

GUSD Apartment Site Project (Existing) - South Coast Air Basin, Annual

GUSD Apartment Site Project (Existing)
South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	52.50	1000sqft	1.21	52,500.00	0
Apartments Low Rise	9.00	Dwelling Unit	0.56	9,000.00	26

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	12			Operational Year	2017
Utility Company	Glendale Water & Power				
CO2 Intensity (lb/MW hr)	1115.33	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -
 Land Use - Existing uses include 52,500 sq. ft. of the School District Office and low-rise apartments (9 units)
 Construction Phase - Existing Uses
 Off-road Equipment - None
 Vehicle Trips - School District Office = 754 Weekday Trips
 Low-Rise Apartments = 66 Weekday Trips
 Woodstoves - No woodstoves; no fireplaces

Table Name	Column Name	Default Value	New Value
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tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	PhaseEndDate	11/17/2017	10/22/2017
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	7.65	0.00
tblFireplaces	NumberNoFireplace	0.90	0.00
tblFireplaces	NumberWood	0.45	0.00
tblVehicleTrips	WD_TR	6.59	7.33
tblVehicleTrips	WD_TR	11.03	14.36
tblWoodstoves	NumberCatalytic	0.45	0.00
tblWoodstoves	NumberNoncatalytic	0.45	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.2 Overall Operational

Baseline 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	0.2524	1.1000e-003	0.0944	0.0000		5.1000e-004	5.1000e-004		5.1000e-004	5.1000e-004	0.0000	0.1529	0.1529	1.6000e-004	0.0000	0.1568
Energy	3.4700e-003	0.0313	0.0244	1.9000e-004		2.4000e-003	2.4000e-003		2.4000e-003	2.4000e-003	0.0000	398.3860	398.3860	0.0101	2.5900e-003	399.4103
Mobile	0.2831	1.4003	3.8436	0.0104	0.7745	0.0141	0.7886	0.2076	0.0133	0.2209	0.0000	953.8170	953.8170	0.0572	0.0000	955.2460
Waste						0.0000	0.0000		0.0000	0.0000	10.7524	0.0000	10.7524	0.6355	0.0000	26.6387

Water						0.0000	0.0000			0.0000	0.0000	3.1463	99.5520	102.6983	0.3258	8.1700e-003	113.2755
Total	0.5389	1.4326	3.9624	0.0106	0.7745	0.0170	0.7915	0.2076	0.0162	0.2238	13.8988	1,451.9078	1,465.8066	1.0286	0.0108	1,494.7272	

Regulatory Compliance 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	0.2524	1.1000e-003	0.0944	0.0000		5.1000e-004	5.1000e-004		5.1000e-004	5.1000e-004	0.0000	0.1529	0.1529	1.6000e-004	0.0000	0.1568
Energy	3.4700e-003	0.0313	0.0244	1.9000e-004		2.4000e-003	2.4000e-003		2.4000e-003	2.4000e-003	0.0000	398.3860	398.3860	0.0101	2.5900e-003	399.4103
Mobile	0.2831	1.4003	3.8436	0.0104	0.7745	0.0141	0.7886	0.2076	0.0133	0.2209	0.0000	953.8170	953.8170	0.0572	0.0000	955.2460
Waste						0.0000	0.0000		0.0000	0.0000	10.7524	0.0000	10.7524	0.6355	0.0000	26.6387
Water						0.0000	0.0000		0.0000	0.0000	3.1463	99.5520	102.6983	0.3258	8.1700e-003	113.2755
Total	0.5389	1.4326	3.9624	0.0106	0.7745	0.0170	0.7915	0.2076	0.0162	0.2238	13.8988	1,451.9078	1,465.8066	1.0286	0.0108	1,494.7272

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

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					
Regulatory Compliance	0.2831	1.4003	3.8436	0.0104	0.7745	0.0141	0.7886	0.2076	0.0133	0.2209	0.0000	953.8170	953.8170	0.0572	0.0000	955.2460
Baseline	0.2831	1.4003	3.8436	0.0104	0.7745	0.0141	0.7886	0.2076	0.0133	0.2209	0.0000	953.8170	953.8170	0.0572	0.0000	955.2460

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Baseline	Regulatory Compliance
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	65.97	64.44	54.63	219,147	219,147
General Office Building	753.90	129.15	55.13	1,819,562	1,819,562
Total	819.87	193.59	109.76	2,038,709	2,038,709

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 Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.544524	0.045551	0.198447	0.129336	0.019135	0.005878	0.019261	0.027434	0.001914	0.002222	0.004531	0.000699	0.001069
General Office Building	0.544524	0.045551	0.198447	0.129336	0.019135	0.005878	0.019261	0.027434	0.001914	0.002222	0.004531	0.000699	0.001069

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Regulatory						0.0000	0.0000		0.0000	0.0000	0.0000	364.0450	364.0450	9.4700e-003	1.9600e-003	364.8653
Electricity Baseline						0.0000	0.0000		0.0000	0.0000	0.0000	364.0450	364.0450	9.4700e-003	1.9600e-003	364.8653
NaturalGas Regulatory	3.4700e-003	0.0313	0.0244	1.9000e-004		2.4000e-003	2.4000e-003		2.4000e-003	2.4000e-003	0.0000	34.3410	34.3410	6.6000e-004	6.3000e-004	34.5450
NaturalGas Baseline	3.4700e-003	0.0313	0.0244	1.9000e-004		2.4000e-003	2.4000e-003		2.4000e-003	2.4000e-003	0.0000	34.3410	34.3410	6.6000e-004	6.3000e-004	34.5450

5.2 Energy by Land Use - NaturalGas

Baseline

	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 Low Rise	97000	5.2000e-004	4.4700e-003	1.9000e-003	3.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004	0.0000	5.1763	5.1763	1.0000e-004	9.0000e-005	5.2071
General Office Building	546525	2.9500e-003	0.0268	0.0225	1.6000e-004		2.0400e-003	2.0400e-003		2.0400e-003	2.0400e-003	0.0000	29.1647	29.1647	5.6000e-004	5.3000e-004	29.3380
Total		3.4700e-003	0.0313	0.0244	1.9000e-004		2.4000e-003	2.4000e-003		2.4000e-003	2.4000e-003	0.0000	34.3410	34.3410	6.6000e-004	6.2000e-004	34.5450

Regulatory Compliance

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	97000	5.2000e-004	4.4700e-003	1.9000e-003	3.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004	0.0000	5.1763	5.1763	1.0000e-004	9.0000e-005	5.2071
General Office Building	546525	2.9500e-003	0.0268	0.0225	1.6000e-004		2.0400e-003	2.0400e-003		2.0400e-003	2.0400e-003	0.0000	29.1647	29.1647	5.6000e-004	5.3000e-004	29.3380
Total		3.4700e-003	0.0313	0.0244	1.9000e-004		2.4000e-003	2.4000e-003		2.4000e-003	2.4000e-003	0.0000	34.3410	34.3410	6.6000e-004	6.2000e-004	34.5450

5.3 Energy by Land Use - Electricity

Baseline

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	37616.4	19.0303	4.9000e-004	1.0000e-004	19.0732
General Office Building	681975	345.0147	8.9700e-003	1.8600e-003	345.7921
Total		364.0450	9.4600e-003	1.9600e-003	364.8653

Regulatory Compliance

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	37616.4	19.0303	4.9000e-004	1.0000e-004	19.0732
General Office Building	681975	345.0147	8.9700e-003	1.8600e-003	345.7921

Total		364.0450	9.4600e-003	1.9600e-003	364.8653
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6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Regulatory Compliance	0.2524	1.1000e-003	0.0944	0.0000		5.1000e-004	5.1000e-004		5.1000e-004	5.1000e-004	0.0000	0.1529	0.1529	1.6000e-004	0.0000	0.1568
Baseline	0.2524	1.1000e-003	0.0944	0.0000		5.1000e-004	5.1000e-004		5.1000e-004	5.1000e-004	0.0000	0.1529	0.1529	1.6000e-004	0.0000	0.1568

6.2 Area by SubCategory

Baseline

	ROG	NOx	CO	SO2	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	0.0272					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2222					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.9800e-003	1.1000e-003	0.0944	0.0000		5.1000e-004	5.1000e-004		5.1000e-004	5.1000e-004	0.0000	0.1529	0.1529	1.6000e-004	0.0000	0.1568

Total	0.2524	1.1000e-003	0.0944	0.0000		5.1000e-004	5.1000e-004		5.1000e-004	5.1000e-004	0.0000	0.1529	0.1529	1.6000e-004	0.0000	0.1568
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Regulatory Compliance

	ROG	NOx	CO	SO2	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	0.0272					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2222					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.9800e-003	1.1000e-003	0.0944	0.0000		5.1000e-004	5.1000e-004		5.1000e-004	5.1000e-004	0.0000	0.1529	0.1529	1.6000e-004	0.0000	0.1568
Total	0.2524	1.1000e-003	0.0944	0.0000		5.1000e-004	5.1000e-004		5.1000e-004	5.1000e-004	0.0000	0.1529	0.1529	1.6000e-004	0.0000	0.1568

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Regulatory Compliance	102.6983	0.3258	8.1700e-003	113.2755
Baseline	102.6983	0.3258	8.1700e-003	113.2755

7.2 Water by Land Use

Baseline

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0.586386 / 0.369678	6.1266	0.0193	4.8000e-004	6.7521
General Office Building	9.33102 / 5.71901	96.5717	0.3065	7.6800e-003	106.5234
Total		102.6983	0.3258	8.1600e-003	113.2755

Regulatory Compliance

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0.586386 / 0.369678	6.1266	0.0193	4.8000e-004	6.7521
General Office Building	9.33102 / 5.71901	96.5717	0.3065	7.6800e-003	106.5234
Total		102.6983	0.3258	8.1600e-003	113.2755

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Regulatory Compliance	10.7524	0.6355	0.0000	26.6387
Baseline	10.7524	0.6355	0.0000	26.6387

8.2 Waste by Land Use

Baseline

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	4.14	0.8404	0.0497	0.0000	2.0820
General Office Building	48.83	9.9121	0.5858	0.0000	24.5567
Total		10.7524	0.6355	0.0000	26.6387

Regulatory Compliance

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	4.14	0.8404	0.0497	0.0000	2.0820

General Office Building	48.83	9.9121	0.5858	0.0000	24.5567
Total		10.7524	0.6355	0.0000	26.6387

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

GUSD Apartment Site Project (Existing) - South Coast Air Basin, Summer

GUSD Apartment Site Project (Existing)
South Coast Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	52.50	1000sqft	1.21	52,500.00	0
Apartments Low Rise	9.00	Dwelling Unit	0.56	9,000.00	26

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	12			Operational Year	2017
Utility Company	Glendale Water & Power				
CO2 Intensity (lb/MW hr)	1115.33	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Existing uses include 52,500 sq. ft. of the School District Office and low-rise apartments (9 units)

Construction Phase - Existing Uses

Off-road Equipment - None

Vehicle Trips - School District Office = 754 Weekday Trips

Low-Rise Apartments = 66 Weekday Trips

Woodstoves - No woodstoves; no fireplaces

Table Name	Column Name	Default Value	New Value
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tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	PhaseEndDate	11/17/2017	10/22/2017
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	7.65	0.00
tblFireplaces	NumberNoFireplace	0.90	0.00
tblFireplaces	NumberWood	0.45	0.00
tblVehicleTrips	WD_TR	6.59	7.33
tblVehicleTrips	WD_TR	11.03	14.36
tblWoodstoves	NumberCatalytic	0.45	0.00
tblWoodstoves	NumberNoncatalytic	0.45	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.2 Overall Operational baseline Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.3903	8.7900e-003	0.7555	4.0000e-005		4.0900e-003	4.0900e-003		4.0900e-003	4.0900e-003	0.0000	1.3485	1.3485	1.3700e-003	0.0000	1.3828
Energy	0.0190	0.1713	0.1337	1.0400e-003		0.0131	0.0131		0.0131	0.0131		207.4214	207.4214	3.9800e-003	3.8000e-003	208.6540
Mobile	2.1460	9.5369	28.6348	0.0773	5.6423	0.1008	5.7431	1.5100	0.0952	1.6052		7,827.9705	7,827.9705	0.4554		7,839.3547
Total	3.5553	9.7170	29.5240	0.0784	5.6423	0.1180	5.7604	1.5100	0.1124	1.6224	0.0000	8,036.7404	8,036.7404	0.4607	3.8000e-003	8,049.3915

Regulatory Compliance Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.3903	8.7900e-003	0.7555	4.0000e-005		4.0900e-003	4.0900e-003		4.0900e-003	4.0900e-003	0.0000	1.3485	1.3485	1.3700e-003	0.0000	1.3828
Energy	0.0190	0.1713	0.1337	1.0400e-003		0.0131	0.0131		0.0131	0.0131		207.4214	207.4214	3.9800e-003	3.8000e-003	208.6540
Mobile	2.1460	9.5369	28.6348	0.0773	5.6423	0.1008	5.7431	1.5100	0.0952	1.6052		7,827.9705	7,827.9705	0.4554		7,839.3547
Total	3.5553	9.7170	29.5240	0.0784	5.6423	0.1180	5.7604	1.5100	0.1124	1.6224	0.0000	8,036.7404	8,036.7404	0.4607	3.8000e-003	8,049.3915

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/23/2017	10/22/2017	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
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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	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2017

baseline Construction On-Site

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

baseline Construction Off-Site

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

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	lb/day										lb/day					
Regulatory Compliance	2.1460	9.5369	28.6348	0.0773	5.6423	0.1008	5.7431	1.5100	0.0952	1.6052		7,827.9705	7,827.9705	0.4554		7,839.3547
baseline	2.1460	9.5369	28.6348	0.0773	5.6423	0.1008	5.7431	1.5100	0.0952	1.6052		7,827.9705	7,827.9705	0.4554		7,839.3547

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			baseline	Regulatory Compliance
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	65.97	64.44	54.63	219,147	219,147
General Office Building	753.90	129.15	55.13	1,819,562	1,819,562
Total	819.87	193.59	109.76	2,038,709	2,038,709

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 Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.544524	0.045551	0.198447	0.129336	0.019135	0.005878	0.019261	0.027434	0.001914	0.002222	0.004531	0.000699	0.001069

General Office Building	0.544524	0.045551	0.198447	0.129336	0.019135	0.005878	0.019261	0.027434	0.001914	0.002222	0.004531	0.000699	0.001069
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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Regulatory	0.0190	0.1713	0.1337	1.0400e-003		0.0131	0.0131		0.0131	0.0131		207.4214	207.4214	3.9800e-003	3.8000e-003	208.6540
NaturalGas baseline	0.0190	0.1713	0.1337	1.0400e-003		0.0131	0.0131		0.0131	0.0131		207.4214	207.4214	3.9800e-003	3.8000e-003	208.6540

5.2 Energy by Land Use - NaturalGas baseline

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	265.753	2.8700e-003	0.0245	0.0104	1.6000e-004		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003		31.2651	31.2651	6.0000e-004	5.7000e-004	31.4509
General Office Building	1497.33	0.0162	0.1468	0.1233	8.8000e-004		0.0112	0.0112		0.0112	0.0112		176.1563	176.1563	3.3800e-003	3.2300e-003	177.2031
Total		0.0190	0.1713	0.1337	1.0400e-003		0.0131	0.0131		0.0131	0.0131		207.4215	207.4215	3.9800e-003	3.8000e-003	208.6540

Regulatory Compliance

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
Apartments Low Rise	0.265753	2.8700e-003	0.0245	0.0104	1.6000e-004		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003			31.2651	31.2651	6.0000e-004	5.7000e-004	31.4509
General Office Building	1.49733	0.0162	0.1468	0.1233	8.8000e-004		0.0112	0.0112		0.0112	0.0112			176.1563	176.1563	3.3800e-003	3.2300e-003	177.2031
Total		0.0190	0.1713	0.1337	1.0400e-003		0.0131	0.0131		0.0131	0.0131			207.4215	207.4215	3.9800e-003	3.8000e-003	208.6540

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Regulatory Compliance	1.3903	8.7900e-003	0.7555	4.0000e-005		4.0900e-003	4.0900e-003		4.0900e-003	4.0900e-003	0.0000	1.3485	1.3485	1.3700e-003	0.0000	1.3828
baseline	1.3903	8.7900e-003	0.7555	4.0000e-005		4.0900e-003	4.0900e-003		4.0900e-003	4.0900e-003	0.0000	1.3485	1.3485	1.3700e-003	0.0000	1.3828

6.2 Area by SubCategory

baseline

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1488					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2177					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0239	8.7900e-003	0.7555	4.0000e-005		4.0900e-003	4.0900e-003		4.0900e-003	4.0900e-003		1.3485	1.3485	1.3700e-003		1.3828
Total	1.3903	8.7900e-003	0.7555	4.0000e-005		4.0900e-003	4.0900e-003		4.0900e-003	4.0900e-003	0.0000	1.3485	1.3485	1.3700e-003	0.0000	1.3828

Regulatory Compliance

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1488					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2177					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0239	8.7900e-003	0.7555	4.0000e-005		4.0900e-003	4.0900e-003		4.0900e-003	4.0900e-003		1.3485	1.3485	1.3700e-003		1.3828
Total	1.3903	8.7900e-003	0.7555	4.0000e-005		4.0900e-003	4.0900e-003		4.0900e-003	4.0900e-003	0.0000	1.3485	1.3485	1.3700e-003	0.0000	1.3828

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

GUSD Apartment Site Project (Existing) - South Coast Air Basin, Winter

GUSD Apartment Site Project (Existing)
South Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	52.50	1000sqft	1.21	52,500.00	0
Apartments Low Rise	9.00	Dwelling Unit	0.56	9,000.00	26

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	12	Operational Year	2017		
Utility Company	Glendale Water & Power				
CO2 Intensity (lb/MWhr)	1115.33	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Existing uses include 52,500 sq. ft. of the School District Office and low-rise apartments (9 units)

Construction Phase - Existing Uses

Off-road Equipment - None

Vehicle Trips - School District Office = 754 Weekday Trips

Low-Rise Apartments = 66 Weekday Trips

Woodstoves - No woodstoves; no fireplaces

Table Name	Column Name	Default Value	New Value
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tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	PhaseEndDate	11/17/2017	10/22/2017
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	7.65	0.00
tblFireplaces	NumberNoFireplace	0.90	0.00
tblFireplaces	NumberWood	0.45	0.00
tblVehicleTrips	WD_TR	6.59	7.33
tblVehicleTrips	WD_TR	11.03	14.36
tblWoodstoves	NumberCatalytic	0.45	0.00
tblWoodstoves	NumberNoncatalytic	0.45	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.2 Overall Operational

Baseline Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.3903	8.7900e-003	0.7555	4.0000e-005		4.0900e-003	4.0900e-003		4.0900e-003	4.0900e-003	0.0000	1.3485	1.3485	1.3700e-003	0.0000	1.3828
Energy	0.0190	0.1713	0.1337	1.0400e-003		0.0131	0.0131		0.0131	0.0131		207.4214	207.4214	3.9800e-003	3.8000e-003	208.6540
Mobile	2.0839	9.8298	27.1167	0.0733	5.6423	0.1016	5.7439	1.5100	0.0959	1.6059		7,422.6902	7,422.6902	0.4522		7,433.9944
Total	3.4932	10.0099	28.0059	0.0744	5.6423	0.1188	5.7611	1.5100	0.1131	1.6231	0.0000	7,631.4601	7,631.4601	0.4575	3.8000e-003	7,644.0313

Regulatory Compliance Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.3903	8.7900e-003	0.7555	4.0000e-005		4.0900e-003	4.0900e-003		4.0900e-003	4.0900e-003	0.0000	1.3485	1.3485	1.3700e-003	0.0000	1.3828
Energy	0.0190	0.1713	0.1337	1.0400e-003		0.0131	0.0131		0.0131	0.0131		207.4214	207.4214	3.9800e-003	3.8000e-003	208.6540
Mobile	2.0839	9.8298	27.1167	0.0733	5.6423	0.1016	5.7439	1.5100	0.0959	1.6059		7,422.6902	7,422.6902	0.4522		7,433.9944
Total	3.4932	10.0099	28.0059	0.0744	5.6423	0.1188	5.7611	1.5100	0.1131	1.6231	0.0000	7,631.4601	7,631.4601	0.4575	3.8000e-003	7,644.0313

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/23/2017	10/22/2017	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
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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	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2017

Baseline Construction On-Site

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

Baseline Construction Off-Site

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

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	lb/day										lb/day					
Regulatory Compliance	2.0839	9.8298	27.1167	0.0733	5.6423	0.1016	5.7439	1.5100	0.0959	1.6059		7,422.6902	7,422.6902	0.4522		7,433.9944
Baseline	2.0839	9.8298	27.1167	0.0733	5.6423	0.1016	5.7439	1.5100	0.0959	1.6059		7,422.6902	7,422.6902	0.4522		7,433.9944

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Baseline	Regulatory Compliance
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	65.97	64.44	54.63	219,147	219,147
General Office Building	753.90	129.15	55.13	1,819,562	1,819,562
Total	819.87	193.59	109.76	2,038,709	2,038,709

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 Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.544524	0.045551	0.198447	0.129336	0.019135	0.005878	0.019261	0.027434	0.001914	0.002222	0.004531	0.000699	0.001069

General Office Building	0.544524	0.045551	0.198447	0.129336	0.019135	0.005878	0.019261	0.027434	0.001914	0.002222	0.004531	0.000699	0.001069
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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Regulatory	0.0190	0.1713	0.1337	1.0400e-003		0.0131	0.0131		0.0131	0.0131		207.4214	207.4214	3.9800e-003	3.8000e-003	208.6540
NaturalGas Baseline	0.0190	0.1713	0.1337	1.0400e-003		0.0131	0.0131		0.0131	0.0131		207.4214	207.4214	3.9800e-003	3.8000e-003	208.6540

5.2 Energy by Land Use - NaturalGas

Baseline

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	265.753	2.8700e-003	0.0245	0.0104	1.6000e-004		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003		31.2651	31.2651	6.0000e-004	5.7000e-004	31.4509
General Office Building	1497.33	0.0162	0.1468	0.1233	8.8000e-004		0.0112	0.0112		0.0112	0.0112		176.1563	176.1563	3.3800e-003	3.2300e-003	177.2031
Total		0.0190	0.1713	0.1337	1.0400e-003		0.0131	0.0131		0.0131	0.0131		207.4215	207.4215	3.9800e-003	3.8000e-003	208.6540

Regulatory Compliance

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
Apartments Low Rise	0.265753	2.8700e-003	0.0245	0.0104	1.6000e-004		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003			31.2651	31.2651	6.0000e-004	5.7000e-004	31.4509
General Office Building	1.49733	0.0162	0.1468	0.1233	8.8000e-004		0.0112	0.0112		0.0112	0.0112			176.1563	176.1563	3.3800e-003	3.2300e-003	177.2031
Total		0.0190	0.1713	0.1337	1.0400e-003		0.0131	0.0131		0.0131	0.0131			207.4215	207.4215	3.9800e-003	3.8000e-003	208.6540

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Regulatory Compliance	1.3903	8.7900e-003	0.7555	4.0000e-005		4.0900e-003	4.0900e-003		4.0900e-003	4.0900e-003	0.0000	1.3485	1.3485	1.3700e-003	0.0000	1.3828
Baseline	1.3903	8.7900e-003	0.7555	4.0000e-005		4.0900e-003	4.0900e-003		4.0900e-003	4.0900e-003	0.0000	1.3485	1.3485	1.3700e-003	0.0000	1.3828

6.2 Area by SubCategory

Baseline

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1488					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2177					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0239	8.7900e-003	0.7555	4.0000e-005		4.0900e-003	4.0900e-003		4.0900e-003	4.0900e-003		1.3485	1.3485	1.3700e-003		1.3828
Total	1.3903	8.7900e-003	0.7555	4.0000e-005		4.0900e-003	4.0900e-003		4.0900e-003	4.0900e-003	0.0000	1.3485	1.3485	1.3700e-003	0.0000	1.3828

Regulatory Compliance

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1488					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2177					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0239	8.7900e-003	0.7555	4.0000e-005		4.0900e-003	4.0900e-003		4.0900e-003	4.0900e-003		1.3485	1.3485	1.3700e-003		1.3828
Total	1.3903	8.7900e-003	0.7555	4.0000e-005		4.0900e-003	4.0900e-003		4.0900e-003	4.0900e-003	0.0000	1.3485	1.3485	1.3700e-003	0.0000	1.3828

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

GUSD Apartment Site Project - South Coast Air Basin, Annual

GUSD Apartment Site Project
South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	289.00	Dwelling Unit	2.40	310,753.00	827
Enclosed Parking with Elevator	399.00	Space	0.20	158,950.00	0
Other Non-Asphalt Surfaces	69.18	1000sqft	0.00	69,175.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	12	Operational Year		2021	
Utility Company	Glendale Water & Power				
CO2 Intensity (lb/MW hr)	1115.33	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Other non-asphalt uses include public and private open space
- Construction Phase - Construction duration approximately 25 months
- Off-road Equipment - Demolition would include 1 rubber tired loader, 1 track excavator, and 2 rubber tired backhoe
- Off-road Equipment - Site prep includes dozers and backhoes
- Off-road Equipment - Grading includes 1 rubber tired loader, excavator, backhoe, and dozer
- Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Grading - Approximately 6,600 cy of soil export

Demolition - Approximately 3,300 cy (4,620 ton of debris) to be hauled to Scholl Canyon Landfill

Trips and VMT - Super 10 dump trucks will be utilized during demolition for 50 total trips

Super 10 dump trucks will be utilized during grading for 85 total trips

Vehicle Trips - Based on traffic study trip generation rate

Woodstoves - No woodstoves, no fireplaces

Construction Off-road Equipment Mitigation - Per CARB Title 13 CCR Section 2520-2427, equipment required to be Tier 4 Final for new equipment. For conservative analysis, equipment set to Tier 2.

Mobile Land Use Mitigation -

Area Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2

tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstructionPhase	NumDays	10.00	44.00
tblConstructionPhase	NumDays	220.00	480.00
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	6.00	22.00
tblConstructionPhase	PhaseEndDate	10/31/2019	11/29/2020
tblConstructionPhase	PhaseEndDate	10/3/2019	11/29/2020
tblConstructionPhase	PhaseEndDate	11/16/2018	12/22/2018
tblConstructionPhase	PhaseEndDate	11/29/2018	1/27/2019
tblConstructionPhase	PhaseEndDate	10/17/2019	11/11/2020
tblConstructionPhase	PhaseEndDate	11/21/2018	12/26/2018
tblConstructionPhase	PhaseStartDate	10/18/2019	9/29/2020
tblConstructionPhase	PhaseStartDate	11/30/2018	1/28/2019
tblConstructionPhase	PhaseStartDate	11/22/2018	12/27/2018
tblConstructionPhase	PhaseStartDate	10/4/2019	10/29/2020
tblConstructionPhase	PhaseStartDate	11/17/2018	12/23/2018
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	245.65	0.00
tblFireplaces	NumberNoFireplace	28.90	0.00
tblFireplaces	NumberWood	14.45	0.00
tblGrading	AcresOfGrading	11.00	2.60
tblGrading	AcresOfGrading	4.50	0.00

tblGrading	MaterialExported	0.00	6,600.00
tblLandUse	LandUseSquareFeet	289,000.00	310,753.00
tblLandUse	LandUseSquareFeet	159,600.00	158,950.00
tblLandUse	LotAcreage	7.61	2.40
tblLandUse	LotAcreage	3.59	0.20
tblLandUse	LotAcreage	1.59	0.00
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Excavators
tblOffRoadEquipment	OffRoadEquipmentType	Graders	Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Dozers
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	13.20
tblTripsAndVMT	HaulingTripLength	20.00	13.20
tblTripsAndVMT	HaulingTripNumber	457.00	50.00
tblTripsAndVMT	HaulingTripNumber	825.00	85.00
tblTripsAndVMT	WorkerTripNumber	15.00	10.00
tblTripsAndVMT	WorkerTripNumber	10.00	5.00
tblTripsAndVMT	WorkerTripNumber	13.00	10.00
tblVehicleTrips	ST_TR	6.39	5.44
tblVehicleTrips	SU_TR	5.86	5.44
tblVehicleTrips	WD_TR	6.65	5.44
tblWoodstoves	NumberCatalytic	14.45	0.00
tblWoodstoves	NumberNoncatalytic	14.45	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction

Baseline 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					
2018	0.0762	0.7871	0.4589	8.7000e-004	0.0726	0.0400	0.1126	0.0185	0.0373	0.0558	0.0000	78.6976	78.6976	0.0206	0.0000	79.2117
2019	0.5436	3.6699	3.7574	9.5800e-003	0.5159	0.1531	0.6690	0.1542	0.1462	0.3004	0.0000	859.6416	859.6416	0.0869	0.0000	861.8138
2020	1.4820	3.1661	3.5171	9.2800e-003	0.4634	0.1260	0.5895	0.1243	0.1206	0.2449	0.0000	830.0910	830.0910	0.0770	0.0000	832.0149
Maximum	1.4820	3.6699	3.7574	9.5800e-003	0.5159	0.1531	0.6690	0.1542	0.1462	0.3004	0.0000	859.6416	859.6416	0.0869	0.0000	861.8138

Regulatory Compliance 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					
2018	0.0456	0.7476	0.5159	8.7000e-004	0.0304	0.0272	0.0576	7.7700e-003	0.0267	0.0344	0.0000	78.6975	78.6975	0.0206	0.0000	79.2116
2019	0.4639	3.6070	3.8723	9.5800e-003	0.4799	0.1177	0.5976	0.1349	0.1168	0.2517	0.0000	859.6413	859.6413	0.0869	0.0000	861.8135
2020	1.4194	3.2636	3.6384	9.2800e-003	0.4634	0.1025	0.5659	0.1243	0.1020	0.2263	0.0000	830.0907	830.0907	0.0770	0.0000	832.0146
Maximum	1.4194	3.6070	3.8723	9.5800e-003	0.4799	0.1177	0.5976	0.1349	0.1168	0.2517	0.0000	859.6413	859.6413	0.0869	0.0000	861.8135

	ROG	NOx	CO	SO2	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	8.23	0.06	-3.79	0.00	7.43	22.48	10.94	10.12	19.24	14.74	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Baseline ROG + NOX (tons/quarter)	Maximum Regulatory Compliance ROG + NOX (tons/quarter)
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1	10-22-2018	1-21-2019	1.0960	1.0162
2	1-22-2019	4-21-2019	1.0354	1.0003
3	4-22-2019	7-21-2019	1.0416	1.0067
4	7-22-2019	10-21-2019	1.0550	1.0198
5	10-22-2019	1-21-2020	1.0417	1.0148
6	1-22-2020	4-21-2020	0.9612	0.9625
7	4-22-2020	7-21-2020	0.9553	0.9567
8	7-22-2020	9-30-2020	0.7797	0.7811
		Highest	1.0960	1.0198

2.2 Overall Operational

Baseline Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.3291	0.0345	2.9928	1.6000e-004		0.0165	0.0165		0.0165	0.0165	0.0000	4.8800	4.8800	4.7500e-003	0.0000	4.9987
Energy	0.0171	0.1462	0.0622	9.3000e-004		0.0118	0.0118		0.0118	0.0118	0.0000	1,233.1983	1,233.1983	0.0309	8.8300e-003	1,236.6016
Mobile	0.4951	2.6836	6.8420	0.0247	2.0404	0.0202	2.0605	0.5467	0.0188	0.5655	0.0000	2,279.5724	2,279.5724	0.1118	0.0000	2,282.3675
Waste						0.0000	0.0000		0.0000	0.0000	26.9856	0.0000	26.9856	1.5948	0.0000	66.8557
Water						0.0000	0.0000		0.0000	0.0000	5.9737	190.7584	196.7321	0.6185	0.0155	216.8182
Total	1.8413	2.8643	9.8970	0.0258	2.0404	0.0485	2.0888	0.5467	0.0471	0.5938	32.9594	3,708.4091	3,741.3685	2.3608	0.0243	3,807.6417

Regulatory Compliance Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.3291	0.0345	2.9928	1.6000e-004		0.0165	0.0165		0.0165	0.0165	0.0000	4.8800	4.8800	4.7500e-003	0.0000	4.9987
Energy	0.0171	0.1462	0.0622	9.3000e-004		0.0118	0.0118		0.0118	0.0118	0.0000	1,233.1983	1,233.1983	0.0309	8.8300e-003	1,236.6016
Mobile	0.4511	2.3588	5.7240	0.0201	1.6357	0.0165	1.6522	0.4383	0.0154	0.4537	0.0000	1,851.5764	1,851.5764	0.0936	0.0000	1,853.9170
Waste						0.0000	0.0000		0.0000	0.0000	26.9856	0.0000	26.9856	1.5948	0.0000	66.8557
Water						0.0000	0.0000		0.0000	0.0000	4.7790	161.8809	166.6599	0.4951	0.0125	182.7497
Total	1.7973	2.5395	8.7790	0.0212	1.6357	0.0448	1.6805	0.4383	0.0437	0.4820	31.7646	3,251.5357	3,283.3003	2.2191	0.0213	3,345.1226

	ROG	NOx	CO	SO2	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	2.39	11.34	11.30	17.99	19.83	7.53	19.55	19.83	7.24	18.83	3.62	12.32	12.24	6.00	12.53	12.15

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	10/22/2018	12/22/2018	5	45	
2	Site Preparation	Site Preparation	12/23/2018	12/26/2018	5	3	
3	Grading	Grading	12/27/2018	1/27/2019	5	22	
4	Building Construction	Building Construction	1/28/2019	11/29/2020	5	480	
5	Paving	Paving	10/29/2020	11/11/2020	5	10	
6	Architectural Coating	Architectural Coating	9/29/2020	11/29/2020	5	44	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 2.6

Acres of Paving: 0.2

Residential Indoor: 629,275; Residential Outdoor: 209,758; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Grading	Excavators	1	8.00	158	0.38
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Excavators	1	8.00	158	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Loaders	1	8.00	203	0.36
Paving	Paving Equipment	1	8.00	132	0.36
Site Preparation	Graders	1	8.00	187	0.41
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Rubber Tired Loaders	1	8.00	203	0.36
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Scrapers	1	8.00	367	0.48
Building Construction	Welders	3	8.00	46	0.45

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	6	10.00	0.00	50.00	14.70	6.90	13.20	LD_Mix	HDT_Mix	HHDT
Site Preparation	4	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	5	10.00	0.00	85.00	14.70	6.90	13.20	LD_Mix	HDT_Mix	HHDT
Building Construction	8	304.00	68.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	61.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2018

Baseline 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					0.0494	0.0000	0.0494	7.4800e-003	0.0000	7.4800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0661	0.6785	0.4002	7.3000e-004		0.0356	0.0356		0.0332	0.0332	0.0000	65.8651	65.8651	0.0177	0.0000	66.3070
Total	0.0661	0.6785	0.4002	7.3000e-004	0.0494	0.0356	0.0850	7.4800e-003	0.0332	0.0407	0.0000	65.8651	65.8651	0.0177	0.0000	66.3070

Baseline 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	1.7000e-004	6.2100e-003	1.1700e-003	1.0000e-005	2.8000e-004	2.0000e-005	3.0000e-004	8.0000e-005	2.0000e-005	1.0000e-004	0.0000	1.3625	1.3625	1.1000e-004	0.0000	1.3653
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	1.1900e-003	9.8000e-004	0.0105	3.0000e-005	2.4700e-003	2.0000e-005	2.4900e-003	6.6000e-004	2.0000e-005	6.7000e-004	0.0000	2.3704	2.3704	8.0000e-005	0.0000	2.3724
Total	1.3600e-003	7.1900e-003	0.0117	4.0000e-005	2.7500e-003	4.0000e-005	2.7900e-003	7.4000e-004	4.0000e-005	7.7000e-004	0.0000	3.7329	3.7329	1.9000e-004	0.0000	3.7376

Regulatory Compliance 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					0.0193	0.0000	0.0193	2.9200e-003	0.0000	2.9200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0383	0.6466	0.4535	7.3000e-004		0.0240	0.0240		0.0237	0.0237	0.0000	65.8650	65.8650	0.0177	0.0000	66.3069
Total	0.0383	0.6466	0.4535	7.3000e-004	0.0193	0.0240	0.0433	2.9200e-003	0.0237	0.0266	0.0000	65.8650	65.8650	0.0177	0.0000	66.3069

Regulatory Compliance 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	1.7000e-004	6.2100e-003	1.1700e-003	1.0000e-005	2.8000e-004	2.0000e-005	3.0000e-004	8.0000e-005	2.0000e-005	1.0000e-004	0.0000	1.3625	1.3625	1.1000e-004	0.0000	1.3653

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	1.1900e-003	9.8000e-004	0.0105	3.0000e-005	2.4700e-003	2.0000e-005	2.4900e-003	6.6000e-004	2.0000e-005	6.7000e-004	0.0000	2.3704	2.3704	8.0000e-005	0.0000	2.3724
Total	1.3600e-003	7.1900e-003	0.0117	4.0000e-005	2.7500e-003	4.0000e-005	2.7900e-003	7.4000e-004	4.0000e-005	7.7000e-004	0.0000	3.7329	3.7329	1.9000e-004	0.0000	3.7376

3.3 Site Preparation - 2018

Baseline Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.0300e-003	0.0000	9.0300e-003	4.9700e-003	0.0000	4.9700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6000e-003	0.0543	0.0257	5.0000e-005		2.3500e-003	2.3500e-003		2.1600e-003	2.1600e-003	0.0000	4.5295	4.5295	1.4100e-003	0.0000	4.5647
Total	4.6000e-003	0.0543	0.0257	5.0000e-005	9.0300e-003	2.3500e-003	0.0114	4.9700e-003	2.1600e-003	7.1300e-003	0.0000	4.5295	4.5295	1.4100e-003	0.0000	4.5647

Baseline Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	3.5000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0790	0.0790	0.0000	0.0000	0.0791
Total	4.0000e-005	3.0000e-005	3.5000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0790	0.0790	0.0000	0.0000	0.0791

Regulatory Compliance Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.5200e-003	0.0000	3.5200e-003	1.9400e-003	0.0000	1.9400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4900e-003	0.0495	0.0258	5.0000e-005		1.8100e-003	1.8100e-003		1.6900e-003	1.6900e-003	0.0000	4.5295	4.5295	1.4100e-003	0.0000	4.5647
Total	3.4900e-003	0.0495	0.0258	5.0000e-005	3.5200e-003	1.8100e-003	5.3300e-003	1.9400e-003	1.6900e-003	3.6300e-003	0.0000	4.5295	4.5295	1.4100e-003	0.0000	4.5647

Regulatory Compliance Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	3.5000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0790	0.0790	0.0000	0.0000	0.0791
Total	4.0000e-005	3.0000e-005	3.5000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0790	0.0790	0.0000	0.0000	0.0791

3.4 Grading - 2018

Baseline 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
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Category	tons/yr										MT/yr					
Fugitive Dust					0.0108	0.0000	0.0108	5.1700e-003	0.0000	5.1700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.9600e-003	0.0456	0.0200	4.0000e-005		2.0000e-003	2.0000e-003		1.8400e-003	1.8400e-003	0.0000	4.0173	4.0173	1.2500e-003	0.0000	4.0486
Total	3.9600e-003	0.0456	0.0200	4.0000e-005	0.0108	2.0000e-003	0.0128	5.1700e-003	1.8400e-003	7.0100e-003	0.0000	4.0173	4.0173	1.2500e-003	0.0000	4.0486

Baseline Construction Off-Site

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
Category	tons/yr										MT/yr					
Hauling	4.0000e-005	1.4400e-003	2.7000e-004	0.0000	3.8000e-004	0.0000	3.8000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3159	0.3159	3.0000e-005	0.0000	0.3165
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-005	7.0000e-005	7.0000e-004	0.0000	1.6000e-004	0.0000	1.7000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1580	0.1580	1.0000e-005	0.0000	0.1582
Total	1.2000e-004	1.5100e-003	9.7000e-004	0.0000	5.4000e-004	0.0000	5.5000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4739	0.4739	4.0000e-005	0.0000	0.4747

Regulatory Compliance Construction On-Site

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
Category	tons/yr										MT/yr					
Fugitive Dust					4.2100e-003	0.0000	4.2100e-003	2.0200e-003	0.0000	2.0200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3100e-003	0.0429	0.0236	4.0000e-005		1.3400e-003	1.3400e-003		1.2900e-003	1.2900e-003	0.0000	4.0173	4.0173	1.2500e-003	0.0000	4.0486

Total	2.3100e-003	0.0429	0.0236	4.0000e-005	4.2100e-003	1.3400e-003	5.5500e-003	2.0200e-003	1.2900e-003	3.3100e-003	0.0000	4.0173	4.0173	1.2500e-003	0.0000	4.0486
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Regulatory Compliance 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	4.0000e-005	1.4400e-003	2.7000e-004	0.0000	3.8000e-004	0.0000	3.8000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3159	0.3159	3.0000e-005	0.0000	0.3165
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-005	7.0000e-005	7.0000e-004	0.0000	1.6000e-004	0.0000	1.7000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1580	0.1580	1.0000e-005	0.0000	0.1582
Total	1.2000e-004	1.5100e-003	9.7000e-004	0.0000	5.4000e-004	0.0000	5.5000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4739	0.4739	4.0000e-005	0.0000	0.4747

3.4 Grading - 2019

Baseline 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					0.0590	0.0000	0.0590	0.0317	0.0000	0.0317	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0236	0.2680	0.1243	2.8000e-004		0.0117	0.0117		0.0107	0.0107	0.0000	25.0109	25.0109	7.9100e-003	0.0000	25.2088
Total	0.0236	0.2680	0.1243	2.8000e-004	0.0590	0.0117	0.0706	0.0317	0.0107	0.0424	0.0000	25.0109	25.0109	7.9100e-003	0.0000	25.2088

Baseline Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.4000e-004	8.6600e-003	1.6700e-003	2.0000e-005	4.7000e-004	3.0000e-005	4.9000e-004	1.3000e-004	3.0000e-005	1.5000e-004	0.0000	1.9772	1.9772	1.6000e-004	0.0000	1.9812
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-004	3.6000e-004	3.9700e-003	1.0000e-005	1.0400e-003	1.0000e-005	1.0500e-003	2.8000e-004	1.0000e-005	2.8000e-004	0.0000	0.9692	0.9692	3.0000e-005	0.0000	0.9700
Total	7.0000e-004	9.0200e-003	5.6400e-003	3.0000e-005	1.5100e-003	4.0000e-005	1.5400e-003	4.1000e-004	4.0000e-005	4.3000e-004	0.0000	2.9464	2.9464	1.9000e-004	0.0000	2.9512

Regulatory Compliance Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0230	0.0000	0.0230	0.0123	0.0000	0.0123	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0142	0.2646	0.1482	2.8000e-004		8.2400e-003	8.2400e-003		7.9300e-003	7.9300e-003	0.0000	25.0109	25.0109	7.9100e-003	0.0000	25.2087
Total	0.0142	0.2646	0.1482	2.8000e-004	0.0230	8.2400e-003	0.0312	0.0123	7.9300e-003	0.0203	0.0000	25.0109	25.0109	7.9100e-003	0.0000	25.2087

Regulatory Compliance Construction Off-Site

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

Hauling	2.4000e-004	8.6600e-003	1.6700e-003	2.0000e-005	4.7000e-004	3.0000e-005	4.9000e-004	1.3000e-004	3.0000e-005	1.5000e-004	0.0000	1.9772	1.9772	1.6000e-004	0.0000	1.9812
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-004	3.6000e-004	3.9700e-003	1.0000e-005	1.0400e-003	1.0000e-005	1.0500e-003	2.8000e-004	1.0000e-005	2.8000e-004	0.0000	0.9692	0.9692	3.0000e-005	0.0000	0.9700
Total	7.0000e-004	9.0200e-003	5.6400e-003	3.0000e-005	1.5100e-003	4.0000e-005	1.5400e-003	4.1000e-004	4.0000e-005	4.3000e-004	0.0000	2.9464	2.9464	1.9000e-004	0.0000	2.9512

3.5 Building Construction - 2019

Baseline 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	0.3095	2.2881	1.8458	3.0300e-003		0.1319	0.1319		0.1264	0.1264	0.0000	253.8027	253.8027	0.0528	0.0000	255.1227
Total	0.3095	2.2881	1.8458	3.0300e-003		0.1319	0.1319		0.1264	0.1264	0.0000	253.8027	253.8027	0.0528	0.0000	255.1227

Baseline 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	0.0327	0.9635	0.2457	2.0900e-003	0.0519	6.3000e-003	0.0582	0.0150	6.0300e-003	0.0210	0.0000	202.5931	202.5931	0.0142	0.0000	202.9485
Worker	0.1771	0.1413	1.5361	4.1500e-003	0.4036	3.2200e-003	0.4068	0.1072	2.9700e-003	0.1101	0.0000	375.2885	375.2885	0.0118	0.0000	375.5827
Total	0.2098	1.1047	1.7818	6.2400e-003	0.4554	9.5200e-003	0.4650	0.1221	9.0000e-003	0.1311	0.0000	577.8816	577.8816	0.0260	0.0000	578.5312

Regulatory Compliance 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	0.2392	2.2286	1.9367	3.0300e-003		0.0999	0.0999		0.0999	0.0999	0.0000	253.8024	253.8024	0.0528	0.0000	255.1224
Total	0.2392	2.2286	1.9367	3.0300e-003		0.0999	0.0999		0.0999	0.0999	0.0000	253.8024	253.8024	0.0528	0.0000	255.1224

Regulatory Compliance 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	0.0327	0.9635	0.2457	2.0900e-003	0.0519	6.3000e-003	0.0582	0.0150	6.0300e-003	0.0210	0.0000	202.5931	202.5931	0.0142	0.0000	202.9485
Worker	0.1771	0.1413	1.5361	4.1500e-003	0.4036	3.2200e-003	0.4068	0.1072	2.9700e-003	0.1101	0.0000	375.2885	375.2885	0.0118	0.0000	375.5827
Total	0.2098	1.1047	1.7818	6.2400e-003	0.4554	9.5200e-003	0.4650	0.1221	9.0000e-003	0.1311	0.0000	577.8816	577.8816	0.0260	0.0000	578.5312

3.5 Building Construction - 2020

Baseline 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	0.2723	2.0746	1.7728	2.9800e-003		0.1128	0.1128		0.1082	0.1082	0.0000	247.0968	247.0968	0.0502	0.0000	248.3506
Total	0.2723	2.0746	1.7728	2.9800e-003		0.1128	0.1128		0.1082	0.1082	0.0000	247.0968	247.0968	0.0502	0.0000	248.3506

Baseline 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	0.0274	0.8677	0.2188	2.0400e-003	0.0510	4.2500e-003	0.0552	0.0147	4.0600e-003	0.0188	0.0000	197.9686	197.9686	0.0132	0.0000	198.2989
Worker	0.1610	0.1240	1.3724	3.9600e-003	0.3969	3.0800e-003	0.4000	0.1054	2.8400e-003	0.1083	0.0000	357.6466	357.6466	0.0103	0.0000	357.9041
Total	0.1884	0.9917	1.5912	6.0000e-003	0.4479	7.3300e-003	0.4552	0.1201	6.9000e-003	0.1270	0.0000	555.6152	555.6152	0.0235	0.0000	556.2030

Regulatory Compliance 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	0.2145	2.1373	1.8883	2.9800e-003		0.0901	0.0901		0.0901	0.0901	0.0000	247.0965	247.0965	0.0502	0.0000	248.3503

Total	0.2145	2.1373	1.8883	2.9800e-003		0.0901	0.0901		0.0901	0.0901	0.0000	247.0965	247.0965	0.0502	0.0000	248.3503
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Regulatory Compliance 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	0.0274	0.8677	0.2188	2.0400e-003	0.0510	4.2500e-003	0.0552	0.0147	4.0600e-003	0.0188	0.0000	197.9686	197.9686	0.0132	0.0000	198.2989
Worker	0.1610	0.1240	1.3724	3.9600e-003	0.3969	3.0800e-003	0.4000	0.1054	2.8400e-003	0.1083	0.0000	357.6466	357.6466	0.0103	0.0000	357.9041
Total	0.1884	0.9917	1.5912	6.0000e-003	0.4479	7.3300e-003	0.4552	0.1201	6.9000e-003	0.1270	0.0000	555.6152	555.6152	0.0235	0.0000	556.2030

3.6 Paving - 2020

Baseline 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	5.7700e-003	0.0579	0.0590	9.0000e-005		3.2800e-003	3.2800e-003		3.0300e-003	3.0300e-003	0.0000	7.7529	7.7529	2.4600e-003	0.0000	7.8143
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.7700e-003	0.0579	0.0590	9.0000e-005		3.2800e-003	3.2800e-003		3.0300e-003	3.0300e-003	0.0000	7.7529	7.7529	2.4600e-003	0.0000	7.8143

Baseline 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-004	2.6000e-004	2.8500e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7415	0.7415	2.0000e-005	0.0000	0.7420
Total	3.3000e-004	2.6000e-004	2.8500e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7415	0.7415	2.0000e-005	0.0000	0.7420

Regulatory Compliance 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	3.6700e-003	0.0781	0.0649	9.0000e-005		2.7900e-003	2.7900e-003		2.7900e-003	2.7900e-003	0.0000	7.7529	7.7529	2.4600e-003	0.0000	7.8143
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.6700e-003	0.0781	0.0649	9.0000e-005		2.7900e-003	2.7900e-003		2.7900e-003	2.7900e-003	0.0000	7.7529	7.7529	2.4600e-003	0.0000	7.8143

Regulatory Compliance 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-004	2.6000e-004	2.8500e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7415	0.7415	2.0000e-005	0.0000	0.7420
Total	3.3000e-004	2.6000e-004	2.8500e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7415	0.7415	2.0000e-005	0.0000	0.7420

3.7 Architectural Coating - 2020

Baseline 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	1.0040					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.3300e-003	0.0370	0.0403	7.0000e-005		2.4400e-003	2.4400e-003		2.4400e-003	2.4400e-003	0.0000	5.6172	5.6172	4.3000e-004	0.0000	5.6280
Total	1.0093	0.0370	0.0403	7.0000e-005		2.4400e-003	2.4400e-003		2.4400e-003	2.4400e-003	0.0000	5.6172	5.6172	4.3000e-004	0.0000	5.6280

Baseline Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.9700e-003	4.6000e-003	0.0509	1.5000e-004	0.0147	1.1000e-004	0.0148	3.9100e-003	1.1000e-004	4.0200e-003	0.0000	13.2674	13.2674	3.8000e-004	0.0000	13.2770
Total	5.9700e-003	4.6000e-003	0.0509	1.5000e-004	0.0147	1.1000e-004	0.0148	3.9100e-003	1.1000e-004	4.0200e-003	0.0000	13.2674	13.2674	3.8000e-004	0.0000	13.2770

Regulatory Compliance 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	1.0040					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5100e-003	0.0518	0.0403	7.0000e-005		2.0900e-003	2.0900e-003		2.0900e-003	2.0900e-003	0.0000	5.6172	5.6172	4.3000e-004	0.0000	5.6280
Total	1.0065	0.0518	0.0403	7.0000e-005		2.0900e-003	2.0900e-003		2.0900e-003	2.0900e-003	0.0000	5.6172	5.6172	4.3000e-004	0.0000	5.6280

Regulatory Compliance Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.9700e-003	4.6000e-003	0.0509	1.5000e-004	0.0147	1.1000e-004	0.0148	3.9100e-003	1.1000e-004	4.0200e-003	0.0000	13.2674	13.2674	3.8000e-004	0.0000	13.2770
Total	5.9700e-003	4.6000e-003	0.0509	1.5000e-004	0.0147	1.1000e-004	0.0148	3.9100e-003	1.1000e-004	4.0200e-003	0.0000	13.2674	13.2674	3.8000e-004	0.0000	13.2770

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Destination Accessibility

	ROG	NOx	CO	SO2	Fugitive 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					
Regulatory Compliance	0.4511	2.3588	5.7240	0.0201	1.6357	0.0165	1.6522	0.4383	0.0154	0.4537	0.0000	1,851.5764	1,851.5764	0.0936	0.0000	1,853.9170
Baseline	0.4951	2.6836	6.8420	0.0247	2.0404	0.0202	2.0605	0.5467	0.0188	0.5655	0.0000	2,279.5724	2,279.5724	0.1118	0.0000	2,282.3675

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Baseline	Regulatory Compliance
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,572.16	1,572.16	1,572.16	5,372,310	4,306,801
Enclosed Parking with Elevator	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	1,572.16	1,572.16	1,572.16	5,372,310	4,306,801

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	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.551391	0.043400	0.201050	0.120272	0.016162	0.005864	0.021029	0.030512	0.002059	0.001866	0.004766	0.000706	0.000924
Enclosed Parking with Elevator	0.551391	0.043400	0.201050	0.120272	0.016162	0.005864	0.021029	0.030512	0.002059	0.001866	0.004766	0.000706	0.000924
Other Non-Asphalt Surfaces	0.551391	0.043400	0.201050	0.120272	0.016162	0.005864	0.021029	0.030512	0.002059	0.001866	0.004766	0.000706	0.000924

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Regulatory						0.0000	0.0000		0.0000	0.0000	0.0000	1,063.8913	1,063.8913	0.0277	5.7200e-003	1,066.2884
Electricity Baseline						0.0000	0.0000		0.0000	0.0000	0.0000	1,063.8913	1,063.8913	0.0277	5.7200e-003	1,066.2884
NaturalGas Regulatory	0.0171	0.1462	0.0622	9.3000e-004		0.0118	0.0118		0.0118	0.0118	0.0000	169.3070	169.3070	3.2500e-003	3.1000e-003	170.3131
NaturalGas Baseline	0.0171	0.1462	0.0622	9.3000e-004		0.0118	0.0118		0.0118	0.0118	0.0000	169.3070	169.3070	3.2500e-003	3.1000e-003	170.3131

5.2 Energy by Land Use - NaturalGas

Baseline

	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	3.17269e+006	0.0171	0.1462	0.0622	9.3000e-004		0.0118	0.0118		0.0118	0.0118	0.0000	169.3070	169.3070	3.2500e-003	3.1000e-003	170.3131
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
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0171	0.1462	0.0622	9.3000e-004		0.0118	0.0118		0.0118	0.0118	0.0000	169.3070	169.3070	3.2500e-003	3.1000e-003	170.3131

Regulatory Compliance

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	3.17269e+006	0.0171	0.1462	0.0622	9.3000e-004		0.0118	0.0118		0.0118	0.0118	0.0000	169.3070	169.3070	3.2500e-003	3.1000e-003	170.3131
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
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0171	0.1462	0.0622	9.3000e-004		0.0118	0.0118		0.0118	0.0118	0.0000	169.3070	169.3070	3.2500e-003	3.1000e-003	170.3131

5.3 Energy by Land Use - Electricity

Baseline

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.1715e+006	592.6675	0.0154	3.1900e-003	594.0028
Enclosed Parking with Elevator	931447	471.2239	0.0123	2.5300e-003	472.2856
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		1,063.8913	0.0277	5.7200e-003	1,066.2884

Regulatory Compliance

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.1715e+06	592.6675	0.0154	3.1900e-003	594.0028
Enclosed Parking with Elevator	931447	471.2239	0.0123	2.5300e-003	472.2856
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		1,063.8913	0.0277	5.7200e-003	1,066.2884

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive 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					
Regulatory Compliance	1.3291	0.0345	2.9928	1.6000e-004		0.0165	0.0165		0.0165	0.0165	0.0000	4.8800	4.8800	4.7500e-003	0.0000	4.9987
Baseline	1.3291	0.0345	2.9928	1.6000e-004		0.0165	0.0165		0.0165	0.0165	0.0000	4.8800	4.8800	4.7500e-003	0.0000	4.9987

6.2 Area by SubCategory

Baseline

	ROG	NOx	CO	SO2	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	0.1004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.1377					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0911	0.0345	2.9928	1.6000e-004		0.0165	0.0165		0.0165	0.0165	0.0000	4.8800	4.8800	4.7500e-003	0.0000	4.9987
Total	1.3291	0.0345	2.9928	1.6000e-004		0.0165	0.0165		0.0165	0.0165	0.0000	4.8800	4.8800	4.7500e-003	0.0000	4.9987

Regulatory Compliance

	ROG	NOx	CO	SO2	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	0.1004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.1377					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0911	0.0345	2.9928	1.6000e-004		0.0165	0.0165		0.0165	0.0165	0.0000	4.8800	4.8800	4.7500e-003	0.0000	4.9987
Total	1.3291	0.0345	2.9928	1.6000e-004		0.0165	0.0165		0.0165	0.0165	0.0000	4.8800	4.8800	4.7500e-003	0.0000	4.9987

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Regulatory Compliance	166.6599	0.4951	0.0125	182.7497
Baseline	196.7321	0.6185	0.0155	216.8182

7.2 Water by Land Use

Baseline

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	18.8295 / 11.8708	196.7321	0.6185	0.0155	216.8182
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		196.7321	0.6185	0.0155	216.8182

Regulatory Compliance

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	15.0636 / 11.1467	166.6599	0.4951	0.0125	182.7497
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		166.6599	0.4951	0.0125	182.7497

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Regulatory Compliance	26.9856	1.5948	0.0000	66.8557
Baseline	26.9856	1.5948	0.0000	66.8557

8.2 Waste by Land Use

Baseline

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	132.94	26.9856	1.5948	0.0000	66.8557
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		26.9856	1.5948	0.0000	66.8557

Regulatory Compliance

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	132.94	26.9856	1.5948	0.0000	66.8557
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		26.9856	1.5948	0.0000	66.8557

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

GUSD Apartment Site Project - South Coast Air Basin, Summer

GUSD Apartment Site Project
South Coast Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	289.00	Dwelling Unit	2.40	310,753.00	827
Enclosed Parking with Elevator	399.00	Space	0.20	158,950.00	0
Other Non-Asphalt Surfaces	69.18	1000sqft	0.00	69,175.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	12	Operational Year		2021	
Utility Company	Glendale Water & Power				
CO2 Intensity (lb/MW hr)	1115.33	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Other non-asphalt uses include public and private open space

Construction Phase - Construction duration approximately 25 months

Off-road Equipment - Demolition would include 1 rubber tired loader, 1 track excavator, and 2 rubber tired backhoe

Off-road Equipment - Site prep includes dozers and backhoes

Off-road Equipment - Grading includes 1 rubber tired loader, excavator, backhoe, and dozer

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Grading - Approximately 6,600 cy of soil export

Demolition - Approximately 3,300 cy (4,620 ton of debris) to be hauled to Scholl Canyon Landfill

Trips and VMT - Super 10 dump trucks will be utilized during demolition for 50 total trips

Super 10 dump trucks will be utilized during grading for 85 total trips

Vehicle Trips - Based on traffic study trip generation rate

Woodstoves - No woodstoves, no fireplaces

Construction Off-road Equipment Mitigation - Per CARB Title 13 CCR Section 2520-2427, equipment required to be Tier 4 Final for new equipment. For conservative analysis, equipment set to Tier 2.

Mobile Land Use Mitigation -

Area Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2

tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstructionPhase	NumDays	10.00	44.00
tblConstructionPhase	NumDays	220.00	480.00
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	6.00	22.00
tblConstructionPhase	PhaseEndDate	10/31/2019	11/29/2020
tblConstructionPhase	PhaseEndDate	10/3/2019	11/29/2020
tblConstructionPhase	PhaseEndDate	11/16/2018	12/22/2018
tblConstructionPhase	PhaseEndDate	11/29/2018	1/27/2019
tblConstructionPhase	PhaseEndDate	10/17/2019	11/11/2020
tblConstructionPhase	PhaseEndDate	11/21/2018	12/26/2018
tblConstructionPhase	PhaseStartDate	10/18/2019	9/29/2020
tblConstructionPhase	PhaseStartDate	11/30/2018	1/28/2019
tblConstructionPhase	PhaseStartDate	11/22/2018	12/27/2018
tblConstructionPhase	PhaseStartDate	10/4/2019	10/29/2020
tblConstructionPhase	PhaseStartDate	11/17/2018	12/23/2018
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	245.65	0.00
tblFireplaces	NumberNoFireplace	28.90	0.00
tblFireplaces	NumberWood	14.45	0.00
tblGrading	AcresOfGrading	11.00	2.60
tblGrading	AcresOfGrading	4.50	0.00

tblGrading	MaterialExported	0.00	6,600.00
tblLandUse	LandUseSquareFeet	289,000.00	310,753.00
tblLandUse	LandUseSquareFeet	159,600.00	158,950.00
tblLandUse	LotAcreage	7.61	2.40
tblLandUse	LotAcreage	3.59	0.20
tblLandUse	LotAcreage	1.59	0.00
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Excavators
tblOffRoadEquipment	OffRoadEquipmentType	Graders	Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Dozers
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	13.20
tblTripsAndVMT	HaulingTripLength	20.00	13.20
tblTripsAndVMT	HaulingTripNumber	457.00	50.00
tblTripsAndVMT	HaulingTripNumber	825.00	85.00
tblTripsAndVMT	WorkerTripNumber	15.00	10.00
tblTripsAndVMT	WorkerTripNumber	10.00	5.00
tblTripsAndVMT	WorkerTripNumber	13.00	10.00
tblVehicleTrips	ST_TR	6.39	5.44
tblVehicleTrips	SU_TR	5.86	5.44
tblVehicleTrips	WD_TR	6.65	5.44
tblWoodstoves	NumberCatalytic	14.45	0.00
tblWoodstoves	NumberNoncatalytic	14.45	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.2 Overall Operational

Baseline Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	7.5123	0.2763	23.9427	1.2600e-003		0.1319	0.1319		0.1319	0.1319	0.0000	43.0341	43.0341	0.0419	0.0000	44.0810
Energy	0.0937	0.8011	0.3409	5.1100e-003		0.0648	0.0648		0.0648	0.0648		1,022.6250	1,022.6250	0.0196	0.0188	1,028.7019
Mobile	2.9009	14.1389	39.3977	0.1412	11.4180	0.1106	11.5286	3.0547	0.1033	3.1580		14,357.8718	14,357.8718	0.6829		14,374.9434
Total	10.5069	15.2162	63.6812	0.1476	11.4180	0.3073	11.7253	3.0547	0.3000	3.3547	0.0000	15,423.5309	15,423.5309	0.7443	0.0188	15,447.7263

Regulatory Compliance Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	7.5123	0.2763	23.9427	1.2600e-003		0.1319	0.1319		0.1319	0.1319	0.0000	43.0341	43.0341	0.0419	0.0000	44.0810
Energy	0.0937	0.8011	0.3409	5.1100e-003		0.0648	0.0648		0.0648	0.0648		1,022.6250	1,022.6250	0.0196	0.0188	1,028.7019
Mobile	2.6541	12.4838	32.7217	0.1147	9.1534	0.0905	9.2440	2.4489	0.0845	2.5334		11,662.3517	11,662.3517	0.5700		11,676.6017
Total	10.2602	13.5611	57.0053	0.1211	9.1534	0.2872	9.4406	2.4489	0.2812	2.7301	0.0000	12,728.0107	12,728.0107	0.6315	0.0188	12,749.3846

	ROG	NOx	CO	SO2	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	2.35	10.88	10.48	17.99	19.83	6.54	19.48	19.83	6.25	18.62	0.00	17.48	17.48	15.16	0.00	17.47

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	10/22/2018	12/22/2018	5	45	
2	Site Preparation	Site Preparation	12/23/2018	12/26/2018	5	3	
3	Grading	Grading	12/27/2018	1/27/2019	5	22	
4	Building Construction	Building Construction	1/28/2019	11/29/2020	5	480	
5	Paving	Paving	10/29/2020	11/11/2020	5	10	
6	Architectural Coating	Architectural Coating	9/29/2020	11/29/2020	5	44	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 2.6

Acres of Paving: 0.2

Residential Indoor: 629,275; Residential Outdoor: 209,758; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Grading	Excavators	1	8.00	158	0.38
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Excavators	1	8.00	158	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37

Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Loaders	1	8.00	203	0.36
Paving	Paving Equipment	1	8.00	132	0.36
Site Preparation	Graders	1	8.00	187	0.41
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Rubber Tired Loaders	1	8.00	203	0.36
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Scrapers	1	8.00	367	0.48
Building Construction	Welders	3	8.00	46	0.45

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	6	10.00	0.00	50.00	14.70	6.90	13.20	LD_Mix	HDT_Mix	HHDT
Site Preparation	4	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	5	10.00	0.00	85.00	14.70	6.90	13.20	LD_Mix	HDT_Mix	HHDT
Building Construction	8	304.00	68.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	61.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2018

Baseline Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.1970	0.0000	2.1970	0.3326	0.0000	0.3326			0.0000			0.0000
Off-Road	2.9366	30.1552	17.7851	0.0324		1.5809	1.5809		1.4758	1.4758		3,226.8374	3,226.8374	0.8659		3,248.4859
Total	2.9366	30.1552	17.7851	0.0324	2.1970	1.5809	3.7779	0.3326	1.4758	1.8084		3,226.8374	3,226.8374	0.8659		3,248.4859

Baseline Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.4200e-003	0.2691	0.0496	6.2000e-004	0.0128	9.2000e-004	0.0137	3.5100e-003	8.8000e-004	4.3900e-003		67.4183	67.4183	5.2900e-003		67.5505
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0534	0.0385	0.5003	1.2200e-003	0.1118	9.0000e-004	0.1127	0.0296	8.3000e-004	0.0305		121.8720	121.8720	4.1700e-003		121.9761
Total	0.0608	0.3076	0.5499	1.8400e-003	0.1246	1.8200e-003	0.1264	0.0332	1.7100e-003	0.0349		189.2903	189.2903	9.4600e-003		189.5267

Regulatory Compliance 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
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Category	lb/day										lb/day					
Fugitive Dust					0.8568	0.0000	0.8568	0.1297	0.0000	0.1297			0.0000			0.0000
Off-Road	1.7009	28.7363	20.1556	0.0324		1.0678	1.0678		1.0512	1.0512	0.0000	3,226.8374	3,226.8374	0.8659		3,248.4859
Total	1.7009	28.7363	20.1556	0.0324	0.8568	1.0678	1.9246	0.1297	1.0512	1.1809	0.0000	3,226.8374	3,226.8374	0.8659		3,248.4859

Regulatory Compliance Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.4200e-003	0.2691	0.0496	6.2000e-004	0.0128	9.2000e-004	0.0137	3.5100e-003	8.8000e-004	4.3900e-003		67.4183	67.4183	5.2900e-003		67.5505
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0534	0.0385	0.5003	1.2200e-003	0.1118	9.0000e-004	0.1127	0.0296	8.3000e-004	0.0305		121.8720	121.8720	4.1700e-003		121.9761
Total	0.0608	0.3076	0.5499	1.8400e-003	0.1246	1.8200e-003	0.1264	0.0332	1.7100e-003	0.0349		189.2903	189.2903	9.4600e-003		189.5267

3.3 Site Preparation - 2018

Baseline Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0221	0.0000	6.0221	3.3102	0.0000	3.3102			0.0000			0.0000
Off-Road	3.0656	36.1800	17.1225	0.0331		1.5646	1.5646		1.4394	1.4394		3,328.5865	3,328.5865	1.0362		3,354.4924

Total	3.0656	36.1800	17.1225	0.0331	6.0221	1.5646	7.5867	3.3102	1.4394	4.7496		3,328.5865	3,328.5865	1.0362		3,354.4924
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Baseline Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0267	0.0193	0.2502	6.1000e-004	0.0559	4.5000e-004	0.0563	0.0148	4.1000e-004	0.0152		60.9360	60.9360	2.0800e-003		60.9881
Total	0.0267	0.0193	0.2502	6.1000e-004	0.0559	4.5000e-004	0.0563	0.0148	4.1000e-004	0.0152		60.9360	60.9360	2.0800e-003		60.9881

Regulatory Compliance Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3486	0.0000	2.3486	1.2910	0.0000	1.2910			0.0000			0.0000
Off-Road	2.3285	32.9931	17.2289	0.0331		1.2061	1.2061		1.1263	1.1263	0.0000	3,328.5865	3,328.5865	1.0362		3,354.4923
Total	2.3285	32.9931	17.2289	0.0331	2.3486	1.2061	3.5547	1.2910	1.1263	2.4172	0.0000	3,328.5865	3,328.5865	1.0362		3,354.4923

Regulatory Compliance Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0267	0.0193	0.2502	6.1000e-004	0.0559	4.5000e-004	0.0563	0.0148	4.1000e-004	0.0152		60.9360	60.9360	2.0800e-003		60.9881
Total	0.0267	0.0193	0.2502	6.1000e-004	0.0559	4.5000e-004	0.0563	0.0148	4.1000e-004	0.0152		60.9360	60.9360	2.0800e-003		60.9881

3.4 Grading - 2018

Baseline Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.1813	0.0000	6.1813	3.3289	0.0000	3.3289			0.0000			0.0000
Off-Road	2.6376	30.4093	13.3469	0.0293		1.3360	1.3360		1.2291	1.2291		2,952.2352	2,952.2352	0.9191		2,975.2119
Total	2.6376	30.4093	13.3469	0.0293	6.1813	1.3360	7.5174	3.3289	1.2291	4.5580		2,952.2352	2,952.2352	0.9191		2,975.2119

Baseline Construction Off-Site

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

Hauling	0.0258	0.9358	0.1724	2.1700e-003	0.2581	3.2000e-003	0.2613	0.0646	3.0600e-003	0.0677		234.4317	234.4317	0.0184		234.8917
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0534	0.0385	0.5003	1.2200e-003	0.1118	9.0000e-004	0.1127	0.0296	8.3000e-004	0.0305		121.8720	121.8720	4.1700e-003		121.9761
Total	0.0792	0.9743	0.6727	3.3900e-003	0.3699	4.1000e-003	0.3740	0.0943	3.8900e-003	0.0982		356.3037	356.3037	0.0226		356.8678

Regulatory Compliance Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.4107	0.0000	2.4107	1.2983	0.0000	1.2983			0.0000			0.0000
Off-Road	1.5374	28.5663	15.7114	0.0293		0.8958	0.8958		0.8607	0.8607	0.0000	2,952.2352	2,952.2352	0.9191		2,975.2119
Total	1.5374	28.5663	15.7114	0.0293	2.4107	0.8958	3.3065	1.2983	0.8607	2.1589	0.0000	2,952.2352	2,952.2352	0.9191		2,975.2119

Regulatory Compliance Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0258	0.9358	0.1724	2.1700e-003	0.2581	3.2000e-003	0.2613	0.0646	3.0600e-003	0.0677		234.4317	234.4317	0.0184		234.8917
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0534	0.0385	0.5003	1.2200e-003	0.1118	9.0000e-004	0.1127	0.0296	8.3000e-004	0.0305		121.8720	121.8720	4.1700e-003		121.9761
Total	0.0792	0.9743	0.6727	3.3900e-003	0.3699	4.1000e-003	0.3740	0.0943	3.8900e-003	0.0982		356.3037	356.3037	0.0226		356.8678

3.4 Grading - 2019

Baseline Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.1813	0.0000	6.1813	3.3289	0.0000	3.3289			0.0000			0.0000
Off-Road	2.4845	28.2074	13.0790	0.0293		1.2276	1.2276		1.1294	1.1294		2,902.0859	2,902.0859	0.9182		2,925.0406
Total	2.4845	28.2074	13.0790	0.0293	6.1813	1.2276	7.4089	3.3289	1.1294	4.4583		2,902.0859	2,902.0859	0.9182		2,925.0406

Baseline Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0244	0.8891	0.1678	2.1400e-003	0.0499	2.9200e-003	0.0528	0.0135	2.7900e-003	0.0163		231.7376	231.7376	0.0181		232.1897
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0486	0.0340	0.4479	1.1900e-003	0.1118	8.7000e-004	0.1127	0.0296	8.1000e-004	0.0305		118.0362	118.0362	3.7000e-003		118.1286
Total	0.0729	0.9231	0.6158	3.3300e-003	0.1617	3.7900e-003	0.1655	0.0432	3.6000e-003	0.0468		349.7738	349.7738	0.0218		350.3183

Regulatory Compliance Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.4107	0.0000	2.4107	1.2983	0.0000	1.2983			0.0000			0.0000
Off-Road	1.4937	27.8533	15.6033	0.0293		0.8679	0.8679		0.8349	0.8349	0.0000	2,902.0859	2,902.0859	0.9182		2,925.0406
Total	1.4937	27.8533	15.6033	0.0293	2.4107	0.8679	3.2786	1.2983	0.8349	2.1332	0.0000	2,902.0859	2,902.0859	0.9182		2,925.0406

Regulatory Compliance Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0244	0.8891	0.1678	2.1400e-003	0.0499	2.9200e-003	0.0528	0.0135	2.7900e-003	0.0163		231.7376	231.7376	0.0181		232.1897
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0486	0.0340	0.4479	1.1900e-003	0.1118	8.7000e-004	0.1127	0.0296	8.1000e-004	0.0305		118.0362	118.0362	3.7000e-003		118.1286
Total	0.0729	0.9231	0.6158	3.3300e-003	0.1617	3.7900e-003	0.1655	0.0432	3.6000e-003	0.0468		349.7738	349.7738	0.0218		350.3183

3.5 Building Construction - 2019

Baseline Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.5581	18.9103	15.2545	0.0250		1.0901	1.0901		1.0449	1.0449		2,312.1454	2,312.1454	0.4810		2,324.1705

Total	2.5581	18.9103	15.2545	0.0250		1.0901	1.0901		1.0449	1.0449		2,312.1454	2,312.1454	0.4810		2,324.1705
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Baseline Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2650	7.8059	1.9249	0.0175	0.4351	0.0517	0.4869	0.1253	0.0495	0.1748		1,866.6827	1,866.6827	0.1256		1,869.8226
Worker	1.4759	1.0329	13.6171	0.0360	3.3980	0.0266	3.4246	0.9012	0.0245	0.9257		3,588.2989	3,588.2989	0.1125		3,591.1105
Total	1.7409	8.8388	15.5420	0.0535	3.8331	0.0783	3.9115	1.0264	0.0740	1.1004		5,454.9816	5,454.9816	0.2381		5,460.9331

Regulatory Compliance Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9768	18.4186	16.0058	0.0250		0.8255	0.8255		0.8255	0.8255	0.0000	2,312.1454	2,312.1454	0.4810		2,324.1705
Total	1.9768	18.4186	16.0058	0.0250		0.8255	0.8255		0.8255	0.8255	0.0000	2,312.1454	2,312.1454	0.4810		2,324.1705

Regulatory Compliance Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2650	7.8059	1.9249	0.0175	0.4351	0.0517	0.4869	0.1253	0.0495	0.1748		1,866.6827	1,866.6827	0.1256		1,869.8226
Worker	1.4759	1.0329	13.6171	0.0360	3.3980	0.0266	3.4246	0.9012	0.0245	0.9257		3,588.2989	3,588.2989	0.1125		3,591.1105
Total	1.7409	8.8388	15.5420	0.0535	3.8331	0.0783	3.9115	1.0264	0.0740	1.1004		5,454.9816	5,454.9816	0.2381		5,460.9331

3.5 Building Construction - 2020

Baseline Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2879	17.4336	14.8972	0.0250		0.9482	0.9482		0.9089	0.9089		2,288.8877	2,288.8877	0.4646		2,300.5014
Total	2.2879	17.4336	14.8972	0.0250		0.9482	0.9482		0.9089	0.9089		2,288.8877	2,288.8877	0.4646		2,300.5014

Baseline Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2258	7.1619	1.7421	0.0174	0.4351	0.0355	0.4706	0.1253	0.0339	0.1592		1,854.9809	1,854.9809	0.1187		1,857.9492
Worker	1.3636	0.9218	12.3904	0.0349	3.3980	0.0259	3.4239	0.9012	0.0239	0.9250		3,477.2624	3,477.2624	0.1002		3,479.7677
Total	1.5894	8.0837	14.1325	0.0523	3.8331	0.0614	3.8945	1.0264	0.0578	1.0842		5,332.2433	5,332.2433	0.2189		5,337.7169

Regulatory Compliance Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8027	17.9605	15.8678	0.0250		0.7575	0.7575		0.7575	0.7575	0.0000	2,288.8877	2,288.8877	0.4646		2,300.5014
Total	1.8027	17.9605	15.8678	0.0250		0.7575	0.7575		0.7575	0.7575	0.0000	2,288.8877	2,288.8877	0.4646		2,300.5014

Regulatory Compliance Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2258	7.1619	1.7421	0.0174	0.4351	0.0355	0.4706	0.1253	0.0339	0.1592		1,854.9809	1,854.9809	0.1187		1,857.9492
Worker	1.3636	0.9218	12.3904	0.0349	3.3980	0.0259	3.4239	0.9012	0.0239	0.9250		3,477.2624	3,477.2624	0.1002		3,479.7677
Total	1.5894	8.0837	14.1325	0.0523	3.8331	0.0614	3.8945	1.0264	0.0578	1.0842		5,332.2433	5,332.2433	0.2189		5,337.7169

3.6 Paving - 2020

Baseline Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1547	11.5873	11.8076	0.0178		0.6565	0.6565		0.6051	0.6051		1,709.2180	1,709.2180	0.5417		1,722.7605
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1547	11.5873	11.8076	0.0178		0.6565	0.6565		0.6051	0.6051		1,709.2180	1,709.2180	0.5417		1,722.7605

Baseline Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0673	0.0455	0.6114	1.7200e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1800e-003	0.0456		171.5755	171.5755	4.9400e-003		171.6991
Total	0.0673	0.0455	0.6114	1.7200e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1800e-003	0.0456		171.5755	171.5755	4.9400e-003		171.6991

Regulatory Compliance Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7344	15.6108	12.9737	0.0178		0.5580	0.5580		0.5580	0.5580	0.0000	1,709.2180	1,709.2180	0.5417		1,722.7605
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7344	15.6108	12.9737	0.0178		0.5580	0.5580		0.5580	0.5580	0.0000	1,709.2180	1,709.2180	0.5417		1,722.7605

Regulatory Compliance Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0673	0.0455	0.6114	1.7200e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1800e-003	0.0456		171.5755	171.5755	4.9400e-003		171.6991
Total	0.0673	0.0455	0.6114	1.7200e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1800e-003	0.0456		171.5755	171.5755	4.9400e-003		171.6991

3.7 Architectural Coating - 2020

Baseline Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	45.6342					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	45.8763	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928

Baseline Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2736	0.1850	2.4862	7.0000e-003	0.6818	5.2000e-003	0.6870	0.1808	4.7900e-003	0.1856		697.7402	697.7402	0.0201		698.2429
Total	0.2736	0.1850	2.4862	7.0000e-003	0.6818	5.2000e-003	0.6870	0.1808	4.7900e-003	0.1856		697.7402	697.7402	0.0201		698.2429

Regulatory Compliance Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	45.6342					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1139	2.3524	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0218		281.9928
Total	45.7481	2.3524	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0218		281.9928

Regulatory Compliance Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2736	0.1850	2.4862	7.0000e-003	0.6818	5.2000e-003	0.6870	0.1808	4.7900e-003	0.1856		697.7402	697.7402	0.0201		698.2429
Total	0.2736	0.1850	2.4862	7.0000e-003	0.6818	5.2000e-003	0.6870	0.1808	4.7900e-003	0.1856		697.7402	697.7402	0.0201		698.2429

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Destination Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Regulatory Compliance	2.6541	12.4838	32.7217	0.1147	9.1534	0.0905	9.2440	2.4489	0.0845	2.5334		11,662.3517	11,662.3517	0.5700		11,676.6017
Baseline	2.9009	14.1389	39.3977	0.1412	11.4180	0.1106	11.5286	3.0547	0.1033	3.1580		14,357.8718	14,357.8718	0.6829		14,374.9434

4.2 Trip Summary Information

Average Daily Trip Rate	Baseline	Regulatory Compliance
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Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,572.16	1,572.16	1572.16	5,372,310	4,306,801
Enclosed Parking with Elevator	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	1,572.16	1,572.16	1,572.16	5,372,310	4,306,801

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	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.551391	0.043400	0.201050	0.120272	0.016162	0.005864	0.021029	0.030512	0.002059	0.001866	0.004766	0.000706	0.000924
Enclosed Parking with Elevator	0.551391	0.043400	0.201050	0.120272	0.016162	0.005864	0.021029	0.030512	0.002059	0.001866	0.004766	0.000706	0.000924
Other Non-Asphalt Surfaces	0.551391	0.043400	0.201050	0.120272	0.016162	0.005864	0.021029	0.030512	0.002059	0.001866	0.004766	0.000706	0.000924

5.0 Energy Detail

Historical Energy Use: N

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
	lb/day										lb/day					
Natural Gas Regulatory	0.0937	0.8011	0.3409	5.1100e-003		0.0648	0.0648		0.0648	0.0648		1,022.6250	1,022.6250	0.0196	0.0188	1,028.7019

NaturalGas Baseline	0.0937	0.8011	0.3409	5.1100e-003		0.0648	0.0648		0.0648	0.0648		1,022.6250	1,022.6250	0.0196	0.0188	1,028.7019
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5.2 Energy by Land Use - NaturalGas

Baseline

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	8692.31	0.0937	0.8011	0.3409	5.1100e-003		0.0648	0.0648		0.0648	0.0648		1,022.6250	1,022.6250	0.0196	0.0188	1,028.7019
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
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0937	0.8011	0.3409	5.1100e-003		0.0648	0.0648		0.0648	0.0648		1,022.6250	1,022.6250	0.0196	0.0188	1,028.7019

Regulatory Compliance

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	8.69231	0.0937	0.8011	0.3409	5.1100e-003		0.0648	0.0648		0.0648	0.0648		1,022.6250	1,022.6250	0.0196	0.0188	1,028.7019
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
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0937	0.8011	0.3409	5.1100e-003		0.0648	0.0648		0.0648	0.0648		1,022.6250	1,022.6250	0.0196	0.0188	1,028.7019

6.0 Area Detail

Landscaping	0.7285	0.2763	23.9427	1.2600e-003		0.1319	0.1319		0.1319	0.1319		43.0341	43.0341	0.0419		44.0810
Total	7.5123	0.2763	23.9427	1.2600e-003		0.1319	0.1319		0.1319	0.1319	0.0000	43.0341	43.0341	0.0419	0.0000	44.0810

Regulatory Compliance

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5501					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.2337					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.7285	0.2763	23.9427	1.2600e-003		0.1319	0.1319		0.1319	0.1319			43.0341	43.0341	0.0419	44.0810
Total	7.5123	0.2763	23.9427	1.2600e-003		0.1319	0.1319		0.1319	0.1319	0.0000	43.0341	43.0341	0.0419	0.0000	44.0810

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

GUSD Apartment Site Project - South Coast Air Basin, Winter

GUSD Apartment Site Project
South Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	289.00	Dwelling Unit	2.40	310,753.00	827
Enclosed Parking with Elevator	399.00	Space	0.20	158,950.00	0
Other Non-Asphalt Surfaces	69.18	1000sqft	0.00	69,175.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	12			Operational Year	2021
Utility Company	Glendale Water & Power				
CO2 Intensity (lb/MW hr)	1115.33	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Other non-asphalt uses include public and private open space

Construction Phase - Construction duration approximately 25 months

Off-road Equipment - Demolition would include 1 rubber tired loader, 1 track excavator, and 2 rubber tired backhoe

Off-road Equipment - Site prep includes dozers and backhoes

Off-road Equipment - Grading includes 1 rubber tired loader, excavator, backhoe, and dozer

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Grading - Approximately 6,600 cy of soil export

Demolition - Approximately 3,300 cy (4,620 ton of debris) to be hauled to Scholl Canyon Landfill

Trips and VMT - Super 10 dump trucks will be utilized during demolition for 50 total trips

Super 10 dump trucks will be utilized during grading for 85 total trips

Vehicle Trips - Based on traffic study trip generation rate

Woodstoves - No woodstoves, no fireplaces

Construction Off-road Equipment Mitigation - Per CARB Title 13 CCR Section 2520-2427, equipment required to be Tier 4 Final for new equipment. For conservative analysis, equipment set to Tier 2.

Compliant with SCAQMD Rule 403 - Fugitive Dust

Mobile Land Use Mitigation -

Area Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2

tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstructionPhase	NumDays	10.00	44.00
tblConstructionPhase	NumDays	220.00	480.00
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	6.00	22.00
tblConstructionPhase	PhaseEndDate	10/31/2019	11/29/2020
tblConstructionPhase	PhaseEndDate	10/3/2019	11/29/2020
tblConstructionPhase	PhaseEndDate	11/16/2018	12/22/2018
tblConstructionPhase	PhaseEndDate	11/29/2018	1/27/2019
tblConstructionPhase	PhaseEndDate	10/17/2019	11/11/2020
tblConstructionPhase	PhaseEndDate	11/21/2018	12/26/2018
tblConstructionPhase	PhaseStartDate	10/18/2019	9/29/2020
tblConstructionPhase	PhaseStartDate	11/30/2018	1/28/2019
tblConstructionPhase	PhaseStartDate	11/22/2018	12/27/2018
tblConstructionPhase	PhaseStartDate	10/4/2019	10/29/2020
tblConstructionPhase	PhaseStartDate	11/17/2018	12/23/2018
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	245.65	0.00
tblFireplaces	NumberNoFireplace	28.90	0.00
tblFireplaces	NumberWood	14.45	0.00
tblGrading	AcresOfGrading	11.00	2.60

tblGrading	AcresOfGrading	4.50	0.00
tblGrading	MaterialExported	0.00	6,600.00
tblLandUse	LandUseSquareFeet	289,000.00	310,753.00
tblLandUse	LandUseSquareFeet	159,600.00	158,950.00
tblLandUse	LotAcreage	7.61	2.40
tblLandUse	LotAcreage	3.59	0.20
tblLandUse	LotAcreage	1.59	0.00
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Excavators
tblOffRoadEquipment	OffRoadEquipmentType	Graders	Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Dozers
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	13.20
tblTripsAndVMT	HaulingTripLength	20.00	13.20
tblTripsAndVMT	HaulingTripNumber	457.00	50.00
tblTripsAndVMT	HaulingTripNumber	825.00	85.00
tblTripsAndVMT	WorkerTripNumber	15.00	10.00
tblTripsAndVMT	WorkerTripNumber	10.00	5.00
tblTripsAndVMT	WorkerTripNumber	13.00	10.00
tblVehicleTrips	ST_TR	6.39	5.44
tblVehicleTrips	SU_TR	5.86	5.44
tblVehicleTrips	WD_TR	6.65	5.44
tblWoodstoves	NumberCatalytic	14.45	0.00
tblWoodstoves	NumberNoncatalytic	14.45	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.2 Overall Operational
Baseline Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	7.5123	0.2763	23.9427	1.2600e-003		0.1319	0.1319		0.1319	0.1319	0.0000	43.0341	43.0341	0.0419	0.0000	44.0810
Energy	0.0937	0.8011	0.3409	5.1100e-003		0.0648	0.0648		0.0648	0.0648		1,022.6250	1,022.6250	0.0196	0.0188	1,028.7019
Mobile	2.7880	14.4733	37.0345	0.1339	11.4180	0.1112	11.5292	3.0547	0.1039	3.1586		13,625.1761	13,625.1761	0.6806		13,642.1902
Total	10.3941	15.5506	61.3180	0.1403	11.4180	0.3079	11.7259	3.0547	0.3005	3.3553	0.0000	14,690.8351	14,690.8351	0.7421	0.0188	14,714.9731

Regulatory Compliance Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	7.5123	0.2763	23.9427	1.2600e-003		0.1319	0.1319		0.1319	0.1319	0.0000	43.0341	43.0341	0.0419	0.0000	44.0810
Energy	0.0937	0.8011	0.3409	5.1100e-003		0.0648	0.0648		0.0648	0.0648		1,022.6250	1,022.6250	0.0196	0.0188	1,028.7019
Mobile	2.5483	12.7248	31.0535	0.1087	9.1534	0.0911	9.2446	2.4489	0.0851	2.5340		11,061.0006	11,061.0006	0.5711		11,075.2783
Total	10.1544	13.8021	55.3370	0.1151	9.1534	0.2878	9.4412	2.4489	0.2818	2.7306	0.0000	12,126.6597	12,126.6597	0.6326	0.0188	12,148.0612

	ROG	NOx	CO	SO2	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	2.31	11.24	9.75	17.98	19.83	6.52	19.48	19.83	6.24	18.62	0.00	17.45	17.45	14.75	0.00	17.44

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	10/22/2018	12/22/2018	5	45	
2	Site Preparation	Site Preparation	12/23/2018	12/26/2018	5	3	
3	Grading	Grading	12/27/2018	1/27/2019	5	22	
4	Building Construction	Building Construction	1/28/2019	11/29/2020	5	480	
5	Paving	Paving	10/29/2020	11/11/2020	5	10	
6	Architectural Coating	Architectural Coating	9/29/2020	11/29/2020	5	44	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 2.6

Acres of Paving: 0.2

Residential Indoor: 629,275; Residential Outdoor: 209,758; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Grading	Excavators	1	8.00	158	0.38
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Excavators	1	8.00	158	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37

Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Loaders	1	8.00	203	0.36
Paving	Paving Equipment	1	8.00	132	0.36
Site Preparation	Graders	1	8.00	187	0.41
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Rubber Tired Loaders	1	8.00	203	0.36
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Scrapers	1	8.00	367	0.48
Building Construction	Welders	3	8.00	46	0.45

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	6	10.00	0.00	50.00	14.70	6.90	13.20	LD_Mix	HDT_Mix	HHDT
Site Preparation	4	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	5	10.00	0.00	85.00	14.70	6.90	13.20	LD_Mix	HDT_Mix	HHDT
Building Construction	8	304.00	68.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	61.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2018

Baseline Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.1970	0.0000	2.1970	0.3326	0.0000	0.3326			0.0000			0.0000
Off-Road	2.9366	30.1552	17.7851	0.0324		1.5809	1.5809		1.4758	1.4758		3,226.8374	3,226.8374	0.8659		3,248.4859
Total	2.9366	30.1552	17.7851	0.0324	2.1970	1.5809	3.7779	0.3326	1.4758	1.8084		3,226.8374	3,226.8374	0.8659		3,248.4859

Baseline Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.6900e-003	0.2708	0.0548	6.1000e-004	0.0128	9.5000e-004	0.0138	3.5100e-003	9.1000e-004	4.4200e-003		65.8293	65.8293	5.5700e-003		65.9686
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0586	0.0423	0.4559	1.1500e-003	0.1118	9.0000e-004	0.1127	0.0296	8.3000e-004	0.0305		114.3253	114.3253	3.9200e-003		114.4231
Total	0.0663	0.3131	0.5107	1.7600e-003	0.1246	1.8500e-003	0.1264	0.0332	1.7400e-003	0.0349		180.1545	180.1545	9.4900e-003		180.3917

Regulatory Compliance 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
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Category	lb/day										lb/day					
Fugitive Dust					0.8568	0.0000	0.8568	0.1297	0.0000	0.1297			0.0000			0.0000
Off-Road	1.7009	28.7363	20.1556	0.0324		1.0678	1.0678		1.0512	1.0512	0.0000	3,226.8374	3,226.8374	0.8659		3,248.4859
Total	1.7009	28.7363	20.1556	0.0324	0.8568	1.0678	1.9246	0.1297	1.0512	1.1809	0.0000	3,226.8374	3,226.8374	0.8659		3,248.4859

Regulatory Compliance Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.6900e-003	0.2708	0.0548	6.1000e-004	0.0128	9.5000e-004	0.0138	3.5100e-003	9.1000e-004	4.4200e-003		65.8293	65.8293	5.5700e-003		65.9686
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0586	0.0423	0.4559	1.1500e-003	0.1118	9.0000e-004	0.1127	0.0296	8.3000e-004	0.0305		114.3253	114.3253	3.9200e-003		114.4231
Total	0.0663	0.3131	0.5107	1.7600e-003	0.1246	1.8500e-003	0.1264	0.0332	1.7400e-003	0.0349		180.1545	180.1545	9.4900e-003		180.3917

3.3 Site Preparation - 2018

Baseline Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0221	0.0000	6.0221	3.3102	0.0000	3.3102			0.0000			0.0000
Off-Road	3.0656	36.1800	17.1225	0.0331		1.5646	1.5646		1.4394	1.4394		3,328.5865	3,328.5865	1.0362		3,354.4924

Total	3.0656	36.1800	17.1225	0.0331	6.0221	1.5646	7.5867	3.3102	1.4394	4.7496		3,328.5865	3,328.5865	1.0362		3,354.4924
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Baseline Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0293	0.0212	0.2280	5.7000e-004	0.0559	4.5000e-004	0.0563	0.0148	4.1000e-004	0.0152		57.1626	57.1626	1.9600e-003		57.2116
Total	0.0293	0.0212	0.2280	5.7000e-004	0.0559	4.5000e-004	0.0563	0.0148	4.1000e-004	0.0152		57.1626	57.1626	1.9600e-003		57.2116

Regulatory Compliance Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3486	0.0000	2.3486	1.2910	0.0000	1.2910			0.0000			0.0000
Off-Road	2.3285	32.9931	17.2289	0.0331		1.2061	1.2061		1.1263	1.1263	0.0000	3,328.5865	3,328.5865	1.0362		3,354.4923
Total	2.3285	32.9931	17.2289	0.0331	2.3486	1.2061	3.5547	1.2910	1.1263	2.4172	0.0000	3,328.5865	3,328.5865	1.0362		3,354.4923

Regulatory Compliance Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0293	0.0212	0.2280	5.7000e-004	0.0559	4.5000e-004	0.0563	0.0148	4.1000e-004	0.0152		57.1626	57.1626	1.9600e-003		57.2116
Total	0.0293	0.0212	0.2280	5.7000e-004	0.0559	4.5000e-004	0.0563	0.0148	4.1000e-004	0.0152		57.1626	57.1626	1.9600e-003		57.2116

3.4 Grading - 2018

Baseline Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.1813	0.0000	6.1813	3.3289	0.0000	3.3289			0.0000			0.0000
Off-Road	2.6376	30.4093	13.3469	0.0293		1.3360	1.3360		1.2291	1.2291		2,952.2352	2,952.2352	0.9191		2,975.2119
Total	2.6376	30.4093	13.3469	0.0293	6.1813	1.3360	7.5174	3.3289	1.2291	4.5580		2,952.2352	2,952.2352	0.9191		2,975.2119

Baseline Construction Off-Site

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

Hauling	0.0267	0.9416	0.1906	2.1200e-003	0.2581	3.2900e-003	0.2614	0.0646	3.1500e-003	0.0678		228.9063	228.9063	0.0194		229.3909
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0586	0.0423	0.4559	1.1500e-003	0.1118	9.0000e-004	0.1127	0.0296	8.3000e-004	0.0305		114.3253	114.3253	3.9200e-003		114.4231
Total	0.0853	0.9840	0.6465	3.2700e-003	0.3699	4.1900e-003	0.3741	0.0943	3.9800e-003	0.0982		343.2315	343.2315	0.0233		343.8140

Regulatory Compliance Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.4107	0.0000	2.4107	1.2983	0.0000	1.2983			0.0000			0.0000
Off-Road	1.5374	28.5663	15.7114	0.0293		0.8958	0.8958		0.8607	0.8607	0.0000	2,952.2352	2,952.2352	0.9191		2,975.2119
Total	1.5374	28.5663	15.7114	0.0293	2.4107	0.8958	3.3065	1.2983	0.8607	2.1589	0.0000	2,952.2352	2,952.2352	0.9191		2,975.2119

Regulatory Compliance Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0267	0.9416	0.1906	2.1200e-003	0.2581	3.2900e-003	0.2614	0.0646	3.1500e-003	0.0678		228.9063	228.9063	0.0194		229.3909
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0586	0.0423	0.4559	1.1500e-003	0.1118	9.0000e-004	0.1127	0.0296	8.3000e-004	0.0305		114.3253	114.3253	3.9200e-003		114.4231
Total	0.0853	0.9840	0.6465	3.2700e-003	0.3699	4.1900e-003	0.3741	0.0943	3.9800e-003	0.0982		343.2315	343.2315	0.0233		343.8140

3.4 Grading - 2019

Baseline Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.1813	0.0000	6.1813	3.3289	0.0000	3.3289			0.0000			0.0000
Off-Road	2.4845	28.2074	13.0790	0.0293		1.2276	1.2276		1.1294	1.1294		2,902.0859	2,902.0859	0.9182		2,925.0406
Total	2.4845	28.2074	13.0790	0.0293	6.1813	1.2276	7.4089	3.3289	1.1294	4.4583		2,902.0859	2,902.0859	0.9182		2,925.0406

Baseline Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0253	0.8943	0.1851	2.0900e-003	0.0499	3.0000e-003	0.0529	0.0135	2.8700e-003	0.0164		226.2101	226.2101	0.0190		226.6860
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0533	0.0373	0.4070	1.1100e-003	0.1118	8.7000e-004	0.1127	0.0296	8.1000e-004	0.0305		110.7167	110.7167	3.4700e-003		110.8035
Total	0.0786	0.9316	0.5921	3.2000e-003	0.1617	3.8700e-003	0.1655	0.0432	3.6800e-003	0.0468		336.9269	336.9269	0.0225		337.4896

Regulatory Compliance Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.4107	0.0000	2.4107	1.2983	0.0000	1.2983			0.0000			0.0000
Off-Road	1.4937	27.8533	15.6033	0.0293		0.8679	0.8679		0.8349	0.8349	0.0000	2,902.0859	2,902.0859	0.9182		2,925.0406
Total	1.4937	27.8533	15.6033	0.0293	2.4107	0.8679	3.2786	1.2983	0.8349	2.1332	0.0000	2,902.0859	2,902.0859	0.9182		2,925.0406

Regulatory Compliance Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0253	0.8943	0.1851	2.0900e-003	0.0499	3.0000e-003	0.0529	0.0135	2.8700e-003	0.0164		226.2101	226.2101	0.0190		226.6860
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0533	0.0373	0.4070	1.1100e-003	0.1118	8.7000e-004	0.1127	0.0296	8.1000e-004	0.0305		110.7167	110.7167	3.4700e-003		110.8035
Total	0.0786	0.9316	0.5921	3.2000e-003	0.1617	3.8700e-003	0.1655	0.0432	3.6800e-003	0.0468		336.9269	336.9269	0.0225		337.4896

3.5 Building Construction - 2019

Baseline Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.5581	18.9103	15.2545	0.0250		1.0901	1.0901		1.0449	1.0449		2,312.1454	2,312.1454	0.4810		2,324.1705

Total	2.5581	18.9103	15.2545	0.0250		1.0901	1.0901		1.0449	1.0449		2,312.1454	2,312.1454	0.4810		2,324.1705
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Baseline Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2765	7.8155	2.1318	0.0170	0.4351	0.0526	0.4877	0.1253	0.0503	0.1756		1,816.5447	1,816.5447	0.1343		1,819.9030
Worker	1.6209	1.1349	12.3719	0.0338	3.3980	0.0266	3.4246	0.9012	0.0245	0.9257		3,365.7888	3,365.7888	0.1055		3,368.4269
Total	1.8974	8.9504	14.5037	0.0508	3.8331	0.0792	3.9123	1.0264	0.0748	1.1012		5,182.3335	5,182.3335	0.2399		5,188.3299

Regulatory Compliance Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9768	18.4186	16.0058	0.0250		0.8255	0.8255		0.8255	0.8255	0.0000	2,312.1454	2,312.1454	0.4810		2,324.1705
Total	1.9768	18.4186	16.0058	0.0250		0.8255	0.8255		0.8255	0.8255	0.0000	2,312.1454	2,312.1454	0.4810		2,324.1705

Regulatory Compliance Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2765	7.8155	2.1318	0.0170	0.4351	0.0526	0.4877	0.1253	0.0503	0.1756		1,816.5447	1,816.5447	0.1343		1,819.9030
Worker	1.6209	1.1349	12.3719	0.0338	3.3980	0.0266	3.4246	0.9012	0.0245	0.9257		3,365.7888	3,365.7888	0.1055		3,368.4269
Total	1.8974	8.9504	14.5037	0.0508	3.8331	0.0792	3.9123	1.0264	0.0748	1.1012		5,182.3335	5,182.3335	0.2399		5,188.3299

3.5 Building Construction - 2020

Baseline Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2879	17.4336	14.8972	0.0250		0.9482	0.9482		0.9089	0.9089		2,288.8877	2,288.8877	0.4646		2,300.5014
Total	2.2879	17.4336	14.8972	0.0250		0.9482	0.9482		0.9089	0.9089		2,288.8877	2,288.8877	0.4646		2,300.5014

Baseline Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2361	7.1592	1.9304	0.0169	0.4351	0.0360	0.4711	0.1253	0.0344	0.1597		1,804.5663	1,804.5663	0.1269		1,807.7386
Worker	1.5000	1.0126	11.2353	0.0327	3.3980	0.0259	3.4239	0.9012	0.0239	0.9250		3,261.4679	3,261.4679	0.0939		3,263.8148
Total	1.7361	8.1718	13.1657	0.0496	3.8331	0.0619	3.8950	1.0264	0.0583	1.0847		5,066.0342	5,066.0342	0.2208		5,071.5534

Regulatory Compliance Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8027	17.9605	15.8678	0.0250		0.7575	0.7575		0.7575	0.7575	0.0000	2,288.8877	2,288.8877	0.4646		2,300.5014
Total	1.8027	17.9605	15.8678	0.0250		0.7575	0.7575		0.7575	0.7575	0.0000	2,288.8877	2,288.8877	0.4646		2,300.5014

Regulatory Compliance Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2361	7.1592	1.9304	0.0169	0.4351	0.0360	0.4711	0.1253	0.0344	0.1597		1,804.5663	1,804.5663	0.1269		1,807.7386
Worker	1.5000	1.0126	11.2353	0.0327	3.3980	0.0259	3.4239	0.9012	0.0239	0.9250		3,261.4679	3,261.4679	0.0939		3,263.8148
Total	1.7361	8.1718	13.1657	0.0496	3.8331	0.0619	3.8950	1.0264	0.0583	1.0847		5,066.0342	5,066.0342	0.2208		5,071.5534

3.6 Paving - 2020

Baseline Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1547	11.5873	11.8076	0.0178		0.6565	0.6565		0.6051	0.6051		1,709.2180	1,709.2180	0.5417		1,722.7605
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1547	11.5873	11.8076	0.0178		0.6565	0.6565		0.6051	0.6051		1,709.2180	1,709.2180	0.5417		1,722.7605

Baseline Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0740	0.0500	0.5544	1.6200e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1800e-003	0.0456		160.9277	160.9277	4.6300e-003		161.0435
Total	0.0740	0.0500	0.5544	1.6200e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1800e-003	0.0456		160.9277	160.9277	4.6300e-003		161.0435

Regulatory Compliance Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7344	15.6108	12.9737	0.0178		0.5580	0.5580		0.5580	0.5580	0.0000	1,709.2180	1,709.2180	0.5417		1,722.7605
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7344	15.6108	12.9737	0.0178		0.5580	0.5580		0.5580	0.5580	0.0000	1,709.2180	1,709.2180	0.5417		1,722.7605

Regulatory Compliance Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0740	0.0500	0.5544	1.6200e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1800e-003	0.0456		160.9277	160.9277	4.6300e-003		161.0435
Total	0.0740	0.0500	0.5544	1.6200e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1800e-003	0.0456		160.9277	160.9277	4.6300e-003		161.0435

3.7 Architectural Coating - 2020

Baseline Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	45.6342					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	45.8763	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928

Baseline Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3010	0.2032	2.2545	6.5700e-003	0.6818	5.2000e-003	0.6870	0.1808	4.7900e-003	0.1856		654.4393	654.4393	0.0188		654.9102
Total	0.3010	0.2032	2.2545	6.5700e-003	0.6818	5.2000e-003	0.6870	0.1808	4.7900e-003	0.1856		654.4393	654.4393	0.0188		654.9102

Regulatory Compliance Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	45.6342					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1139	2.3524	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0218		281.9928
Total	45.7481	2.3524	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0218		281.9928

Regulatory Compliance Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3010	0.2032	2.2545	6.5700e-003	0.6818	5.2000e-003	0.6870	0.1808	4.7900e-003	0.1856		654.4393	654.4393	0.0188		654.9102
Total	0.3010	0.2032	2.2545	6.5700e-003	0.6818	5.2000e-003	0.6870	0.1808	4.7900e-003	0.1856		654.4393	654.4393	0.0188		654.9102

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Destination Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Regulatory Compliance	2.5483	12.7248	31.0535	0.1087	9.1534	0.0911	9.2446	2.4489	0.0851	2.5340		11,061.006	11,061.006	0.5711		11,075.2783
Baseline	2.7880	14.4733	37.0345	0.1339	11.4180	0.1112	11.5292	3.0547	0.1039	3.1586		13,625.1761	13,625.1761	0.6806		13,642.1902

4.2 Trip Summary Information

Average Daily Trip Rate	Baseline	Regulatory Compliance
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Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,572.16	1,572.16	1572.16	5,372,310	4,306,801
Enclosed Parking with Elevator	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	1,572.16	1,572.16	1,572.16	5,372,310	4,306,801

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	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.551391	0.043400	0.201050	0.120272	0.016162	0.005864	0.021029	0.030512	0.002059	0.001866	0.004766	0.000706	0.000924
Enclosed Parking with Elevator	0.551391	0.043400	0.201050	0.120272	0.016162	0.005864	0.021029	0.030512	0.002059	0.001866	0.004766	0.000706	0.000924
Other Non-Asphalt Surfaces	0.551391	0.043400	0.201050	0.120272	0.016162	0.005864	0.021029	0.030512	0.002059	0.001866	0.004766	0.000706	0.000924

5.0 Energy Detail

Historical Energy Use: N

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
	lb/day										lb/day					
Natural Gas Regulatory	0.0937	0.8011	0.3409	5.1100e-003		0.0648	0.0648		0.0648	0.0648		1,022.6250	1,022.6250	0.0196	0.0188	1,028.7019

NaturalGas Baseline	0.0937	0.8011	0.3409	5.1100e-003		0.0648	0.0648		0.0648	0.0648		1,022.6250	1,022.6250	0.0196	0.0188	1,028.7019
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5.2 Energy by Land Use - NaturalGas

Baseline

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	8692.31	0.0937	0.8011	0.3409	5.1100e-003		0.0648	0.0648		0.0648	0.0648		1,022.6250	1,022.6250	0.0196	0.0188	1,028.7019
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
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0937	0.8011	0.3409	5.1100e-003		0.0648	0.0648		0.0648	0.0648		1,022.6250	1,022.6250	0.0196	0.0188	1,028.7019

Regulatory Compliance

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	8.69231	0.0937	0.8011	0.3409	5.1100e-003		0.0648	0.0648		0.0648	0.0648		1,022.6250	1,022.6250	0.0196	0.0188	1,028.7019
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
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0937	0.8011	0.3409	5.1100e-003		0.0648	0.0648		0.0648	0.0648		1,022.6250	1,022.6250	0.0196	0.0188	1,028.7019

6.0 Area Detail

Landscaping	0.7285	0.2763	23.9427	1.2600e-003		0.1319	0.1319		0.1319	0.1319		43.0341	43.0341	0.0419		44.0810
Total	7.5123	0.2763	23.9427	1.2600e-003		0.1319	0.1319		0.1319	0.1319	0.0000	43.0341	43.0341	0.0419	0.0000	44.0810

Regulatory Compliance

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5501					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.2337					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.7285	0.2763	23.9427	1.2600e-003		0.1319	0.1319		0.1319	0.1319			43.0341	43.0341	0.0419	44.0810
Total	7.5123	0.2763	23.9427	1.2600e-003		0.1319	0.1319		0.1319	0.1319	0.0000	43.0341	43.0341	0.0419	0.0000	44.0810

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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