

APPENDIX F

AIR QUALITY/GREENHOUSE GAS EMISSIONS DATA

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111 Independence Drive Project - Bay Area AQMD Air District, Annual

111 Independence Drive Project
Bay Area AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unenclosed Parking with Elevator	115.00	Space	0.02	49,582.00	0
City Park	0.38	Acre	0.38	16,476.00	0
Apartments Mid Rise	105.00	Dwelling Unit	0.50	145,350.00	300
Strip Mall	0.71	1000sqft	0.02	712.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	5			Operational Year	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	328.8	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - CO2 intensity based on 5-year average (PG&E, 2015)

Land Use - The proposed project would include an 144,599-gross-square-foot (gsf), eight-story multi-family apartment building with 106 dwelling units and a 500-square-foot commercial space, as well as associated open space and parking.

Construction Phase - 21-month construction period

Demolition - The project would include the demolition of the 15,000-square-foot existing building.

Grading - 1,575 cubic yards of soil would be off-hauled and 400 cubic yards of soil would be imported

Vehicle Trips - Based on trip generation prepared for the project.

Energy Use -

Construction Off-road Equipment Mitigation - Assuming compliance with BAAQMD Basic Construction Mitigation Measures and tier 2 construction equipment

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation - Assuming compliance with 2019 Title 24 standards, installation of high efficiency lighting, and energy-efficient appliances

Water Mitigation - Assuming low-flow appliances

Waste Mitigation - Consistent with the CalRecycle Waste Diversion and Recycling Mandate which will reduce solid waste production by 75 percent.

Woodstoves - Assuming no hearth as the proposed project would not increase the demand for natural gas as the City's REACH codes would require the buildings to be all electric.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstructionPhase	NumDays	5.00	130.00
tblConstructionPhase	NumDays	100.00	130.00
tblConstructionPhase	NumDays	10.00	15.00
tblConstructionPhase	NumDays	2.00	30.00
tblConstructionPhase	NumDays	5.00	130.00
tblConstructionPhase	NumDays	1.00	30.00
tblFireplaces	NumberGas	15.75	0.00
tblFireplaces	NumberWood	17.85	0.00
tblGrading	MaterialExported	0.00	1,575.00
tblGrading	MaterialImported	0.00	400.00
tblLandUse	LandUseSquareFeet	46,000.00	49,582.00
tblLandUse	LandUseSquareFeet	16,552.80	16,476.00
tblLandUse	LandUseSquareFeet	105,000.00	145,350.00
tblLandUse	LandUseSquareFeet	710.00	712.00
tblLandUse	LotAcreage	1.03	0.02
tblLandUse	LotAcreage	2.76	0.50

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tblProjectCharacteristics	CO2IntensityFactor	641.35	328.8
tblVehicleTrips	ST_TR	6.39	7.27
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	5.86	7.27
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	6.65	7.27
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	44.32	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					
2021	0.0879	0.8488	0.7550	1.8100e-003	0.0801	0.0367	0.1168	0.0226	0.0341	0.0567	0.0000	163.4714	163.4714	0.0275	0.0000	164.1597
2022	0.8722	0.6003	0.7412	1.4100e-003	0.0320	0.0292	0.0612	8.5700e-003	0.0274	0.0360	0.0000	121.6667	121.6667	0.0244	0.0000	122.2764
2023	0.2431	0.0201	0.0331	7.0000e-005	2.4900e-003	1.0800e-003	3.5700e-003	6.6000e-004	1.0800e-003	1.7400e-003	0.0000	5.7793	5.7793	2.7000e-004	0.0000	5.7860
Maximum	0.8722	0.8488	0.7550	1.8100e-003	0.0801	0.0367	0.1168	0.0226	0.0341	0.0567	0.0000	163.4714	163.4714	0.0275	0.0000	164.1597

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					
2021	0.0607	1.0667	0.8257	1.8100e-003	0.0654	0.0326	0.0980	0.0181	0.0326	0.0506	0.0000	163.4713	163.4713	0.0275	0.0000	164.1596
2022	0.8481	0.8622	0.7457	1.4100e-003	0.0320	0.0306	0.0626	8.5700e-003	0.0306	0.0391	0.0000	121.6665	121.6665	0.0244	0.0000	122.2763
2023	0.2419	0.0358	0.0335	7.0000e-005	2.4900e-003	1.4400e-003	3.9300e-003	6.6000e-004	1.4400e-003	2.1000e-003	0.0000	5.7793	5.7793	2.7000e-004	0.0000	5.7860
Maximum	0.8481	1.0667	0.8257	1.8100e-003	0.0654	0.0326	0.0980	0.0181	0.0326	0.0506	0.0000	163.4713	163.4713	0.0275	0.0000	164.1596

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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	N20	CO2e
Percent Reduction	4.37	-33.73	-4.94	0.00	12.83	3.51	9.40	14.18	-3.18	2.68	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	5-3-2021	8-2-2021	0.2935	0.3482
2	8-3-2021	11-2-2021	0.3681	0.4471
3	11-3-2021	2-2-2022	0.3707	0.4623
4	2-3-2022	5-2-2022	0.2191	0.2916
5	5-3-2022	8-2-2022	0.2185	0.2909
6	8-3-2022	11-2-2022	0.5287	0.5610
7	11-3-2022	2-2-2023	0.5794	0.6089
8	2-3-2023	5-2-2023	0.0502	0.0529
		Highest	0.5794	0.6089

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2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.7094	0.0102	0.8559	2.9000e-004		0.0166	0.0166		0.0166	0.0166	1.6377	1.2756	2.9133	8.8900e-003	0.0000	3.1354
Energy	4.9600e-003	0.0424	0.0181	2.7000e-004		3.4300e-003	3.4300e-003		3.4300e-003	3.4300e-003	0.0000	130.6674	130.6674	8.1400e-003	2.3900e-003	131.5826
Mobile	0.1736	0.7688	1.9722	7.3300e-003	0.6561	6.0100e-003	0.6621	0.1761	5.6100e-003	0.1817	0.0000	673.9403	673.9403	0.0234	0.0000	674.5254
Waste						0.0000	0.0000		0.0000	0.0000	9.9628	0.0000	9.9628	0.5888	0.0000	24.6824
Water						0.0000	0.0000		0.0000	0.0000	2.1871	8.0678	10.2548	0.2253	5.4500e-003	17.5130
Total	0.8880	0.8215	2.8461	7.8900e-003	0.6561	0.0260	0.6821	0.1761	0.0256	0.2017	13.7875	813.9511	827.7386	0.8546	7.8400e-003	851.4387

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.7094	0.0102	0.8559	2.9000e-004		0.0166	0.0166		0.0166	0.0166	1.6377	1.2756	2.9133	8.8900e-003	0.0000	3.1354
Energy	4.7200e-003	0.0403	0.0172	2.6000e-004		3.2600e-003	3.2600e-003		3.2600e-003	3.2600e-003	0.0000	123.6048	123.6048	7.6800e-003	2.2600e-003	124.4702
Mobile	0.1653	0.7179	1.7757	6.4100e-003	0.5669	5.2900e-003	0.5722	0.1521	4.9400e-003	0.1571	0.0000	589.1849	589.1849	0.0211	0.0000	589.7123
Waste						0.0000	0.0000		0.0000	0.0000	2.4907	0.0000	2.4907	0.1472	0.0000	6.1706
Water						0.0000	0.0000		0.0000	0.0000	1.7497	6.9551	8.7048	0.1803	4.3700e-003	14.5151
Total	0.8794	0.7685	2.6488	6.9600e-003	0.5669	0.0251	0.5920	0.1521	0.0248	0.1769	5.8780	721.0204	726.8984	0.3652	6.6300e-003	738.0035

	ROG	NOx	CO	SO2	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	0.97	6.45	6.93	11.79	13.60	3.42	13.21	13.60	3.28	12.29	57.37	11.42	12.18	57.27	15.43	13.32

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	5/3/2021	5/21/2021	5	15	
2	Site Preparation	Site Preparation	5/24/2021	7/2/2021	5	30	
3	Grading	Grading	7/5/2021	8/13/2021	5	30	
4	Building Construction	Building Construction	8/16/2021	2/11/2022	5	130	
5	Paving	Paving	2/14/2022	8/12/2022	5	130	
6	Architectural Coating	Architectural Coating	8/15/2022	2/10/2023	5	130	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.02

Residential Indoor: 294,334; Residential Outdoor: 98,111; Non-Residential Indoor: 1,068; Non-Residential Outdoor: 356; Striped Parking Area: 2,975 (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	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	68.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	50.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	197.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	104.00	22.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	21.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.3800e-003	0.0000	7.3800e-003	1.1200e-003	0.0000	1.1200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.9700e-003	0.0544	0.0568	9.0000e-005		3.0600e-003	3.0600e-003		2.9100e-003	2.9100e-003	0.0000	7.8070	7.8070	1.4500e-003	0.0000	7.8434
Total	5.9700e-003	0.0544	0.0568	9.0000e-005	7.3800e-003	3.0600e-003	0.0104	1.1200e-003	2.9100e-003	4.0300e-003	0.0000	7.8070	7.8070	1.4500e-003	0.0000	7.8434

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3.2 Demolition - 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	2.7000e-004	9.1800e-003	1.9600e-003	3.0000e-005	5.7000e-004	3.0000e-005	6.0000e-004	1.6000e-004	3.0000e-005	1.9000e-004	0.0000	2.5723	2.5723	1.3000e-004	0.0000	2.5755
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.6000e-004	1.6800e-003	1.0000e-005	5.9000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5010	0.5010	1.0000e-005	0.0000	0.5013
Total	5.0000e-004	9.3400e-003	3.6400e-003	4.0000e-005	1.1600e-003	3.0000e-005	1.2000e-003	3.2000e-004	3.0000e-005	3.5000e-004	0.0000	3.0732	3.0732	1.4000e-004	0.0000	3.0768

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.3200e-003	0.0000	3.3200e-003	5.0000e-004	0.0000	5.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6300e-003	0.0778	0.0595	9.0000e-005		3.0100e-003	3.0100e-003		3.0100e-003	3.0100e-003	0.0000	7.8070	7.8070	1.4500e-003	0.0000	7.8434
Total	3.6300e-003	0.0778	0.0595	9.0000e-005	3.3200e-003	3.0100e-003	6.3300e-003	5.0000e-004	3.0100e-003	3.5100e-003	0.0000	7.8070	7.8070	1.4500e-003	0.0000	7.8434

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3.2 Demolition - 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	2.7000e-004	9.1800e-003	1.9600e-003	3.0000e-005	5.7000e-004	3.0000e-005	6.0000e-004	1.6000e-004	3.0000e-005	1.9000e-004	0.0000	2.5723	2.5723	1.3000e-004	0.0000	2.5755
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.6000e-004	1.6800e-003	1.0000e-005	5.9000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5010	0.5010	1.0000e-005	0.0000	0.5013
Total	5.0000e-004	9.3400e-003	3.6400e-003	4.0000e-005	1.1600e-003	3.0000e-005	1.2000e-003	3.2000e-004	3.0000e-005	3.5000e-004	0.0000	3.0732	3.0732	1.4000e-004	0.0000	3.0768

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.9800e-003	0.0000	7.9800e-003	8.6000e-004	0.0000	8.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6000e-003	0.1173	0.0604	1.5000e-004		4.4900e-003	4.4900e-003		4.1300e-003	4.1300e-003	0.0000	12.8265	12.8265	4.1500e-003	0.0000	12.9302
Total	9.6000e-003	0.1173	0.0604	1.5000e-004	7.9800e-003	4.4900e-003	0.0125	8.6000e-004	4.1300e-003	4.9900e-003	0.0000	12.8265	12.8265	4.1500e-003	0.0000	12.9302

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3.3 Site Preparation - 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	2.0000e-004	6.7500e-003	1.4400e-003	2.0000e-005	4.2000e-004	2.0000e-005	4.4000e-004	1.2000e-004	2.0000e-005	1.4000e-004	0.0000	1.8914	1.8914	1.0000e-004	0.0000	1.8938
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.6000e-004	1.6800e-003	1.0000e-005	5.9000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5010	0.5010	1.0000e-005	0.0000	0.5013
Total	4.3000e-004	6.9100e-003	3.1200e-003	3.0000e-005	1.0100e-003	2.0000e-005	1.0400e-003	2.8000e-004	2.0000e-005	3.0000e-004	0.0000	2.3924	2.3924	1.1000e-004	0.0000	2.3950

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.5900e-003	0.0000	3.5900e-003	3.9000e-004	0.0000	3.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6200e-003	0.1293	0.0879	1.5000e-004		3.6100e-003	3.6100e-003		3.6100e-003	3.6100e-003	0.0000	12.8265	12.8265	4.1500e-003	0.0000	12.9302
Total	4.6200e-003	0.1293	0.0879	1.5000e-004	3.5900e-003	3.6100e-003	7.2000e-003	3.9000e-004	3.6100e-003	4.0000e-003	0.0000	12.8265	12.8265	4.1500e-003	0.0000	12.9302

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3.3 Site Preparation - 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	2.0000e-004	6.7500e-003	1.4400e-003	2.0000e-005	4.2000e-004	2.0000e-005	4.4000e-004	1.2000e-004	2.0000e-005	1.4000e-004	0.0000	1.8914	1.8914	1.0000e-004	0.0000	1.8938
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.6000e-004	1.6800e-003	1.0000e-005	5.9000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5010	0.5010	1.0000e-005	0.0000	0.5013
Total	4.3000e-004	6.9100e-003	3.1200e-003	3.0000e-005	1.0100e-003	2.0000e-005	1.0400e-003	2.8000e-004	2.0000e-005	3.0000e-004	0.0000	2.3924	2.3924	1.1000e-004	0.0000	2.3950

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0114	0.0000	0.0114	6.2200e-003	0.0000	6.2200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0120	0.1088	0.1135	1.8000e-004		6.1100e-003	6.1100e-003		5.8300e-003	5.8300e-003	0.0000	15.6140	15.6140	2.9100e-003	0.0000	15.6868
Total	0.0120	0.1088	0.1135	1.8000e-004	0.0114	6.1100e-003	0.0175	6.2200e-003	5.8300e-003	0.0121	0.0000	15.6140	15.6140	2.9100e-003	0.0000	15.6868

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3.4 Grading - 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	7.8000e-004	0.0266	5.6600e-003	8.0000e-005	1.6600e-003	8.0000e-005	1.7500e-003	4.6000e-004	8.0000e-005	5.4000e-004	0.0000	7.4520	7.4520	3.8000e-004	0.0000	7.4615
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	4.6000e-004	3.2000e-004	3.3600e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0020	1.0020	2.0000e-005	0.0000	1.0026
Total	1.2400e-003	0.0269	9.0200e-003	9.0000e-005	2.8500e-003	9.0000e-005	2.9400e-003	7.8000e-004	9.0000e-005	8.6000e-004	0.0000	8.4539	8.4539	4.0000e-004	0.0000	8.4640

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.1200e-003	0.0000	5.1200e-003	2.8000e-003	0.0000	2.8000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.2700e-003	0.1555	0.1191	1.8000e-004		6.0300e-003	6.0300e-003		6.0300e-003	6.0300e-003	0.0000	15.6140	15.6140	2.9100e-003	0.0000	15.6867
Total	7.2700e-003	0.1555	0.1191	1.8000e-004	5.1200e-003	6.0300e-003	0.0112	2.8000e-003	6.0300e-003	8.8300e-003	0.0000	15.6140	15.6140	2.9100e-003	0.0000	15.6867

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3.4 Grading - 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	7.8000e-004	0.0266	5.6600e-003	8.0000e-005	1.6600e-003	8.0000e-005	1.7500e-003	4.6000e-004	8.0000e-005	5.4000e-004	0.0000	7.4520	7.4520	3.8000e-004	0.0000	7.4615
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	4.6000e-004	3.2000e-004	3.3600e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0020	1.0020	2.0000e-005	0.0000	1.0026
Total	1.2400e-003	0.0269	9.0200e-003	9.0000e-005	2.8500e-003	9.0000e-005	2.9400e-003	7.8000e-004	9.0000e-005	8.6000e-004	0.0000	8.4539	8.4539	4.0000e-004	0.0000	8.4640

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	0.0388	0.3993	0.3632	5.7000e-004		0.0224	0.0224		0.0206	0.0206	0.0000	50.0410	50.0410	0.0162	0.0000	50.4456
Total	0.0388	0.3993	0.3632	5.7000e-004		0.0224	0.0224		0.0206	0.0206	0.0000	50.0410	50.0410	0.0162	0.0000	50.4456

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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	3.4900e-003	0.1149	0.0287	3.0000e-004	7.2100e-003	2.5000e-004	7.4600e-003	2.0900e-003	2.4000e-004	2.3300e-003	0.0000	28.5278	28.5278	1.4000e-003	0.0000	28.5629
Worker	0.0160	0.0110	0.1166	3.8000e-004	0.0411	2.7000e-004	0.0414	0.0109	2.5000e-004	0.0112	0.0000	34.7355	34.7355	7.8000e-004	0.0000	34.7550
Total	0.0195	0.1259	0.1453	6.8000e-004	0.0483	5.2000e-004	0.0488	0.0130	4.9000e-004	0.0135	0.0000	63.2633	63.2633	2.1800e-003	0.0000	63.3179

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	0.0235	0.5351	0.3981	5.7000e-004		0.0193	0.0193		0.0193	0.0193	0.0000	50.0410	50.0410	0.0162	0.0000	50.4456
Total	0.0235	0.5351	0.3981	5.7000e-004		0.0193	0.0193		0.0193	0.0193	0.0000	50.0410	50.0410	0.0162	0.0000	50.4456

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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	3.4900e-003	0.1149	0.0287	3.0000e-004	7.2100e-003	2.5000e-004	7.4600e-003	2.0900e-003	2.4000e-004	2.3300e-003	0.0000	28.5278	28.5278	1.4000e-003	0.0000	28.5629
Worker	0.0160	0.0110	0.1166	3.8000e-004	0.0411	2.7000e-004	0.0414	0.0109	2.5000e-004	0.0112	0.0000	34.7355	34.7355	7.8000e-004	0.0000	34.7550
Total	0.0195	0.1259	0.1453	6.8000e-004	0.0483	5.2000e-004	0.0488	0.0130	4.9000e-004	0.0135	0.0000	63.2633	63.2633	2.1800e-003	0.0000	63.3179

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0103	0.1054	0.1073	1.7000e-004		5.5800e-003	5.5800e-003		5.1300e-003	5.1300e-003	0.0000	15.0222	15.0222	4.8600e-003	0.0000	15.1436
Total	0.0103	0.1054	0.1073	1.7000e-004		5.5800e-003	5.5800e-003		5.1300e-003	5.1300e-003	0.0000	15.0222	15.0222	4.8600e-003	0.0000	15.1436

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3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.8000e-004	0.0326	8.0900e-003	9.0000e-005	2.1600e-003	7.0000e-005	2.2300e-003	6.3000e-004	6.0000e-005	6.9000e-004	0.0000	8.4744	8.4744	4.0000e-004	0.0000	8.4845
Worker	4.4600e-003	2.9600e-003	0.0322	1.1000e-004	0.0123	8.0000e-005	0.0124	3.2800e-003	7.0000e-005	3.3500e-003	0.0000	10.0386	10.0386	2.1000e-004	0.0000	10.0439
Total	5.4400e-003	0.0356	0.0402	2.0000e-004	0.0145	1.5000e-004	0.0146	3.9100e-003	1.3000e-004	4.0400e-003	0.0000	18.5130	18.5130	6.1000e-004	0.0000	18.5283

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	7.0600e-003	0.1605	0.1194	1.7000e-004		5.7800e-003	5.7800e-003		5.7800e-003	5.7800e-003	0.0000	15.0221	15.0221	4.8600e-003	0.0000	15.1436
Total	7.0600e-003	0.1605	0.1194	1.7000e-004		5.7800e-003	5.7800e-003		5.7800e-003	5.7800e-003	0.0000	15.0221	15.0221	4.8600e-003	0.0000	15.1436

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3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.8000e-004	0.0326	8.0900e-003	9.0000e-005	2.1600e-003	7.0000e-005	2.2300e-003	6.3000e-004	6.0000e-005	6.9000e-004	0.0000	8.4744	8.4744	4.0000e-004	0.0000	8.4845
Worker	4.4600e-003	2.9600e-003	0.0322	1.1000e-004	0.0123	8.0000e-005	0.0124	3.2800e-003	7.0000e-005	3.3500e-003	0.0000	10.0386	10.0386	2.1000e-004	0.0000	10.0439
Total	5.4400e-003	0.0356	0.0402	2.0000e-004	0.0145	1.5000e-004	0.0146	3.9100e-003	1.3000e-004	4.0400e-003	0.0000	18.5130	18.5130	6.1000e-004	0.0000	18.5283

3.6 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0421	0.3846	0.4573	7.3000e-004		0.0192	0.0192		0.0179	0.0179	0.0000	61.0795	61.0795	0.0178	0.0000	61.5243
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0421	0.3846	0.4573	7.3000e-004		0.0192	0.0192		0.0179	0.0179	0.0000	61.0795	61.0795	0.0178	0.0000	61.5243

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3.6 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3500e-003	2.2200e-003	0.0241	8.0000e-005	9.2500e-003	6.0000e-005	9.3000e-003	2.4600e-003	5.0000e-005	2.5100e-003	0.0000	7.5290	7.5290	1.6000e-004	0.0000	7.5329
Total	3.3500e-003	2.2200e-003	0.0241	8.0000e-005	9.2500e-003	6.0000e-005	9.3000e-003	2.4600e-003	5.0000e-005	2.5100e-003	0.0000	7.5290	7.5290	1.6000e-004	0.0000	7.5329

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	0.0257	0.5442	0.4487	7.3000e-004		0.0198	0.0198		0.0198	0.0198	0.0000	61.0794	61.0794	0.0178	0.0000	61.5242
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0257	0.5442	0.4487	7.3000e-004		0.0198	0.0198		0.0198	0.0198	0.0000	61.0794	61.0794	0.0178	0.0000	61.5242

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3.6 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3500e-003	2.2200e-003	0.0241	8.0000e-005	9.2500e-003	6.0000e-005	9.3000e-003	2.4600e-003	5.0000e-005	2.5100e-003	0.0000	7.5290	7.5290	1.6000e-004	0.0000	7.5329
Total	3.3500e-003	2.2200e-003	0.0241	8.0000e-005	9.2500e-003	6.0000e-005	9.3000e-003	2.4600e-003	5.0000e-005	2.5100e-003	0.0000	7.5290	7.5290	1.6000e-004	0.0000	7.5329

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7979					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0102	0.0704	0.0907	1.5000e-004		4.0900e-003	4.0900e-003		4.0900e-003	4.0900e-003	0.0000	12.7663	12.7663	8.3000e-004	0.0000	12.7871
Total	0.8081	0.0704	0.0907	1.5000e-004		4.0900e-003	4.0900e-003		4.0900e-003	4.0900e-003	0.0000	12.7663	12.7663	8.3000e-004	0.0000	12.7871

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3.7 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-003	1.9900e-003	0.0216	7.0000e-005	8.3000e-003	5.0000e-005	8.3500e-003	2.2100e-003	5.0000e-005	2.2600e-003	0.0000	6.7568	6.7568	1.4000e-004	0.0000	6.7603
Total	3.0000e-003	1.9900e-003	0.0216	7.0000e-005	8.3000e-003	5.0000e-005	8.3500e-003	2.2100e-003	5.0000e-005	2.2600e-003	0.0000	6.7568	6.7568	1.4000e-004	0.0000	6.7603

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7979					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.7000e-003	0.1176	0.0916	1.5000e-004		4.7500e-003	4.7500e-003		4.7500e-003	4.7500e-003	0.0000	12.7663	12.7663	8.3000e-004	0.0000	12.7870
Total	0.8036	0.1176	0.0916	1.5000e-004		4.7500e-003	4.7500e-003		4.7500e-003	4.7500e-003	0.0000	12.7663	12.7663	8.3000e-004	0.0000	12.7870

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3.7 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-003	1.9900e-003	0.0216	7.0000e-005	8.3000e-003	5.0000e-005	8.3500e-003	2.2100e-003	5.0000e-005	2.2600e-003	0.0000	6.7568	6.7568	1.4000e-004	0.0000	6.7603
Total	3.0000e-003	1.9900e-003	0.0216	7.0000e-005	8.3000e-003	5.0000e-005	8.3500e-003	2.2100e-003	5.0000e-005	2.2600e-003	0.0000	6.7568	6.7568	1.4000e-004	0.0000	6.7603

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2394					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8700e-003	0.0195	0.0272	4.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.8299	3.8299	2.3000e-004	0.0000	3.8356
Total	0.2422	0.0195	0.0272	4.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.8299	3.8299	2.3000e-004	0.0000	3.8356

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3.7 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.4000e-004	5.4000e-004	5.9700e-003	2.0000e-005	2.4900e-003	2.0000e-005	2.5000e-003	6.6000e-004	1.0000e-005	6.8000e-004	0.0000	1.9494	1.9494	4.0000e-005	0.0000	1.9503
Total	8.4000e-004	5.4000e-004	5.9700e-003	2.0000e-005	2.4900e-003	2.0000e-005	2.5000e-003	6.6000e-004	1.0000e-005	6.8000e-004	0.0000	1.9494	1.9494	4.0000e-005	0.0000	1.9503

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2394					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7100e-003	0.0353	0.0275	4.0000e-005		1.4300e-003	1.4300e-003		1.4300e-003	1.4300e-003	0.0000	3.8299	3.8299	2.3000e-004	0.0000	3.8356
Total	0.2411	0.0353	0.0275	4.0000e-005		1.4300e-003	1.4300e-003		1.4300e-003	1.4300e-003	0.0000	3.8299	3.8299	2.3000e-004	0.0000	3.8356

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3.7 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.4000e-004	5.4000e-004	5.9700e-003	2.0000e-005	2.4900e-003	2.0000e-005	2.5000e-003	6.6000e-004	1.0000e-005	6.8000e-004	0.0000	1.9494	1.9494	4.0000e-005	0.0000	1.9503
Total	8.4000e-004	5.4000e-004	5.9700e-003	2.0000e-005	2.4900e-003	2.0000e-005	2.5000e-003	6.6000e-004	1.0000e-005	6.8000e-004	0.0000	1.9494	1.9494	4.0000e-005	0.0000	1.9503

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

- Increase Density
- Increase Diversity
- Improve Walkability Design
- Improve Destination Accessibility
- Increase Transit Accessibility
- Integrate Below Market Rate Housing
- Improve Pedestrian Network
- Unbundle Parking Cost

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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	0.1653	0.7179	1.7757	6.4100e-003	0.5669	5.2900e-003	0.5722	0.1521	4.9400e-003	0.1571	0.0000	589.1849	589.1849	0.0211	0.0000	589.7123
Unmitigated	0.1736	0.7688	1.9722	7.3300e-003	0.6561	6.0100e-003	0.6621	0.1761	5.6100e-003	0.1817	0.0000	673.9403	673.9403	0.0234	0.0000	674.5254

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	763.35	763.35	763.35	1,763,039	1,523,278
City Park	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	763.35	763.35	763.35	1,763,039	1,523,278

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
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15
Unenclosed Parking with	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.578638	0.038775	0.193686	0.110919	0.015677	0.005341	0.018293	0.026358	0.002641	0.002200	0.005832	0.000891	0.000749
City Park	0.578638	0.038775	0.193686	0.110919	0.015677	0.005341	0.018293	0.026358	0.002641	0.002200	0.005832	0.000891	0.000749
Strip Mall	0.578638	0.038775	0.193686	0.110919	0.015677	0.005341	0.018293	0.026358	0.002641	0.002200	0.005832	0.000891	0.000749
Unenclosed Parking with Elevator	0.578638	0.038775	0.193686	0.110919	0.015677	0.005341	0.018293	0.026358	0.002641	0.002200	0.005832	0.000891	0.000749

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	76.9207	76.9207	6.7800e-003	1.4000e-003	77.5086
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	81.5742	81.5742	7.1900e-003	1.4900e-003	82.1977
NaturalGas Mitigated	4.7200e-003	0.0403	0.0172	2.6000e-004		3.2600e-003	3.2600e-003		3.2600e-003	3.2600e-003	0.0000	46.6841	46.6841	8.9000e-004	8.6000e-004	46.9616
NaturalGas Unmitigated	4.9600e-003	0.0424	0.0181	2.7000e-004		3.4300e-003	3.4300e-003		3.4300e-003	3.4300e-003	0.0000	49.0931	49.0931	9.4000e-004	9.0000e-004	49.3849

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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					
Apartments Mid Rise	916695	4.9400e-003	0.0422	0.0180	2.7000e-004		3.4200e-003	3.4200e-003		3.4200e-003	3.4200e-003	0.0000	48.9183	48.9183	9.4000e-004	9.0000e-004	49.2090
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	3275.2	2.0000e-005	1.6000e-004	1.3000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.1748	0.1748	0.0000	0.0000	0.1758
Unenclosed 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
Total		4.9600e-003	0.0424	0.0181	2.7000e-004		3.4300e-003	3.4300e-003		3.4300e-003	3.4300e-003	0.0000	49.0931	49.0931	9.4000e-004	9.0000e-004	49.3849

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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					
Apartments Mid Rise	871747	4.7000e-003	0.0402	0.0171	2.6000e-004		3.2500e-003	3.2500e-003		3.2500e-003	3.2500e-003	0.0000	46.5197	46.5197	8.9000e-004	8.5000e-004	46.7962
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	3080.82	2.0000e-005	1.5000e-004	1.3000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.1644	0.1644	0.0000	0.0000	0.1654
Unenclosed 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
Total		4.7200e-003	0.0403	0.0172	2.6000e-004		3.2600e-003	3.2600e-003		3.2600e-003	3.2600e-003	0.0000	46.6841	46.6841	8.9000e-004	8.5000e-004	46.9616

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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			
Apartments Mid Rise	443309	66.1156	5.8300e-003	1.2100e-003	66.6209
City Park	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	7461.76	1.1129	1.0000e-004	2.0000e-005	1.1214
Unenclosed Parking with Elevator	96189.1	14.3458	1.2700e-003	2.6000e-004	14.4554
Total		81.5742	7.2000e-003	1.4900e-003	82.1977

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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			
Apartments Mid Rise	421243	62.8247	5.5400e-003	1.1500e-003	63.3048
City Park	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	7002.66	1.0444	9.0000e-005	2.0000e-005	1.0524
Unenclosed Parking with Elevator	87512.2	13.0517	1.1500e-003	2.4000e-004	13.1514
Total		76.9207	6.7800e-003	1.4100e-003	77.5086

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	0.7094	0.0102	0.8559	2.9000e-004		0.0166	0.0166		0.0166	0.0166	1.6377	1.2756	2.9133	8.8900e-003	0.0000	3.1354
Unmitigated	0.7094	0.0102	0.8559	2.9000e-004		0.0166	0.0166		0.0166	0.0166	1.6377	1.2756	2.9133	8.8900e-003	0.0000	3.1354

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	0.1037					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5738					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	8.2600e-003	1.2200e-003	0.0750	2.4000e-004		0.0122	0.0122		0.0122	0.0122	1.6377	0.0000	1.6377	7.6600e-003	0.0000	1.8291
Landscaping	0.0236	9.0000e-003	0.7809	4.0000e-005		4.3200e-003	4.3200e-003		4.3200e-003	4.3200e-003	0.0000	1.2756	1.2756	1.2300e-003	0.0000	1.3064
Total	0.7094	0.0102	0.8559	2.8000e-004		0.0166	0.0166		0.0166	0.0166	1.6377	1.2756	2.9133	8.8900e-003	0.0000	3.1354

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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	0.1037					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5738					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	8.2600e-003	1.2200e-003	0.0750	2.4000e-004		0.0122	0.0122		0.0122	0.0122	1.6377	0.0000	1.6377	7.6600e-003	0.0000	1.8291
Landscaping	0.0236	9.0000e-003	0.7809	4.0000e-005		4.3200e-003	4.3200e-003		4.3200e-003	4.3200e-003	0.0000	1.2756	1.2756	1.2300e-003	0.0000	1.3064
Total	0.7094	0.0102	0.8559	2.8000e-004		0.0166	0.0166		0.0166	0.0166	1.6377	1.2756	2.9133	8.8900e-003	0.0000	3.1354

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	8.7048	0.1803	4.3700e-003	14.5151
Unmitigated	10.2548	0.2253	5.4500e-003	17.5130

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	6.84117 / 4.31291	9.9426	0.2236	5.4100e-003	17.1435
City Park	0 / 0.452763	0.2363	2.0000e-005	0.0000	0.2382
Strip Mall	0.0525915 / 0.0322335	0.0760	1.7200e-003	4.0000e-005	0.1313
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		10.2548	0.2254	5.4500e-003	17.5130

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	5.47294 / 4.31291	8.4043	0.1789	4.3300e-003	14.1685
City Park	0 / 0.452763	0.2363	2.0000e-005	0.0000	0.2382
Strip Mall	0.0420732 / 0.0322335	0.0641	1.3800e-003	3.0000e-005	0.1084
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		8.7048	0.1803	4.3600e-003	14.5151

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2.4907	0.1472	0.0000	6.1706
Unmitigated	9.9628	0.5888	0.0000	24.6824

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	48.3	9.8045	0.5794	0.0000	24.2901
City Park	0.03	6.0900e-003	3.6000e-004	0.0000	0.0151
Strip Mall	0.75	0.1522	9.0000e-003	0.0000	0.3772
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		9.9628	0.5888	0.0000	24.6824

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8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	12.075	2.4511	0.1449	0.0000	6.0725
City Park	0.0075	1.5200e-003	9.0000e-005	0.0000	3.7700e-003
Strip Mall	0.1875	0.0381	2.2500e-003	0.0000	0.0943
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		2.4907	0.1472	0.0000	6.1706

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

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Equipment Type	Number
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11.0 Vegetation

111 Independence Drive Project - Bay Area AQMD Air District, Summer

111 Independence Drive Project
Bay Area AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unenclosed Parking with Elevator	115.00	Space	0.02	49,582.00	0
City Park	0.38	Acre	0.38	16,476.00	0
Apartments Mid Rise	105.00	Dwelling Unit	0.50	145,350.00	300
Strip Mall	0.71	1000sqft	0.02	712.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	5			Operational Year	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	328.8	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

111 Independence Drive Project - Bay Area AQMD Air District, Summer

Project Characteristics - CO2 intensity based on 5-year average (PG&E, 2015)

Land Use - The proposed project would include an 144,599-gross-square-foot (gsf), eight-story multi-family apartment building with 106 dwelling units and a 500-square-foot commercial space, as well as associated open space and parking.

Construction Phase - 21-month construction period

Demolition - The project would include the demolition of the 15,000-square-foot existing building.

Grading - 1,575 cubic yards of soil would be off-hauled and 400 cubic yards of soil would be imported

Vehicle Trips - Based on trip generation prepared for the project.

Energy Use -

Construction Off-road Equipment Mitigation - Assuming compliance with BAAQMD Basic Construction Mitigation Measures and tier 2 construction equipment

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation - Assuming compliance with 2019 Title 24 standards, installation of high efficiency lighting, and energy-efficient appliances

Water Mitigation - Assuming low-flow appliances

Waste Mitigation - Consistent with the CalRecycle Waste Diversion and Recycling Mandate which will reduce solid waste production by 75 percent.

Woodstoves - Assuming no hearth as the proposed project would not increase the demand for natural gas as the City's REACH codes would require the buildings to be all electric.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

111 Independence Drive Project - Bay Area AQMD Air District, Summer

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstructionPhase	NumDays	5.00	130.00
tblConstructionPhase	NumDays	100.00	130.00
tblConstructionPhase	NumDays	10.00	15.00
tblConstructionPhase	NumDays	2.00	30.00
tblConstructionPhase	NumDays	5.00	130.00
tblConstructionPhase	NumDays	1.00	30.00
tblFireplaces	NumberGas	15.75	0.00
tblFireplaces	NumberWood	17.85	0.00
tblGrading	MaterialExported	0.00	1,575.00
tblGrading	MaterialImported	0.00	400.00
tblLandUse	LandUseSquareFeet	46,000.00	49,582.00
tblLandUse	LandUseSquareFeet	16,552.80	16,476.00
tblLandUse	LandUseSquareFeet	105,000.00	145,350.00
tblLandUse	LandUseSquareFeet	710.00	712.00
tblLandUse	LotAcreage	1.03	0.02
tblLandUse	LotAcreage	2.76	0.50

111 Independence Drive Project - Bay Area AQMD Air District, Summer

tblProjectCharacteristics	CO2IntensityFactor	641.35	328.8
tblVehicleTrips	ST_TR	6.39	7.27
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	5.86	7.27
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	6.65	7.27
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	44.32	0.00

2.0 Emissions Summary

111 Independence Drive Project - Bay Area 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					
2021	1.1776	10.4539	10.3544	0.0257	1.1457	0.4578	1.5573	0.4679	0.4214	0.8622	0.0000	2,562.5625	2,562.5625	0.4051	0.0000	2,572.6887
2022	16.2248	9.3557	10.0108	0.0253	1.0033	0.3814	1.3847	0.2695	0.3511	0.6206	0.0000	2,526.8684	2,526.8684	0.4021	0.0000	2,536.9208
2023	16.2077	1.3348	2.2495	4.5100e-003	0.1725	0.0719	0.2444	0.0458	0.0718	0.1175	0.0000	435.5143	435.5143	0.0198	0.0000	436.0102
Maximum	16.2248	10.4539	10.3544	0.0257	1.1457	0.4578	1.5573	0.4679	0.4214	0.8622	0.0000	2,562.5625	2,562.5625	0.4051	0.0000	2,572.6887

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					
2021	0.8730	13.1708	11.0531	0.0257	1.0033	0.4077	1.3990	0.2695	0.4074	0.6646	0.0000	2,562.5625	2,562.5625	0.4051	0.0000	2,572.6887
2022	16.1342	13.0318	10.8205	0.0253	1.0033	0.3950	1.3983	0.2695	0.3944	0.6639	0.0000	2,526.8684	2,526.8684	0.4021	0.0000	2,536.9208
2023	16.1300	2.3843	2.2708	4.5100e-003	0.1725	0.0961	0.2686	0.0458	0.0960	0.1418	0.0000	435.5143	435.5143	0.0198	0.0000	436.0102
Maximum	16.1342	13.1708	11.0531	0.0257	1.0033	0.4077	1.3990	0.2695	0.4074	0.6646	0.0000	2,562.5625	2,562.5625	0.4051	0.0000	2,572.6887

111 Independence Drive Project - Bay Area 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	1.41	-35.20	-6.76	0.00	6.14	1.36	3.78	25.34	-6.34	8.12	0.00	0.00	0.00	0.00	0.00	0.00

111 Independence Drive Project - Bay Area 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	5.1440	0.2732	19.2957	0.0351		1.7804	1.7804		1.7804	1.7804	255.6951	15.6234	271.3185	1.2104	0.0000	301.5782
Energy	0.0272	0.2323	0.0992	1.4800e-003		0.0188	0.0188		0.0188	0.0188		296.5255	296.5255	5.6800e-003	5.4400e-003	298.2876
Mobile	1.0976	4.0957	11.2846	0.0427	3.7453	0.0330	3.7783	1.0020	0.0308	1.0328		4,317.3050	4,317.3050	0.1426		4,320.8707
Total	6.2687	4.6012	30.6796	0.0792	3.7453	1.8321	5.5775	1.0020	1.8299	2.8319	255.6951	4,629.4539	4,885.1489	1.3587	5.4400e-003	4,920.7364

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	5.1440	0.2732	19.2957	0.0351		1.7804	1.7804		1.7804	1.7804	255.6951	15.6234	271.3185	1.2104	0.0000	301.5782
Energy	0.0259	0.2209	0.0944	1.4100e-003		0.0179	0.0179		0.0179	0.0179		281.9750	281.9750	5.4000e-003	5.1700e-003	283.6507
Mobile	1.0506	3.8335	10.0665	0.0373	3.2360	0.0291	3.2651	0.8657	0.0271	0.8928		3,773.6129	3,773.6129	0.1280		3,776.8138
Total	6.2204	4.3276	29.4566	0.0738	3.2360	1.8273	5.0633	0.8657	1.8253	2.6910	255.6951	4,071.2113	4,326.9064	1.3438	5.1700e-003	4,362.0426

111 Independence Drive Project - Bay Area 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	0.77	5.95	3.99	6.88	13.60	0.26	9.22	13.60	0.25	4.97	0.00	12.06	11.43	1.09	4.96	11.35

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	5/3/2021	5/21/2021	5	15	
2	Site Preparation	Site Preparation	5/24/2021	7/2/2021	5	30	
3	Grading	Grading	7/5/2021	8/13/2021	5	30	
4	Building Construction	Building Construction	8/16/2021	2/11/2022	5	130	
5	Paving	Paving	2/14/2022	8/12/2022	5	130	
6	Architectural Coating	Architectural Coating	8/15/2022	2/10/2023	5	130	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.02

Residential Indoor: 294,334; Residential Outdoor: 98,111; Non-Residential Indoor: 1,068; Non-Residential Outdoor: 356; Striped Parking Area: 2,975 (Architectural Coating – sqft)

OffRoad Equipment

111 Independence Drive Project - Bay Area 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	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	68.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	50.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	197.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	104.00	22.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	21.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

111 Independence Drive Project - Bay Area AQMD Air District, Summer

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.9844	0.0000	0.9844	0.1490	0.0000	0.1490			0.0000			0.0000
Off-Road	0.7965	7.2530	7.5691	0.0120		0.4073	0.4073		0.3886	0.3886		1,147.4338	1,147.4338	0.2138		1,152.7797
Total	0.7965	7.2530	7.5691	0.0120	0.9844	0.4073	1.3917	0.1490	0.3886	0.5376		1,147.4338	1,147.4338	0.2138		1,152.7797

111 Independence Drive Project - Bay Area AQMD Air District, Summer

3.2 Demolition - 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	0.0353	1.1995	0.2529	3.5600e-003	0.0792	3.7600e-003	0.0830	0.0217	3.6000e-003	0.0253		380.7591	380.7591	0.0189		381.2314
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	0.0322	0.0188	0.2456	7.9000e-004	0.0822	5.2000e-004	0.0827	0.0218	4.8000e-004	0.0223		79.1960	79.1960	1.7700e-003		79.2402
Total	0.0675	1.2183	0.4985	4.3500e-003	0.1614	4.2800e-003	0.1656	0.0435	4.0800e-003	0.0476		459.9550	459.9550	0.0207		460.4716

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.4430	0.0000	0.4430	0.0671	0.0000	0.0671			0.0000			0.0000
Off-Road	0.4844	10.3677	7.9381	0.0120		0.4017	0.4017		0.4017	0.4017	0.0000	1,147.4338	1,147.4338	0.2138		1,152.7797
Total	0.4844	10.3677	7.9381	0.0120	0.4430	0.4017	0.8447	0.0671	0.4017	0.4688	0.0000	1,147.4338	1,147.4338	0.2138		1,152.7797

111 Independence Drive Project - Bay Area AQMD Air District, Summer

3.2 Demolition - 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	0.0353	1.1995	0.2529	3.5600e-003	0.0792	3.7600e-003	0.0830	0.0217	3.6000e-003	0.0253		380.7591	380.7591	0.0189		381.2314
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	0.0322	0.0188	0.2456	7.9000e-004	0.0822	5.2000e-004	0.0827	0.0218	4.8000e-004	0.0223		79.1960	79.1960	1.7700e-003		79.2402
Total	0.0675	1.2183	0.4985	4.3500e-003	0.1614	4.2800e-003	0.1656	0.0435	4.0800e-003	0.0476		459.9550	459.9550	0.0207		460.4716

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5318	0.0000	0.5318	0.0575	0.0000	0.0575			0.0000			0.0000
Off-Road	0.6403	7.8204	4.0274	9.7300e-003		0.2995	0.2995		0.2755	0.2755		942.5842	942.5842	0.3049		950.2055
Total	0.6403	7.8204	4.0274	9.7300e-003	0.5318	0.2995	0.8312	0.0575	0.2755	0.3330		942.5842	942.5842	0.3049		950.2055

111 Independence Drive Project - Bay Area AQMD Air District, Summer

3.3 Site Preparation - 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	0.0130	0.4410	0.0930	1.3100e-003	0.0291	1.3800e-003	0.0305	7.9800e-003	1.3200e-003	9.3000e-003		139.9850	139.9850	6.9500e-003		140.1586
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	0.0161	9.4000e-003	0.1228	4.0000e-004	0.0411	2.6000e-004	0.0413	0.0109	2.4000e-004	0.0111		39.5980	39.5980	8.9000e-004		39.6201
Total	0.0291	0.4504	0.2158	1.7100e-003	0.0702	1.6400e-003	0.0718	0.0189	1.5600e-003	0.0204		179.5829	179.5829	7.8400e-003		179.7787

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2393	0.0000	0.2393	0.0259	0.0000	0.0259			0.0000			0.0000
Off-Road	0.3079	8.6185	5.8579	9.7300e-003		0.2405	0.2405		0.2405	0.2405	0.0000	942.5842	942.5842	0.3049		950.2055
Total	0.3079	8.6185	5.8579	9.7300e-003	0.2393	0.2405	0.4798	0.0259	0.2405	0.2664	0.0000	942.5842	942.5842	0.3049		950.2055

111 Independence Drive Project - Bay Area AQMD Air District, Summer

3.3 Site Preparation - 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	0.0130	0.4410	0.0930	1.3100e-003	0.0291	1.3800e-003	0.0305	7.9800e-003	1.3200e-003	9.3000e-003		139.9850	139.9850	6.9500e-003		140.1586
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	0.0161	9.4000e-003	0.1228	4.0000e-004	0.0411	2.6000e-004	0.0413	0.0109	2.4000e-004	0.0111		39.5980	39.5980	8.9000e-004		39.6201
Total	0.0291	0.4504	0.2158	1.7100e-003	0.0702	1.6400e-003	0.0718	0.0189	1.5600e-003	0.0204		179.5829	179.5829	7.8400e-003		179.7787

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7587	0.0000	0.7587	0.4147	0.0000	0.4147			0.0000			0.0000
Off-Road	0.7965	7.2530	7.5691	0.0120		0.4073	0.4073		0.3886	0.3886		1,147.4338	1,147.4338	0.2138		1,152.7797
Total	0.7965	7.2530	7.5691	0.0120	0.7587	0.4073	1.1660	0.4147	0.3886	0.8033		1,147.4338	1,147.4338	0.2138		1,152.7797

111 Independence Drive Project - Bay Area AQMD Air District, Summer

3.4 Grading - 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	0.0512	1.7375	0.3663	5.1500e-003	0.1147	5.4500e-003	0.1202	0.0314	5.2100e-003	0.0367		551.5407	551.5407	0.0274		552.2249
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	0.0322	0.0188	0.2456	7.9000e-004	0.0822	5.2000e-004	0.0827	0.0218	4.8000e-004	0.0223		79.1960	79.1960	1.7700e-003		79.2402
Total	0.0833	1.7563	0.6119	5.9400e-003	0.1969	5.9700e-003	0.2028	0.0532	5.6900e-003	0.0589		630.7367	630.7367	0.0291		631.4651

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3414	0.0000	0.3414	0.1866	0.0000	0.1866			0.0000			0.0000
Off-Road	0.4844	10.3677	7.9381	0.0120		0.4017	0.4017		0.4017	0.4017	0.0000	1,147.4338	1,147.4338	0.2138		1,152.7797
Total	0.4844	10.3677	7.9381	0.0120	0.3414	0.4017	0.7431	0.1866	0.4017	0.5883	0.0000	1,147.4338	1,147.4338	0.2138		1,152.7797

111 Independence Drive Project - Bay Area AQMD Air District, Summer

3.4 Grading - 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	0.0512	1.7375	0.3663	5.1500e-003	0.1147	5.4500e-003	0.1202	0.0314	5.2100e-003	0.0367		551.5407	551.5407	0.0274		552.2249
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	0.0322	0.0188	0.2456	7.9000e-004	0.0822	5.2000e-004	0.0827	0.0218	4.8000e-004	0.0223		79.1960	79.1960	1.7700e-003		79.2402
Total	0.0833	1.7563	0.6119	5.9400e-003	0.1969	5.9700e-003	0.2028	0.0532	5.6900e-003	0.0589		630.7367	630.7367	0.0291		631.4651

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	0.7750	7.9850	7.2637	0.0114		0.4475	0.4475		0.4117	0.4117		1,103.2158	1,103.2158	0.3568		1,112.1358
Total	0.7750	7.9850	7.2637	0.0114		0.4475	0.4475		0.4117	0.4117		1,103.2158	1,103.2158	0.3568		1,112.1358

111 Independence Drive Project - Bay Area 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	0.0682	2.2735	0.5361	6.0000e-003	0.1489	4.9300e-003	0.1539	0.0429	4.7100e-003	0.0476		635.7088	635.7088	0.0298		636.4547
Worker	0.3344	0.1954	2.5546	8.2600e-003	0.8543	5.3800e-003	0.8597	0.2266	4.9500e-003	0.2316		823.6379	823.6379	0.0184		824.0982
Total	0.4026	2.4689	3.0907	0.0143	1.0033	0.0103	1.0136	0.2695	9.6600e-003	0.2791		1,459.3467	1,459.3467	0.0483		1,460.5529

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	0.4704	10.7018	7.9624	0.0114		0.3855	0.3855		0.3855	0.3855	0.0000	1,103.2158	1,103.2158	0.3568		1,112.1358
Total	0.4704	10.7018	7.9624	0.0114		0.3855	0.3855		0.3855	0.3855	0.0000	1,103.2158	1,103.2158	0.3568		1,112.1358

111 Independence Drive Project - Bay Area 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	0.0682	2.2735	0.5361	6.0000e-003	0.1489	4.9300e-003	0.1539	0.0429	4.7100e-003	0.0476		635.7088	635.7088	0.0298		636.4547
Worker	0.3344	0.1954	2.5546	8.2600e-003	0.8543	5.3800e-003	0.8597	0.2266	4.9500e-003	0.2316		823.6379	823.6379	0.0184		824.0982
Total	0.4026	2.4689	3.0907	0.0143	1.0033	0.0103	1.0136	0.2695	9.6600e-003	0.2791		1,459.3467	1,459.3467	0.0483		1,460.5529

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422		1,103.9393	1,103.9393	0.3570		1,112.8652
Total	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422		1,103.9393	1,103.9393	0.3570		1,112.8652

111 Independence Drive Project - Bay Area AQMD Air District, Summer

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0636	2.1547	0.5042	5.9400e-003	0.1489	4.2700e-003	0.1532	0.0429	4.0800e-003	0.0470		629.5179	629.5179	0.0285		630.2311
Worker	0.3113	0.1753	2.3539	7.9600e-003	0.8543	5.2500e-003	0.8596	0.2266	4.8400e-003	0.2314		793.4112	793.4112	0.0165		793.8245
Total	0.3749	2.3300	2.8581	0.0139	1.0033	9.5200e-003	1.0128	0.2695	8.9200e-003	0.2784		1,422.9291	1,422.9291	0.0451		1,424.0556

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	0.4704	10.7018	7.9624	0.0114		0.3855	0.3855		0.3855	0.3855	0.0000	1,103.9393	1,103.9393	0.3570		1,112.8652
Total	0.4704	10.7018	7.9624	0.0114		0.3855	0.3855		0.3855	0.3855	0.0000	1,103.9393	1,103.9393	0.3570		1,112.8652

111 Independence Drive Project - Bay Area AQMD Air District, Summer

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0636	2.1547	0.5042	5.9400e-003	0.1489	4.2700e-003	0.1532	0.0429	4.0800e-003	0.0470		629.5179	629.5179	0.0285		630.2311
Worker	0.3113	0.1753	2.3539	7.9600e-003	0.8543	5.2500e-003	0.8596	0.2266	4.8400e-003	0.2314		793.4112	793.4112	0.0165		793.8245
Total	0.3749	2.3300	2.8581	0.0139	1.0033	9.5200e-003	1.0128	0.2695	8.9200e-003	0.2784		1,422.9291	1,422.9291	0.0451		1,424.0556

3.6 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6469	5.9174	7.0348	0.0113		0.2961	0.2961		0.2758	0.2758		1,035.8246	1,035.8246	0.3017		1,043.3677
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6469	5.9174	7.0348	0.0113		0.2961	0.2961		0.2758	0.2758		1,035.8246	1,035.8246	0.3017		1,043.3677

111 Independence Drive Project - Bay Area AQMD Air District, Summer

3.6 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0539	0.0303	0.4074	1.3800e-003	0.1479	9.1000e-004	0.1488	0.0392	8.4000e-004	0.0401		137.3212	137.3212	2.8600e-003		137.3927
Total	0.0539	0.0303	0.4074	1.3800e-003	0.1479	9.1000e-004	0.1488	0.0392	8.4000e-004	0.0401		137.3212	137.3212	2.8600e-003		137.3927

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	0.3954	8.3730	6.9028	0.0113		0.3043	0.3043		0.3043	0.3043	0.0000	1,035.8246	1,035.8246	0.3017		1,043.3677
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.3954	8.3730	6.9028	0.0113		0.3043	0.3043		0.3043	0.3043	0.0000	1,035.8246	1,035.8246	0.3017		1,043.3677

111 Independence Drive Project - Bay Area AQMD Air District, Summer

3.6 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0539	0.0303	0.4074	1.3800e-003	0.1479	9.1000e-004	0.1488	0.0392	8.4000e-004	0.0401		137.3212	137.3212	2.8600e-003		137.3927
Total	0.0539	0.0303	0.4074	1.3800e-003	0.1479	9.1000e-004	0.1488	0.0392	8.4000e-004	0.0401		137.3212	137.3212	2.8600e-003		137.3927

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	15.9574					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	16.1620	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

111 Independence Drive Project - Bay Area AQMD Air District, Summer

3.7 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0629	0.0354	0.4753	1.6100e-003	0.1725	1.0600e-003	0.1736	0.0458	9.8000e-004	0.0467		160.2080	160.2080	3.3400e-003		160.2915
Total	0.0629	0.0354	0.4753	1.6100e-003	0.1725	1.0600e-003	0.1736	0.0458	9.8000e-004	0.0467		160.2080	160.2080	3.3400e-003		160.2915

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	15.9574					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1139	2.3524	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0183		281.9062
Total	16.0713	2.3524	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0183		281.9062

111 Independence Drive Project - Bay Area AQMD Air District, Summer

3.7 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0629	0.0354	0.4753	1.6100e-003	0.1725	1.0600e-003	0.1736	0.0458	9.8000e-004	0.0467		160.2080	160.2080	3.3400e-003		160.2915
Total	0.0629	0.0354	0.4753	1.6100e-003	0.1725	1.0600e-003	0.1736	0.0458	9.8000e-004	0.0467		160.2080	160.2080	3.3400e-003		160.2915

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	15.9574					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	16.1491	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

111 Independence Drive Project - Bay Area AQMD Air District, Summer

3.7 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0587	0.0318	0.4384	1.5400e-003	0.1725	1.0400e-003	0.1736	0.0458	9.6000e-004	0.0467		154.0662	154.0662	3.0000e-003		154.1412
Total	0.0587	0.0318	0.4384	1.5400e-003	0.1725	1.0400e-003	0.1736	0.0458	9.6000e-004	0.0467		154.0662	154.0662	3.0000e-003		154.1412

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	15.9574					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1139	2.3524	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0168		281.8690
Total	16.0713	2.3524	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0168		281.8690

111 Independence Drive Project - Bay Area AQMD Air District, Summer

3.7 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0587	0.0318	0.4384	1.5400e-003	0.1725	1.0400e-003	0.1736	0.0458	9.6000e-004	0.0467		154.0662	154.0662	3.0000e-003		154.1412
Total	0.0587	0.0318	0.4384	1.5400e-003	0.1725	1.0400e-003	0.1736	0.0458	9.6000e-004	0.0467		154.0662	154.0662	3.0000e-003		154.1412

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Walkability Design

Improve Destination Accessibility

Increase Transit Accessibility

Integrate Below Market Rate Housing

Improve Pedestrian Network

Unbundle Parking Cost

111 Independence Drive Project - Bay Area 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	1.0506	3.8335	10.0665	0.0373	3.2360	0.0291	3.2651	0.8657	0.0271	0.8928		3,773.6129	3,773.6129	0.1280		3,776.8138
Unmitigated	1.0976	4.0957	11.2846	0.0427	3.7453	0.0330	3.7783	1.0020	0.0308	1.0328		4,317.3050	4,317.3050	0.1426		4,320.8707

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	763.35	763.35	763.35	1,763,039	1,523,278
City Park	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	763.35	763.35	763.35	1,763,039	1,523,278

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
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15
Unenclosed Parking with	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

111 Independence Drive Project - Bay Area AQMD Air District, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.578638	0.038775	0.193686	0.110919	0.015677	0.005341	0.018293	0.026358	0.002641	0.002200	0.005832	0.000891	0.000749
City Park	0.578638	0.038775	0.193686	0.110919	0.015677	0.005341	0.018293	0.026358	0.002641	0.002200	0.005832	0.000891	0.000749
Strip Mall	0.578638	0.038775	0.193686	0.110919	0.015677	0.005341	0.018293	0.026358	0.002641	0.002200	0.005832	0.000891	0.000749
Unenclosed Parking with Elevator	0.578638	0.038775	0.193686	0.110919	0.015677	0.005341	0.018293	0.026358	0.002641	0.002200	0.005832	0.000891	0.000749

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0259	0.2209	0.0944	1.4100e-003		0.0179	0.0179		0.0179	0.0179		281.9750	281.9750	5.4000e-003	5.1700e-003	283.6507
NaturalGas Unmitigated	0.0272	0.2323	0.0992	1.4800e-003		0.0188	0.0188		0.0188	0.0188		296.5255	296.5255	5.6800e-003	5.4400e-003	298.2876

111 Independence Drive Project - Bay Area 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					
Apartments Mid Rise	2511.49	0.0271	0.2315	0.0985	1.4800e-003		0.0187	0.0187		0.0187	0.0187		295.4698	295.4698	5.6600e-003	5.4200e-003	297.2257
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	8.97315	1.0000e-004	8.8000e-004	7.4000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		1.0557	1.0557	2.0000e-005	2.0000e-005	1.0619
Unenclosed 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
Total		0.0272	0.2323	0.0992	1.4900e-003		0.0188	0.0188		0.0188	0.0188		296.5255	296.5255	5.6800e-003	5.4400e-003	298.2876

111 Independence Drive Project - Bay Area 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					
Apartments Mid Rise	2.38835	0.0258	0.2201	0.0937	1.4000e-003		0.0178	0.0178		0.0178	0.0178		280.9820	280.9820	5.3900e-003	5.1500e-003	282.6518
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.00844061	9.0000e-005	8.3000e-004	7.0000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.9930	0.9930	2.0000e-005	2.0000e-005	0.9989
Unenclosed 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
Total		0.0259	0.2209	0.0944	1.4000e-003		0.0179	0.0179		0.0179	0.0179		281.9750	281.9750	5.4100e-003	5.1700e-003	283.6507

6.0 Area Detail

6.1 Mitigation Measures Area

111 Independence Drive Project - Bay Area 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	5.1440	0.2732	19.2957	0.0351		1.7804	1.7804		1.7804	1.7804	255.6951	15.6234	271.3185	1.2104	0.0000	301.5782
Unmitigated	5.1440	0.2732	19.2957	0.0351		1.7804	1.7804		1.7804	1.7804	255.6951	15.6234	271.3185	1.2104	0.0000	301.5782

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	0.5684					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.1441					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.1693	0.1732	10.6193	0.0347		1.7324	1.7324		1.7324	1.7324	255.6951	0.0000	255.6951	1.1953	0.0000	285.5781
Landscaping	0.2621	0.1000	8.6764	4.6000e-004		0.0480	0.0480		0.0480	0.0480		15.6234	15.6234	0.0151		16.0001
Total	5.1440	0.2732	19.2957	0.0351		1.7804	1.7804		1.7804	1.7804	255.6951	15.6234	271.3185	1.2104	0.0000	301.5782

111 Independence Drive Project - Bay Area 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	0.5684					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.1441					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.1693	0.1732	10.6193	0.0347		1.7324	1.7324		1.7324	1.7324	255.6951	0.0000	255.6951	1.1953	0.0000	285.5781
Landscaping	0.2621	0.1000	8.6764	4.6000e-004		0.0480	0.0480		0.0480	0.0480		15.6234	15.6234	0.0151		16.0001
Total	5.1440	0.2732	19.2957	0.0351		1.7804	1.7804		1.7804	1.7804	255.6951	15.6234	271.3185	1.2104	0.0000	301.5782

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower

8.0 Waste Detail

8.1 Mitigation Measures Waste

- Institute Recycling and Composting Services

111 Independence Drive Project - Bay Area AQMD Air District, Summer

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

Equipment Type	Number
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11.0 Vegetation

111 Independence Drive Project - Bay Area AQMD Air District, Winter

111 Independence Drive Project
Bay Area AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unenclosed Parking with Elevator	115.00	Space	0.02	49,582.00	0
City Park	0.38	Acre	0.38	16,476.00	0
Apartments Mid Rise	105.00	Dwelling Unit	0.50	145,350.00	300
Strip Mall	0.71	1000sqft	0.02	712.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	5			Operational Year	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	328.8	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

111 Independence Drive Project - Bay Area AQMD Air District, Winter

Project Characteristics - CO2 intensity based on 5-year average (PG&E, 2015)

Land Use - The proposed project would include an 144,599-gross-square-foot (gsf), eight-story multi-family apartment building with 106 dwelling units and a 500-square-foot commercial space, as well as associated open space and parking.

Construction Phase - 21-month construction period

Demolition - The project would include the demolition of the 15,000-square-foot existing building.

Grading - 1,575 cubic yards of soil would be off-hauled and 400 cubic yards of soil would be imported

Vehicle Trips - Based on trip generation prepared for the project.

Energy Use -

Construction Off-road Equipment Mitigation - Assuming compliance with BAAQMD Basic Construction Mitigation Measures and tier 2 construction equipment

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation - Assuming compliance with 2019 Title 24 standards, installation of high efficiency lighting, and energy-efficient appliances

Water Mitigation - Assuming low-flow appliances

Waste Mitigation - Consistent with the CalRecycle Waste Diversion and Recycling Mandate which will reduce solid waste production by 75 percent.

Woodstoves - Assuming no hearth as the proposed project would not increase the demand for natural gas as the City's REACH codes would require the buildings to be all electric.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

111 Independence Drive Project - Bay Area AQMD Air District, Winter

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstructionPhase	NumDays	5.00	130.00
tblConstructionPhase	NumDays	100.00	130.00
tblConstructionPhase	NumDays	10.00	15.00
tblConstructionPhase	NumDays	2.00	30.00
tblConstructionPhase	NumDays	5.00	130.00
tblConstructionPhase	NumDays	1.00	30.00
tblFireplaces	NumberGas	15.75	0.00
tblFireplaces	NumberWood	17.85	0.00
tblGrading	MaterialExported	0.00	1,575.00
tblGrading	MaterialImported	0.00	400.00
tblLandUse	LandUseSquareFeet	46,000.00	49,582.00
tblLandUse	LandUseSquareFeet	16,552.80	16,476.00
tblLandUse	LandUseSquareFeet	105,000.00	145,350.00
tblLandUse	LandUseSquareFeet	710.00	712.00
tblLandUse	LotAcreage	1.03	0.02
tblLandUse	LotAcreage	2.76	0.50

111 Independence Drive Project - Bay Area AQMD Air District, Winter

tblProjectCharacteristics	CO2IntensityFactor	641.35	328.8
tblVehicleTrips	ST_TR	6.39	7.27
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	5.86	7.27
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	6.65	7.27
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	44.32	0.00

2.0 Emissions Summary

111 Independence Drive Project - Bay Area 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					
2021	1.2015	10.5194	10.2699	0.0249	1.1457	0.4580	1.5574	0.4679	0.4216	0.8623	0.0000	2,481.5136	2,481.5136	0.4063	0.0000	2,491.6698
2022	16.2287	9.4131	9.9252	0.0245	1.0033	0.3816	1.3849	0.2695	0.3512	0.6207	0.0000	2,448.2886	2,448.2886	0.4032	0.0000	2,458.3697
2023	16.2116	1.3423	2.2179	4.3900e-003	0.1725	0.0719	0.2444	0.0458	0.0718	0.1175	0.0000	423.3825	423.3825	0.0196	0.0000	423.8729
Maximum	16.2287	10.5194	10.2699	0.0249	1.1457	0.4580	1.5574	0.4679	0.4216	0.8623	0.0000	2,481.5136	2,481.5136	0.4063	0.0000	2,491.6698

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					
2021	0.8969	13.2363	10.9687	0.0249	1.0033	0.4078	1.3992	0.2695	0.4075	0.6648	0.0000	2,481.5136	2,481.5136	0.4063	0.0000	2,491.6698
2022	16.1381	13.0892	10.7349	0.0245	1.0033	0.3951	1.3984	0.2695	0.3945	0.6640	0.0000	2,448.2886	2,448.2886	0.4032	0.0000	2,458.3697
2023	16.1339	2.3917	2.2392	4.3900e-003	0.1725	0.0961	0.2686	0.0458	0.0960	0.1418	0.0000	423.3825	423.3825	0.0196	0.0000	423.8729
Maximum	16.1381	13.2363	10.9687	0.0249	1.0033	0.4078	1.3992	0.2695	0.4075	0.6648	0.0000	2,481.5136	2,481.5136	0.4063	0.0000	2,491.6698

111 Independence Drive Project - Bay Area 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	1.41	-34.98	-6.83	0.00	6.14	1.36	3.78	25.34	-6.33	8.12	0.00	0.00	0.00	0.00	0.00	0.00

111 Independence Drive Project - Bay Area 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	5.1440	0.2732	19.2957	0.0351		1.7804	1.7804		1.7804	1.7804	255.6951	15.6234	271.3185	1.2104	0.0000	301.5782
Energy	0.0272	0.2323	0.0992	1.4800e-003		0.0188	0.0188		0.0188	0.0188		296.5255	296.5255	5.6800e-003	5.4400e-003	298.2876
Mobile	0.9445	4.3058	11.3371	0.0399	3.7453	0.0331	3.7785	1.0020	0.0310	1.0329		4,043.354 1	4,043.354 1	0.1453		4,046.985 4
Total	6.1156	4.8113	30.7321	0.0765	3.7453	1.8323	5.5776	1.0020	1.8301	2.8321	255.6951	4,355.503 0	4,611.198 1	1.3613	5.4400e-003	4,646.851 1

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	5.1440	0.2732	19.2957	0.0351		1.7804	1.7804		1.7804	1.7804	255.6951	15.6234	271.3185	1.2104	0.0000	301.5782
Energy	0.0259	0.2209	0.0944	1.4100e-003		0.0179	0.0179		0.0179	0.0179		281.9750	281.9750	5.4000e-003	5.1700e-003	283.6507
Mobile	0.8982	4.0137	10.2533	0.0349	3.2360	0.0292	3.2652	0.8657	0.0273	0.8930		3,533.070 1	3,533.070 1	0.1313		3,536.352 2
Total	6.0680	4.5079	29.6434	0.0714	3.2360	1.8274	5.0634	0.8657	1.8255	2.6912	255.6951	3,830.668 5	4,086.363 6	1.3471	5.1700e-003	4,121.581 1

111 Independence Drive Project - Bay Area 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	0.78	6.31	3.54	6.68	13.60	0.26	9.22	13.60	0.25	4.97	0.00	12.05	11.38	1.05	4.96	11.30

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	5/3/2021	5/21/2021	5	15	
2	Site Preparation	Site Preparation	5/24/2021	7/2/2021	5	30	
3	Grading	Grading	7/5/2021	8/13/2021	5	30	
4	Building Construction	Building Construction	8/16/2021	2/11/2022	5	130	
5	Paving	Paving	2/14/2022	8/12/2022	5	130	
6	Architectural Coating	Architectural Coating	8/15/2022	2/10/2023	5	130	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.02

Residential Indoor: 294,334; Residential Outdoor: 98,111; Non-Residential Indoor: 1,068; Non-Residential Outdoor: 356; Striped Parking Area: 2,975 (Architectural Coating – sqft)

OffRoad Equipment

111 Independence Drive Project - Bay Area 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	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	68.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	50.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	197.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	104.00	22.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	21.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

111 Independence Drive Project - Bay Area AQMD Air District, Winter

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.9844	0.0000	0.9844	0.1490	0.0000	0.1490			0.0000			0.0000
Off-Road	0.7965	7.2530	7.5691	0.0120		0.4073	0.4073		0.3886	0.3886		1,147.4338	1,147.4338	0.2138		1,152.7797
Total	0.7965	7.2530	7.5691	0.0120	0.9844	0.4073	1.3917	0.1490	0.3886	0.5376		1,147.4338	1,147.4338	0.2138		1,152.7797

111 Independence Drive Project - Bay Area AQMD Air District, Winter

3.2 Demolition - 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	0.0363	1.2276	0.2715	3.5000e-003	0.0792	3.8300e-003	0.0830	0.0217	3.6600e-003	0.0254		374.3221	374.3221	0.0198		374.8174
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	0.0341	0.0232	0.2298	7.3000e-004	0.0822	5.2000e-004	0.0827	0.0218	4.8000e-004	0.0223		72.9537	72.9537	1.6500e-003		72.9949
Total	0.0703	1.2508	0.5013	4.2300e-003	0.1614	4.3500e-003	0.1657	0.0435	4.1400e-003	0.0476		447.2758	447.2758	0.0215		447.8124

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.4430	0.0000	0.4430	0.0671	0.0000	0.0671			0.0000			0.0000
Off-Road	0.4844	10.3677	7.9381	0.0120		0.4017	0.4017		0.4017	0.4017	0.0000	1,147.4338	1,147.4338	0.2138		1,152.7797
Total	0.4844	10.3677	7.9381	0.0120	0.4430	0.4017	0.8447	0.0671	0.4017	0.4688	0.0000	1,147.4338	1,147.4338	0.2138		1,152.7797

111 Independence Drive Project - Bay Area AQMD Air District, Winter

3.2 Demolition - 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	0.0363	1.2276	0.2715	3.5000e-003	0.0792	3.8300e-003	0.0830	0.0217	3.6600e-003	0.0254		374.3221	374.3221	0.0198		374.8174
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	0.0341	0.0232	0.2298	7.3000e-004	0.0822	5.2000e-004	0.0827	0.0218	4.8000e-004	0.0223		72.9537	72.9537	1.6500e-003		72.9949
Total	0.0703	1.2508	0.5013	4.2300e-003	0.1614	4.3500e-003	0.1657	0.0435	4.1400e-003	0.0476		447.2758	447.2758	0.0215		447.8124

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5318	0.0000	0.5318	0.0575	0.0000	0.0575			0.0000			0.0000
Off-Road	0.6403	7.8204	4.0274	9.7300e-003		0.2995	0.2995		0.2755	0.2755		942.5842	942.5842	0.3049		950.2055
Total	0.6403	7.8204	4.0274	9.7300e-003	0.5318	0.2995	0.8312	0.0575	0.2755	0.3330		942.5842	942.5842	0.3049		950.2055

111 Independence Drive Project - Bay Area AQMD Air District, Winter

3.3 Site Preparation - 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	0.0133	0.4513	0.0998	1.2900e-003	0.0291	1.4100e-003	0.0305	7.9800e-003	1.3500e-003	9.3300e-003		137.6184	137.6184	7.2800e-003		137.8005
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	0.0170	0.0116	0.1149	3.7000e-004	0.0411	2.6000e-004	0.0413	0.0109	2.4000e-004	0.0111		36.4768	36.4768	8.3000e-004		36.4975
Total	0.0304	0.4629	0.2147	1.6600e-003	0.0702	1.6700e-003	0.0719	0.0189	1.5900e-003	0.0205		174.0953	174.0953	8.1100e-003		174.2980

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2393	0.0000	0.2393	0.0259	0.0000	0.0259			0.0000			0.0000
Off-Road	0.3079	8.6185	5.8579	9.7300e-003		0.2405	0.2405		0.2405	0.2405	0.0000	942.5842	942.5842	0.3049		950.2055
Total	0.3079	8.6185	5.8579	9.7300e-003	0.2393	0.2405	0.4798	0.0259	0.2405	0.2664	0.0000	942.5842	942.5842	0.3049		950.2055

111 Independence Drive Project - Bay Area AQMD Air District, Winter

3.3 Site Preparation - 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	0.0133	0.4513	0.0998	1.2900e-003	0.0291	1.4100e-003	0.0305	7.9800e-003	1.3500e-003	9.3300e-003		137.6184	137.6184	7.2800e-003		137.8005
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	0.0170	0.0116	0.1149	3.7000e-004	0.0411	2.6000e-004	0.0413	0.0109	2.4000e-004	0.0111		36.4768	36.4768	8.3000e-004		36.4975
Total	0.0304	0.4629	0.2147	1.6600e-003	0.0702	1.6700e-003	0.0719	0.0189	1.5900e-003	0.0205		174.0953	174.0953	8.1100e-003		174.2980

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7587	0.0000	0.7587	0.4147	0.0000	0.4147			0.0000			0.0000
Off-Road	0.7965	7.2530	7.5691	0.0120		0.4073	0.4073		0.3886	0.3886		1,147.4338	1,147.4338	0.2138		1,152.7797
Total	0.7965	7.2530	7.5691	0.0120	0.7587	0.4073	1.1660	0.4147	0.3886	0.8033		1,147.4338	1,147.4338	0.2138		1,152.7797

111 Independence Drive Project - Bay Area AQMD Air District, Winter

3.4 Grading - 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	0.0525	1.7782	0.3932	5.0700e-003	0.1147	5.5400e-003	0.1203	0.0314	5.3000e-003	0.0367		542.2166	542.2166	0.0287		542.9341
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	0.0341	0.0232	0.2298	7.3000e-004	0.0822	5.2000e-004	0.0827	0.0218	4.8000e-004	0.0223		72.9537	72.9537	1.6500e-003		72.9949
Total	0.0866	1.8014	0.6230	5.8000e-003	0.1969	6.0600e-003	0.2029	0.0532	5.7800e-003	0.0590		615.1703	615.1703	0.0304		615.9290

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3414	0.0000	0.3414	0.1866	0.0000	0.1866			0.0000			0.0000
Off-Road	0.4844	10.3677	7.9381	0.0120		0.4017	0.4017		0.4017	0.4017	0.0000	1,147.4338	1,147.4338	0.2138		1,152.7797
Total	0.4844	10.3677	7.9381	0.0120	0.3414	0.4017	0.7431	0.1866	0.4017	0.5883	0.0000	1,147.4338	1,147.4338	0.2138		1,152.7797

111 Independence Drive Project - Bay Area AQMD Air District, Winter

3.4 Grading - 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	0.0525	1.7782	0.3932	5.0700e-003	0.1147	5.5400e-003	0.1203	0.0314	5.3000e-003	0.0367		542.2166	542.2166	0.0287		542.9341
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	0.0341	0.0232	0.2298	7.3000e-004	0.0822	5.2000e-004	0.0827	0.0218	4.8000e-004	0.0223		72.9537	72.9537	1.6500e-003		72.9949
Total	0.0866	1.8014	0.6230	5.8000e-003	0.1969	6.0600e-003	0.2029	0.0532	5.7800e-003	0.0590		615.1703	615.1703	0.0304		615.9290

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	0.7750	7.9850	7.2637	0.0114		0.4475	0.4475		0.4117	0.4117		1,103.2158	1,103.2158	0.3568		1,112.1358
Total	0.7750	7.9850	7.2637	0.0114		0.4475	0.4475		0.4117	0.4117		1,103.2158	1,103.2158	0.3568		1,112.1358

111 Independence Drive Project - Bay Area 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	0.0723	2.2931	0.6162	5.8500e-003	0.1489	5.1000e-003	0.1540	0.0429	4.8700e-003	0.0477		619.5797	619.5797	0.0323		620.3867
Worker	0.3543	0.2414	2.3900	7.6100e-003	0.8543	5.3800e-003	0.8597	0.2266	4.9500e-003	0.2316		758.7181	758.7181	0.0172		759.1473
Total	0.4265	2.5345	3.0063	0.0135	1.0033	0.0105	1.0137	0.2695	9.8200e-003	0.2793		1,378.2978	1,378.2978	0.0495		1,379.5340

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	0.4704	10.7018	7.9624	0.0114		0.3855	0.3855		0.3855	0.3855	0.0000	1,103.2158	1,103.2158	0.3568		1,112.1358
Total	0.4704	10.7018	7.9624	0.0114		0.3855	0.3855		0.3855	0.3855	0.0000	1,103.2158	1,103.2158	0.3568		1,112.1358

111 Independence Drive Project - Bay Area 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	0.0723	2.2931	0.6162	5.8500e-003	0.1489	5.1000e-003	0.1540	0.0429	4.8700e-003	0.0477		619.5797	619.5797	0.0323		620.3867
Worker	0.3543	0.2414	2.3900	7.6100e-003	0.8543	5.3800e-003	0.8597	0.2266	4.9500e-003	0.2316		758.7181	758.7181	0.0172		759.1473
Total	0.4265	2.5345	3.0063	0.0135	1.0033	0.0105	1.0137	0.2695	9.8200e-003	0.2793		1,378.2978	1,378.2978	0.0495		1,379.5340

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422		1,103.9393	1,103.9393	0.3570		1,112.8652
Total	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422		1,103.9393	1,103.9393	0.3570		1,112.8652

111 Independence Drive Project - Bay Area AQMD Air District, Winter

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0674	2.1709	0.5793	5.7900e-003	0.1489	4.4300e-003	0.1534	0.0429	4.2300e-003	0.0471		613.4456	613.4456	0.0308		614.2165
Worker	0.3306	0.2164	2.1932	7.3300e-003	0.8543	5.2500e-003	0.8596	0.2266	4.8400e-003	0.2314		730.9037	730.9037	0.0154		731.2880
Total	0.3980	2.3874	2.7725	0.0131	1.0033	9.6800e-003	1.0129	0.2695	9.0700e-003	0.2785		1,344.3493	1,344.3493	0.0462		1,345.5044

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	0.4704	10.7018	7.9624	0.0114		0.3855	0.3855		0.3855	0.3855	0.0000	1,103.9393	1,103.9393	0.3570		1,112.8652
Total	0.4704	10.7018	7.9624	0.0114		0.3855	0.3855		0.3855	0.3855	0.0000	1,103.9393	1,103.9393	0.3570		1,112.8652

111 Independence Drive Project - Bay Area AQMD Air District, Winter

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0674	2.1709	0.5793	5.7900e-003	0.1489	4.4300e-003	0.1534	0.0429	4.2300e-003	0.0471		613.4456	613.4456	0.0308		614.2165
Worker	0.3306	0.2164	2.1932	7.3300e-003	0.8543	5.2500e-003	0.8596	0.2266	4.8400e-003	0.2314		730.9037	730.9037	0.0154		731.2880
Total	0.3980	2.3874	2.7725	0.0131	1.0033	9.6800e-003	1.0129	0.2695	9.0700e-003	0.2785		1,344.3493	1,344.3493	0.0462		1,345.5044

3.6 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6469	5.9174	7.0348	0.0113		0.2961	0.2961		0.2758	0.2758		1,035.8246	1,035.8246	0.3017		1,043.3677
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6469	5.9174	7.0348	0.0113		0.2961	0.2961		0.2758	0.2758		1,035.8246	1,035.8246	0.3017		1,043.3677

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3.6 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0572	0.0375	0.3796	1.2700e-003	0.1479	9.1000e-004	0.1488	0.0392	8.4000e-004	0.0401		126.5026	126.5026	2.6600e-003		126.5691
Total	0.0572	0.0375	0.3796	1.2700e-003	0.1479	9.1000e-004	0.1488	0.0392	8.4000e-004	0.0401		126.5026	126.5026	2.6600e-003		126.5691

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	0.3954	8.3730	6.9028	0.0113		0.3043	0.3043		0.3043	0.3043	0.0000	1,035.8246	1,035.8246	0.3017		1,043.3677
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.3954	8.3730	6.9028	0.0113		0.3043	0.3043		0.3043	0.3043	0.0000	1,035.8246	1,035.8246	0.3017		1,043.3677

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3.6 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0572	0.0375	0.3796	1.2700e-003	0.1479	9.1000e-004	0.1488	0.0392	8.4000e-004	0.0401		126.5026	126.5026	2.6600e-003		126.5691
Total	0.0572	0.0375	0.3796	1.2700e-003	0.1479	9.1000e-004	0.1488	0.0392	8.4000e-004	0.0401		126.5026	126.5026	2.6600e-003		126.5691

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	15.9574					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	16.1620	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

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3.7 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0668	0.0437	0.4429	1.4800e-003	0.1725	1.0600e-003	0.1736	0.0458	9.8000e-004	0.0467		147.5863	147.5863	3.1000e-003		147.6639
Total	0.0668	0.0437	0.4429	1.4800e-003	0.1725	1.0600e-003	0.1736	0.0458	9.8000e-004	0.0467		147.5863	147.5863	3.1000e-003		147.6639

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	15.9574					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1139	2.3524	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0183		281.9062
Total	16.0713	2.3524	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0183		281.9062

111 Independence Drive Project - Bay Area AQMD Air District, Winter

3.7 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0668	0.0437	0.4429	1.4800e-003	0.1725	1.0600e-003	0.1736	0.0458	9.8000e-004	0.0467		147.5863	147.5863	3.1000e-003		147.6639
Total	0.0668	0.0437	0.4429	1.4800e-003	0.1725	1.0600e-003	0.1736	0.0458	9.8000e-004	0.0467		147.5863	147.5863	3.1000e-003		147.6639

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	15.9574					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	16.1491	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

111 Independence Drive Project - Bay Area AQMD Air District, Winter

3.7 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0625	0.0393	0.4067	1.4200e-003	0.1725	1.0400e-003	0.1736	0.0458	9.6000e-004	0.0467		141.9344	141.9344	2.7800e-003		142.0039
Total	0.0625	0.0393	0.4067	1.4200e-003	0.1725	1.0400e-003	0.1736	0.0458	9.6000e-004	0.0467		141.9344	141.9344	2.7800e-003		142.0039

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	15.9574					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1139	2.3524	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0168		281.8690
Total	16.0713	2.3524	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0168		281.8690

111 Independence Drive Project - Bay Area AQMD Air District, Winter

3.7 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0625	0.0393	0.4067	1.4200e-003	0.1725	1.0400e-003	0.1736	0.0458	9.6000e-004	0.0467		141.9344	141.9344	2.7800e-003		142.0039
Total	0.0625	0.0393	0.4067	1.4200e-003	0.1725	1.0400e-003	0.1736	0.0458	9.6000e-004	0.0467		141.9344	141.9344	2.7800e-003		142.0039

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Walkability Design

Improve Destination Accessibility

Increase Transit Accessibility

Integrate Below Market Rate Housing

Improve Pedestrian Network

Unbundle Parking Cost

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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	lb/day										lb/day					
Mitigated	0.8982	4.0137	10.2533	0.0349	3.2360	0.0292	3.2652	0.8657	0.0273	0.8930		3,533.070 1	3,533.070 1	0.1313		3,536.352 2
Unmitigated	0.9445	4.3058	11.3371	0.0399	3.7453	0.0331	3.7785	1.0020	0.0310	1.0329		4,043.354 1	4,043.354 1	0.1453		4,046.985 4

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	763.35	763.35	763.35	1,763,039	1,523,278
City Park	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	763.35	763.35	763.35	1,763,039	1,523,278

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
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15
Unenclosed Parking with	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.578638	0.038775	0.193686	0.110919	0.015677	0.005341	0.018293	0.026358	0.002641	0.002200	0.005832	0.000891	0.000749
City Park	0.578638	0.038775	0.193686	0.110919	0.015677	0.005341	0.018293	0.026358	0.002641	0.002200	0.005832	0.000891	0.000749
Strip Mall	0.578638	0.038775	0.193686	0.110919	0.015677	0.005341	0.018293	0.026358	0.002641	0.002200	0.005832	0.000891	0.000749
Unenclosed Parking with Elevator	0.578638	0.038775	0.193686	0.110919	0.015677	0.005341	0.018293	0.026358	0.002641	0.002200	0.005832	0.000891	0.000749

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0259	0.2209	0.0944	1.4100e-003		0.0179	0.0179		0.0179	0.0179		281.9750	281.9750	5.4000e-003	5.1700e-003	283.6507
NaturalGas Unmitigated	0.0272	0.2323	0.0992	1.4800e-003		0.0188	0.0188		0.0188	0.0188		296.5255	296.5255	5.6800e-003	5.4400e-003	298.2876

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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	lb/day										lb/day					
Apartments Mid Rise	2511.49	0.0271	0.2315	0.0985	1.4800e-003		0.0187	0.0187		0.0187	0.0187		295.4698	295.4698	5.6600e-003	5.4200e-003	297.2257
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	8.97315	1.0000e-004	8.8000e-004	7.4000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		1.0557	1.0557	2.0000e-005	2.0000e-005	1.0619
Unenclosed 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
Total		0.0272	0.2323	0.0992	1.4900e-003		0.0188	0.0188		0.0188	0.0188		296.5255	296.5255	5.6800e-003	5.4400e-003	298.2876

111 Independence Drive Project - Bay Area 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					
Apartments Mid Rise	2.38835	0.0258	0.2201	0.0937	1.4000e-003		0.0178	0.0178		0.0178	0.0178		280.9820	280.9820	5.3900e-003	5.1500e-003	282.6518
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.00844061	9.0000e-005	8.3000e-004	7.0000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.9930	0.9930	2.0000e-005	2.0000e-005	0.9989
Unenclosed 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
Total		0.0259	0.2209	0.0944	1.4000e-003		0.0179	0.0179		0.0179	0.0179		281.9750	281.9750	5.4100e-003	5.1700e-003	283.6507

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	lb/day										lb/day					
Mitigated	5.1440	0.2732	19.2957	0.0351		1.7804	1.7804		1.7804	1.7804	255.6951	15.6234	271.3185	1.2104	0.0000	301.5782
Unmitigated	5.1440	0.2732	19.2957	0.0351		1.7804	1.7804		1.7804	1.7804	255.6951	15.6234	271.3185	1.2104	0.0000	301.5782

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	0.5684					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.1441					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.1693	0.1732	10.6193	0.0347		1.7324	1.7324		1.7324	1.7324	255.6951	0.0000	255.6951	1.1953	0.0000	285.5781
Landscaping	0.2621	0.1000	8.6764	4.6000e-004		0.0480	0.0480		0.0480	0.0480		15.6234	15.6234	0.0151		16.0001
Total	5.1440	0.2732	19.2957	0.0351		1.7804	1.7804		1.7804	1.7804	255.6951	15.6234	271.3185	1.2104	0.0000	301.5782

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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	lb/day										lb/day					
Architectural Coating	0.5684					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.1441					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.1693	0.1732	10.6193	0.0347		1.7324	1.7324		1.7324	1.7324	255.6951	0.0000	255.6951	1.1953	0.0000	285.5781
Landscaping	0.2621	0.1000	8.6764	4.6000e-004		0.0480	0.0480		0.0480	0.0480		15.6234	15.6234	0.0151		16.0001
Total	5.1440	0.2732	19.2957	0.0351		1.7804	1.7804		1.7804	1.7804	255.6951	15.6234	271.3185	1.2104	0.0000	301.5782

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower

8.0 Waste Detail

8.1 Mitigation Measures Waste

- Institute Recycling and Composting Services

111 Independence Drive Project - Bay Area AQMD Air District, Winter

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

Equipment Type	Number
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11.0 Vegetation
