

Appendix E

Greenhouse Gas Calculations

Greenhouse Gas Data

Existing Project Site

676 Mateo - Existing - Los Angeles-South Coast County, Annual

676 Mateo - Existing
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	26.74	1000sqft	1.03	26,740.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	12			Operational Year	2018

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr)	1227.89	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Site is 1.03 acres.
- Construction Phase - Existing only.
- Vehicle Trips - Per traffic study.
- Energy Use -
- Area Mitigation -

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Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	PhaseEndDate	12/10/2018	11/12/2018
tblLandUse	LotAcreage	0.61	1.03
tblVehicleTrips	WD_TR	6.97	6.25

2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**2.2 Overall Operational
Unmitigated Operational**

Category	tons/yr										MT/yr						
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Area	0.1091	0.0000	3.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6.6000e-004	6.6000e-004	0.0000	0.0000	0.0000	7.1000e-004
Energy	2.8500e-003	0.0260	0.0218	1.6000e-004	1.9700e-003	1.9700e-003	1.9700e-003	1.9700e-003	1.9700e-003	1.9700e-003	0.0000	215.0137	215.0137	4.9500e-003	1.4300e-003	0.0000	215.5638
Mobile	0.0639	0.3313	0.9733	2.8300e-003	0.2134	3.4400e-003	0.2168	0.0572	3.2400e-003	0.0604	0.0000	260.2247	260.2247	0.0157	0.0000	0.0000	260.6179
Waste						0.0000	0.0000		0.0000	0.0000	6.7312	0.0000	6.7312	0.3978	0.0000		16.6762
Water						0.0000	0.0000		0.0000	0.0000	1.9618	44.8449	46.8066	0.2026	4.9800e-003		53.3536
Total	0.1758	0.3573	0.9955	2.9900e-003	0.2134	5.4100e-003	0.2188	0.0572	5.2100e-003	0.0624	8.6930	520.0839	528.7768	0.6210	6.4100e-003		546.2122

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2.2 Overall Operational Mitigated Operational

Category	tons/yr											MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Area	0.1091	0.0000	3.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6.6000e-004	6.6000e-004	0.0000	0.0000	0.0000	7.1000e-004
Energy	2.8500e-003	0.0260	0.0218	1.6000e-004	1.9700e-003	1.9700e-003	1.9700e-003	1.9700e-003	1.9700e-003	1.9700e-003	0.0000	215.0137	215.0137	4.9500e-003	1.4300e-003	1.4300e-003	215.5638
Mobile	0.0639	0.3313	0.9733	2.8300e-003	0.2134	3.4400e-003	0.2168	0.0572	3.2400e-003	0.0604	0.0000	260.2247	260.2247	0.0157	0.0000	0.0000	260.6179
Waste						0.0000	0.0000	0.0000	0.0000	0.0000	6.7312	0.0000	6.7312	0.3978	0.0000	0.0000	16.6762
Water						0.0000	0.0000	0.0000	0.0000	0.0000	1.9618	44.8449	46.8066	0.2026	4.9800e-003	4.9800e-003	53.3536
Total	0.1758	0.3573	0.9955	2.9900e-003	0.2134	5.4100e-003	0.2188	0.0572	5.2100e-003	0.0624	8.6930	520.0839	528.7768	0.6210	6.4100e-003	6.4100e-003	546.2122

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	11/13/2018	11/12/2018	5	0	

Acres of Grading (Site Preparation Phase): 0

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Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37

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	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHT

3.1 Mitigation Measures Construction

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3.2 Demolition - 2018

Mitigated Construction On-Site

Category	tons/yr											MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction Off-Site

Category	tons/yr											MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
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	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	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 Operational Detail - Mobile

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4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0639	0.3313	0.9733	2.8300e-003	0.2134	3.4400e-003	0.2168	0.0572	3.2400e-003	0.0604	0.0000	260.2247	260.2247	0.0157	0.0000	260.6179
Unmitigated	0.0639	0.3313	0.9733	2.8300e-003	0.2134	3.4400e-003	0.2168	0.0572	3.2400e-003	0.0604	0.0000	260.2247	260.2247	0.0157	0.0000	260.6179

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	166.99	35.30	18.18	562,035	562,035
Total	166.99	35.30	18.18	562,035	562,035

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
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944

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5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
MT/yr																
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	186.7601	186.7601	4.4100e-003	9.1000e-004	187.1423
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	186.7601	186.7601	4.4100e-003	9.1000e-004	187.1423
NaturalGas Mitigated	2.8500e-003	0.0260	0.0218	1.6000e-004		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003	0.0000	28.2536	28.2536	5.4000e-004	5.2000e-004	28.4215
NaturalGas Unmitigated	2.8500e-003	0.0260	0.0218	1.6000e-004		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003	0.0000	28.2536	28.2536	5.4000e-004	5.2000e-004	28.4215

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5.2 Energy by Land Use - NaturalGas

Unmitigated

Land Use	NaturalGas Use kBTU/yr	tons/yr										MT/yr					
		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
General Light Industry	529452	2.8500e-003	0.0260	0.0218	1.6000e-004	1.9700e-003	1.9700e-003	1.9700e-003	1.9700e-003	1.9700e-003	1.9700e-003	0.0000	28.2536	28.2536	5.4000e-004	5.2000e-004	28.4215
Total		2.8500e-003	0.0260	0.0218	1.6000e-004	1.9700e-003	1.9700e-003	1.9700e-003	1.9700e-003	1.9700e-003	1.9700e-003	0.0000	28.2536	28.2536	5.4000e-004	5.2000e-004	28.4215

Mitigated

Land Use	NaturalGas Use kBTU/yr	tons/yr										MT/yr					
		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
General Light Industry	529452	2.8500e-003	0.0260	0.0218	1.6000e-004	1.9700e-003	1.9700e-003	1.9700e-003	1.9700e-003	1.9700e-003	1.9700e-003	0.0000	28.2536	28.2536	5.4000e-004	5.2000e-004	28.4215
Total		2.8500e-003	0.0260	0.0218	1.6000e-004	1.9700e-003	1.9700e-003	1.9700e-003	1.9700e-003	1.9700e-003	1.9700e-003	0.0000	28.2536	28.2536	5.4000e-004	5.2000e-004	28.4215

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5.3 Energy by Land Use - Electricity

Unmitigated

Land Use	Electricity Use kWh/yr	Total CO2			CO2e
		CH4	N2O	CO2e	
General Light Industry	335320	4.4100e-003	9.1000e-004	187.1423	
Total		4.4100e-003	9.1000e-004	187.1423	

Mitigated

Land Use	Electricity Use kWh/yr	Total CO2			CO2e
		CH4	N2O	CO2e	
General Light Industry	335320	4.4100e-003	9.1000e-004	187.1423	
Total		4.4100e-003	9.1000e-004	187.1423	

6.0 Area Detail

6.1 Mitigation Measures Area

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No Hearths Installed

Category	tons/yr										MT/yr						
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Mitigated	0.1091	0.0000	3.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6.6000e-004	6.6000e-004	0.0000	0.0000	0.0000	7.1000e-004
Unmitigated	0.1091	0.0000	3.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6.6000e-004	6.6000e-004	0.0000	0.0000	0.0000	7.1000e-004

6.2 Area by SubCategory

Unmitigated

SubCategory	tons/yr										MT/yr						
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Architectural Coating	0.0124					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0966					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-005	0.0000	3.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.6000e-004	6.6000e-004	0.0000	0.0000	0.0000	7.1000e-004
Total	0.1090	0.0000	3.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.6000e-004	6.6000e-004	0.0000	0.0000	0.0000	7.1000e-004

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6.2 Area by SubCategory

Mitigated

SubCategory	tons/yr										MT/yr						
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Architectural Coating	0.0124					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0966					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-005	0.0000	3.5000e-004	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6.6000e-004	6.6000e-004	0.0000	0.0000	0.0000	7.1000e-004
Total	0.1090	0.0000	3.5000e-004	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6.6000e-004	6.6000e-004	0.0000	0.0000	0.0000	7.1000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	46.8066	0.2026	4.9800e-003	53.3536
Unmitigated	46.8066	0.2026	4.9800e-003	53.3536

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	6.18363 / 0	46.8066	0.2026	4.9800e-003	53.3536
Total		46.8066	0.2026	4.9800e-003	53.3536

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7.2 Water by Land Use

Mitigated

Land Use	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
	Mgal	MT/yr			
General Light Industry	6.183630	46.8066	0.2026	4.9800e-003	53.3536
Total		46.8066	0.2026	4.9800e-003	53.3536

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

Category/Year	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	6.7312	0.3978	0.0000	16.6762
Unmitigated	6.7312	0.3978	0.0000	16.6762

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8.2 Waste by Land Use

Unmitigated

Land Use	Waste Disposed tons	MT/yr			
		Total CO2	CH4	N2O	CO2e
General Light Industry	33.16	6.7312	0.3978	0.0000	16.6762
Total		6.7312	0.3978	0.0000	16.6762

Mitigated

Land Use	Waste Disposed tons	MT/yr			
		Total CO2	CH4	N2O	CO2e
General Light Industry	33.16	6.7312	0.3978	0.0000	16.6762
Total		6.7312	0.3978	0.0000	16.6762

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

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	3.90	1000sqft	0.00	3,900.00	0
Enclosed Parking with Elevator	270.00	Space	1.03	109,600.00	0
High Turnover (Sit Down Restaurant)	15.01	1000sqft	0.00	15,005.00	0
Apartments Mid Rise	185.00	Dwelling Unit	0.00	170,075.00	448
Regional Shopping Center	8.38	1000sqft	0.00	8,375.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	12			Operational Year	2023
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	1227.89	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 -

Land Use - Site is 1.03 acres. Shopping ctr, restaurant, office and apts all built on top of parking levels. Project footprint is 1.03 ac. 448 residents in 185 DUs.

Construction Phase - Demo starts 2021, build out in 2023. No paving or site prep.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Added an excavator to grading phase. No grader needed. Increased tractor/loader/backhoes to 2.

Off-road Equipment -

Trips and VMT - Hauling distance of 30 miles to Sunshine Canyon.

Demolition - Demo of 26,740 SF of warehouse building and 18,060 SF of parking paving = 44,800 SF.

Grading - Export of 74,500 CY material. Area disturbed = 1.03 ac

Architectural Coating - Per SCAQMD Rule 1113 paints applied to buildings limited to 50g/L VOC content

Vehicle Trips - Weekday trip generation rates per TIA (include TDM and pass-by rdxns). Weekend trip rates from 10th Ed ITE and include same rdxns as weekday. Pass-by trip% for restaurant and shopping ctr divided and added to primary and diverted trip%s.

Woodstoves - No wood-burning appliances.

Area Coating - Per SCAQMD Rule 1113 paints applied to buildings limited to 50g/L VOC content

Sequestration - At least 46 new trees to be planted on-site

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - Project located in DTLA. 185 DU/1.03 ac=179.61 DU/AC. ~82 jobs gen. by project, 82/0.626 ac (27,280 SF) = 131 jobs/jb ac. Mixed use prjct. 0.05 mi to Metro stop @ 7th & Mateo. 11% of DUs v. low income. 39% rdxn in parking spces

Energy Mitigation - Install high efficiency lighting and energy efficient appliances.

Water Mitigation - 20% rdx in indoor water use per Cal Green requirements. Water efficient irrigation/landscaping installed on-site.

Waste Mitigation - 75% diversion in waste per AB 341

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50

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tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	44.00
tblConstructionPhase	NumDays	200.00	435.00
tblConstructionPhase	NumDays	20.00	21.00
tblConstructionPhase	NumDays	4.00	66.00
tblFireplaces	NumberGas	157.25	166.50
tblFireplaces	NumberWood	9.25	0.00
tblGrading	AcresOfGrading	0.00	1.03
tblGrading	MaterialExported	0.00	74,500.00
tblLandUse	LandUseSquareFeet	108,000.00	109,600.00
tblLandUse	LandUseSquareFeet	15,010.00	15,005.00
tblLandUse	LandUseSquareFeet	185,000.00	170,075.00
tblLandUse	LandUseSquareFeet	8,380.00	8,375.00
tblLandUse	LotAcreage	0.09	0.00
tblLandUse	LotAcreage	2.43	1.03
tblLandUse	LotAcreage	0.34	0.00
tblLandUse	LotAcreage	4.87	0.00
tblLandUse	LotAcreage	0.19	0.00
tblLandUse	Population	529.00	448.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblSequestration	NumberOfNewTrees	0.00	46.00
tblTripsAndVMT	HaulingTripLength	20.00	30.00
tblTripsAndVMT	HaulingTripLength	20.00	30.00
tblTripsAndVMT	HaulingTripNumber	9,313.00	9,312.00
tblVehicleTrips	DV_TP	20.00	41.00

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tblVehicleTrips	DV_TP	35.00	40.00
tblVehicleTrips	HO_TTP	40.60	41.00
tblVehicleTrips	HS_TTP	19.20	19.00
tblVehicleTrips	HW_TTP	40.20	40.00
tblVehicleTrips	PB_TP	43.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PR_TP	37.00	59.00
tblVehicleTrips	PR_TP	54.00	60.00
tblVehicleTrips	ST_TR	6.39	5.86
tblVehicleTrips	ST_TR	2.46	1.98
tblVehicleTrips	ST_TR	158.37	70.55
tblVehicleTrips	ST_TR	49.97	16.49
tblVehicleTrips	SU_TR	5.86	4.52
tblVehicleTrips	SU_TR	1.05	0.63
tblVehicleTrips	SU_TR	131.84	82.22
tblVehicleTrips	SU_TR	25.24	7.55
tblVehicleTrips	WD_TR	6.65	5.27
tblVehicleTrips	WD_TR	11.03	8.72
tblVehicleTrips	WD_TR	127.15	64.65
tblVehicleTrips	WD_TR	42.70	13.49
tblWoodstoves	NumberCatalytic	9.25	0.00
tblWoodstoves	NumberNoncatalytic	9.25	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	0.3622	4.0111	2.7653	0.0108	0.5068	0.1012	0.6080	0.1755	0.0962	0.2717	0.0000	1,005.5135	1,005.5135	0.0939	0.0000	1,007.8598
2022	0.9338	2.2444	2.7162	6.9800e-003	0.3126	0.0815	0.3941	0.0838	0.0787	0.1625	0.0000	617.1758	617.1758	0.0561	0.0000	618.5785
2023	0.0152	8.3000e-003	0.0113	3.0000e-005	1.3800e-003	3.0000e-004	1.6800e-003	3.7000e-004	2.9000e-004	6.6000e-004	0.0000	2.5760	2.5760	2.2000e-004	0.0000	2.5814
Maximum	0.9338	4.0111	2.7653	0.0108	0.5068	0.1012	0.6080	0.1755	0.0962	0.2717	0.0000	1,005.5135	1,005.5135	0.0939	0.0000	1,007.8598

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	0.3622	4.0111	2.7653	0.0108	0.3995	0.1012	0.5007	0.1231	0.0962	0.2193	0.0000	1,005.5132	1,005.5132	0.0939	0.0000	1,007.8595
2022	0.9338	2.2444	2.7162	6.9800e-003	0.3126	0.0815	0.3941	0.0838	0.0787	0.1625	0.0000	617.1755	617.1755	0.0561	0.0000	618.5782
2023	0.0152	8.3000e-003	0.0113	3.0000e-005	1.3800e-003	3.0000e-004	1.6800e-003	3.7000e-004	2.9000e-004	6.6000e-004	0.0000	2.5760	2.5760	2.2000e-004	0.0000	2.5814
Maximum	0.9338	4.0111	2.7653	0.0108	0.3995	0.1012	0.5007	0.1231	0.0962	0.2193	0.0000	1,005.5132	1,005.5132	0.0939	0.0000	1,007.8595

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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	0.00	0.00	0.00	0.00	13.07	0.00	10.69	20.19	0.00	12.06	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2021	3-31-2021	1.7371	1.7371
2	4-1-2021	6-30-2021	1.2211	1.2211
3	7-1-2021	9-30-2021	0.6907	0.6907
4	10-1-2021	12-31-2021	0.6956	0.6956
5	1-1-2022	3-31-2022	0.6283	0.6283
6	4-1-2022	6-30-2022	0.6309	0.6309
7	7-1-2022	9-30-2022	0.6378	0.6378
8	10-1-2022	12-31-2022	1.2776	1.2776
9	1-1-2023	3-31-2023	0.0336	0.0336
		Highest	1.7371	1.7371

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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	0.8432	0.0566	1.9268	3.2000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	43.1066	43.1066	3.7800e-003	7.3000e-004	43.4196
Energy	0.0299	0.2660	0.1846	1.6300e-003		0.0207	0.0207		0.0207	0.0207	0.0000	1,531.5187	1,531.5187	0.0349	0.0115	1,535.8065
Mobile	0.5523	2.4755	7.1646	0.0266	2.2503	0.0203	2.2707	0.6032	0.0189	0.6221	0.0000	2,462.4018	2,462.4018	0.1226	0.0000	2,465.4670
Waste						0.0000	0.0000		0.0000	0.0000	56.0560	0.0000	56.0560	3.3128	0.0000	138.8763
Water						0.0000	0.0000		0.0000	0.0000	5.6863	183.7877	189.4740	0.5884	0.0147	208.5606
Total	1.4253	2.7981	9.2760	0.0286	2.2503	0.0544	2.3047	0.6032	0.0529	0.6561	61.7422	4,220.8149	4,282.5571	4.0624	0.0269	4,392.1299

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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	0.8432	0.0566	1.9268	3.2000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	43.1066	43.1066	3.7800e-003	7.3000e-004	43.4196
Energy	0.0299	0.2660	0.1846	1.6300e-003		0.0207	0.0207		0.0207	0.0207	0.0000	1,423.0215	1,423.0215	0.0323	0.0109	1,427.0873
Mobile	0.4715	2.0348	5.1418	0.0179	1.4627	0.0140	1.4767	0.3921	0.0130	0.4051	0.0000	1,656.6475	1,656.6475	0.0868	0.0000	1,658.8180
Waste						0.0000	0.0000		0.0000	0.0000	14.0140	0.0000	14.0140	0.8282	0.0000	34.7191
Water						0.0000	0.0000		0.0000	0.0000	4.5490	157.7909	162.3399	0.4710	0.0118	177.6312
Total	1.3446	2.3574	7.2532	0.0199	1.4627	0.0480	1.5107	0.3921	0.0470	0.4391	18.5630	3,280.5666	3,299.1296	1.4220	0.0235	3,341.6752

	ROG	NOx	CO	SO2	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	5.67	15.75	21.81	30.55	35.00	11.68	34.45	35.00	11.15	33.08	69.93	22.28	22.96	65.00	12.72	23.92

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2.3 Vegetation

Vegetation

	CO2e
Category	MT
New Trees	32.5680
Total	32.5680

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2021	1/29/2021	5	21	
2	Grading	Grading	1/30/2021	5/3/2021	5	66	
3	Building Construction	Building Construction	5/4/2021	1/2/2023	5	435	
4	Architectural Coating	Architectural Coating	11/2/2022	1/2/2023	5	44	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1.03

Acres of Paving: 1.03

Residential Indoor: 344,402; Residential Outdoor: 114,801; Non-Residential Indoor: 40,920; Non-Residential Outdoor: 13,640; Striped Parking Area: 6,576 (Architectural Coating – sqft)

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OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Excavators	1	7.00	158	0.38
Grading	Graders	0	0.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
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	5	13.00	0.00	204.00	14.70	6.90	30.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	9,312.00	14.70	6.90	30.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	189.00	42.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	38.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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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					0.0221	0.0000	0.0221	3.3400e-003	0.0000	3.3400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0209	0.2068	0.1522	2.5000e-004		0.0109	0.0109		0.0102	0.0102	0.0000	22.1249	22.1249	5.6600e-003	0.0000	22.2663
Total	0.0209	0.2068	0.1522	2.5000e-004	0.0221	0.0109	0.0330	3.3400e-003	0.0102	0.0135	0.0000	22.1249	22.1249	5.6600e-003	0.0000	22.2663

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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	1.2000e-003	0.0377	9.1900e-003	1.1000e-004	2.6300e-003	1.2000e-004	2.7500e-003	7.2000e-004	1.2000e-004	8.4000e-004	0.0000	11.1627	11.1627	7.3000e-004	0.0000	11.1811
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.9000e-004	4.6000e-004	5.1600e-003	1.0000e-005	1.5000e-003	1.0000e-005	1.5100e-003	4.0000e-004	1.0000e-005	4.1000e-004	0.0000	1.3499	1.3499	4.0000e-005	0.0000	1.3509
Total	1.7900e-003	0.0381	0.0144	1.2000e-004	4.1300e-003	1.3000e-004	4.2600e-003	1.1200e-003	1.3000e-004	1.2500e-003	0.0000	12.5126	12.5126	7.7000e-004	0.0000	12.5319

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					8.6000e-003	0.0000	8.6000e-003	1.3000e-003	0.0000	1.3000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0209	0.2068	0.1522	2.5000e-004		0.0109	0.0109		0.0102	0.0102	0.0000	22.1249	22.1249	5.6600e-003	0.0000	22.2663
Total	0.0209	0.2068	0.1522	2.5000e-004	8.6000e-003	0.0109	0.0195	1.3000e-003	0.0102	0.0115	0.0000	22.1249	22.1249	5.6600e-003	0.0000	22.2663

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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	1.2000e-003	0.0377	9.1900e-003	1.1000e-004	2.6300e-003	1.2000e-004	2.7500e-003	7.2000e-004	1.2000e-004	8.4000e-004	0.0000	11.1627	11.1627	7.3000e-004	0.0000	11.1811
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.9000e-004	4.6000e-004	5.1600e-003	1.0000e-005	1.5000e-003	1.0000e-005	1.5100e-003	4.0000e-004	1.0000e-005	4.1000e-004	0.0000	1.3499	1.3499	4.0000e-005	0.0000	1.3509
Total	1.7900e-003	0.0381	0.0144	1.2000e-004	4.1300e-003	1.3000e-004	4.2600e-003	1.1200e-003	1.3000e-004	1.2500e-003	0.0000	12.5126	12.5126	7.7000e-004	0.0000	12.5319

3.3 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					0.1538	0.0000	0.1538	0.0826	0.0000	0.0826	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0433	0.4432	0.3249	5.4000e-004		0.0227	0.0227		0.0208	0.0208	0.0000	47.4430	47.4430	0.0153	0.0000	47.8266
Total	0.0433	0.4432	0.3249	5.4000e-004	0.1538	0.0227	0.1765	0.0826	0.0208	0.1035	0.0000	47.4430	47.4430	0.0153	0.0000	47.8266

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3.3 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	0.0549	1.7198	0.4196	5.1800e-003	0.1200	5.6900e-003	0.1257	0.0329	5.4400e-003	0.0384	0.0000	509.5456	509.5456	0.0335	0.0000	510.3825
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4200e-003	1.1100e-003	0.0125	4.0000e-005	3.6200e-003	3.0000e-005	3.6500e-003	9.6000e-004	3.0000e-005	9.9000e-004	0.0000	3.2634	3.2634	1.0000e-004	0.0000	3.2658
Total	0.0564	1.7209	0.4321	5.2200e-003	0.1236	5.7200e-003	0.1293	0.0339	5.4700e-003	0.0394	0.0000	512.8090	512.8090	0.0336	0.0000	513.6483

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0600	0.0000	0.0600	0.0322	0.0000	0.0322	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0433	0.4432	0.3249	5.4000e-004		0.0227	0.0227		0.0208	0.0208	0.0000	47.4430	47.4430	0.0153	0.0000	47.8266
Total	0.0433	0.4432	0.3249	5.4000e-004	0.0600	0.0227	0.0826	0.0322	0.0208	0.0531	0.0000	47.4430	47.4430	0.0153	0.0000	47.8266

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3.3 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	0.0549	1.7198	0.4196	5.1800e-003	0.1200	5.6900e-003	0.1257	0.0329	5.4400e-003	0.0384	0.0000	509.5456	509.5456	0.0335	0.0000	510.3825
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4200e-003	1.1100e-003	0.0125	4.0000e-005	3.6200e-003	3.0000e-005	3.6500e-003	9.6000e-004	3.0000e-005	9.9000e-004	0.0000	3.2634	3.2634	1.0000e-004	0.0000	3.2658
Total	0.0564	1.7209	0.4321	5.2200e-003	0.1236	5.7200e-003	0.1293	0.0339	5.4700e-003	0.0394	0.0000	512.8090	512.8090	0.0336	0.0000	513.6483

3.4 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	0.1577	1.1863	1.1223	1.9200e-003		0.0595	0.0595		0.0575	0.0575	0.0000	157.9464	157.9464	0.0282	0.0000	158.6514
Total	0.1577	1.1863	1.1223	1.9200e-003		0.0595	0.0595		0.0575	0.0575	0.0000	157.9464	157.9464	0.0282	0.0000	158.6514

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3.4 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0114	0.3606	0.0978	9.3000e-004	0.0230	7.4000e-004	0.0238	6.6400e-003	7.0000e-004	7.3500e-003	0.0000	90.0699	90.0699	5.5200e-003	0.0000	90.2080
Worker	0.0708	0.0551	0.6218	1.8000e-003	0.1802	1.4900e-003	0.1817	0.0479	1.3700e-003	0.0492	0.0000	162.6076	162.6076	4.7800e-003	0.0000	162.7273
Total	0.0821	0.4157	0.7196	2.7300e-003	0.2032	2.2300e-003	0.2054	0.0545	2.0700e-003	0.0566	0.0000	252.6775	252.6775	0.0103	0.0000	252.9352

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	0.1577	1.1863	1.1222	1.9200e-003		0.0595	0.0595		0.0575	0.0575	0.0000	157.9463	157.9463	0.0282	0.0000	158.6512
Total	0.1577	1.1863	1.1222	1.9200e-003		0.0595	0.0595		0.0575	0.0575	0.0000	157.9463	157.9463	0.0282	0.0000	158.6512

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3.4 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0114	0.3606	0.0978	9.3000e-004	0.0230	7.4000e-004	0.0238	6.6400e-003	7.0000e-004	7.3500e-003	0.0000	90.0699	90.0699	5.5200e-003	0.0000	90.2080
Worker	0.0708	0.0551	0.6218	1.8000e-003	0.1802	1.4900e-003	0.1817	0.0479	1.3700e-003	0.0492	0.0000	162.6076	162.6076	4.7800e-003	0.0000	162.7273
Total	0.0821	0.4157	0.7196	2.7300e-003	0.2032	2.2300e-003	0.2054	0.0545	2.0700e-003	0.0566	0.0000	252.6775	252.6775	0.0103	0.0000	252.9352

3.4 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	0.2143	1.6254	1.6544	2.8700e-003		0.0766	0.0766		0.0740	0.0740	0.0000	236.0500	236.0500	0.0411	0.0000	237.0778
Total	0.2143	1.6254	1.6544	2.8700e-003		0.0766	0.0766		0.0740	0.0740	0.0000	236.0500	236.0500	0.0411	0.0000	237.0778

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3.4 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	0.0159	0.5119	0.1382	1.3700e-003	0.0344	9.6000e-004	0.0354	9.9300e-003	9.2000e-004	0.0109	0.0000	133.4050	133.4050	7.9700e-003	0.0000	133.6042
Worker	0.0991	0.0743	0.8561	2.5900e-003	0.2692	2.1500e-003	0.2714	0.0715	1.9800e-003	0.0735	0.0000	234.4358	234.4358	6.4600e-003	0.0000	234.5972
Total	0.1151	0.5863	0.9943	3.9600e-003	0.3036	3.1100e-003	0.3067	0.0814	2.9000e-003	0.0843	0.0000	367.8408	367.8408	0.0144	0.0000	368.2015

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	0.2143	1.6254	1.6544	2.8700e-003		0.0766	0.0766		0.0740	0.0740	0.0000	236.0497	236.0497	0.0411	0.0000	237.0775
Total	0.2143	1.6254	1.6544	2.8700e-003		0.0766	0.0766		0.0740	0.0740	0.0000	236.0497	236.0497	0.0411	0.0000	237.0775

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3.4 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	0.0159	0.5119	0.1382	1.3700e-003	0.0344	9.6000e-004	0.0354	9.9300e-003	9.2000e-004	0.0109	0.0000	133.4050	133.4050	7.9700e-003	0.0000	133.6042
Worker	0.0991	0.0743	0.8561	2.5900e-003	0.2692	2.1500e-003	0.2714	0.0715	1.9800e-003	0.0735	0.0000	234.4358	234.4358	6.4600e-003	0.0000	234.5972
Total	0.1151	0.5863	0.9943	3.9600e-003	0.3036	3.1100e-003	0.3067	0.0814	2.9000e-003	0.0843	0.0000	367.8408	367.8408	0.0144	0.0000	368.2015

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.6000e-004	5.8600e-003	6.3100e-003	1.0000e-005		2.6000e-004	2.6000e-004		2.5000e-004	2.5000e-004	0.0000	0.9080	0.9080	1.5000e-004	0.0000	0.9119
Total	7.6000e-004	5.8600e-003	6.3100e-003	1.0000e-005		2.6000e-004	2.6000e-004		2.5000e-004	2.5000e-004	0.0000	0.9080	0.9080	1.5000e-004	0.0000	0.9119

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3.4 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.4900e-003	4.8000e-004	1.0000e-005	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.4970	0.4970	3.0000e-005	0.0000	0.4977
Worker	3.6000e-004	2.6000e-004	3.0300e-003	1.0000e-005	1.0400e-003	1.0000e-005	1.0400e-003	2.8000e-004	1.0000e-005	2.8000e-004	0.0000	0.8687	0.8687	2.0000e-005	0.0000	0.8692
Total	4.1000e-004	1.7500e-003	3.5100e-003	2.0000e-005	1.1700e-003	1.0000e-005	1.1700e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.3657	1.3657	5.0000e-005	0.0000	1.3670

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	7.6000e-004	5.8600e-003	6.3100e-003	1.0000e-005		2.6000e-004	2.6000e-004		2.5000e-004	2.5000e-004	0.0000	0.9080	0.9080	1.5000e-004	0.0000	0.9119
Total	7.6000e-004	5.8600e-003	6.3100e-003	1.0000e-005		2.6000e-004	2.6000e-004		2.5000e-004	2.5000e-004	0.0000	0.9080	0.9080	1.5000e-004	0.0000	0.9119

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3.4 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.4900e-003	4.8000e-004	1.0000e-005	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.4970	0.4970	3.0000e-005	0.0000	0.4977
Worker	3.6000e-004	2.6000e-004	3.0300e-003	1.0000e-005	1.0400e-003	1.0000e-005	1.0400e-003	2.8000e-004	1.0000e-005	2.8000e-004	0.0000	0.8687	0.8687	2.0000e-005	0.0000	0.8692
Total	4.1000e-004	1.7500e-003	3.5100e-003	2.0000e-005	1.1700e-003	1.0000e-005	1.1700e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.3657	1.3657	5.0000e-005	0.0000	1.3670

3.5 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	0.5967					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.4000e-003	0.0303	0.0390	6.0000e-005		1.7600e-003	1.7600e-003		1.7600e-003	1.7600e-003	0.0000	5.4895	5.4895	3.6000e-004	0.0000	5.4984
Total	0.6011	0.0303	0.0390	6.0000e-005		1.7600e-003	1.7600e-003		1.7600e-003	1.7600e-003	0.0000	5.4895	5.4895	3.6000e-004	0.0000	5.4984

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3.5 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	3.3000e-003	2.4700e-003	0.0285	9.0000e-005	8.9500e-003	7.0000e-005	9.0200e-003	2.3800e-003	7.0000e-005	2.4400e-003	0.0000	7.7954	7.7954	2.1000e-004	0.0000	7.8008
Total	3.3000e-003	2.4700e-003	0.0285	9.0000e-005	8.9500e-003	7.0000e-005	9.0200e-003	2.3800e-003	7.0000e-005	2.4400e-003	0.0000	7.7954	7.7954	2.1000e-004	0.0000	7.8008

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	0.5967					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.4000e-003	0.0303	0.0390	6.0000e-005		1.7600e-003	1.7600e-003		1.7600e-003	1.7600e-003	0.0000	5.4895	5.4895	3.6000e-004	0.0000	5.4984
Total	0.6011	0.0303	0.0390	6.0000e-005		1.7600e-003	1.7600e-003		1.7600e-003	1.7600e-003	0.0000	5.4895	5.4895	3.6000e-004	0.0000	5.4984

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3.5 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	3.3000e-003	2.4700e-003	0.0285	9.0000e-005	8.9500e-003	7.0000e-005	9.0200e-003	2.3800e-003	7.0000e-005	2.4400e-003	0.0000	7.7954	7.7954	2.1000e-004	0.0000	7.8008
Total	3.3000e-003	2.4700e-003	0.0285	9.0000e-005	8.9500e-003	7.0000e-005	9.0200e-003	2.3800e-003	7.0000e-005	2.4400e-003	0.0000	7.7954	7.7954	2.1000e-004	0.0000	7.8008

3.5 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	0.0139					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0000e-004	6.5000e-004	9.1000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.1277	0.1277	1.0000e-005	0.0000	0.1279
Total	0.0140	6.5000e-004	9.1000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.1277	0.1277	1.0000e-005	0.0000	0.1279

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3.5 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	7.0000e-005	5.0000e-005	6.1000e-004	0.0000	2.1000e-004	0.0000	2.1000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1747	0.1747	0.0000	0.0000	0.1748
Total	7.0000e-005	5.0000e-005	6.1000e-004	0.0000	2.1000e-004	0.0000	2.1000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1747	0.1747	0.0000	0.0000	0.1748

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	0.0139					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0000e-004	6.5000e-004	9.1000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.1277	0.1277	1.0000e-005	0.0000	0.1279
Total	0.0140	6.5000e-004	9.1000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.1277	0.1277	1.0000e-005	0.0000	0.1279

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3.5 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	7.0000e-005	5.0000e-005	6.1000e-004	0.0000	2.1000e-004	0.0000	2.1000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1747	0.1747	0.0000	0.0000	0.1748
Total	7.0000e-005	5.0000e-005	6.1000e-004	0.0000	2.1000e-004	0.0000	2.1000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1747	0.1747	0.0000	0.0000	0.1748

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Integrate Below Market Rate Housing

Limit Parking Supply

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	0.4715	2.0348	5.1418	0.0179	1.4627	0.0140	1.4767	0.3921	0.0130	0.4051	0.0000	1,656.6475	1,656.6475	0.0868	0.0000	1,658.8180
Unmitigated	0.5523	2.4755	7.1646	0.0266	2.2503	0.0203	2.2707	0.6032	0.0189	0.6221	0.0000	2,462.4018	2,462.4018	0.1226	0.0000	2,465.4670

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	974.95	1,084.47	836.20	3,315,276	2,154,929
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	34.00	7.72	2.44	82,913	53,894
High Turnover (Sit Down Restaurant)	970.32	1,058.96	1234.12	2,267,152	1,473,649
Regional Shopping Center	113.07	138.19	63.27	263,813	171,478
Total	2,092.34	2,289.33	2,136.03	5,929,154	3,853,950

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	14.70	5.90	8.70	40.00	19.00	41.00	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down)	16.60	8.40	6.90	8.50	72.50	19.00	59	41	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	60	40	0

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4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Enclosed Parking with Elevator	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
General Office Building	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
High Turnover (Sit Down Restaurant)	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Regional Shopping Center	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

Install Energy Efficient Appliances

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated							0.0000	0.0000		0.0000	0.0000	1,126.9671	1,126.9671	0.0266	5.5100e-003	1,129.2735
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	1,235.4642	1,235.4642	0.0292	6.0400e-003	1,237.9927
NaturalGas Mitigated	0.0299	0.2660	0.1846	1.6300e-003			0.0207	0.0207		0.0207	0.0000	296.0545	296.0545	5.6700e-003	5.4300e-003	297.8138
NaturalGas Unmitigated	0.0299	0.2660	0.1846	1.6300e-003			0.0207	0.0207		0.0207	0.0000	296.0545	296.0545	5.6700e-003	5.4300e-003	297.8138

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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	2.03096e+006	0.0110	0.0936	0.0398	6.0000e-004		7.5700e-003	7.5700e-003		7.5700e-003	7.5700e-003	0.0000	108.3799	108.3799	2.0800e-003	1.9900e-003	109.0240
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	40599	2.2000e-004	1.9900e-003	1.6700e-003	1.0000e-005		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	2.1665	2.1665	4.0000e-005	4.0000e-005	2.1794
High Turnover (Sit Down Restaurant)	3.46255e+006	0.0187	0.1697	0.1426	1.0200e-003		0.0129	0.0129		0.0129	0.0129	0.0000	184.7751	184.7751	3.5400e-003	3.3900e-003	185.8731
Regional Shopping Center	13735	7.0000e-005	6.7000e-004	5.7000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.7330	0.7330	1.0000e-005	1.0000e-005	0.7373
Total		0.0299	0.2660	0.1846	1.6300e-003		0.0207	0.0207		0.0207	0.0207	0.0000	296.0545	296.0545	5.6700e-003	5.4300e-003	297.8138

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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	2.03096e+006	0.0110	0.0936	0.0398	6.0000e-004		7.5700e-003	7.5700e-003		7.5700e-003	7.5700e-003	0.0000	108.3799	108.3799	2.0800e-003	1.9900e-003	109.0240
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	40599	2.2000e-004	1.9900e-003	1.6700e-003	1.0000e-005		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	2.1665	2.1665	4.0000e-005	4.0000e-005	2.1794
High Turnover (Sit Down Restaurant)	3.46255e+006	0.0187	0.1697	0.1426	1.0200e-003		0.0129	0.0129		0.0129	0.0129	0.0000	184.7751	184.7751	3.5400e-003	3.3900e-003	185.8731
Regional Shopping Center	13735	7.0000e-005	6.7000e-004	5.7000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.7330	0.7330	1.0000e-005	1.0000e-005	0.7373
Total		0.0299	0.2660	0.1846	1.6300e-003		0.0207	0.0207		0.0207	0.0207	0.0000	296.0545	296.0545	5.6700e-003	5.4300e-003	297.8138

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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	749922	417.6775	9.8600e-003	2.0400e-003	418.5323
Enclosed Parking with Elevator	642256	357.7119	8.4500e-003	1.7500e-003	358.4440
General Office Building	50661	28.2162	6.7000e-004	1.4000e-004	28.2740
High Turnover (Sit Down Restaurant)	662321	368.8872	8.7100e-003	1.8000e-003	369.6421
Regional Shopping Center	113063	62.9715	1.4900e-003	3.1000e-004	63.1003
Total		1,235.464 2	0.0292	6.0400e- 003	1,237.992 7

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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	683646	380.7644	8.9900e-003	1.8600e-003	381.5437
Enclosed Parking with Elevator	577044	321.3913	7.5900e-003	1.5700e-003	322.0491
General Office Building	45322.7	25.2430	6.0000e-004	1.2000e-004	25.2947
High Turnover (Sit Down Restaurant)	622170	346.5249	8.1800e-003	1.6900e-003	347.2341
Regional Shopping Center	95237.2	53.0434	1.2500e-003	2.6000e-004	53.1520
Total		1,126.9671	0.0266	5.5000e-003	1,129.2735

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	0.8432	0.0566	1.9268	3.2000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	43.1066	43.1066	3.7800e-003	7.3000e-004	43.4196
Unmitigated	0.8432	0.0566	1.9268	3.2000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	43.1066	43.1066	3.7800e-003	7.3000e-004	43.4196

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	0.0611					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7202					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	4.0400e-003	0.0345	0.0147	2.2000e-004		2.7900e-003	2.7900e-003		2.7900e-003	2.7900e-003	0.0000	39.9828	39.9828	7.7000e-004	7.3000e-004	40.2204
Landscaping	0.0578	0.0220	1.9121	1.0000e-004		0.0106	0.0106		0.0106	0.0106	0.0000	3.1238	3.1238	3.0200e-003	0.0000	3.1992
Total	0.8432	0.0566	1.9268	3.2000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	43.1066	43.1066	3.7900e-003	7.3000e-004	43.4196

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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	0.0611					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7202					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	4.0400e-003	0.0345	0.0147	2.2000e-004		2.7900e-003	2.7900e-003		2.7900e-003	2.7900e-003	0.0000	39.9828	39.9828	7.7000e-004	7.3000e-004	40.2204
Landscaping	0.0578	0.0220	1.9121	1.0000e-004		0.0106	0.0106		0.0106	0.0106	0.0000	3.1238	3.1238	3.0200e-003	0.0000	3.1992
Total	0.8432	0.0566	1.9268	3.2000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	43.1066	43.1066	3.7900e-003	7.3000e-004	43.4196

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Use Water Efficient Irrigation System

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	162.3399	0.4710	0.0118	177.6312
Unmitigated	189.4740	0.5884	0.0147	208.5606

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	12.0535 / 7.59894	138.2594	0.3959	9.9300e-003	151.1173
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	0.693162 / 0.424841	7.8757	0.0228	5.7000e-004	8.6150
High Turnover (Sit Down Restaurant)	4.55604 / 0.290811	36.2862	0.1493	3.6800e-003	41.1136
Regional Shopping Center	0.620728 / 0.380446	7.0527	0.0204	5.1000e-004	7.7147
Total		189.4740	0.5884	0.0147	208.5606

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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	9.6428 / 7.59894	120.0117	0.3170	7.9900e-003	130.3173
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	0.554529 / 0.424841	6.8263	0.0182	4.6000e-004	7.4188
High Turnover (Sit Down Restaurant)	3.64483 / 0.290811	29.3889	0.1194	2.9400e-003	33.2515
Regional Shopping Center	0.496582 / 0.380446	6.1130	0.0163	4.1000e-004	6.6436
Total		162.3399	0.4710	0.0118	177.6312

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	14.0140	0.8282	0.0000	34.7191
Unmitigated	56.0560	3.3128	0.0000	138.8763

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	85.1	17.2745	1.0209	0.0000	42.7969
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	3.63	0.7369	0.0436	0.0000	1.8255
High Turnover (Sit Down Restaurant)	178.62	36.2583	2.1428	0.0000	89.8283
Regional Shopping Center	8.8	1.7863	0.1056	0.0000	4.4255
Total		56.0560	3.3128	0.0000	138.8763

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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	21.275	4.3186	0.2552	0.0000	10.6992
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	0.9075	0.1842	0.0109	0.0000	0.4564
High Turnover (Sit Down Restaurant)	44.655	9.0646	0.5357	0.0000	22.4571
Regional Shopping Center	2.2	0.4466	0.0264	0.0000	1.1064
Total		14.0140	0.8282	0.0000	34.7191

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

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	32.5680	0.0000	0.0000	32.5680

11.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	46	32.5680	0.0000	0.0000	32.5680
Total		32.5680	0.0000	0.0000	32.5680

676 Mateo VMT based mobile source only - Los Angeles-South Coast County, Annual

676 Mateo VMT based mobile source only
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Commercial	1,000.00	User Defined Unit	1.03	1,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	12			Operational Year	2023
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	1227.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Run for VMT-based mobile source emissions only
 Land Use - Generic landuse of 1,000 SF for VMT calc use
 Construction Phase -
 Off-road Equipment -
 Trips and VMT -
 Demolition -
 Grading -
 Architectural Coating -
 Vehicle Trips - 2,191 trips no mitigation = 2.191 trips per TSF. Trip length of 6.704701

- Woodstoves -
- Area Coating -
- Energy Use -
- Sequestration -
- Mobile Land Use Mitigation -
- Energy Mitigation -
- Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	0.00	1,000.00
tblLandUse	LotAcreage	0.00	1.03
tblVehicleTrips	CC_TL	8.40	6.70
tblVehicleTrips	CC_TTP	0.00	100.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	WD_TR	0.00	2.19

2.0 Emissions Summary

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					
Mobile	0.3852	1.7062	4.7423	0.0173	1.4496	0.0133	1.4629	0.3886	0.0124	0.4009	0.0000	1,600.9070	1,600.9070	0.0809	0.0000	1,602.9281

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					
Mobile	0.3852	1.7062	4.7423	0.0173	1.4496	0.0133	1.4629	0.3886	0.0124	0.4009	0.0000	1,600.9070	1,600.9070	0.0809	0.0000	1,602.9281

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3852	1.7062	4.7423	0.0173	1.4496	0.0133	1.4629	0.3886	0.0124	0.4009	0.0000	1,600.9070	1,600.9070	0.0809	0.0000	1,602.9281
Unmitigated	0.3852	1.7062	4.7423	0.0173	1.4496	0.0133	1.4629	0.3886	0.0124	0.4009	0.0000	1,600.9070	1,600.9070	0.0809	0.0000	1,602.9281

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Commercial	2,191.00	0.00	0.00	3,819,400	3,819,400
Total	2,191.00	0.00	0.00	3,819,400	3,819,400

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Commercial	0.00	6.70	0.00	0.00	100.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Commercial	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862

676 Mateo VMT based mobile source only with TDM - Los Angeles-South Coast County, Annual

676 Mateo VMT based mobile source only with TDM
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Commercial	1,000.00	User Defined Unit	1.03	1,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	12	Operational Year		2023	
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	1227.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Run for VMT-based mobile source emissions only with TDM
 Land Use - Generic landuse of 1,000 SF for VMT calc use
 Construction Phase -
 Off-road Equipment -
 Grading -
 Demolition -
 Trips and VMT -
 Architectural Coating -
 Vehicle Trips - 2140 trips with TDM = 2.14 trips per TSF. Trip length of 6.7

- Woodstoves -
- Area Coating -
- Energy Use -
- Sequestration -
- Mobile Land Use Mitigation -
- Energy Mitigation -
- Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	0.00	1,000.00
tblLandUse	LotAcreage	0.00	1.03
tblVehicleTrips	CC_TL	8.40	6.70
tblVehicleTrips	CC_TTP	0.00	100.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	WD_TR	0.00	2.14

2.0 Emissions Summary

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					
Mobile	0.3762	1.6659	4.6293	0.0169	1.4149	0.0130	1.4278	0.3793	0.0121	0.3913	0.0000	1,562.6270	1,562.6270	0.0789	0.0000	1,564.6000
												0				0

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					
Mobile	0.3762	1.6659	4.6293	0.0169	1.4149	0.0130	1.4278	0.3793	0.0121	0.3913	0.0000	1,562.6270	1,562.6270	0.0789	0.0000	1,564.6000
												0				0

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3762	1.6659	4.6293	0.0169	1.4149	0.0130	1.4278	0.3793	0.0121	0.3913	0.0000	1,562.6270	1,562.6270	0.0789	0.0000	1,564.6000
												0				0
Unmitigated	0.3762	1.6659	4.6293	0.0169	1.4149	0.0130	1.4278	0.3793	0.0121	0.3913	0.0000	1,562.6270	1,562.6270	0.0789	0.0000	1,564.6000
												0				0

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Commercial	2,140.00	0.00	0.00	3,727,880	3,727,880
Total	2,140.00	0.00	0.00	3,727,880	3,727,880

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
User Defined Commercial	0.00	6.70	0.00	0.00	100.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Commercial	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862

676 Mateo St weekend traffic only - Los Angeles-South Coast County, Annual

676 Mateo St weekend traffic only
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	3.90	1000sqft	0.00	3,900.00	0
Enclosed Parking with Elevator	270.00	Space	1.03	109,600.00	0
High Turnover (Sit Down Restaurant)	15.01	1000sqft	0.00	15,005.00	0
Apartments Mid Rise	185.00	Dwelling Unit	0.00	170,075.00	448
Regional Shopping Center	8.38	1000sqft	0.00	8,375.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	12	Operational Year	2023		
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	1227.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Weekend traffic only

Land Use - Site is 1.03 acres. Shopping ctr, restaurant, office and apts all built on top of parking levels. Project footprint is 1.03 ac. 448 residents in 185 DUs.

Construction Phase - Demo starts 2021, build out in 2023. No paving or site prep.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Added an excavator to grading phase. No grader needed. Increased tractor/loader/backhoe to 2.

Off-road Equipment -

Trips and VMT - Export distance of 30 miles to Sunshine Canyon.

Demolition - Demo of 26,740 SF of warehouse building and 18,060 SF of parking paving = 44,800 SF.

Grading - Export of 74,500 CY material

Architectural Coating - Per SCAQMD Rule 1113 paints applied to buildings limited to 50g/L VOC content

Vehicle Trips - Weekend trip generation rates per 10th Ed ITE. Trip gen rates have same TDM discounts (per TIA) as weekday. Pass-by % for restaurant and retail divided and added to primary/divert trip %

Woodstoves - No wood-burning appliances.

Area Coating - Per SCAQMD Rule 1113 paints applied to buildings limited to 50g/L VOC content

Sequestration - At least 46 new trees to be planted on-site

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - Project located in DTLA. 185 DU/1.03 ac=179.61 DU/AC. ~82 jobs gen. by project, 82/0.626 ac (27,280 SF) = 131 jobs/jb ac. Mixed use prjct. 0.05 mi to Metro stop @ 7th & Mateo. 11% of DUs v. low income. 39% rdxn in parking spces

Energy Mitigation - Install high efficiecnly lighting and energy efficient appliances.

Water Mitigation - 20% rdx in indoor water use per Cal Green requirements. Water efficient irrigation/landscaping planted on-site.

Waste Mitigation - 75% diversion in waste per AB 341

Energy Use -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	44.00
tblConstructionPhase	NumDays	200.00	435.00
tblConstructionPhase	NumDays	20.00	21.00
tblConstructionPhase	NumDays	4.00	66.00
tblFireplaces	NumberGas	157.25	166.50
tblFireplaces	NumberWood	9.25	0.00

tblGrading	AcresOfGrading	0.00	24.75
tblGrading	MaterialExported	0.00	74,500.00
tblLandUse	LandUseSquareFeet	108,000.00	109,600.00
tblLandUse	LandUseSquareFeet	15,010.00	15,005.00
tblLandUse	LandUseSquareFeet	185,000.00	170,075.00
tblLandUse	LandUseSquareFeet	8,380.00	8,375.00
tblLandUse	LotAcreage	0.09	0.00
tblLandUse	LotAcreage	2.43	1.03
tblLandUse	LotAcreage	0.34	0.00
tblLandUse	LotAcreage	4.87	0.00
tblLandUse	LotAcreage	0.19	0.00
tblLandUse	Population	529.00	448.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblSequestration	NumberOfNewTrees	0.00	46.00
tblTripsAndVMT	HaulingTripLength	20.00	30.00
tblTripsAndVMT	HaulingTripLength	20.00	30.00
tblTripsAndVMT	HaulingTripNumber	9,313.00	9,312.00
tblVehicleTrips	DV_TP	20.00	41.00
tblVehicleTrips	DV_TP	35.00	40.00
tblVehicleTrips	HO_TTP	40.60	41.00
tblVehicleTrips	HS_TTP	19.20	19.00
tblVehicleTrips	HW_TTP	40.20	40.00
tblVehicleTrips	PB_TP	43.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PR_TP	37.00	59.00
tblVehicleTrips	PR_TP	54.00	60.00
tblVehicleTrips	ST_TR	6.39	5.86
tblVehicleTrips	ST_TR	2.46	1.98

tblVehicleTrips	ST_TR	158.37	70.55
tblVehicleTrips	ST_TR	49.97	16.49
tblVehicleTrips	SU_TR	5.86	4.52
tblVehicleTrips	SU_TR	1.05	0.63
tblVehicleTrips	SU_TR	131.84	82.22
tblVehicleTrips	SU_TR	25.24	7.55
tblVehicleTrips	WD_TR	6.65	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	127.15	0.00
tblVehicleTrips	WD_TR	42.70	0.00
tblWoodstoves	NumberCatalytic	9.25	0.00
tblWoodstoves	NumberNoncatalytic	9.25	0.00

2.0 Emissions Summary

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					
Mobile	0.1632	0.7308	2.1063	7.8200e-003	0.6598	5.9700e-003	0.6658	0.1769	5.5500e-003	0.1824	0.0000	722.6465	722.6465	0.0360	0.0000	723.5473

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Unmitigated	0.1632	0.7308	2.1063	7.8200e-003	0.6598	5.9700e-003	0.6658	0.1769	5.5500e-003	0.1824	0.0000	722.6465	722.6465	0.0360	0.0000	723.5473

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	0.00	1,084.10	836.20	936,855	608,956
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	0.00	7.72	2.46	4,684	3,045
High Turnover (Sit Down Restaurant)	0.00	1,058.96	1234.12	727,640	472,966
Regional Shopping Center	0.00	138.19	63.27	69,308	45,050
Total	0.00	2,288.96	2,136.05	1,738,488	1,130,017

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.00	19.00	41.00	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down)	16.60	8.40	6.90	8.50	72.50	19.00	59	41	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	60	40	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Enclosed Parking with Elevator	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
General Office Building	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
High Turnover (Sit Down Restaurant)	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Regional Shopping Center	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862

676 Mateo St Alternative - Los Angeles-South Coast County, Annual

676 Mateo St Alternative
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	26.09	1000sqft	0.00	26,093.00	0
Enclosed Parking with Elevator	274.00	Space	1.03	109,600.00	0
High Turnover (Sit Down Restaurant)	15.01	1000sqft	0.00	15,005.00	0
Apartments Mid Rise	159.00	Dwelling Unit	0.00	147,882.00	385
Regional Shopping Center	8.38	1000sqft	0.00	8,375.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	12			Operational Year	2023
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	1227.89	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 -

Land Use - Site is 1.03 acres. Shopping ctr, restaurant, office and live-work office (combined under gen off) and apts all built on top of parking levels. Project footprint is 1.03 ac. 385 residents in 159 DUs.

Construction Phase - Demo starts 2021, build out in 2023. No paving or site prep.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Added an excavator to grading phase. No grader needed. Increased tractor/loader/backhoes to 2.

Off-road Equipment -

Trips and VMT - Hauling distance of 30 miles to Sunshine Canyon.

Demolition - Demo of 26,740 SF of warehouse building and 18,060 SF of parking paving = 44,800 SF.

Grading - Export of 74,500 CY material. Area disturbed = 1.03 ac

Architectural Coating - Per SCAQMD Rule 1113 paints applied to buildings limited to 50g/L VOC content

Vehicle Trips - Weekday trip generation rates per TIA (include TDM and pass-by rdxns). Weekend trip rates from 10th Ed ITE and include same rdxns as weekday. Pass-by trip% for restaurant and shopping ctr divided and added to primary and diverted trip%s.

Woodstoves - No wood-burning appliances.

Area Coating - Per SCAQMD Rule 1113 paints applied to buildings limited to 50g/L VOC content

Sequestration - At least 46 new trees to be planted on-site

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - Project located in DTLA. 159 DU/1.03 ac=154 DU/AC. ~141 jobs gen. by project, 141/1.14 ac (49,473SF) = 124 jobs/jb ac. Mixed use prjct. 0.05 mi to Metro stop @ 7th & Mateo. 11% of DUs v. low income. 39% rdxn in parking spces

Energy Mitigation - Install high efficiency lighting and energy efficient appliances.

Water Mitigation - 20% rdx in indoor water use per Cal Green requirements. Water efficient irrigation/landscaping installed on-site.

Waste Mitigation - 75% diversion in waste per AB 341

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50

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tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	44.00
tblConstructionPhase	NumDays	200.00	435.00
tblConstructionPhase	NumDays	20.00	21.00
tblConstructionPhase	NumDays	4.00	66.00
tblFireplaces	NumberGas	135.15	143.10
tblFireplaces	NumberWood	7.95	0.00
tblGrading	AcresOfGrading	0.00	1.03
tblGrading	MaterialExported	0.00	74,500.00
tblLandUse	LandUseSquareFeet	15,010.00	15,005.00
tblLandUse	LandUseSquareFeet	159,000.00	147,882.00
tblLandUse	LandUseSquareFeet	8,380.00	8,375.00
tblLandUse	LotAcreage	0.60	0.00
tblLandUse	LotAcreage	2.47	1.03
tblLandUse	LotAcreage	0.34	0.00
tblLandUse	LotAcreage	4.18	0.00
tblLandUse	LotAcreage	0.19	0.00
tblLandUse	Population	455.00	385.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblSequestration	NumberOfNewTrees	0.00	46.00
tblTripsAndVMT	HaulingTripLength	20.00	30.00
tblTripsAndVMT	HaulingTripLength	20.00	30.00
tblVehicleTrips	DV_TP	20.00	41.00
tblVehicleTrips	DV_TP	35.00	40.00
tblVehicleTrips	HO_TTP	40.60	41.00

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tblVehicleTrips	HS_TTP	19.20	19.00
tblVehicleTrips	HW_TTP	40.20	40.00
tblVehicleTrips	PB_TP	43.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PR_TP	37.00	59.00
tblVehicleTrips	PR_TP	54.00	60.00
tblVehicleTrips	ST_TR	6.39	5.86
tblVehicleTrips	ST_TR	2.46	1.98
tblVehicleTrips	ST_TR	158.37	70.55
tblVehicleTrips	ST_TR	49.97	16.49
tblVehicleTrips	SU_TR	5.86	4.52
tblVehicleTrips	SU_TR	1.05	0.63
tblVehicleTrips	SU_TR	131.84	82.22
tblVehicleTrips	SU_TR	25.24	7.55
tblVehicleTrips	WD_TR	6.65	5.27
tblVehicleTrips	WD_TR	11.03	8.72
tblVehicleTrips	WD_TR	127.15	64.64
tblVehicleTrips	WD_TR	42.70	13.49
tblWoodstoves	NumberCatalytic	7.95	0.00
tblWoodstoves	NumberNoncatalytic	7.95	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	0.3584	4.0166	2.7315	0.0107	0.4969	0.1011	0.5980	0.1729	0.0961	0.2690	0.0000	998.2488	998.2488	0.0937	0.0000	1,000.5915
2022	0.9106	2.2522	2.6682	6.8600e-003	0.2973	0.0814	0.3787	0.0798	0.0786	0.1583	0.0000	606.2974	606.2974	0.0559	0.0000	607.6952
2023	0.0148	8.3200e-003	0.0111	3.0000e-005	1.3100e-003	3.0000e-004	1.6100e-003	3.5000e-004	2.9000e-004	6.4000e-004	0.0000	2.5281	2.5281	2.1000e-004	0.0000	2.5335
Maximum	0.9106	4.0166	2.7315	0.0107	0.4969	0.1011	0.5980	0.1729	0.0961	0.2690	0.0000	998.2488	998.2488	0.0937	0.0000	1,000.5915

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	0.3584	4.0166	2.7315	0.0107	0.3896	0.1011	0.4907	0.1204	0.0961	0.2166	0.0000	998.2485	998.2485	0.0937	0.0000	1,000.5913
2022	0.9106	2.2522	2.6682	6.8600e-003	0.2973	0.0814	0.3787	0.0798	0.0786	0.1583	0.0000	606.2971	606.2971	0.0559	0.0000	607.6949
2023	0.0148	8.3200e-003	0.0111	3.0000e-005	1.3100e-003	3.0000e-004	1.6100e-003	3.5000e-004	2.9000e-004	6.4000e-004	0.0000	2.5281	2.5281	2.1000e-004	0.0000	2.5335
Maximum	0.9106	4.0166	2.7315	0.0107	0.3896	0.1011	0.4907	0.1204	0.0961	0.2166	0.0000	998.2485	998.2485	0.0937	0.0000	1,000.5913

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	13.49	0.00	10.97	20.73	0.00	12.25	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2021	3-31-2021	1.7373	1.7373
2	4-1-2021	6-30-2021	1.2216	1.2216
3	7-1-2021	9-30-2021	0.6914	0.6914
4	10-1-2021	12-31-2021	0.6960	0.6960
5	1-1-2022	3-31-2022	0.6288	0.6288
6	4-1-2022	6-30-2022	0.6316	0.6316
7	7-1-2022	9-30-2022	0.6385	0.6385
8	10-1-2022	12-31-2022	1.2602	1.2602
9	1-1-2023	3-31-2023	0.0330	0.0330
		Highest	1.7373	1.7373

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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	0.8328	0.0486	1.6568	2.8000e-004		0.0115	0.0115		0.0115	0.0115	0.0000	37.0501	37.0501	3.2600e-003	6.3000e-004	37.3192
Energy	0.0296	0.2642	0.1886	1.6200e-003		0.0205	0.0205		0.0205	0.0205	0.0000	1,630.4797	1,630.4797	0.0372	0.0119	1,634.9587
Mobile	0.5540	2.4825	7.1767	0.0267	2.2525	0.0203	2.2729	0.6038	0.0189	0.6227	0.0000	2,465.3808	2,465.3808	0.1228	0.0000	2,468.4508
Waste						0.0000	0.0000		0.0000	0.0000	57.8159	0.0000	57.8159	3.4168	0.0000	143.2364
Water						0.0000	0.0000		0.0000	0.0000	6.4001	208.4536	214.8537	0.6623	0.0165	236.3394
Total	1.4164	2.7952	9.0220	0.0286	2.2525	0.0523	2.3048	0.6038	0.0509	0.6547	64.2160	4,341.3642	4,405.5801	4.2424	0.0291	4,520.3045

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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	0.8328	0.0486	1.6568	2.8000e-004		0.0115	0.0115		0.0115	0.0115	0.0000	37.0501	37.0501	3.2600e-003	6.3000e-004	37.3192
Energy	0.0296	0.2642	0.1886	1.6200e-003		0.0205	0.0205		0.0205	0.0205	0.0000	1,510.2511	1,510.2511	0.0344	0.0113	1,514.4840
Mobile	0.4731	2.0413	5.1519	0.0179	1.4641	0.0140	1.4781	0.3925	0.0130	0.4055	0.0000	1,658.8466	1,658.8466	0.0870	0.0000	1,661.0211
Waste						0.0000	0.0000		0.0000	0.0000	14.4540	0.0000	14.4540	0.8542	0.0000	35.8091
Water						0.0000	0.0000		0.0000	0.0000	5.1201	179.1934	184.3135	0.5301	0.0133	201.5275
Total	1.3355	2.3541	6.9973	0.0198	1.4641	0.0460	1.5101	0.3925	0.0450	0.4374	19.5740	3,385.3412	3,404.9152	1.5089	0.0252	3,450.1609

	ROG	NOx	CO	SO2	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	5.71	15.78	22.44	30.57	35.00	12.14	34.48	35.00	11.62	33.18	69.52	22.02	22.71	64.43	13.20	23.67

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2.3 Vegetation

Vegetation

	CO2e
Category	MT
New Trees	32.5680
Total	32.5680

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2021	1/29/2021	5	21	
2	Grading	Grading	1/30/2021	5/3/2021	5	66	
3	Building Construction	Building Construction	5/4/2021	1/2/2023	5	435	
4	Architectural Coating	Architectural Coating	11/2/2022	1/2/2023	5	44	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1.03

Acres of Paving: 1.03

Residential Indoor: 299,461; Residential Outdoor: 99,820; Non-Residential Indoor: 74,210; Non-Residential Outdoor: 24,737; Striped Parking Area: 6,576 (Architectural Coating – sqft)

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OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Excavators	1	7.00	158	0.38
Grading	Graders	0	0.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
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	5	13.00	0.00	204.00	14.70	6.90	30.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	9,313.00	14.70	6.90	30.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	178.00	43.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	36.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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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					0.0221	0.0000	0.0221	3.3400e-003	0.0000	3.3400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0209	0.2068	0.1522	2.5000e-004		0.0109	0.0109		0.0102	0.0102	0.0000	22.1249	22.1249	5.6600e-003	0.0000	22.2663
Total	0.0209	0.2068	0.1522	2.5000e-004	0.0221	0.0109	0.0330	3.3400e-003	0.0102	0.0135	0.0000	22.1249	22.1249	5.6600e-003	0.0000	22.2663

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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	1.2000e-003	0.0377	9.1900e-003	1.1000e-004	2.6300e-003	1.2000e-004	2.7500e-003	7.2000e-004	1.2000e-004	8.4000e-004	0.0000	11.1627	11.1627	7.3000e-004	0.0000	11.1811
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.9000e-004	4.6000e-004	5.1600e-003	1.0000e-005	1.5000e-003	1.0000e-005	1.5100e-003	4.0000e-004	1.0000e-005	4.1000e-004	0.0000	1.3499	1.3499	4.0000e-005	0.0000	1.3509
Total	1.7900e-003	0.0381	0.0144	1.2000e-004	4.1300e-003	1.3000e-004	4.2600e-003	1.1200e-003	1.3000e-004	1.2500e-003	0.0000	12.5126	12.5126	7.7000e-004	0.0000	12.5319

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					8.6000e-003	0.0000	8.6000e-003	1.3000e-003	0.0000	1.3000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0209	0.2068	0.1522	2.5000e-004		0.0109	0.0109		0.0102	0.0102	0.0000	22.1249	22.1249	5.6600e-003	0.0000	22.2663
Total	0.0209	0.2068	0.1522	2.5000e-004	8.6000e-003	0.0109	0.0195	1.3000e-003	0.0102	0.0115	0.0000	22.1249	22.1249	5.6600e-003	0.0000	22.2663

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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	1.2000e-003	0.0377	9.1900e-003	1.1000e-004	2.6300e-003	1.2000e-004	2.7500e-003	7.2000e-004	1.2000e-004	8.4000e-004	0.0000	11.1627	11.1627	7.3000e-004	0.0000	11.1811
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.9000e-004	4.6000e-004	5.1600e-003	1.0000e-005	1.5000e-003	1.0000e-005	1.5100e-003	4.0000e-004	1.0000e-005	4.1000e-004	0.0000	1.3499	1.3499	4.0000e-005	0.0000	1.3509
Total	1.7900e-003	0.0381	0.0144	1.2000e-004	4.1300e-003	1.3000e-004	4.2600e-003	1.1200e-003	1.3000e-004	1.2500e-003	0.0000	12.5126	12.5126	7.7000e-004	0.0000	12.5319

3.3 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					0.1538	0.0000	0.1538	0.0826	0.0000	0.0826	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0433	0.4432	0.3249	5.4000e-004		0.0227	0.0227		0.0208	0.0208	0.0000	47.4430	47.4430	0.0153	0.0000	47.8266
Total	0.0433	0.4432	0.3249	5.4000e-004	0.1538	0.0227	0.1765	0.0826	0.0208	0.1035	0.0000	47.4430	47.4430	0.0153	0.0000	47.8266

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3.3 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	0.0549	1.7200	0.4196	5.1800e-003	0.1200	5.6900e-003	0.1257	0.0330	5.4500e-003	0.0384	0.0000	509.6003	509.6003	0.0335	0.0000	510.4373
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4200e-003	1.1100e-003	0.0125	4.0000e-005	3.6200e-003	3.0000e-005	3.6500e-003	9.6000e-004	3.0000e-005	9.9000e-004	0.0000	3.2634	3.2634	1.0000e-004	0.0000	3.2658
Total	0.0564	1.7211	0.4321	5.2200e-003	0.1236	5.7200e-003	0.1293	0.0339	5.4800e-003	0.0394	0.0000	512.8637	512.8637	0.0336	0.0000	513.7031

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0600	0.0000	0.0600	0.0322	0.0000	0.0322	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0433	0.4432	0.3249	5.4000e-004		0.0227	0.0227		0.0208	0.0208	0.0000	47.4430	47.4430	0.0153	0.0000	47.8266
Total	0.0433	0.4432	0.3249	5.4000e-004	0.0600	0.0227	0.0826	0.0322	0.0208	0.0531	0.0000	47.4430	47.4430	0.0153	0.0000	47.8266

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3.3 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	0.0549	1.7200	0.4196	5.1800e-003	0.1200	5.6900e-003	0.1257	0.0330	5.4500e-003	0.0384	0.0000	509.6003	509.6003	0.0335	0.0000	510.4373
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4200e-003	1.1100e-003	0.0125	4.0000e-005	3.6200e-003	3.0000e-005	3.6500e-003	9.6000e-004	3.0000e-005	9.9000e-004	0.0000	3.2634	3.2634	1.0000e-004	0.0000	3.2658
Total	0.0564	1.7211	0.4321	5.2200e-003	0.1236	5.7200e-003	0.1293	0.0339	5.4800e-003	0.0394	0.0000	512.8637	512.8637	0.0336	0.0000	513.7031

3.4 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	0.1577	1.1863	1.1223	1.9200e-003		0.0595	0.0595		0.0575	0.0575	0.0000	157.9464	157.9464	0.0282	0.0000	158.6514
Total	0.1577	1.1863	1.1223	1.9200e-003		0.0595	0.0595		0.0575	0.0575	0.0000	157.9464	157.9464	0.0282	0.0000	158.6514

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3.4 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0116	0.3692	0.1001	9.5000e-004	0.0236	7.5000e-004	0.0243	6.8000e-003	7.2000e-004	7.5200e-003	0.0000	92.2144	92.2144	5.6600e-003	0.0000	92.3558
Worker	0.0666	0.0519	0.5856	1.6900e-003	0.1697	1.4000e-003	0.1711	0.0451	1.2900e-003	0.0464	0.0000	153.1437	153.1437	4.5100e-003	0.0000	153.2564
Total	0.0783	0.4211	0.6857	2.6400e-003	0.1933	2.1500e-003	0.1954	0.0519	2.0100e-003	0.0539	0.0000	245.3581	245.3581	0.0102	0.0000	245.6121

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	0.1577	1.1863	1.1222	1.9200e-003		0.0595	0.0595		0.0575	0.0575	0.0000	157.9463	157.9463	0.0282	0.0000	158.6512
Total	0.1577	1.1863	1.1222	1.9200e-003		0.0595	0.0595		0.0575	0.0575	0.0000	157.9463	157.9463	0.0282	0.0000	158.6512

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3.4 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0116	0.3692	0.1001	9.5000e-004	0.0236	7.5000e-004	0.0243	6.8000e-003	7.2000e-004	7.5200e-003	0.0000	92.2144	92.2144	5.6600e-003	0.0000	92.3558
Worker	0.0666	0.0519	0.5856	1.6900e-003	0.1697	1.4000e-003	0.1711	0.0451	1.2900e-003	0.0464	0.0000	153.1437	153.1437	4.5100e-003	0.0000	153.2564
Total	0.0783	0.4211	0.6857	2.6400e-003	0.1933	2.1500e-003	0.1954	0.0519	2.0100e-003	0.0539	0.0000	245.3581	245.3581	0.0102	0.0000	245.6121

3.4 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	0.2143	1.6254	1.6544	2.8700e-003		0.0766	0.0766		0.0740	0.0740	0.0000	236.0500	236.0500	0.0411	0.0000	237.0778
Total	0.2143	1.6254	1.6544	2.8700e-003		0.0766	0.0766		0.0740	0.0740	0.0000	236.0500	236.0500	0.0411	0.0000	237.0778

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3.4 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	0.0163	0.5241	0.1415	1.4100e-003	0.0352	9.8000e-004	0.0362	0.0102	9.4000e-004	0.0111	0.0000	136.5813	136.5813	8.1600e-003	0.0000	136.7853
Worker	0.0934	0.0700	0.8063	2.4400e-003	0.2536	2.0200e-003	0.2556	0.0674	1.8600e-003	0.0692	0.0000	220.7914	220.7914	6.0800e-003	0.0000	220.9434
Total	0.1097	0.5941	0.9478	3.8500e-003	0.2888	3.0000e-003	0.2918	0.0775	2.8000e-003	0.0803	0.0000	357.3727	357.3727	0.0142	0.0000	357.7287

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	0.2143	1.6254	1.6544	2.8700e-003		0.0766	0.0766		0.0740	0.0740	0.0000	236.0497	236.0497	0.0411	0.0000	237.0775
Total	0.2143	1.6254	1.6544	2.8700e-003		0.0766	0.0766		0.0740	0.0740	0.0000	236.0497	236.0497	0.0411	0.0000	237.0775

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3.4 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	0.0163	0.5241	0.1415	1.4100e-003	0.0352	9.8000e-004	0.0362	0.0102	9.4000e-004	0.0111	0.0000	136.5813	136.5813	8.1600e-003	0.0000	136.7853
Worker	0.0934	0.0700	0.8063	2.4400e-003	0.2536	2.0200e-003	0.2556	0.0674	1.8600e-003	0.0692	0.0000	220.7914	220.7914	6.0800e-003	0.0000	220.9434
Total	0.1097	0.5941	0.9478	3.8500e-003	0.2888	3.0000e-003	0.2918	0.0775	2.8000e-003	0.0803	0.0000	357.3727	357.3727	0.0142	0.0000	357.7287

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.6000e-004	5.8600e-003	6.3100e-003	1.0000e-005		2.6000e-004	2.6000e-004		2.5000e-004	2.5000e-004	0.0000	0.9080	0.9080	1.5000e-004	0.0000	0.9119
Total	7.6000e-004	5.8600e-003	6.3100e-003	1.0000e-005		2.6000e-004	2.6000e-004		2.5000e-004	2.5000e-004	0.0000	0.9080	0.9080	1.5000e-004	0.0000	0.9119

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3.4 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.5200e-003	4.9000e-004	1.0000e-005	1.4000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.5089	0.5089	3.0000e-005	0.0000	0.5096
Worker	3.4000e-004	2.4000e-004	2.8500e-003	1.0000e-005	9.8000e-004	1.0000e-005	9.8000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8181	0.8181	2.0000e-005	0.0000	0.8187
Total	3.9000e-004	1.7600e-003	3.3400e-003	2.0000e-005	1.1200e-003	1.0000e-005	1.1200e-003	3.0000e-004	1.0000e-005	3.1000e-004	0.0000	1.3270	1.3270	5.0000e-005	0.0000	1.3282

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	7.6000e-004	5.8600e-003	6.3100e-003	1.0000e-005		2.6000e-004	2.6000e-004		2.5000e-004	2.5000e-004	0.0000	0.9080	0.9080	1.5000e-004	0.0000	0.9119
Total	7.6000e-004	5.8600e-003	6.3100e-003	1.0000e-005		2.6000e-004	2.6000e-004		2.5000e-004	2.5000e-004	0.0000	0.9080	0.9080	1.5000e-004	0.0000	0.9119

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3.4 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.5200e-003	4.9000e-004	1.0000e-005	1.4000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.5089	0.5089	3.0000e-005	0.0000	0.5096
Worker	3.4000e-004	2.4000e-004	2.8500e-003	1.0000e-005	9.8000e-004	1.0000e-005	9.8000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8181	0.8181	2.0000e-005	0.0000	0.8187
Total	3.9000e-004	1.7600e-003	3.3400e-003	2.0000e-005	1.1200e-003	1.0000e-005	1.1200e-003	3.0000e-004	1.0000e-005	3.1000e-004	0.0000	1.3270	1.3270	5.0000e-005	0.0000	1.3282

3.5 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	0.5791					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.4000e-003	0.0303	0.0390	6.0000e-005		1.7600e-003	1.7600e-003		1.7600e-003	1.7600e-003	0.0000	5.4895	5.4895	3.6000e-004	0.0000	5.4984
Total	0.5835	0.0303	0.0390	6.0000e-005		1.7600e-003	1.7600e-003		1.7600e-003	1.7600e-003	0.0000	5.4895	5.4895	3.6000e-004	0.0000	5.4984

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3.5 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	3.1200e-003	2.3400e-003	0.0270	8.0000e-005	8.4800e-003	7.0000e-005	8.5500e-003	2.2500e-003	6.0000e-005	2.3200e-003	0.0000	7.3852	7.3852	2.0000e-004	0.0000	7.3902
Total	3.1200e-003	2.3400e-003	0.0270	8.0000e-005	8.4800e-003	7.0000e-005	8.5500e-003	2.2500e-003	6.0000e-005	2.3200e-003	0.0000	7.3852	7.3852	2.0000e-004	0.0000	7.3902

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	0.5791					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.4000e-003	0.0303	0.0390	6.0000e-005		1.7600e-003	1.7600e-003		1.7600e-003	1.7600e-003	0.0000	5.4895	5.4895	3.6000e-004	0.0000	5.4984
Total	0.5835	0.0303	0.0390	6.0000e-005		1.7600e-003	1.7600e-003		1.7600e-003	1.7600e-003	0.0000	5.4895	5.4895	3.6000e-004	0.0000	5.4984

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3.5 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	3.1200e-003	2.3400e-003	0.0270	8.0000e-005	8.4800e-003	7.0000e-005	8.5500e-003	2.2500e-003	6.0000e-005	2.3200e-003	0.0000	7.3852	7.3852	2.0000e-004	0.0000	7.3902
Total	3.1200e-003	2.3400e-003	0.0270	8.0000e-005	8.4800e-003	7.0000e-005	8.5500e-003	2.2500e-003	6.0000e-005	2.3200e-003	0.0000	7.3852	7.3852	2.0000e-004	0.0000	7.3902

3.5 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	0.0135					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0000e-004	6.5000e-004	9.1000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.1277	0.1277	1.0000e-005	0.0000	0.1279
Total	0.0136	6.5000e-004	9.1000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.1277	0.1277	1.0000e-005	0.0000	0.1279

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3.5 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	7.0000e-005	5.0000e-005	5.8000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1655	0.1655	0.0000	0.0000	0.1656
Total	7.0000e-005	5.0000e-005	5.8000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1655	0.1655	0.0000	0.0000	0.1656

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	0.0135					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0000e-004	6.5000e-004	9.1000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.1277	0.1277	1.0000e-005	0.0000	0.1279
Total	0.0136	6.5000e-004	9.1000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.1277	0.1277	1.0000e-005	0.0000	0.1279

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3.5 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	7.0000e-005	5.0000e-005	5.8000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1655	0.1655	0.0000	0.0000	0.1656
Total	7.0000e-005	5.0000e-005	5.8000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1655	0.1655	0.0000	0.0000	0.1656

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

- Increase Density
- Increase Diversity
- Integrate Below Market Rate Housing
- Limit Parking Supply
- 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	0.4731	2.0413	5.1519	0.0179	1.4641	0.0140	1.4781	0.3925	0.0130	0.4055	0.0000	1,658.8466	1,658.8466	0.0870	0.0000	1,661.0211
Unmitigated	0.5540	2.4825	7.1767	0.0267	2.2525	0.0203	2.2729	0.6038	0.0189	0.6227	0.0000	2,465.3808	2,465.3808	0.1228	0.0000	2,468.4508

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	837.93	931.74	718.68	2,849,190	1,851,974
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	227.53	51.66	16.44	554,900	360,685
High Turnover (Sit Down Restaurant)	970.25	1,058.96	1234.12	2,267,033	1,473,572
Regional Shopping Center	113.05	138.19	63.27	263,769	171,450
Total	2,148.75	2,180.55	2,032.51	5,934,893	3,857,680

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	14.70	5.90	8.70	40.00	19.00	41.00	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down)	16.60	8.40	6.90	8.50	72.50	19.00	59	41	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	60	40	0

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4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Enclosed Parking with Elevator	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
General Office Building	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
High Turnover (Sit Down Restaurant)	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Regional Shopping Center	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

Install Energy Efficient Appliances

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated							0.0000	0.0000		0.0000	0.0000	1,217.0998	1,217.0998	0.0288	5.9500e-003	1,219.5907
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	1,337.3284	1,337.3284	0.0316	6.5300e-003	1,340.0654
NaturalGas Mitigated	0.0296	0.2642	0.1886	1.6200e-003			0.0205	0.0205		0.0205	0.0205	293.1513	293.1513	5.6200e-003	5.3700e-003	294.8933
NaturalGas Unmitigated	0.0296	0.2642	0.1886	1.6200e-003			0.0205	0.0205		0.0205	0.0205	293.1513	293.1513	5.6200e-003	5.3700e-003	294.8933

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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	1.74553e+006	9.4100e-003	0.0804	0.0342	5.1000e-004		6.5000e-003	6.5000e-003		6.5000e-003	6.5000e-003	0.0000	93.1482	93.1482	1.7900e-003	1.7100e-003	93.7017
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	271628	1.4600e-003	0.0133	0.0112	8.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003	0.0000	14.4951	14.4951	2.8000e-004	2.7000e-004	14.5813
High Turnover (Sit Down Restaurant)	3.46255e+006	0.0187	0.1697	0.1426	1.0200e-003		0.0129	0.0129		0.0129	0.0129	0.0000	184.7751	184.7751	3.5400e-003	3.3900e-003	185.8731
Regional Shopping Center	13735	7.0000e-005	6.7000e-004	5.7000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.7330	0.7330	1.0000e-005	1.0000e-005	0.7373
Total		0.0296	0.2642	0.1886	1.6100e-003		0.0205	0.0205		0.0205	0.0205	0.0000	293.1513	293.1513	5.6200e-003	5.3800e-003	294.8933

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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	1.74553e+006	9.4100e-003	0.0804	0.0342	5.1000e-004		6.5000e-003	6.5000e-003		6.5000e-003	6.5000e-003	0.0000	93.1482	93.1482	1.7900e-003	1.7100e-003	93.7017
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	271628	1.4600e-003	0.0133	0.0112	8.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003	0.0000	14.4951	14.4951	2.8000e-004	2.7000e-004	14.5813
High Turnover (Sit Down Restaurant)	3.46255e+006	0.0187	0.1697	0.1426	1.0200e-003		0.0129	0.0129		0.0129	0.0129	0.0000	184.7751	184.7751	3.5400e-003	3.3900e-003	185.8731
Regional Shopping Center	13735	7.0000e-005	6.7000e-004	5.7000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.7330	0.7330	1.0000e-005	1.0000e-005	0.7373
Total		0.0296	0.2642	0.1886	1.6100e-003		0.0205	0.0205		0.0205	0.0205	0.0000	293.1513	293.1513	5.6200e-003	5.3800e-003	294.8933

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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	644527	358.9768	8.4800e-003	1.7500e-003	359.7115
Enclosed Parking with Elevator	642256	357.7119	8.4500e-003	1.7500e-003	358.4440
General Office Building	338948	188.7810	4.4600e-003	9.2000e-004	189.1674
High Turnover (Sit Down Restaurant)	662321	368.8872	8.7100e-003	1.8000e-003	369.6421
Regional Shopping Center	113063	62.9715	1.4900e-003	3.1000e-004	63.1003
Total		1,337.3284	0.0316	6.5300e-003	1,340.0654

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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	587566	327.2516	7.7300e-003	1.6000e-003	327.9213
Enclosed Parking with Elevator	577044	321.3913	7.5900e-003	1.5700e-003	322.0491
General Office Building	303232	168.8885	3.9900e-003	8.3000e-004	169.2342
High Turnover (Sit Down Restaurant)	622170	346.5249	8.1800e-003	1.6900e-003	347.2341
Regional Shopping Center	95237.2	53.0434	1.2500e-003	2.6000e-004	53.1520
Total		1,217.0998	0.0287	5.9500e-003	1,219.5907

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	0.8328	0.0486	1.6568	2.8000e-004		0.0115	0.0115		0.0115	0.0115	0.0000	37.0501	37.0501	3.2600e-003	6.3000e-004	37.3192
Unmitigated	0.8328	0.0486	1.6568	2.8000e-004		0.0115	0.0115		0.0115	0.0115	0.0000	37.0501	37.0501	3.2600e-003	6.3000e-004	37.3192

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	0.0593					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7202					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	3.4700e-003	0.0297	0.0126	1.9000e-004		2.4000e-003	2.4000e-003		2.4000e-003	2.4000e-003	0.0000	34.3636	34.3636	6.6000e-004	6.3000e-004	34.5678
Landscaping	0.0498	0.0189	1.6442	9.0000e-005		9.0900e-003	9.0900e-003		9.0900e-003	9.0900e-003	0.0000	2.6865	2.6865	2.6000e-003	0.0000	2.7514
Total	0.8328	0.0486	1.6568	2.8000e-004		0.0115	0.0115		0.0115	0.0115	0.0000	37.0501	37.0501	3.2600e-003	6.3000e-004	37.3192

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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	0.0593					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7202					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	3.4700e-003	0.0297	0.0126	1.9000e-004		2.4000e-003	2.4000e-003		2.4000e-003	2.4000e-003	0.0000	34.3636	34.3636	6.6000e-004	6.3000e-004	34.5678
Landscaping	0.0498	0.0189	1.6442	9.0000e-005		9.0900e-003	9.0900e-003		9.0900e-003	9.0900e-003	0.0000	2.6865	2.6865	2.6000e-003	0.0000	2.7514
Total	0.8328	0.0486	1.6568	2.8000e-004		0.0115	0.0115		0.0115	0.0115	0.0000	37.0501	37.0501	3.2600e-003	6.3000e-004	37.3192

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Use Water Efficient Irrigation System

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	184.3135	0.5301	0.0133	201.5275
Unmitigated	214.8537	0.6623	0.0165	236.3394

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	10.3595 / 6.53098	118.8283	0.3403	8.5400e-003	129.8792
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	4.63707 / 2.84208	52.6864	0.1523	3.8200e-003	57.6319
High Turnover (Sit Down Restaurant)	4.55604 / 0.290811	36.2862	0.1493	3.6800e-003	41.1136
Regional Shopping Center	0.620728 / 0.380446	7.0527	0.0204	5.1000e-004	7.7147
Total		214.8537	0.6623	0.0166	236.3394

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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	8.28759 / 6.53098	103.1452	0.2724	6.8700e-003	112.0024
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	3.70966 / 2.84208	45.6664	0.1219	3.0700e-003	49.6300
High Turnover (Sit Down Restaurant)	3.64483 / 0.290811	29.3889	0.1194	2.9400e-003	33.2515
Regional Shopping Center	0.496582 / 0.380446	6.1130	0.0163	4.1000e-004	6.6436
Total		184.3135	0.5301	0.0133	201.5275

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	14.4540	0.8542	0.0000	35.8091
Unmitigated	57.8159	3.4168	0.0000	143.2364

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	73.14	14.8468	0.8774	0.0000	36.7822
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	24.26	4.9246	0.2910	0.0000	12.2004
High Turnover (Sit Down Restaurant)	178.62	36.2583	2.1428	0.0000	89.8283
Regional Shopping Center	8.8	1.7863	0.1056	0.0000	4.4255
Total		57.8159	3.4168	0.0000	143.2364

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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	18.285	3.7117	0.2194	0.0000	9.1956
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	6.065	1.2311	0.0728	0.0000	3.0501
High Turnover (Sit Down Restaurant)	44.655	9.0646	0.5357	0.0000	22.4571
Regional Shopping Center	2.2	0.4466	0.0264	0.0000	1.1064
Total		14.4540	0.8542	0.0000	35.8091

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
----------------	--------

11.0 Vegetation

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	32.5680	0.0000	0.0000	32.5680

11.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	46	32.5680	0.0000	0.0000	32.5680
Total		32.5680	0.0000	0.0000	32.5680

676 Mateo VMT-based mobile source only Increased commercial - Los Angeles-South Coast County, Annual

**676 Mateo VMT-based mobile source only Increased commercial
Los Angeles-South Coast County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Commercial	1,000.00	User Defined Unit	1.03	1,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	12			Operational Year	2023
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	1227.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Run for VMT-based mobile source emissions for increased commercial only
 Land Use - Generic landuse of 1,000 SF for VMT calc use
 Construction Phase -
 Off-road Equipment -
 Trips and VMT -
 Demolition -
 Grading -
 Architectural Coating -
 Vehicle Trips - 2,257 trips no mitigation = 2.257 trips per TSF. Trip length of 6.803097

- Woodstoves -
- Area Coating -
- Energy Use -
- Sequestration -
- Mobile Land Use Mitigation -
- Energy Mitigation -
- Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	0.00	1,000.00
tblLandUse	LotAcreage	0.00	1.03
tblVehicleTrips	CC_TL	8.40	6.80
tblVehicleTrips	CC_TTP	0.00	100.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	WD_TR	0.00	2.26

2.0 Emissions Summary

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					
Mobile	0.3996	1.7722	4.9480	0.0181	1.5172	0.0139	1.5311	0.4067	0.0129	0.4196	0.0000	1,673.7727	1,673.7727	0.0844	0.0000	1,675.8824
												7				4

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					
Mobile	0.3996	1.7722	4.9480	0.0181	1.5172	0.0139	1.5311	0.4067	0.0129	0.4196	0.0000	1,673.7727	1,673.7727	0.0844	0.0000	1,675.8824

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3996	1.7722	4.9480	0.0181	1.5172	0.0139	1.5311	0.4067	0.0129	0.4196	0.0000	1,673.7727	1,673.7727	0.0844	0.0000	1,675.8824
Unmitigated	0.3996	1.7722	4.9480	0.0181	1.5172	0.0139	1.5311	0.4067	0.0129	0.4196	0.0000	1,673.7727	1,673.7727	0.0844	0.0000	1,675.8824

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Commercial	2,260.00	0.00	0.00	3,997,500	3,997,500
Total	2,260.00	0.00	0.00	3,997,500	3,997,500

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Commercial	0.00	6.80	0.00	0.00	100.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Commercial	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862

676 Mateo VMT-based mobile source only Increased Commercial w/TDM - Los Angeles-South Coast County, Annual

**676 Mateo VMT-based mobile source only Increased Commercial w/TDM
Los Angeles-South Coast County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Commercial	1,000.00	User Defined Unit	1.03	1,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	12			Operational Year	2023
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Run for VMT-based mobile source emissions only Increased commercial w/TDM

Land Use - Generic landuse of 1,000 SF for VMT calc use

Construction Phase -

Off-road Equipment -

Trips and VMT -

Demolition -

Grading -

Architectural Coating -

Vehicle Trips - 2,203 trips with TDM mitigation = 2.203 trips per TSF. Trip length of 6.80390376

Woodstoves -

Area Coating -

Energy Use -

Sequestration -

Mobile Land Use Mitigation -

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	0.00	1,000.00
tblLandUse	LotAcreage	0.00	1.03
tblVehicleTrips	CC_TL	8.40	6.80
tblVehicleTrips	CC_TTP	0.00	100.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	WD_TR	0.00	2.20

2.0 Emissions Summary

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					
Mobile	0.3896	1.7276	4.8236	0.0176	1.4791	0.0135	1.4927	0.3965	0.0126	0.4091	0.0000	1,631.7375	1,631.7375	0.0823	0.0000	1,633.7942

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					
Mobile	0.3896	1.7276	4.8236	0.0176	1.4791	0.0135	1.4927	0.3965	0.0126	0.4091	0.0000	1,631.7375	1,631.7375	0.0823	0.0000	1,633.7942

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3896	1.7276	4.8236	0.0176	1.4791	0.0135	1.4927	0.3965	0.0126	0.4091	0.0000	1,631.7375	1,631.7375	0.0823	0.0000	1,633.7942
Unmitigated	0.3896	1.7276	4.8236	0.0176	1.4791	0.0135	1.4927	0.3965	0.0126	0.4091	0.0000	1,631.7375	1,631.7375	0.0823	0.0000	1,633.7942

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Commercial	2,203.00	0.00	0.00	3,897,140	3,897,140
Total	2,203.00	0.00	0.00	3,897,140	3,897,140

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Commercial	0.00	6.80	0.00	0.00	100.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Commercial	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862

676 Mateo St Alternative for Weekend VMT calcs only - Los Angeles-South Coast County, Annual

676 Mateo St Alternative for Weekend VMT calcs only
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	26.09	1000sqft	0.00	26,093.00	0
Enclosed Parking with Elevator	274.00	Space	1.03	109,600.00	0
High Turnover (Sit Down Restaurant)	15.01	1000sqft	0.00	15,005.00	0
Apartments Mid Rise	159.00	Dwelling Unit	0.00	147,882.00	385
Regional Shopping Center	8.38	1000sqft	0.00	8,375.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	12	Operational Year	2023		
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	1227.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Weekend mobile source VMT calcs ONLY

Land Use - Site is 1.03 acres. Shopping ctr, restaurant, office and live-work office (combined under gen off) and apts all built on top of parking levels. Project footprint is 1.03 ac. 385 residents in 159 DUs.

Construction Phase - Demo starts 2021, build out in 2023. No paving or site prep.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Added an excavator to grading phase. No grader needed. Increased tractor/loader/backhoes to 2.

Off-road Equipment -

Trips and VMT - Hauling distance of 30 miles to Sunshine Canyon.

Demolition - Demo of 26,740 SF of warehouse building and 18,060 SF of parking paving = 44,800 SF.

Grading - Export of 74,500 CY material. Area disturbed = 1.03 ac

Architectural Coating - Per SCAQMD Rule 1113 paints applied to buildings limited to 50g/L VOC content

Vehicle Trips - Weekend trip rates from 10th Ed ITE and include same rdxns as weekday (include TDM and pass-by rdxns) . Pass-by trip% for restaurant and shopping ctr divided and added to primary and diverted trip%.

Woodstoves - No wood-burning appliances.

Area Coating - Per SCAQMD Rule 1113 paints applied to buildings limited to 50g/L VOC content

Sequestration - At least 46 new trees to be planted on-site

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - Project located in DTLA. 159 DU/1.03 ac=154 DU/AC. ~141 jobs gen. by project, 141/1.14 ac (49,473SF) = 124 jobs/jb ac.

Mixed use prjct. 0.05 mi to Metro stop @ 7th & Mateo. 11% of DUs v. low income. 39% rdxn in parking spces

Energy Mitigation - Install high efficiency lighting and energy efficient appliances.

Water Mitigation - 20% rdx in indoor water use per Cal Green requirements. Water efficient irrigation/landscaping installed on-site.

Waste Mitigation - 75% diversion in waste per AB 341

Energy Use -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	44.00
tblConstructionPhase	NumDays	200.00	435.00
tblConstructionPhase	NumDays	20.00	21.00
tblConstructionPhase	NumDays	4.00	66.00
tblFireplaces	NumberGas	135.15	143.10

tblFireplaces	NumberWood	7.95	0.00
tblGrading	AcresOfGrading	0.00	1.03
tblGrading	MaterialExported	0.00	74,500.00
tblLandUse	LandUseSquareFeet	26,090.00	26,093.00
tblLandUse	LandUseSquareFeet	15,010.00	15,005.00
tblLandUse	LandUseSquareFeet	159,000.00	147,882.00
tblLandUse	LandUseSquareFeet	8,380.00	8,375.00
tblLandUse	LotAcreage	0.60	0.00
tblLandUse	LotAcreage	2.47	1.03
tblLandUse	LotAcreage	0.34	0.00
tblLandUse	LotAcreage	4.18	0.00
tblLandUse	LotAcreage	0.19	0.00
tblLandUse	Population	455.00	385.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblSequestration	NumberOfNewTrees	0.00	46.00
tblTripsAndVMT	HaulingTripLength	20.00	30.00
tblTripsAndVMT	HaulingTripLength	20.00	30.00
tblVehicleTrips	DV_TP	20.00	41.00
tblVehicleTrips	DV_TP	35.00	40.00
tblVehicleTrips	HO_TTP	40.60	41.00
tblVehicleTrips	HS_TTP	19.20	19.00
tblVehicleTrips	HW_TTP	40.20	40.00
tblVehicleTrips	PB_TP	43.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PR_TP	37.00	59.00
tblVehicleTrips	PR_TP	54.00	60.00
tblVehicleTrips	ST_TR	6.39	5.86
tblVehicleTrips	ST_TR	2.46	1.98

tblVehicleTrips	ST_TR	158.37	70.55
tblVehicleTrips	ST_TR	49.97	16.49
tblVehicleTrips	SU_TR	5.86	4.52
tblVehicleTrips	SU_TR	1.05	0.63
tblVehicleTrips	SU_TR	131.84	82.22
tblVehicleTrips	SU_TR	25.24	7.55
tblVehicleTrips	WD_TR	6.65	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	127.15	0.00
tblVehicleTrips	WD_TR	42.70	0.00
tblWoodstoves	NumberCatalytic	7.95	0.00
tblWoodstoves	NumberNoncatalytic	7.95	0.00

2.2 Overall Operational Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mobile	0.1546	0.6911	1.9842	7.3500e-003	0.6200	5.6100e-003	0.6256	0.1662	5.2200e-003	0.1714	0.0000	679.5909	679.5909	0.0339	0.0000	680.4391

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					
Mobile	0.1323	0.5697	1.4270	4.9400e-003	0.4030	3.8600e-003	0.4068	0.1080	3.5900e-003	0.1116	0.0000	457.6065	457.6065	0.0241	0.0000	458.2083

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Integrate Below Market Rate Housing

Limit Parking Supply

Unbundle Parking Cost

	ROG	NOx	CO	SO2	Fugitive 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	0.1323	0.5697	1.4270	4.9400e-003	0.4030	3.8600e-003	0.4068	0.1080	3.5900e-003	0.1116	0.0000	457.6065	457.6065	0.0241	0.0000	458.2083
Unmitigated	0.1546	0.6911	1.9842	7.3500e-003	0.6200	5.6100e-003	0.6256	0.1662	5.2200e-003	0.1714	0.0000	679.5909	679.5909	0.0339	0.0000	680.4391

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	0.00	931.74	718.68	805,189	523,373
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	0.00	51.66	16.44	31,338	20,370
High Turnover (Sit Down Restaurant)	0.00	1,058.96	1234.12	727,640	472,966
Regional Shopping Center	0.00	138.19	63.27	69,308	45,050
Total	0.00	2,180.54	2,032.51	1,633,475	1,061,759

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.00	19.00	41.00	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down Restaurant)	16.60	8.40	6.90	8.50	72.50	19.00	59	41	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	60	40	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Enclosed Parking with Elevator	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
General Office Building	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
High Turnover (Sit Down Restaurant)	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Regional Shopping Center	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862