116	2,169.3116	0.1451			2,172.9402
Worker	1.3836	0.8991	10.1562	0.0312	3.3533	0.0247	3.3780	0.8893	0.0227	0.9120		3,107.0036	3,107.0036	0.0833			3,109.0853
<b>Total</b>	<b>1.6237</b>	<b>8.6951</b>	<b>12.2330</b>	<b>0.0515</b>	<b>3.8781</b>	<b>0.0409</b>	<b>3.9190</b>	<b>1.0404</b>	<b>0.0383</b>	<b>1.0787</b>		<b>5,276.3152</b>	<b>5,276.3152</b>	<b>0.2284</b>			<b>5,282.0255</b>

**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	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608	0.0000	2,001.2200	2,001.2200	0.3573			2,010.1517
<b>Total</b>	<b>1.8125</b>	<b>13.6361</b>	<b>12.8994</b>	<b>0.0221</b>		<b>0.6843</b>	<b>0.6843</b>		<b>0.6608</b>	<b>0.6608</b>	<b>0.0000</b>	<b>2,001.2200</b>	<b>2,001.2200</b>	<b>0.3573</b>			<b>2,010.1517</b>

Broadway Blocks - South Coast AQMD Air District, Winter

**3.5 Building Construction - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2402	7.7960	2.0768	0.0203	0.5248	0.0163	0.5411	0.1511	0.0155	0.1666		2,169.3116	2,169.3116	0.1451		2,172.9402
Worker	1.3836	0.8991	10.1562	0.0312	3.3533	0.0247	3.3780	0.8893	0.0227	0.9120		3,107.0036	3,107.0036	0.0833		3,109.0853
<b>Total</b>	<b>1.6237</b>	<b>8.6951</b>	<b>12.2330</b>	<b>0.0515</b>	<b>3.8781</b>	<b>0.0409</b>	<b>3.9190</b>	<b>1.0404</b>	<b>0.0383</b>	<b>1.0787</b>		<b>5,276.3152</b>	<b>5,276.3152</b>	<b>0.2284</b>		<b>5,282.0255</b>

**3.6 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	0.7739	7.7422	8.8569	0.0135		0.4153	0.4153		0.3830	0.3830		1,296.8664	1,296.8664	0.4111		1,307.1442
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.7739</b>	<b>7.7422</b>	<b>8.8569</b>	<b>0.0135</b>		<b>0.4153</b>	<b>0.4153</b>		<b>0.3830</b>	<b>0.3830</b>		<b>1,296.8664</b>	<b>1,296.8664</b>	<b>0.4111</b>		<b>1,307.1442</b>

Broadway Blocks - South Coast AQMD Air District, Winter

**3.6 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0922	0.0599	0.6771	2.0800e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		207.1336	207.1336	5.5500e-003		207.2724
<b>Total</b>	<b>0.0922</b>	<b>0.0599</b>	<b>0.6771</b>	<b>2.0800e-003</b>	<b>0.2236</b>	<b>1.6500e-003</b>	<b>0.2252</b>	<b>0.0593</b>	<b>1.5200e-003</b>	<b>0.0608</b>		<b>207.1336</b>	<b>207.1336</b>	<b>5.5500e-003</b>		<b>207.2724</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7739	7.7422	8.8569	0.0135		0.4153	0.4153		0.3830	0.3830	0.0000	1,296.8664	1,296.8664	0.4111		1,307.1442
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.7739</b>	<b>7.7422</b>	<b>8.8569</b>	<b>0.0135</b>		<b>0.4153</b>	<b>0.4153</b>		<b>0.3830</b>	<b>0.3830</b>	<b>0.0000</b>	<b>1,296.8664</b>	<b>1,296.8664</b>	<b>0.4111</b>		<b>1,307.1442</b>

Broadway Blocks - South Coast AQMD Air District, Winter

**3.6 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0922	0.0599	0.6771	2.0800e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		207.1336	207.1336	5.5500e-003		207.2724
<b>Total</b>	<b>0.0922</b>	<b>0.0599</b>	<b>0.6771</b>	<b>2.0800e-003</b>	<b>0.2236</b>	<b>1.6500e-003</b>	<b>0.2252</b>	<b>0.0593</b>	<b>1.5200e-003</b>	<b>0.0608</b>		<b>207.1336</b>	<b>207.1336</b>	<b>5.5500e-003</b>		<b>207.2724</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Broadway Blocks - South Coast AQMD Air District, 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	5.9647	30.5049	68.2543	0.2364	19.4642	0.1985	19.6627	5.2080	0.1853	5.3933		24,065.70 84	24,065.70 84	1.2855		24,097.84 58
Unmitigated	5.9647	30.5049	68.2543	0.2364	19.4642	0.1985	19.6627	5.2080	0.1853	5.3933		24,065.70 84	24,065.70 84	1.2855		24,097.84 58

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse High Rise	1,448.00	1,492.00	1188.00	4,842,592	4,842,592
Enclosed Parking with Elevator	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	1,082.98	1,348.90	1122.91	1,535,460	1,535,460
Regional Shopping Center	875.95	1,025.19	517.82	1,829,991	1,829,991
<b>Total</b>	<b>3,406.92</b>	<b>3,866.08</b>	<b>2,828.73</b>	<b>8,208,043</b>	<b>8,208,043</b>

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
Condo/Townhouse High Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
High Turnover (Sit Down)	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix



Broadway Blocks - South Coast AQMD Air District, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse High Rise	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Enclosed Parking with Elevator	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
High Turnover (Sit Down Restaurant)	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Regional Shopping Center	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925

**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	0.2249	1.9582	1.0841	0.0123		0.1554	0.1554		0.1554	0.1554		2,453.4499	2,453.4499	0.0470	0.0450	2,468.0296
NaturalGas Unmitigated	0.2249	1.9582	1.0841	0.0123		0.1554	0.1554		0.1554	0.1554		2,453.4499	2,453.4499	0.0470	0.0450	2,468.0296

Broadway Blocks - South Coast AQMD Air District, Winter

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse High Rise	14680.7	0.1583	1.3529	0.5757	8.6400e-003		0.1094	0.1094		0.1094	0.1094		1,727.1452	1,727.1452	0.0331	0.0317	1,737.4088
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	6069.3	0.0655	0.5950	0.4998	3.5700e-003		0.0452	0.0452		0.0452	0.0452		714.0358	714.0358	0.0137	0.0131	718.2789
Regional Shopping Center	104.286	1.1200e-003	0.0102	8.5900e-003	6.0000e-005		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004		12.2689	12.2689	2.4000e-004	2.2000e-004	12.3419
<b>Total</b>		<b>0.2249</b>	<b>1.9582</b>	<b>1.0841</b>	<b>0.0123</b>		<b>0.1554</b>	<b>0.1554</b>		<b>0.1554</b>	<b>0.1554</b>		<b>2,453.4499</b>	<b>2,453.4499</b>	<b>0.0470</b>	<b>0.0450</b>	<b>2,468.0296</b>

Broadway Blocks - South Coast AQMD Air District, Winter

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse High Rise	14.6807	0.1583	1.3529	0.5757	8.6400e-003		0.1094	0.1094		0.1094	0.1094		1,727.1452	1,727.1452	0.0331	0.0317	1,737.4088
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	6.0693	0.0655	0.5950	0.4998	3.5700e-003		0.0452	0.0452		0.0452	0.0452		714.0358	714.0358	0.0137	0.0131	718.2789
Regional Shopping Center	0.104286	1.1200e-003	0.0102	8.5900e-003	6.0000e-005		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004		12.2689	12.2689	2.4000e-004	2.2000e-004	12.3419
<b>Total</b>		<b>0.2249</b>	<b>1.9582</b>	<b>1.0841</b>	<b>0.0123</b>		<b>0.1554</b>	<b>0.1554</b>		<b>0.1554</b>	<b>0.1554</b>		<b>2,453.4499</b>	<b>2,453.4499</b>	<b>0.0470</b>	<b>0.0450</b>	<b>2,468.0296</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Broadway Blocks - South Coast AQMD Air District, 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	10.9823	0.3820	33.0967	1.7400e-003		0.1824	0.1824		0.1824	0.1824	0.0000	59.4732	59.4732	0.0577	0.0000	60.9162
Unmitigated	10.9823	0.3820	33.0967	1.7400e-003		0.1824	0.1824		0.1824	0.1824	0.0000	59.4732	59.4732	0.0577	0.0000	60.9162

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	0.8286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.1494					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0043	0.3820	33.0967	1.7400e-003		0.1824	0.1824		0.1824	0.1824		59.4732	59.4732	0.0577		60.9162
<b>Total</b>	<b>10.9823</b>	<b>0.3820</b>	<b>33.0967</b>	<b>1.7400e-003</b>		<b>0.1824</b>	<b>0.1824</b>		<b>0.1824</b>	<b>0.1824</b>	<b>0.0000</b>	<b>59.4732</b>	<b>59.4732</b>	<b>0.0577</b>	<b>0.0000</b>	<b>60.9162</b>

Broadway Blocks - South Coast AQMD Air District, 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	0.8286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.1494					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0043	0.3820	33.0967	1.7400e-003		0.1824	0.1824		0.1824	0.1824		59.4732	59.4732	0.0577		60.9162
<b>Total</b>	<b>10.9823</b>	<b>0.3820</b>	<b>33.0967</b>	<b>1.7400e-003</b>		<b>0.1824</b>	<b>0.1824</b>		<b>0.1824</b>	<b>0.1824</b>	<b>0.0000</b>	<b>59.4732</b>	<b>59.4732</b>	<b>0.0577</b>	<b>0.0000</b>	<b>60.9162</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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Broadway Blocks - South Coast AQMD Air District, Winter

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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**Broadway Block  
CalEEMod Inputs**

**Land Use Types and Trip Generation**

Land-Use Type	Dwelling Units	Area (1,000 sf)	Parking Spaces	Daily Trips	Weekday Daily Trip Rate	Saturday Daily Trip Rate	Sunday Daily Trip Rate	Default CalEEMod Weekday Rate	Default CalEEMod Saturday Rate	Default CalEEMod Sunday Rate
Condo/Townhouse High Rise	400	425.596		1448	3.62	3.73	2.97	4.18	4.31	3.43
Regional Shopping Center		23.21		876	37.74	44.17	22.31	42.7	49.97	25.24
High Turnover (Sit Down Restaurant)		9.6		1083	112.81	140.51	116.97	127.15	158.37	131.84
Parking		205.898	582	0	-	-	-	-	-	-
<b>Total</b>				<b>3407</b>						

Source: Project-Specific Traffic Analysis, Long Beach Downtown Broadway Block Addendum - Trip Generation Calculations.  
Weekend trip rates estimates based on default trip rate weekday to weekend day ratio.

**Other Information**

Parameter	Value	Notes
Lot square footage	68375	
Lot acres	1.57	
MT CO2e/MWh	0.24	<i>This includes both NO2 and CH4</i>
lb CO2e/MWh	529.1088	

Source: Edison International 2016 Corporate Responsibility & Sustainability Report

Broadway Block  
CalEEMod Output Post-Processing

Significance Threshold Values

Pollutant	Allowable Emissions, lb/day	
	Construction	Operation
NOX	100	55
VOC	75	55
CO	550	550
PM10	150	150
PM2.5	55	55
SOX	150	150
Lead	3	3

Regional Construction Emissions

Construction Year	Unmitigated											Mitigated																	
												20%									45%								
	ROG	NOX	CO	SO2	Fugitive PM10*	Exhaust PM10*	Total PM10	Fugitive PM2.5*	Exhaust PM2.5*	Total PM2.5	ROG	NOX	CO	SO2	Fugitive PM10*	Exhaust PM10*	Total PM10	Fugitive PM2.5*	Exhaust PM2.5*	Total PM2.5									
2019	9	87	60	0	11	3	14	4	3	7	9	69	60	0	11	2	12	4	1	5									
2020	4	24	27	0	4	1	5	1	1	2	4	20	27	0	4	0	4	1	0	1									
2021	4	30	35	0	4	1	5	1	1	2	4	24	35	0	4	1	5	1	1	2									
Maximum	9	87	60	0	11	3	14	4	3	7	9	69	60	0	11	2	12	4	1	5									
Mass Daily Threshold	75	100	550	150	150	150	150	55	55	55	75	100	550	150	150	150	150	55	55	55									
Exceed Threshold?	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No									

Note: Fugitive PM emissions have SCAQMD Rule 403 Fugitive Dust requirements applied (i.e., mitigated condition). Exhaust PM emissions have 45% mitigation applied.



**Broadway Block**  
**CalEEMod Output Post-Processing**

**Localized Significance Threshold Information**

Parameter	Value
Area	Long Beach
Source Receptor Zone	4
Site size, acres	2
Distance to receptor, m	35

**Localized Significance Threshold Values**

Pollutant	Allowable Emissions,	
	Constructio	Operation
NOX	82	82
CO	842	842
PM10	7	2
PM2.5	5	1

**On-Site Construction Emissions (By Phase)**

Construction Phase/Year	Start Date	End Date	Unmitigated									20%			45%			45%		
			Unmitigated									Mitigated								
			NOX	CO	Fugitive PM10*	Exhaust PM10*	Total PM10	Fugitive PM2.5*	Exhaust PM2.5*	Total PM2.5	NOX	CO	Fugitive PM10*	Exhaust PM10*	Total PM10	Fugitive PM2.5*	Exhaust PM2.5*	Total PM2.5		
Demolition 2019	1/1/2019	1/31/2019	23	15	2	2	1	3	0	1	1	18	15	2	1	2	0	1	1	
Grading 2019	1/1/2019	6/29/2019	16	7	2	1	3	1	1	2	13	7	2	0	2	1	0	1		
Foundation/Concrete Pour 2019	3/1/2019	5/31/2019	16	13	0	1	1	0	1	1	13	13	0	1	1	0	0	0		
Building Construction 2019	4/1/2019	12/31/2019	16	13	0	1	1	0	1	1	13	13	0	1	1	0	0	0		
Building Construction 2020	1/1/2020	12/31/2020	15	13	0	1	1	0	1	1	12	13	0	0	0	0	0	0		
Building Construction 2021	1/1/2021	6/29/2021	14	13	0	1	1	0	1	1	11	13	0	0	0	0	0	0		
Paving 2021	3/1/2021	6/30/2021	8	9	0	0	0	0	0	0	6	9	0	0	0	0	0	0		

Note: Fugitive PM emissions have SCAQMD Rule 403 Fugitive Dust requirements applied (i.e., mitigated condition). Exhaust PM emissions have 45% mitigation applied.

**On-Site Construction Emissions (By Year)**

Construction Year	Unmitigated				Mitigated			
	NOX	CO	Total PM10	Total PM2.5	NOX	CO	Total PM10	Total PM2.5
2019	48	34	6	3	38	34	5	2
2020	15	13	1	1	12	13	0	0
2021	21	22	1	1	17	22	1	1

**On-Site Operational Emissions**

Source	NOX	CO	Total PM10	Total PM2.5
Area	0	33	0	0
Energy	2	1	0	0
Total	2	34	0	0

**Broadway Block**  
**CalEEMod Output Post-Processing**

**GHG Emissions from CalEEMod**

Condition	Year	CO2e
Construction	2019	1,560
	2020	1,069
	2021	588
	Total	3,217
Operations	Area	7
	Energy-Electricity	880
	Energy-Natural Gas	409
	Mobile	3,617
	Waste	162
	Water	185
	Total	5,260

**Significance Determination**

Source	CO2e
Amortized Construction	107
Area Sources	7
Electricity Usage	880
Natural Gas Usage	409
Mobile Sources	3,617
Water and Wastewater	162
Solid Waste	185
Proposed Project Total	5,367
Anticipated Service Population	1,189
CO2e Efficiency Metric, MTCO2e/SP/year	4.5
Significance Threshold, MTCO2e/SP/year	6.6
Exceed Threshold?	No

**Estimation of Employees**

CalEEMod Category	SCAG Employment Density Category	Square Feet per Employee	Square Feet	Employees
High Turnover (Sit Down Restaurant)	Other Retail/Svc.	730	9600	13
Regional Shopping Center	Other Retail/Svc.	730	23210	32
<b>Notes:</b>			<b>Total</b>	<b>45</b>

Based on SCAG's Employment Density Study Summary Report, October 31, 2001. Prepared by the Natelson Company, Inc.  
 The employment density estimate that results in the lowest number of employees was used (to be conservative).

## Energy - Fuel Usage Calculations

<b>Construction</b>						
Scenario	Fuel Type	Fuel Type %*	Factor (kgCO <sub>2</sub> /gal)**	CalEEMod CO <sub>2</sub> (Total MT)	Gallons	
Broadway Block	Diesel	95%	10.15	3216.7466	301,074.80	
	Gasoline	5%	8.91	3216.7466	18,051.33	

NOTES: \* Fuel type: diesel for trucks and off-road equipment, gasoline for worker vehicles  
 Since majority of emissions from diesel sources, default assumption is 100% diesel  
 \*\* Conversion 1 MT = 1,000 kg. Unit volume fuel factors (kg CO<sub>2</sub>/gallon)  
 for gasoline and diesel are from the U.S. Energy Information Administration  
 Frequently Asked Questions, located here:  
<https://www.eia.gov/tools/faqs/faq.php?id=307&t=11>

<b>Operations</b>						
Scenario	Fuel Type	Fuel Type %*	Factor (kgCO <sub>2</sub> /gal)**	CalEEMod CO <sub>2</sub> (MT/yr)	Gallons	
Broadway Block	Diesel	1%	10.15	3616.9273	3,563.48	
	Gasoline	99%	8.91	3767.3361	418,592.90	

NOTES: \* Fuel type: gasoline for majority of vehicles, diesel for majority of trucks and buses  
 Since majority of emissions from gasoline sources, default assumption is 100% gas  
 \* Conversion 1 MT = 1,000 kg. Unit volume fuel factors (kg CO<sub>2</sub>/gallon)  
 for gasoline and diesel are from the U.S. Energy Information Administration  
 Frequently Asked Questions, located here:  
<https://www.eia.gov/tools/faqs/faq.php?id=307&t=11>  
 \*\*\* Mitigation measures include: None  
 LCFS and Pavley assumed for on-road vehicles after year 2011

