

APPENDIX B
Air Quality Model Outputs

CALEEMOD OUTPUTS

Site Preparation and Infrastructure And Operational Emissions

- ◆ **Winter**
- ◆ **Annual**

McKinley Village
Sacramento Valley Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	11.70	Acre	11.70	509,652.00	0
Parking Lot	40.00	Space	0.36	16,000.00	0
City Park	4.00	Acre	4.00	174,240.00	0
Recreational Swimming Pool	2.00	1000sqft	0.05	2,000.00	0
Single Family Housing	328.00	Dwelling Unit	30.10	590,400.00	656
User Defined Residential	40.00	Dwelling Unit	0.00	16,480.00	40

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	65
Climate Zone	6			Operational Year	2018
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - lot acreage, sq ft, and population per Project Description

Construction Phase - phases and schedule per applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Trips and VMT - vendor trips added to represent water trucks, worker trips modified to match applicant estimates

Grading - project site size

Vehicle Trips - per project traffic study

Woodstoves - per Project Description

Consumer Products - consumer products emissions to be calculated by hand, off-model. The model applies the emission factor to all land uses, even parking and paving, which should not generate any consumer product emissions

Water And Wastewater - all wastewater treated at WWTP

Land Use Change -

Construction Off-road Equipment Mitigation - 20% NOx reduction for construction fleet applied using oxidation catalyst. basic construction emission control practices implemented per SMAQMD CEQA Handbook

Mobile Land Use Mitigation -

Energy Mitigation - 30% above 2013 Title 24. CEC estimated that 2013 Title 24 would result in 25% energy savings over 2008 Title 24. 30% above 2013 Title 24 is calculated as:

$$1 - [(1-.25) * (1-0.3)] \times 100 = 47.5\% \text{ improvement over 2008 Title 24}$$

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Residential_Exterior	409644	420120
tblAreaCoating	Area_Residential_Interior	1228932	1260360
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	16.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
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tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstructionPhase	NumDays	75.00	56.00
tblConstructionPhase	NumDays	55.00	43.00
tblConstructionPhase	NumDays	55.00	109.00
tblConstructionPhase	NumDays	30.00	10.00

tblConstructionPhase	PhaseEndDate	7/2/2015	11/28/2014
tblConstructionPhase	PhaseEndDate	3/4/2015	1/30/2015
tblConstructionPhase	PhaseEndDate	1/28/2015	9/30/2014
tblConstructionPhase	PhaseStartDate	1/31/2015	7/1/2014
tblConstructionPhase	PhaseStartDate	8/1/2014	7/1/2014
tblConstructionPhase	PhaseStartDate	11/29/2014	8/1/2014
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	180.40	164.00
tblFireplaces	NumberGas	22.00	20.00
tblFireplaces	NumberNoFireplace	32.80	164.00
tblFireplaces	NumberNoFireplace	4.00	20.00
tblFireplaces	NumberWood	114.80	0.00
tblFireplaces	NumberWood	14.00	0.00
tblGrading	AcresOfGrading	308.00	48.00
tblGrading	AcresOfGrading	5.00	0.00
tblLandUse	LandUseSquareFeet	0.00	16,480.00
tblLandUse	LotAcreage	106.49	30.10
tblLandUse	Population	938.00	656.00
tblLandUse	Population	114.00	40.00
tblOffRoadEquipment	HorsePower	80.00	97.00
tblOffRoadEquipment	LoadFactor	0.38	0.37
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		UPRR Underpass
tblOffRoadEquipment	PhaseName		UPRR Underpass
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		UPRR Underpass
tblOffRoadEquipment	PhaseName		Utilities/Trenching
tblOffRoadEquipment	PhaseName		Paving Onsite
tblOffRoadEquipment	PhaseName		Paving 40th Extension
tblOffRoadEquipment	PhaseName		UPRR Underpass
tblOffRoadEquipment	PhaseName		Utilities/Trenching
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		UPRR Underpass
tblOffRoadEquipment	PhaseName		Utilities/Trenching
tblOffRoadEquipment	PhaseName		Utilities/Trenching
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	VendorTripNumber	0.00	2.00

tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	16.40	0.00
tblWoodstoves	NumberCatalytic	2.00	0.00
tblWoodstoves	NumberNoncatalytic	16.40	0.00
tblWoodstoves	NumberNoncatalytic	2.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	39.0009	0.3550	30.6006	1.6000e-003		0.4137	0.4137		0.4111	0.4111	0.0000	3,951.1505	3,951.1505	0.1289	0.0714	3,976.0022
Energy	0.3116	2.6627	1.1330	0.0170		0.2153	0.2153		0.2153	0.2153		3,399.1235	3,399.1235	0.0652	0.0623	3,419.8100
Mobile	39.4599	37.6923	159.1957	0.2902	19.7768	0.4885	20.2653	5.2899	0.4496	5.7395		24,111.3297	24,111.3297	0.9294		24,130.8460
Total	78.7724	40.7099	190.9294	0.3088	19.7768	1.1174	20.8942	5.2899	1.0760	6.3659	0.0000	31,461.6037	31,461.6037	1.1234	0.1338	31,526.6581

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	39.0009	0.3550	30.6006	1.6000e-003		0.4137	0.4137		0.4111	0.4111	0.0000	3,951.1505	3,951.1505	0.1289	0.0714	3,976.0022
Energy	0.1909	1.6313	0.6942	0.0104		0.1319	0.1319		0.1319	0.1319		2,082.5188	2,082.5188	0.0399	0.0382	2,095.1927
Mobile	37.2109	35.6239	153.5999	0.2716	18.4627	0.4585	18.9212	4.9385	0.4220	5.3605		22,564.3600	22,564.3600	0.8750		22,582.7360
Total	76.4027	37.6101	184.8947	0.2836	18.4627	1.0041	19.4668	4.9385	0.9650	5.9034	0.0000	28,598.0293	28,598.0293	1.0438	0.1096	28,653.9308

	ROG	NOx	CO	SO2	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	3.01	7.61	3.16	8.15	6.64	10.14	6.83	6.64	10.31	7.26	0.00	9.10	9.10	7.08	18.05	9.11

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	5/1/2014	5/14/2014	5	10	
2	Grading	Grading	5/15/2014	7/31/2014	5	56	
3	UPRR Underpass	Trenching	7/1/2014	1/30/2015	5	154	
4	Paving 40th Extension	Paving	7/1/2014	11/28/2014	5	109	
5	Utilities/Trenching	Trenching	8/1/2014	9/30/2014	5	43	
6	Paving Onsite	Paving	10/1/2014	11/28/2014	5	43	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 48

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Crawler Tractors	2	8.00	208	0.43
Grading	Crawler Tractors	2	8.00	208	0.43
Grading	Graders	1	8.00	174	0.41
Grading	Rollers	3	8.00	97	0.37
Grading	Scrapers	4	8.00	361	0.48
UPRR Underpass	Air Compressors	1	8.00	78	0.48
UPRR Underpass	Cranes	1	3.00	226	0.29
UPRR Underpass	Dumpers/Tenders	2	8.00	16	0.38
UPRR Underpass	Excavators	1	8.00	162	0.38
UPRR Underpass	Tractors/Loaders/Backhoes	1	5.00	97	0.37
Utilities/Trenching	Dumpers/Tenders	2	8.00	16	0.38
Utilities/Trenching	Excavators	2	8.00	162	0.38
Utilities/Trenching	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Utilities/Trenching	Trenchers	1	8.00	80	0.50
Paving Onsite	Dumpers/Tenders	8	8.00	16	0.38
Paving Onsite	Pavers	2	8.00	125	0.42
Paving Onsite	Paving Equipment	2	8.00	130	0.36
Paving Onsite	Rollers	2	8.00	80	0.38
Paving 40th Extension	Dumpers/Tenders	4	8.00	16	0.38
Paving 40th Extension	Pavers	1	8.00	125	0.42
Paving 40th Extension	Paving Equipment	1	8.00	130	0.36
Paving 40th Extension	Rollers	1	8.00	80	0.38

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
Site Preparation	2	5.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	10	25.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
UPRR Underpass	6	20.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Utilities/Trenching	6	15.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving Onsite	14	27.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving 40th Extension	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Oxidation Catalyst for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0221	0.0000	6.0221	3.3102	0.0000	3.3102			0.0000			0.0000
Off-Road	1.4325	19.6788	5.7976	0.0154		0.7605	0.7605		0.6997	0.6997		1,634.354 4	1,634.354 4	0.4830		1,644.496 7
Total	1.4325	19.6788	5.7976	0.0154	6.0221	0.7605	6.7826	3.3102	0.6997	4.0099		1,634.354 4	1,634.354 4	0.4830		1,644.496 7

3.2 Site Preparation - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0902	0.2570	0.4704	4.8000e-004	0.0133	4.8500e-003	0.0181	3.7800e-003	4.4500e-003	8.2300e-003		48.3838	48.3838	4.9000e-004			48.3940
Worker	0.1104	0.0340	0.3206	4.6000e-004	0.0411	3.5000e-004	0.0414	0.0109	3.2000e-004	0.0112		40.8202	40.8202	2.6400e-003			40.8757
Total	0.2006	0.2910	0.7910	9.4000e-004	0.0543	5.2000e-003	0.0595	0.0147	4.7700e-003	0.0194		89.2041	89.2041	3.1300e-003			89.2697

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.4325	15.7430	5.7976	0.0154		0.7605	0.7605		0.6997	0.6997	0.0000	1,634.3543	1,634.3543	0.4830			1,644.4967
Fugitive Dust					2.7099	0.0000	2.7099	1.4896	0.0000	1.4896			0.0000				0.0000
Total	1.4325	15.7430	5.7976	0.0154	2.7099	0.7605	3.4705	1.4896	0.6997	2.1893	0.0000	1,634.3543	1,634.3543	0.4830			1,644.4967

3.2 Site Preparation - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0902	0.2570	0.4704	4.8000e-004	0.0133	4.8500e-003	0.0181	3.7800e-003	4.4500e-003	8.2300e-003		48.3838	48.3838	4.9000e-004		48.3940
Worker	0.1104	0.0340	0.3206	4.6000e-004	0.0411	3.5000e-004	0.0414	0.0109	3.2000e-004	0.0112		40.8202	40.8202	2.6400e-003		40.8757
Total	0.2006	0.2910	0.7910	9.4000e-004	0.0543	5.2000e-003	0.0595	0.0147	4.7700e-003	0.0194		89.2041	89.2041	3.1300e-003		89.2697

3.3 Grading - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.9090	0.0000	0.9090	0.0982	0.0000	0.0982			0.0000			0.0000
Off-Road	9.6701	118.9585	65.6563	0.0906		5.3522	5.3522		4.9240	4.9240		9,608.148 1	9,608.148 1	2.8393		9,667.773 7
Total	9.6701	118.9585	65.6563	0.0906	0.9090	5.3522	6.2612	0.0982	4.9240	5.0222		9,608.148 1	9,608.148 1	2.8393		9,667.773 7

3.3 Grading - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0902	0.2570	0.4704	4.8000e-004	0.0133	4.8500e-003	0.0181	3.7800e-003	4.4500e-003	8.2300e-003		48.3838	48.3838	4.9000e-004			48.3940
Worker	0.5520	0.1698	1.6029	2.3100e-003	0.2054	1.7600e-003	0.2071	0.0545	1.6000e-003	0.0561		204.1012	204.1012	0.0132			204.3785
Total	0.6422	0.4269	2.0733	2.7900e-003	0.2186	6.6100e-003	0.2252	0.0583	6.0500e-003	0.0643		252.4851	252.4851	0.0137			252.7725

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					0.4091	0.0000	0.4091	0.0442	0.0000	0.0442			0.0000				0.0000
Off-Road	9.6701	95.1668	65.6563	0.0906		5.3522	5.3522		4.9240	4.9240	0.0000	9,608.1481	9,608.1481	2.8393			9,667.7737
Total	9.6701	95.1668	65.6563	0.0906	0.4091	5.3522	5.7612	0.0442	4.9240	4.9682	0.0000	9,608.1481	9,608.1481	2.8393			9,667.7737

3.3 Grading - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0902	0.2570	0.4704	4.8000e-004	0.0133	4.8500e-003	0.0181	3.7800e-003	4.4500e-003	8.2300e-003		48.3838	48.3838	4.9000e-004			48.3940
Worker	0.5520	0.1698	1.6029	2.3100e-003	0.2054	1.7600e-003	0.2071	0.0545	1.6000e-003	0.0561		204.1012	204.1012	0.0132			204.3785
Total	0.6422	0.4269	2.0733	2.7900e-003	0.2186	6.6100e-003	0.2252	0.0583	6.0500e-003	0.0643		252.4851	252.4851	0.0137			252.7725

3.4 UPRR Underpass - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.6863	15.3252	9.1898	0.0148		0.9479	0.9479		0.9016	0.9016		1,489.6846	1,489.6846	0.3603			1,497.2510
Total	1.6863	15.3252	9.1898	0.0148		0.9479	0.9479		0.9016	0.9016		1,489.6846	1,489.6846	0.3603			1,497.2510

3.4 UPRR Underpass - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0902	0.2570	0.4704	4.8000e-004	0.0133	4.8500e-003	0.0181	3.7800e-003	4.4500e-003	8.2300e-003		48.3838	48.3838	4.9000e-004			48.3940
Worker	0.4416	0.1359	1.2823	1.8500e-003	0.1643	1.4100e-003	0.1657	0.0436	1.2800e-003	0.0449		163.2810	163.2810	0.0106			163.5028
Total	0.5318	0.3929	1.7527	2.3300e-003	0.1776	6.2600e-003	0.1838	0.0474	5.7300e-003	0.0531		211.6648	211.6648	0.0111			211.8968

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.6863	12.2602	9.1898	0.0148		0.9479	0.9479		0.9016	0.9016	0.0000	1,489.6846	1,489.6846	0.3603			1,497.2510
Total	1.6863	12.2602	9.1898	0.0148		0.9479	0.9479		0.9016	0.9016	0.0000	1,489.6846	1,489.6846	0.3603			1,497.2510

3.4 UPRR Underpass - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0902	0.2570	0.4704	4.8000e-004	0.0133	4.8500e-003	0.0181	3.7800e-003	4.4500e-003	8.2300e-003		48.3838	48.3838	4.9000e-004		48.3940
Worker	0.4416	0.1359	1.2823	1.8500e-003	0.1643	1.4100e-003	0.1657	0.0436	1.2800e-003	0.0449		163.2810	163.2810	0.0106		163.5028
Total	0.5318	0.3929	1.7527	2.3300e-003	0.1776	6.2600e-003	0.1838	0.0474	5.7300e-003	0.0531		211.6648	211.6648	0.0111		211.8968

3.4 UPRR Underpass - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6116	14.6849	9.1450	0.0148		0.8935	0.8935		0.8488	0.8488		1,479.5121	1,479.5121	0.3554		1,486.9763
Total	1.6116	14.6849	9.1450	0.0148		0.8935	0.8935		0.8488	0.8488		1,479.5121	1,479.5121	0.3554		1,486.9763

3.4 UPRR Underpass - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0755	0.2200	0.4296	4.7000e-004	0.0133	3.6800e-003	0.0170	3.7800e-003	3.3800e-003	7.1700e-003		47.7364	47.7364	4.2000e-004			47.7453
Worker	0.3997	0.1195	1.1206	1.8500e-003	0.1643	1.3000e-003	0.1656	0.0436	1.1800e-003	0.0448		157.4582	157.4582	9.4700e-003			157.6571
Total	0.4752	0.3396	1.5503	2.3200e-003	0.1776	4.9800e-003	0.1825	0.0474	4.5600e-003	0.0519		205.1946	205.1946	9.8900e-003			205.4024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.6116	11.7479	9.1450	0.0148		0.8935	0.8935		0.8488	0.8488	0.0000	1,479.5121	1,479.5121	0.3554			1,486.9763
Total	1.6116	11.7479	9.1450	0.0148		0.8935	0.8935		0.8488	0.8488	0.0000	1,479.5121	1,479.5121	0.3554			1,486.9763

3.4 UPRR Underpass - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0755	0.2200	0.4296	4.7000e-004	0.0133	3.6800e-003	0.0170	3.7800e-003	3.3800e-003	7.1700e-003		47.7364	47.7364	4.2000e-004			47.7453
Worker	0.3997	0.1195	1.1206	1.8500e-003	0.1643	1.3000e-003	0.1656	0.0436	1.1800e-003	0.0448		157.4582	157.4582	9.4700e-003			157.6571
Total	0.4752	0.3396	1.5503	2.3200e-003	0.1776	4.9800e-003	0.1825	0.0474	4.5600e-003	0.0519		205.1946	205.1946	9.8900e-003			205.4024

3.5 Paving 40th Extension - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.4829	14.9443	8.4965	0.0141		0.8119	0.8119		0.7538	0.7538		1,425.5070	1,425.5070	0.3762			1,433.4081
Paving	0.2899					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.7728	14.9443	8.4965	0.0141		0.8119	0.8119		0.7538	0.7538		1,425.5070	1,425.5070	0.3762			1,433.4081

3.5 Paving 40th Extension - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3975	0.1223	1.1541	1.6600e-003	0.1479	1.2700e-003	0.1491	0.0392	1.1500e-003	0.0404		146.9529	146.9529	9.5100e-003		147.1525
Total	0.3975	0.1223	1.1541	1.6600e-003	0.1479	1.2700e-003	0.1491	0.0392	1.1500e-003	0.0404		146.9529	146.9529	9.5100e-003		147.1525

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4829	11.9554	8.4965	0.0141		0.8119	0.8119		0.7538	0.7538	0.0000	1,425.5070	1,425.5070	0.3762		1,433.4081
Paving	0.2899					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.7728	11.9554	8.4965	0.0141		0.8119	0.8119		0.7538	0.7538	0.0000	1,425.5070	1,425.5070	0.3762		1,433.4081

3.5 Paving 40th Extension - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.3975	0.1223	1.1541	1.6600e-003	0.1479	1.2700e-003	0.1491	0.0392	1.1500e-003	0.0404		146.9529	146.9529	9.5100e-003			147.1525
Total	0.3975	0.1223	1.1541	1.6600e-003	0.1479	1.2700e-003	0.1491	0.0392	1.1500e-003	0.0404		146.9529	146.9529	9.5100e-003			147.1525

3.6 Utilities/Trenching - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.8517	18.8043	11.9946	0.0179		1.1452	1.1452		1.0570	1.0570		1,860.0139	1,860.0139	0.5272			1,871.0840
Total	1.8517	18.8043	11.9946	0.0179		1.1452	1.1452		1.0570	1.0570		1,860.0139	1,860.0139	0.5272			1,871.0840

3.6 Utilities/Trenching - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0902	0.2570	0.4704	4.8000e-004	0.0133	4.8500e-003	0.0181	3.7800e-003	4.4500e-003	8.2300e-003		48.3838	48.3838	4.9000e-004			48.3940
Worker	0.3312	0.1019	0.9617	1.3900e-003	0.1232	1.0600e-003	0.1243	0.0327	9.6000e-004	0.0336		122.4607	122.4607	7.9200e-003			122.6271
Total	0.4214	0.3589	1.4321	1.8700e-003	0.1365	5.9100e-003	0.1424	0.0365	5.4100e-003	0.0419		170.8446	170.8446	8.4100e-003			171.0211

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.8517	15.0434	11.9946	0.0179		1.1452	1.1452		1.0570	1.0570	0.0000	1,860.0139	1,860.0139	0.5272			1,871.0840
Total	1.8517	15.0434	11.9946	0.0179		1.1452	1.1452		1.0570	1.0570	0.0000	1,860.0139	1,860.0139	0.5272			1,871.0840

3.6 Utilities/Trenching - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0902	0.2570	0.4704	4.8000e-004	0.0133	4.8500e-003	0.0181	3.7800e-003	4.4500e-003	8.2300e-003		48.3838	48.3838	4.9000e-004			48.3940
Worker	0.3312	0.1019	0.9617	1.3900e-003	0.1232	1.0600e-003	0.1243	0.0327	9.6000e-004	0.0336		122.4607	122.4607	7.9200e-003			122.6271
Total	0.4214	0.3589	1.4321	1.8700e-003	0.1365	5.9100e-003	0.1424	0.0365	5.4100e-003	0.0419		170.8446	170.8446	8.4100e-003			171.0211

3.7 Paving Onsite - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.9657	29.8886	16.9929	0.0283		1.6239	1.6239		1.5077	1.5077		2,851.0140	2,851.0140	0.7525			2,866.8162
Paving	0.7348					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	3.7006	29.8886	16.9929	0.0283		1.6239	1.6239		1.5077	1.5077		2,851.0140	2,851.0140	0.7525			2,866.8162

3.7 Paving Onsite - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.5962	0.1834	1.7311	2.5000e-003	0.2218	1.9000e-003	0.2237	0.0588	1.7300e-003	0.0606		220.4293	220.4293	0.0143			220.7288
Total	0.5962	0.1834	1.7311	2.5000e-003	0.2218	1.9000e-003	0.2237	0.0588	1.7300e-003	0.0606		220.4293	220.4293	0.0143			220.7288

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.9657	23.9109	16.9929	0.0283		1.6239	1.6239		1.5077	1.5077	0.0000	2,851.0140	2,851.0140	0.7525			2,866.8162
Paving	0.7348					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	3.7006	23.9109	16.9929	0.0283		1.6239	1.6239		1.5077	1.5077	0.0000	2,851.0140	2,851.0140	0.7525			2,866.8162

3.7 Paving Onsite - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5962	0.1834	1.7311	2.5000e-003	0.2218	1.9000e-003	0.2237	0.0588	1.7300e-003	0.0606		220.4293	220.4293	0.0143		220.7288
Total	0.5962	0.1834	1.7311	2.5000e-003	0.2218	1.9000e-003	0.2237	0.0588	1.7300e-003	0.0606		220.4293	220.4293	0.0143		220.7288

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	37.2109	35.6239	153.5999	0.2716	18.4627	0.4585	18.9212	4.9385	0.4220	5.3605		22,564.3600	22,564.3600	0.8750		22,582.7360
Unmitigated	39.4599	37.6923	159.1957	0.2902	19.7768	0.4885	20.2653	5.2899	0.4496	5.7395		24,111.3297	24,111.3297	0.9294		24,130.8460

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	6.36	6.36	6.36	13,578	12,675
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Recreational Swimming Pool	82.00	82.00	82.00	148,197	138,350
Single Family Housing	3,138.96	3,306.24	2876.56	8,635,628	8,061,832
User Defined Residential	290.00	290.00	290.00		
Total	3,517.32	3,684.60	3,254.92	8,797,403	8,212,858

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9
Single Family Housing	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3
User Defined Residential	10.80	7.30	7.50	32.90	18.00	49.10	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.462115	0.061823	0.181510	0.153742	0.057112	0.007288	0.019722	0.042680	0.001823	0.001665	0.006988	0.000686	0.002845

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1909	1.6313	0.6942	0.0104		0.1319	0.1319		0.1319	0.1319		2,082.5188	2,082.5188	0.0399	0.0382	2,095.1927
NaturalGas Unmitigated	0.3116	2.6627	1.1330	0.0170		0.2153	0.2153		0.2153	0.2153		3,399.1235	3,399.1235	0.0652	0.0623	3,419.8100

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other 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
Parking Lot	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
Recreational Swimming Pool	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
Single Family Housing	28892.5	0.3116	2.6627	1.1330	0.0170		0.2153	0.2153		0.2153	0.2153		3,399.1235	3,399.1235	0.0652	0.0623	3,419.8100	
User Defined Residential	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		0.3116	2.6627	1.1330	0.0170		0.2153	0.2153		0.2153	0.2153		3,399.1235	3,399.1235	0.0652	0.0623	3,419.8100	

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other 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
Parking Lot	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
Recreational Swimming Pool	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
Single Family Housing	17.7014	0.1909	1.6313	0.6942	0.0104		0.1319	0.1319		0.1319	0.1319		2,082.5188	2,082.5188	0.0399	0.0382	2,095.1927
User Defined Residential	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		0.1909	1.6313	0.6942	0.0104		0.1319	0.1319		0.1319	0.1319		2,082.5188	2,082.5188	0.0399	0.0382	2,095.1927

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					
Mitigated	39.0009	0.3550	30.6006	1.6000e-003		0.4137	0.4137		0.4111	0.4111	0.0000	3,951.1505	3,951.1505	0.1289	0.0714	3,976.0022
Unmitigated	39.0009	0.3550	30.6006	1.6000e-003		0.4137	0.4137		0.4111	0.4111	0.0000	3,951.1505	3,951.1505	0.1289	0.0714	3,976.0022

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	9.6929					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	28.0077					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.3572	2.0000e-005	0.0195	0.0000		0.2468	0.2468		0.2442	0.2442	0.0000	3,896.4706	3,896.4706	0.0747	0.0714	3,920.1839
Landscaping	0.9431	0.3549	30.5811	1.6000e-003		0.1669	0.1669		0.1669	0.1669		54.6799	54.6799	0.0542		55.8183
Total	39.0009	0.3550	30.6006	1.6000e-003		0.4137	0.4137		0.4111	0.4111	0.0000	3,951.1505	3,951.1505	0.1289	0.0714	3,976.0022

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	9.6929					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	28.0077					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.3572	2.0000e-005	0.0195	0.0000		0.2468	0.2468		0.2442	0.2442	0.0000	3,896.4706	3,896.4706	0.0747	0.0714	3,920.1839
Landscaping	0.9431	0.3549	30.5811	1.6000e-003		0.1669	0.1669		0.1669	0.1669		54.6799	54.6799	0.0542		55.8183
Total	39.0009	0.3550	30.6006	1.6000e-003		0.4137	0.4137		0.4111	0.4111	0.0000	3,951.1505	3,951.1505	0.1289	0.0714	3,976.0022

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 Vegetation

McKinley Village
Sacramento Valley Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	11.70	Acre	11.70	509,652.00	0
Parking Lot	40.00	Space	0.36	16,000.00	0
City Park	4.00	Acre	4.00	174,240.00	0
Recreational Swimming Pool	2.00	1000sqft	0.05	2,000.00	0
Single Family Housing	328.00	Dwelling Unit	30.10	590,400.00	656
User Defined Residential	40.00	Dwelling Unit	0.00	16,480.00	40

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	65
Climate Zone	6			Operational Year	2018
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - lot acreage, sq ft, and population per Project Description

Construction Phase - phases and schedule per applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Trips and VMT - vendor trips added to represent water trucks, worker trips modified to match applicant estimates

Grading - project site size

Vehicle Trips - per project traffic study

Woodstoves - per Project Description

Consumer Products - consumer products emissions to be calculated by hand, off-model. The model applies the emission factor to all land uses, even parking and paving, which should not generate any consumer product emissions

Water And Wastewater - all wastewater treated at WWTP

Land Use Change -

Construction Off-road Equipment Mitigation - 20% NOx reduction for construction fleet applied using oxidation catalyst. basic construction emission control practices implemented per SMAQMD CEQA Handbook

Mobile Land Use Mitigation -

Energy Mitigation - 30% above 2013 Title 24. CEC estimated that 2013 Title 24 would result in 25% energy savings over 2008 Title 24. 30% above 2013 Title 24 is calculated as:

$$1 - [(1-.25) * (1-0.3)] \times 100 = 47.5\% \text{ improvement over 2008 Title 24}$$

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Residential_Exterior	409644	420120
tblAreaCoating	Area_Residential_Interior	1228932	1260360
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tblConstructionPhase	PhaseEndDate	3/4/2015	1/30/2015
tblConstructionPhase	PhaseEndDate	1/28/2015	9/30/2014
tblConstructionPhase	PhaseStartDate	1/31/2015	7/1/2014
tblConstructionPhase	PhaseStartDate	8/1/2014	7/1/2014
tblConstructionPhase	PhaseStartDate	11/29/2014	8/1/2014
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tblFireplaces	NumberWood	114.80	0.00
tblFireplaces	NumberWood	14.00	0.00
tblGrading	AcresOfGrading	308.00	48.00
tblGrading	AcresOfGrading	5.00	0.00
tblLandUse	LandUseSquareFeet	0.00	16,480.00
tblLandUse	LotAcreage	106.49	30.10
tblLandUse	Population	938.00	656.00
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tblOffRoadEquipment	HorsePower	80.00	97.00
tblOffRoadEquipment	LoadFactor	0.38	0.37
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
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tblOffRoadEquipment	PhaseName		Paving Onsite
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tblOffRoadEquipment	PhaseName		Utilities/Trenching
tblProjectCharacteristics	OperationalYear	2014	2018
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tblTripsAndVMT	WorkerTripNumber	15.00	20.00
tblTripsAndVMT	WorkerTripNumber	35.00	27.00
tblVehicleTrips	ST_TR	20.87	41.00
tblVehicleTrips	ST_TR	0.00	7.25
tblVehicleTrips	SU_TR	26.73	41.00
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tblVehicleTrips	WD_TR	32.93	41.00
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tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
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tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
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tblWater	SepticTankPercent	10.33	0.00

tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	16.40	0.00
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tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	6.9799	0.0319	2.7531	1.4000e-004		0.0251	0.0251		0.0250	0.0250	0.0000	149.3920	149.3920	7.2000e-003	2.6600e-003	150.3670
Energy	0.0569	0.4859	0.2068	3.1000e-003		0.0393	0.0393		0.0393	0.0393	0.0000	1,219.7163	1,219.7163	0.0431	0.0170	1,225.8889
Mobile	6.0241	6.1937	24.2804	0.0509	3.2765	0.0837	3.3602	0.8792	0.0771	0.9563	0.0000	3,838.9440	3,838.9440	0.1450	0.0000	3,841.9885
Waste						0.0000	0.0000		0.0000	0.0000	49.7166	0.0000	49.7166	2.9382	0.0000	111.4180
Water						0.0000	0.0000		0.0000	0.0000	7.6028	48.2945	55.8973	0.0285	0.0170	61.7742
Total	13.0609	6.7116	27.2402	0.0542	3.2765	0.1482	3.4246	0.8792	0.1414	1.0206	57.3193	5,256.3468	5,313.6661	3.1619	0.0367	5,391.4366

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	6.9799	0.0319	2.7531	1.4000e-004		0.0251	0.0251		0.0250	0.0250	0.0000	149.3920	149.3920	7.2000e-003	2.6600e-003	150.3670
Energy	0.0348	0.2977	0.1267	1.9000e-003		0.0241	0.0241		0.0241	0.0241	0.0000	971.3001	971.3001	0.0374	0.0127	976.0188
Mobile	5.6863	5.8548	23.3007	0.0477	3.0587	0.0786	3.1373	0.8208	0.0723	0.8932	0.0000	3,592.7596	3,592.7596	0.1365	0.0000	3,595.6262
Waste						0.0000	0.0000		0.0000	0.0000	49.7166	0.0000	49.7166	2.9382	0.0000	111.4180
Water						0.0000	0.0000		0.0000	0.0000	7.6028	48.2945	55.8973	0.0284	0.0170	61.7621
Total	12.7011	6.1845	26.1805	0.0497	3.0587	0.1278	3.1865	0.8208	0.1214	0.9423	57.3193	4,761.7462	4,819.0655	3.1477	0.0323	4,895.1920

	ROG	NOx	CO	SO2	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	2.75	7.85	3.89	8.23	6.64	13.75	6.95	6.64	14.12	7.68	0.00	9.41	9.31	0.45	11.81	9.20

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	5/1/2014	5/14/2014	5	10	
2	Grading	Grading	5/15/2014	7/31/2014	5	56	
3	UPRR Underpass	Trenching	7/1/2014	1/30/2015	5	154	
4	Paving 40th Extension	Paving	7/1/2014	11/28/2014	5	109	
5	Utilities/Trenching	Trenching	8/1/2014	9/30/2014	5	43	
6	Paving Onsite	Paving	10/1/2014	11/28/2014	5	43	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 48

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Crawler Tractors	2	8.00	208	0.43
Grading	Crawler Tractors	2	8.00	208	0.43
Grading	Graders	1	8.00	174	0.41
Grading	Rollers	3	8.00	97	0.37
Grading	Scrapers	4	8.00	361	0.48
UPRR Underpass	Air Compressors	1	8.00	78	0.48
UPRR Underpass	Cranes	1	3.00	226	0.29
UPRR Underpass	Dumpers/Tenders	2	8.00	16	0.38
UPRR Underpass	Excavators	1	8.00	162	0.38
UPRR Underpass	Tractors/Loaders/Backhoes	1	5.00	97	0.37
Utilities/Trenching	Dumpers/Tenders	2	8.00	16	0.38
Utilities/Trenching	Excavators	2	8.00	162	0.38
Utilities/Trenching	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Utilities/Trenching	Trenchers	1	8.00	80	0.50
Paving Onsite	Dumpers/Tenders	8	8.00	16	0.38
Paving Onsite	Pavers	2	8.00	125	0.42
Paving Onsite	Paving Equipment	2	8.00	130	0.36
Paving Onsite	Rollers	2	8.00	80	0.38
Paving 40th Extension	Dumpers/Tenders	4	8.00	16	0.38
Paving 40th Extension	Pavers	1	8.00	125	0.42
Paving 40th Extension	Paving Equipment	1	8.00	130	0.36
Paving 40th Extension	Rollers	1	8.00	80	0.38

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
Site Preparation	2	5.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	10	25.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
UPRR Underpass	6	20.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Utilities/Trenching	6	15.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving Onsite	14	27.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving 40th Extension	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Oxidation Catalyst for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0301	0.0000	0.0301	0.0166	0.0000	0.0166	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.1600e-003	0.0984	0.0290	8.0000e-005		3.8000e-003	3.8000e-003		3.5000e-003	3.5000e-003	0.0000	7.4133	7.4133	2.1900e-003	0.0000	7.4593
Total	7.1600e-003	0.0984	0.0290	8.0000e-005	0.0301	3.8000e-003	0.0339	0.0166	3.5000e-003	0.0201	0.0000	7.4133	7.4133	2.1900e-003	0.0000	7.4593

3.2 Site Preparation - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-004	1.2600e-003	1.9200e-003	0.0000	6.0000e-005	2.0000e-005	9.0000e-005	2.0000e-005	2.0000e-005	4.0000e-005	0.0000	0.2204	0.2204	0.0000	0.0000	0.2205	
Worker	4.8000e-004	1.5000e-004	1.5300e-003	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1906	0.1906	1.0000e-005	0.0000	0.1908	
Total	8.8000e-004	1.4100e-003	3.4500e-003	0.0000	2.6000e-004	2.0000e-005	2.9000e-004	7.0000e-005	2.0000e-005	9.0000e-005	0.0000	0.4110	0.4110	1.0000e-005	0.0000	0.4113	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0136	0.0000	0.0136	7.4500e-003	0.0000	7.4500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.1600e-003	0.0787	0.0290	8.0000e-005		3.8000e-003	3.8000e-003		3.5000e-003	3.5000e-003	0.0000	7.4133	7.4133	2.1900e-003	0.0000	7.4593
Total	7.1600e-003	0.0787	0.0290	8.0000e-005	0.0136	3.8000e-003	0.0174	7.4500e-003	3.5000e-003	0.0110	0.0000	7.4133	7.4133	2.1900e-003	0.0000	7.4593

3.2 Site Preparation - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-004	1.2600e-003	1.9200e-003	0.0000	6.0000e-005	2.0000e-005	9.0000e-005	2.0000e-005	2.0000e-005	4.0000e-005	0.0000	0.2204	0.2204	0.0000	0.0000	0.2205
Worker	4.8000e-004	1.5000e-004	1.5300e-003	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1906	0.1906	1.0000e-005	0.0000	0.1908
Total	8.8000e-004	1.4100e-003	3.4500e-003	0.0000	2.6000e-004	2.0000e-005	2.9000e-004	7.0000e-005	2.0000e-005	9.0000e-005	0.0000	0.4110	0.4110	1.0000e-005	0.0000	0.4113

3.3 Grading - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0255	0.0000	0.0255	2.7500e-003	0.0000	2.7500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2708	3.3308	1.8384	2.5400e-003		0.1499	0.1499		0.1379	0.1379	0.0000	244.0582	244.0582	0.0721	0.0000	245.5728
Total	0.2708	3.3308	1.8384	2.5400e-003	0.0255	0.1499	0.1753	2.7500e-003	0.1379	0.1406	0.0000	244.0582	244.0582	0.0721	0.0000	245.5728

3.3 Grading - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2300e-003	7.0700e-003	0.0108	1.0000e-005	3.6000e-004	1.3000e-004	4.9000e-004	1.0000e-004	1.2000e-004	2.3000e-004	0.0000	1.2344	1.2344	1.0000e-005	0.0000	1.2347
Worker	0.0134	4.2500e-003	0.0429	7.0000e-005	5.5300e-003	5.0000e-005	5.5800e-003	1.4700e-003	4.0000e-005	1.5200e-003	0.0000	5.3366	5.3366	3.4000e-004	0.0000	5.3436
Total	0.0156	0.0113	0.0536	8.0000e-005	5.8900e-003	1.8000e-004	6.0700e-003	1.5700e-003	1.6000e-004	1.7500e-003	0.0000	6.5710	6.5710	3.5000e-004	0.0000	6.5783

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0115	0.0000	0.0115	1.2400e-003	0.0000	1.2400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2708	2.6647	1.8384	2.5400e-003		0.1499	0.1499		0.1379	0.1379	0.0000	244.0579	244.0579	0.0721	0.0000	245.5725
Total	0.2708	2.6647	1.8384	2.5400e-003	0.0115	0.1499	0.1613	1.2400e-003	0.1379	0.1391	0.0000	244.0579	244.0579	0.0721	0.0000	245.5725

3.3 Grading - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2300e-003	7.0700e-003	0.0108	1.0000e-005	3.6000e-004	1.3000e-004	4.9000e-004	1.0000e-004	1.2000e-004	2.3000e-004	0.0000	1.2344	1.2344	1.0000e-005	0.0000	1.2347	
Worker	0.0134	4.2500e-003	0.0429	7.0000e-005	5.5300e-003	5.0000e-005	5.5800e-003	1.4700e-003	4.0000e-005	1.5200e-003	0.0000	5.3366	5.3366	3.4000e-004	0.0000	5.3436	
Total	0.0156	0.0113	0.0536	8.0000e-005	5.8900e-003	1.8000e-004	6.0700e-003	1.5700e-003	1.6000e-004	1.7500e-003	0.0000	6.5710	6.5710	3.5000e-004	0.0000	6.5783	

3.4 UPRR Underpass - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1113	1.0115	0.6065	9.8000e-004		0.0626	0.0626		0.0595	0.0595	0.0000	89.1937	89.1937	0.0216	0.0000	89.6467
Total	0.1113	1.0115	0.6065	9.8000e-004		0.0626	0.0626		0.0595	0.0595	0.0000	89.1937	89.1937	0.0216	0.0000	89.6467

3.4 UPRR Underpass - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.2500e-003	0.0167	0.0254	3.0000e-005	8.5000e-004	3.2000e-004	1.1600e-003	2.4000e-004	2.9000e-004	5.3000e-004	0.0000	2.9097	2.9097	3.0000e-005	0.0000	2.9103
Worker	0.0252	8.0200e-003	0.0809	1.3000e-004	0.0104	9.0000e-005	0.0105	2.7700e-003	8.0000e-005	2.8600e-003	0.0000	10.0632	10.0632	6.3000e-004	0.0000	10.0765
Total	0.0305	0.0247	0.1062	1.6000e-004	0.0113	4.1000e-004	0.0117	3.0100e-003	3.7000e-004	3.3900e-003	0.0000	12.9729	12.9729	6.6000e-004	0.0000	12.9868

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1113	0.8092	0.6065	9.8000e-004		0.0626	0.0626		0.0595	0.0595	0.0000	89.1936	89.1936	0.0216	0.0000	89.6466
Total	0.1113	0.8092	0.6065	9.8000e-004		0.0626	0.0626		0.0595	0.0595	0.0000	89.1936	89.1936	0.0216	0.0000	89.6466

3.4 UPRR Underpass - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.2500e-003	0.0167	0.0254	3.0000e-005	8.5000e-004	3.2000e-004	1.1600e-003	2.4000e-004	2.9000e-004	5.3000e-004	0.0000	2.9097	2.9097	3.0000e-005	0.0000	2.9103	
Worker	0.0252	8.0200e-003	0.0809	1.3000e-004	0.0104	9.0000e-005	0.0105	2.7700e-003	8.0000e-005	2.8600e-003	0.0000	10.0632	10.0632	6.3000e-004	0.0000	10.0765	
Total	0.0305	0.0247	0.1062	1.6000e-004	0.0113	4.1000e-004	0.0117	3.0100e-003	3.7000e-004	3.3900e-003	0.0000	12.9729	12.9729	6.6000e-004	0.0000	12.9868	

3.4 UPRR Underpass - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Off-Road	0.0177	0.1615	0.1006	1.6000e-004		9.8300e-003	9.8300e-003		9.3400e-003	9.3400e-003	0.0000	14.7641	14.7641	3.5500e-003	0.0000	14.8386	
Total	0.0177	0.1615	0.1006	1.6000e-004		9.8300e-003	9.8300e-003		9.3400e-003	9.3400e-003	0.0000	14.7641	14.7641	3.5500e-003	0.0000	14.8386	

3.4 UPRR Underpass - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.3000e-004	2.3800e-003	3.7900e-003	1.0000e-005	1.4000e-004	4.0000e-005	1.8000e-004	4.0000e-005	4.0000e-005	8.0000e-005	0.0000	0.4785	0.4785	0.0000	0.0000	0.4786
Worker	3.8000e-003	1.1800e-003	0.0118	2.0000e-005	1.7400e-003	1.0000e-005	1.7500e-003	4.6000e-004	1.0000e-005	4.8000e-004	0.0000	1.6175	1.6175	9.0000e-005	0.0000	1.6195
Total	4.5300e-003	3.5600e-003	0.0156	3.0000e-005	1.8800e-003	5.0000e-005	1.9300e-003	5.0000e-004	5.0000e-005	5.6000e-004	0.0000	2.0960	2.0960	9.0000e-005	0.0000	2.0981

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0177	0.1292	0.1006	1.6000e-004		9.8300e-003	9.8300e-003		9.3400e-003	9.3400e-003	0.0000	14.7641	14.7641	3.5500e-003	0.0000	14.8386
Total	0.0177	0.1292	0.1006	1.6000e-004		9.8300e-003	9.8300e-003		9.3400e-003	9.3400e-003	0.0000	14.7641	14.7641	3.5500e-003	0.0000	14.8386

3.4 UPRR Underpass - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.3000e-004	2.3800e-003	3.7900e-003	1.0000e-005	1.4000e-004	4.0000e-005	1.8000e-004	4.0000e-005	4.0000e-005	8.0000e-005	0.0000	0.4785	0.4785	0.0000	0.0000	0.4786	
Worker	3.8000e-003	1.1800e-003	0.0118	2.0000e-005	1.7400e-003	1.0000e-005	1.7500e-003	4.6000e-004	1.0000e-005	4.8000e-004	0.0000	1.6175	1.6175	9.0000e-005	0.0000	1.6195	
Total	4.5300e-003	3.5600e-003	0.0156	3.0000e-005	1.8800e-003	5.0000e-005	1.9300e-003	5.0000e-004	5.0000e-005	5.6000e-004	0.0000	2.0960	2.0960	9.0000e-005	0.0000	2.0981	

3.5 Paving 40th Extension - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0808	0.8145	0.4631	7.7000e-004		0.0443	0.0443		0.0411	0.0411	0.0000	70.4793	70.4793	0.0186	0.0000	70.8699
Paving	0.0158					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0966	0.8145	0.4631	7.7000e-004		0.0443	0.0443		0.0411	0.0411	0.0000	70.4793	70.4793	0.0186	0.0000	70.8699

3.5 Paving 40th Extension - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0188	5.9600e-003	0.0601	9.0000e-005	7.7500e-003	7.0000e-005	7.8200e-003	2.0600e-003	6.0000e-005	2.1200e-003	0.0000	7.4788	7.4788	4.7000e-004	0.0000	7.4887
Total	0.0188	5.9600e-003	0.0601	9.0000e-005	7.7500e-003	7.0000e-005	7.8200e-003	2.0600e-003	6.0000e-005	2.1200e-003	0.0000	7.4788	7.4788	4.7000e-004	0.0000	7.4887

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0808	0.6516	0.4631	7.7000e-004		0.0443	0.0443		0.0411	0.0411	0.0000	70.4792	70.4792	0.0186	0.0000	70.8699
Paving	0.0158					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0966	0.6516	0.4631	7.7000e-004		0.0443	0.0443		0.0411	0.0411	0.0000	70.4792	70.4792	0.0186	0.0000	70.8699

3.5 Paving 40th Extension - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0188	5.9600e-003	0.0601	9.0000e-005	7.7500e-003	7.0000e-005	7.8200e-003	2.0600e-003	6.0000e-005	2.1200e-003	0.0000	7.4788	7.4788	4.7000e-004	0.0000	7.4887	7.4887
Total	0.0188	5.9600e-003	0.0601	9.0000e-005	7.7500e-003	7.0000e-005	7.8200e-003	2.0600e-003	6.0000e-005	2.1200e-003	0.0000	7.4788	7.4788	4.7000e-004	0.0000	7.4887	7.4887

3.6 Utilities/Trenching - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0398	0.4043	0.2579	3.8000e-004		0.0246	0.0246		0.0227	0.0227	0.0000	36.2786	36.2786	0.0103	0.0000	36.4945
Total	0.0398	0.4043	0.2579	3.8000e-004		0.0246	0.0246		0.0227	0.0227	0.0000	36.2786	36.2786	0.0103	0.0000	36.4945

3.6 Utilities/Trenching - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7100e-003	5.4300e-003	8.2700e-003	1.0000e-005	2.8000e-004	1.0000e-004	3.8000e-004	8.0000e-005	9.0000e-005	1.7000e-004	0.0000	0.9479	0.9479	1.0000e-005	0.0000	0.9481
Worker	6.1700e-003	1.9600e-003	0.0198	3.0000e-005	2.5500e-003	2.0000e-005	2.5700e-003	6.8000e-004	2.0000e-005	7.0000e-004	0.0000	2.4586	2.4586	1.5000e-004	0.0000	2.4619
Total	7.8800e-003	7.3900e-003	0.0280	4.0000e-005	2.8300e-003	1.2000e-004	2.9500e-003	7.6000e-004	1.1000e-004	8.7000e-004	0.0000	3.4065	3.4065	1.6000e-004	0.0000	3.4099

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0398	0.3234	0.2579	3.8000e-004		0.0246	0.0246		0.0227	0.0227	0.0000	36.2785	36.2785	0.0103	0.0000	36.4945
Total	0.0398	0.3234	0.2579	3.8000e-004		0.0246	0.0246		0.0227	0.0227	0.0000	36.2785	36.2785	0.0103	0.0000	36.4945

3.6 Utilities/Trenching - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7100e-003	5.4300e-003	8.2700e-003	1.0000e-005	2.8000e-004	1.0000e-004	3.8000e-004	8.0000e-005	9.0000e-005	1.7000e-004	0.0000	0.9479	0.9479	1.0000e-005	0.0000	0.9481	
Worker	6.1700e-003	1.9600e-003	0.0198	3.0000e-005	2.5500e-003	2.0000e-005	2.5700e-003	6.8000e-004	2.0000e-005	7.0000e-004	0.0000	2.4586	2.4586	1.5000e-004	0.0000	2.4619	
Total	7.8800e-003	7.3900e-003	0.0280	4.0000e-005	2.8300e-003	1.2000e-004	2.9500e-003	7.6000e-004	1.1000e-004	8.7000e-004	0.0000	3.4065	3.4065	1.6000e-004	0.0000	3.4099	

3.7 Paving Onsite - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0638	0.6426	0.3654	6.1000e-004		0.0349	0.0349		0.0324	0.0324	0.0000	55.6075	55.6075	0.0147	0.0000	55.9157
Paving	0.0158					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0796	0.6426	0.3654	6.1000e-004		0.0349	0.0349		0.0324	0.0324	0.0000	55.6075	55.6075	0.0147	0.0000	55.9157

3.7 Paving Onsite - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0111	3.5300e-003	0.0356	6.0000e-005	4.5800e-003	4.0000e-005	4.6300e-003	1.2200e-003	4.0000e-005	1.2600e-003	0.0000	4.4255	4.4255	2.8000e-004	0.0000	4.4314
Total	0.0111	3.5300e-003	0.0356	6.0000e-005	4.5800e-003	4.0000e-005	4.6300e-003	1.2200e-003	4.0000e-005	1.2600e-003	0.0000	4.4255	4.4255	2.8000e-004	0.0000	4.4314

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0638	0.5141	0.3654	6.1000e-004		0.0349	0.0349		0.0324	0.0324	0.0000	55.6075	55.6075	0.0147	0.0000	55.9157
Paving	0.0158					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0796	0.5141	0.3654	6.1000e-004		0.0349	0.0349		0.0324	0.0324	0.0000	55.6075	55.6075	0.0147	0.0000	55.9157

3.7 Paving Onsite - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0111	3.5300e-003	0.0356	6.0000e-005	4.5800e-003	4.0000e-005	4.6300e-003	1.2200e-003	4.0000e-005	1.2600e-003	0.0000	4.4255	4.4255	2.8000e-004	0.0000	4.4314
Total	0.0111	3.5300e-003	0.0356	6.0000e-005	4.5800e-003	4.0000e-005	4.6300e-003	1.2200e-003	4.0000e-005	1.2600e-003	0.0000	4.4255	4.4255	2.8000e-004	0.0000	4.4314

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.6863	5.8548	23.3007	0.0477	3.0587	0.0786	3.1373	0.8208	0.0723	0.8932	0.0000	3,592.7596	3,592.7596	0.1365	0.0000	3,595,6262
Unmitigated	6.0241	6.1937	24.2804	0.0509	3.2765	0.0837	3.3602	0.8792	0.0771	0.9563	0.0000	3,838.9440	3,838.9440	0.1450	0.0000	3,841,9885

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	6.36	6.36	6.36	13,578	12,675
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Recreational Swimming Pool	82.00	82.00	82.00	148,197	138,350
Single Family Housing	3,138.96	3,306.24	2876.56	8,635,628	8,061,832
User Defined Residential	290.00	290.00	290.00		
Total	3,517.32	3,684.60	3,254.92	8,797,403	8,212,858

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9
Single Family Housing	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3
User Defined Residential	10.80	7.30	7.50	32.90	18.00	49.10	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.462115	0.061823	0.181510	0.153742	0.057112	0.007288	0.019722	0.042680	0.001823	0.001665	0.006988	0.000686	0.002845

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	626.5157	626.5157	0.0308	6.3700e-003	629.1362
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	656.9533	656.9533	0.0323	6.6800e-003	659.7010
NaturalGas Mitigated	0.0348	0.2977	0.1267	1.9000e-003		0.0241	0.0241		0.0241	0.0241	0.0000	344.7843	344.7843	6.6100e-003	6.3200e-003	346.8826
NaturalGas Unmitigated	0.0569	0.4859	0.2068	3.1000e-003		0.0393	0.0393		0.0393	0.0393	0.0000	562.7630	562.7630	0.0108	0.0103	566.1879

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	tons/yr										MT/yr						
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other 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	0.0000
Parking Lot	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	0.0000
Recreational Swimming Pool	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	0.0000
Single Family Housing	1.05458e+007	0.0569	0.4859	0.2068	3.1000e-003		0.0393	0.0393		0.0393	0.0393	0.0000	562.7630	562.7630	0.0108	0.0103	566.1879	
User Defined Residential	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		0.0569	0.4859	0.2068	3.1000e-003		0.0393	0.0393		0.0393	0.0393	0.0000	562.7630	562.7630	0.0108	0.0103	566.1879	

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	tons/yr										MT/yr						
Other 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	0.0000
Parking Lot	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	0.0000
Recreational Swimming Pool	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	0.0000
Single Family Housing	6.46101e+006	0.0348	0.2977	0.1267	1.9000e-003		0.0241	0.0241		0.0241	0.0241	0.0000	344.7843	344.7843	6.6100e-003	6.3200e-003	346.8826	
User Defined Residential	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	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0348	0.2977	0.1267	1.9000e-003		0.0241	0.0241		0.0241	0.0241	0.0000	344.7843	344.7843	6.6100e-003	6.3200e-003	346.8826	

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	14080	3.7701	1.9000e-004	4.0000e-005	3.7858
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	2.43943e+006	653.1832	0.0321	6.6400e-003	655.9152
User Defined Residential	0	0.0000	0.0000	0.0000	0.0000
Total		656.9533	0.0323	6.6800e-003	659.7010

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	14080	3.7701	1.9000e-004	4.0000e-005	3.7858
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	2.32576e+006	622.7457	0.0306	6.3300e-003	625.3503
User Defined Residential	0	0.0000	0.0000	0.0000	0.0000
Total		626.5157	0.0308	6.3700e-003	629.1362

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	6.9799	0.0319	2.7531	1.4000e-004		0.0251	0.0251		0.0250	0.0250	0.0000	149.3920	149.3920	7.2000e-003	2.6600e-003	150.3670
Unmitigated	6.9799	0.0319	2.7531	1.4000e-004		0.0251	0.0251		0.0250	0.0250	0.0000	149.3920	149.3920	7.2000e-003	2.6600e-003	150.3670

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.7690					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.1114					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0146	0.0000	8.0000e-004	0.0000		0.0101	0.0101		0.0100	0.0100	0.0000	144.9276	144.9276	2.7800e-003	2.6600e-003	145.8096
Landscaping	0.0849	0.0319	2.7523	1.4000e-004		0.0150	0.0150		0.0150	0.0150	0.0000	4.4644	4.4644	4.4300e-003	0.0000	4.5574
Total	6.9799	0.0319	2.7531	1.4000e-004		0.0251	0.0251		0.0250	0.0250	0.0000	149.3920	149.3920	7.2100e-003	2.6600e-003	150.3670

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.7690					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.1114					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0146	0.0000	8.0000e-004	0.0000		0.0101	0.0101		0.0100	0.0100	0.0000	144.9276	144.9276	2.7800e-003	2.6600e-003	145.8096
Landscaping	0.0849	0.0319	2.7523	1.4000e-004		0.0150	0.0150		0.0150	0.0150	0.0000	4.4644	4.4644	4.4300e-003	0.0000	4.5574
Total	6.9799	0.0319	2.7531	1.4000e-004		0.0251	0.0251		0.0250	0.0250	0.0000	149.3920	149.3920	7.2100e-003	2.6600e-003	150.3670

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	55.8973	0.0284	0.0170	61.7621
Unmitigated	55.8973	0.0285	0.0170	61.7742

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 4.76593	4.4664	2.2000e-004	5.0000e-005	4.4851
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0.118286 / 0.0724981	0.2812	1.6000e-004	9.0000e-005	0.3134
Single Family Housing	21.3705 / 13.4727	51.1497	0.0282	0.0169	56.9757
User Defined Residential	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		55.8973	0.0286	0.0170	61.7742

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 4.76593	4.4664	2.2000e-004	5.0000e-005	4.4851
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0.118286 / 0.0724981	0.2812	1.6000e-004	9.0000e-005	0.3133
Single Family Housing	21.3705 / 13.4727	51.1497	0.0280	0.0169	56.9636
User Defined Residential	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		55.8973	0.0284	0.0170	61.7621

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	49.7166	2.9382	0.0000	111.4180
Unmitigated	49.7166	2.9382	0.0000	111.4180

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.34	0.0690	4.0800e-003	0.0000	0.1547
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	11.4	2.3141	0.1368	0.0000	5.1860
Single Family Housing	233.18	47.3334	2.7973	0.0000	106.0773
User Defined Residential	0	0.0000	0.0000	0.0000	0.0000
Total		49.7166	2.9382	0.0000	111.4180

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.34	0.0690	4.0800e-003	0.0000	0.1547
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	11.4	2.3141	0.1368	0.0000	5.1860
Single Family Housing	233.18	47.3334	2.7973	0.0000	106.0773
User Defined Residential	0	0.0000	0.0000	0.0000	0.0000
Total		49.7166	2.9382	0.0000	111.4180

9.0 Operational Offroad

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

CALEEMOD OUTPUTS

Building Construction Phase A

- ◆ Winter
- ◆ Annual

McKinley Village Bldg Phase A
Sacramento Valley Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Recreational Swimming Pool	2.50	1000sqft	0.06	2,500.00	0
Single Family Housing	16.00	Dwelling Unit	1.50	28,800.00	46

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	65
Climate Zone	6			Operational Year	2018
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	590.31	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 - city's population per household (per census) is 2.0; lot acreage reflects minor portion of site for construction model homes; swimming pool land use used to represent the rec center/deli/cafe buildings.

Construction Phase - per applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Trips and VMT - applicant construction data

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Exterior	19,440.00	133,650.00
tblArchitecturalCoating	ConstArea_Residential_Interior	58,320.00	400,950.00
tblAreaCoating	Area_Residential_Exterior	19440	133650
tblAreaCoating	Area_Residential_Interior	58320	400950
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstructionPhase	NumDays	10.00	109.00
tblConstructionPhase	NumDays	200.00	109.00
tblConstructionPhase	PhaseEndDate	9/30/2015	4/30/2015
tblConstructionPhase	PhaseStartDate	5/1/2015	12/1/2014
tblFireplaces	NumberGas	8.80	60.50
tblFireplaces	NumberNoFireplace	1.60	11.00
tblFireplaces	NumberWood	5.60	38.50

tblLandUse	LotAcreage	5.19	1.50
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	3.00
tblOffRoadEquipment	UsageHours	6.00	3.00
tblOffRoadEquipment	UsageHours	6.00	3.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	OperationalYear	2014	2018
tblSolidWaste	SolidWasteGenerationRate	16.35	111.97
tblTripsAndVMT	VendorTripNumber	2.00	5.00
tblTripsAndVMT	WorkerTripNumber	7.00	15.00
tblTripsAndVMT	WorkerTripNumber	1.00	8.00
tblWater	IndoorWaterUseRate	1,042,464.41	7,166,942.82
tblWater	OutdoorWaterUseRate	657,205.82	4,518,290.04
tblWoodstoves	NumberCatalytic	0.80	5.50
tblWoodstoves	NumberNoncatalytic	0.80	5.50

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	170.7673	2.2994	208.7107	0.0811		29.1430	29.1430		29.1422	29.1422	3,054.8904	1,283.5539	4,338.4442	2.8215	0.2403	4,472.1860
Energy	0.0152	0.1299	0.0553	8.3000e-004		0.0105	0.0105		0.0105	0.0105		165.8109	165.8109	3.1800e-003	3.0400e-003	166.8200
Mobile	2.5351	2.4242	10.3416	0.0186	1.2644	0.0313	1.2957	0.3382	0.0288	0.3670		1,543.3631	1,543.3631	0.0597		1,544.6160
Total	173.3176	4.8535	219.1075	0.1005	1.2644	29.1849	30.4493	0.3382	29.1815	29.5197	3,054.8904	2,992.7278	6,047.6182	2.8844	0.2433	6,183.6220

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	170.7673	2.2994	208.7107	0.0811		29.1430	29.1430		29.1422	29.1422	3,054.8904	1,283.5539	4,338.4442	2.8215	0.2403	4,472.1860
Energy	0.0152	0.1299	0.0553	8.3000e-004		0.0105	0.0105		0.0105	0.0105		165.8109	165.8109	3.1800e-003	3.0400e-003	166.8200
Mobile	2.5351	2.4242	10.3416	0.0186	1.2644	0.0313	1.2957	0.3382	0.0288	0.3670		1,543.3631	1,543.3631	0.0597		1,544.6160
Total	173.3176	4.8535	219.1075	0.1005	1.2644	29.1849	30.4493	0.3382	29.1815	29.5197	3,054.8904	2,992.7278	6,047.6182	2.8844	0.2433	6,183.6220

	ROG	NOx	CO	SO2	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	Building Construction	Building Construction	12/1/2014	4/30/2015	5	109	
2	Architectural Coating	Architectural Coating	12/1/2014	4/30/2015	5	109	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 400,950; Residential Outdoor: 133,650; Non-Residential Indoor: 3,750; Non-Residential Outdoor: 1,250 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	3.00	226	0.29
Building Construction	Forklifts	1	3.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	2	3.00	97	0.37
Building Construction	Welders	1	4.00	46	0.45
Architectural Coating	Air Compressors	4	8.00	78	0.48
Architectural Coating	Cement and Mortar Mixers	1	6.00	9	0.56
Architectural Coating	Pressure Washers	1	4.00	13	0.30

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
Building Construction	7	15.00	5.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	6	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Oxidation Catalyst for Construction Equipment

Clean Paved Roads

3.2 Building Construction - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.5840	19.1173	12.2728	0.0195		1.3623	1.3623		1.3278	1.3278		1,883.2630	1,883.2630	0.3314		1,890.2219
Total	2.5840	19.1173	12.2728	0.0195		1.3623	1.3623		1.3278	1.3278		1,883.2630	1,883.2630	0.3314		1,890.2219

3.2 Building Construction - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.2255	0.6426	1.1759	1.1900e-003	0.0332	0.0121	0.0453	9.4600e-003	0.0111	0.0206		120.9596	120.9596	1.2200e-003			120.9851
Worker	0.3312	0.1019	0.9617	1.3900e-003	0.1232	1.0600e-003	0.1243	0.0327	9.6000e-004	0.0336		122.4607	122.4607	7.9200e-003			122.6271
Total	0.5567	0.7445	2.1377	2.5800e-003	0.1564	0.0132	0.1696	0.0421	0.0121	0.0542		243.4203	243.4203	9.1400e-003			243.6122

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.5840	15.2938	12.2728	0.0195		1.3623	1.3623		1.3278	1.3278	0.0000	1,883.2630	1,883.2630	0.3314			1,890.2219
Total	2.5840	15.2938	12.2728	0.0195		1.3623	1.3623		1.3278	1.3278	0.0000	1,883.2630	1,883.2630	0.3314			1,890.2219

3.2 Building Construction - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.2255	0.6426	1.1759	1.1900e-003	0.0332	0.0121	0.0453	9.4600e-003	0.0111	0.0206		120.9596	120.9596	1.2200e-003			120.9851
Worker	0.3312	0.1019	0.9617	1.3900e-003	0.1232	1.0600e-003	0.1243	0.0327	9.6000e-004	0.0336		122.4607	122.4607	7.9200e-003			122.6271
Total	0.5567	0.7445	2.1377	2.5800e-003	0.1564	0.0132	0.1696	0.0421	0.0121	0.0542		243.4203	243.4203	9.1400e-003			243.6122

3.2 Building Construction - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.3796	18.0449	12.1351	0.0195		1.2569	1.2569		1.2235	1.2235		1,877.6940	1,877.6940	0.3129			1,884.2644
Total	2.3796	18.0449	12.1351	0.0195		1.2569	1.2569		1.2235	1.2235		1,877.6940	1,877.6940	0.3129			1,884.2644

3.2 Building Construction - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.1887	0.5501	1.0741	1.1900e-003	0.0332	9.2100e-003	0.0424	9.4600e-003	8.4600e-003	0.0179		119.3411	119.3411	1.0500e-003			119.3632
Worker	0.2998	0.0897	0.8405	1.3900e-003	0.1232	9.7000e-004	0.1242	0.0327	8.9000e-004	0.0336		118.0936	118.0936	7.1000e-003			118.2428
Total	0.4885	0.6397	1.9146	2.5800e-003	0.1564	0.0102	0.1666	0.0421	9.3500e-003	0.0515		237.4347	237.4347	8.1500e-003			237.6060

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.3796	14.4360	12.1351	0.0195		1.2569	1.2569		1.2235	1.2235	0.0000	1,877.6940	1,877.6940	0.3129			1,884.2644
Total	2.3796	14.4360	12.1351	0.0195		1.2569	1.2569		1.2235	1.2235	0.0000	1,877.6940	1,877.6940	0.3129			1,884.2644

3.2 Building Construction - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.1887	0.5501	1.0741	1.1900e-003	0.0332	9.2100e-003	0.0424	9.4600e-003	8.4600e-003	0.0179		119.3411	119.3411	1.0500e-003			119.3632
Worker	0.2998	0.0897	0.8405	1.3900e-003	0.1232	9.7000e-004	0.1242	0.0327	8.9000e-004	0.0336		118.0936	118.0936	7.1000e-003			118.2428
Total	0.4885	0.6397	1.9146	2.5800e-003	0.1564	0.0102	0.1666	0.0421	9.3500e-003	0.0515		237.4347	237.4347	8.1500e-003			237.6060

3.3 Architectural Coating - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	57.3634					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Off-Road	2.4512	15.2766	10.6076	0.0167		1.3295	1.3295		1.3295	1.3295		1,558.4885	1,558.4885	0.2204			1,563.1159
Total	59.8146	15.2766	10.6076	0.0167		1.3295	1.3295		1.3295	1.3295		1,558.4885	1,558.4885	0.2204			1,563.1159

3.3 Architectural Coating - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1767	0.0544	0.5129	7.4000e-004	0.0657	5.6000e-004	0.0663	0.0174	5.1000e-004	0.0179		65.3124	65.3124	4.2200e-003		65.4011
Total	0.1767	0.0544	0.5129	7.4000e-004	0.0657	5.6000e-004	0.0663	0.0174	5.1000e-004	0.0179		65.3124	65.3124	4.2200e-003		65.4011

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	57.3634					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	2.4512	12.2212	10.6076	0.0167		1.3295	1.3295		1.3295	1.3295	0.0000	1,558.4885	1,558.4885	0.2204		1,563.1159
Total	59.8146	12.2212	10.6076	0.0167		1.3295	1.3295		1.3295	1.3295	0.0000	1,558.4885	1,558.4885	0.2204		1,563.1159

3.3 Architectural Coating - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1767	0.0544	0.5129	7.4000e-004	0.0657	5.6000e-004	0.0663	0.0174	5.1000e-004	0.0179		65.3124	65.3124	4.2200e-003		65.4011
Total	0.1767	0.0544	0.5129	7.4000e-004	0.0657	5.6000e-004	0.0663	0.0174	5.1000e-004	0.0179		65.3124	65.3124	4.2200e-003		65.4011

3.3 Architectural Coating - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	57.3634					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	2.2384	14.1631	10.4997	0.0167		1.1991	1.1991		1.1991	1.1991		1,558.4886	1,558.4886	0.2017		1,562.7242
Total	59.6019	14.1631	10.4997	0.0167		1.1991	1.1991		1.1991	1.1991		1,558.4886	1,558.4886	0.2017		1,562.7242

3.3 Architectural Coating - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.1599	0.0478	0.4483	7.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.7000e-004	0.0179		62.9833	62.9833	3.7900e-003			63.0629
Total	0.1599	0.0478	0.4483	7.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.7000e-004	0.0179		62.9833	62.9833	3.7900e-003			63.0629

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	57.3634					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Off-Road	2.2384	11.3305	10.4997	0.0167		1.1991	1.1991		1.1991	1.1991	0.0000	1,558.4886	1,558.4886	0.2017			1,562.7242
Total	59.6019	11.3305	10.4997	0.0167		1.1991	1.1991		1.1991	1.1991	0.0000	1,558.4886	1,558.4886	0.2017			1,562.7242

3.3 Architectural Coating - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.1599	0.0478	0.4483	7.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.7000e-004	0.0179		62.9833	62.9833	3.7900e-003			63.0629
Total	0.1599	0.0478	0.4483	7.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.7000e-004	0.0179		62.9833	62.9833	3.7900e-003			63.0629

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					
Mitigated	2.5351	2.4242	10.3416	0.0186	1.2644	0.0313	1.2957	0.3382	0.0288	0.3670		1,543.3631	1,543.3631	0.0597		1,544.6160
Unmitigated	2.5351	2.4242	10.3416	0.0186	1.2644	0.0313	1.2957	0.3382	0.0288	0.3670		1,543.3631	1,543.3631	0.0597		1,544.6160

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Recreational Swimming Pool	82.33	52.18	66.83	136,998	136,998
Single Family Housing	153.12	161.28	140.32	421,250	421,250
Total	235.45	213.46	207.15	558,248	558,248

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
Recreational Swimming Pool	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9
Single Family Housing	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.462115	0.061823	0.181510	0.153742	0.057112	0.007288	0.019722	0.042680	0.001823	0.001665	0.006988	0.000686	0.002845

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0152	0.1299	0.0553	8.3000e-004		0.0105	0.0105		0.0105	0.0105		165.8109	165.8109	3.1800e-003	3.0400e-003	166.8200
NaturalGas Unmitigated	0.0152	0.1299	0.0553	8.3000e-004		0.0105	0.0105		0.0105	0.0105		165.8109	165.8109	3.1800e-003	3.0400e-003	166.8200

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Recreational Swimming Pool	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
Single Family Housing	1409.39	0.0152	0.1299	0.0553	8.3000e-004		0.0105	0.0105		0.0105	0.0105		165.8109	165.8109	3.1800e-003	3.0400e-003	166.8200
Total		0.0152	0.1299	0.0553	8.3000e-004		0.0105	0.0105		0.0105	0.0105		165.8109	165.8109	3.1800e-003	3.0400e-003	166.8200

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	1.40939	0.0152	0.1299	0.0553	8.3000e-004		0.0105	0.0105		0.0105	0.0105		165.8109	165.8109	3.1800e-003	3.0400e-003	166.8200
Recreational Swimming Pool	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		0.0152	0.1299	0.0553	8.3000e-004		0.0105	0.0105		0.0105	0.0105		165.8109	165.8109	3.1800e-003	3.0400e-003	166.8200

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					
Mitigated	170.7673	2.2994	208.7107	0.0811		29.1430	29.1430		29.1422	29.1422	3,054.8904	1,283.5539	4,338.4442	2.8215	0.2403	4,472.1860
Unmitigated	170.7673	2.2994	208.7107	0.0811		29.1430	29.1430		29.1422	29.1422	3,054.8904	1,283.5539	4,338.4442	2.8215	0.2403	4,472.1860

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.7131					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6698					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	168.3435	2.2840	207.3811	0.0810		29.1358	29.1358		29.1349	29.1349	3,054.8904	1,281.1765	4,336.0669	2.8192	0.2403	4,469.7591
Landscaping	0.0410	0.0154	1.3296	7.0000e-005		7.2600e-003	7.2600e-003		7.2600e-003	7.2600e-003		2.3774	2.3774	2.3600e-003		2.4269
Total	170.7673	2.2994	208.7107	0.0811		29.1430	29.1430		29.1422	29.1422	3,054.8904	1,283.5539	4,338.4442	2.8215	0.2403	4,472.1860

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	lb/day										lb/day						
Architectural Coating	1.7131					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Consumer Products	0.6698					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Hearth	168.3435	2.2840	207.3811	0.0810		29.1358	29.1358		29.1349	29.1349	3,054.8904	1,281.1765	4,336.0669	2.8192	0.2403		4,469.7591
Landscaping	0.0410	0.0154	1.3296	7.0000e-005		7.2600e-003	7.2600e-003		7.2600e-003	7.2600e-003		2.3774	2.3774	2.3600e-003			2.4269
Total	170.7673	2.2994	208.7107	0.0811		29.1430	29.1430		29.1422	29.1422	3,054.8904	1,283.5539	4,338.4442	2.8215	0.2403		4,472.1860

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 Vegetation

McKinley Village Bldg Phase A Sacramento Valley Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Recreational Swimming Pool	2.50	1000sqft	0.06	2,500.00	0
Single Family Housing	16.00	Dwelling Unit	1.50	28,800.00	46

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	65
Climate Zone	6			Operational Year	2018
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	590.31	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 - city's population per household (per census) is 2.0; lot acreage reflects minor portion of site for construction model homes; swimming pool land use used to represent the rec center/deli/cafe buildings.

Construction Phase - per applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Trips and VMT - applicant construction data

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstructionPhase	NumDays	10.00	109.00
tblConstructionPhase	NumDays	300.00	109.00
tblConstructionPhase	PhaseEndDate	9/30/2015	4/30/2015
tblConstructionPhase	PhaseStartDate	5/1/2015	12/1/2014
tblLandUse	LotAcreage	5.19	1.50
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00

tblOffRoadEquipment	PhaseName		Architectural Coating
tblOffRoadEquipment	PhaseName		Architectural Coating
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	3.00
tblOffRoadEquipment	UsageHours	8.00	3.00
tblOffRoadEquipment	UsageHours	7.00	3.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	VendorTripNumber	12.00	5.00
tblTripsAndVMT	WorkerTripNumber	41.00	15.00

2.0 Emissions Summary

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	7.3406	0.0950	8.6223	3.3300e-003		1.1952	1.1952		1.1952	1.1952	113.6254	47.8469	161.4723	0.1051	8.9400e-003	166.4489
Energy	2.7700e-003	0.0237	0.0101	1.5000e-004		1.9200e-003	1.9200e-003		1.9200e-003	1.9200e-003	0.0000	59.3145	59.3145	2.0900e-003	8.3000e-004	59.6148
Mobile	0.3839	0.3949	1.5569	3.2400e-003	0.2079	5.3200e-003	0.2132	0.0558	4.9000e-003	0.0607	0.0000	243.8307	243.8307	9.2300e-003	0.0000	244.0245
Waste						0.0000	0.0000		0.0000	0.0000	25.6215	0.0000	25.6215	1.5142	0.0000	57.4195
Water						0.0000	0.0000		0.0000	0.0000	2.3207	14.9173	17.2380	0.2391	5.7800e-003	24.0505
Total	7.7273	0.5136	10.1893	6.7200e-003	0.2079	1.2025	1.4104	0.0558	1.2020	1.2578	141.5675	365.9094	507.4769	1.8697	0.0156	551.5582

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	7.3406	0.0950	8.6223	3.3300e-003		1.1952	1.1952		1.1952	1.1952	113.6254	47.8469	161.4723	0.1051	8.9400e-003	166.4489
Energy	2.7700e-003	0.0237	0.0101	1.5000e-004		1.9200e-003	1.9200e-003		1.9200e-003	1.9200e-003	0.0000	59.3145	59.3145	2.0900e-003	8.3000e-004	59.6148
Mobile	0.3839	0.3949	1.5569	3.2400e-003	0.2079	5.3200e-003	0.2132	0.0558	4.9000e-003	0.0607	0.0000	243.8307	243.8307	9.2300e-003	0.0000	244.0245
Waste						0.0000	0.0000		0.0000	0.0000	25.6215	0.0000	25.6215	1.5142	0.0000	57.4195
Water						0.0000	0.0000		0.0000	0.0000	2.3207	14.9173	17.2380	0.2390	5.7700e-003	24.0468
Total	7.7273	0.5136	10.1893	6.7200e-003	0.2079	1.2025	1.4104	0.0558	1.2020	1.2578	141.5675	365.9094	507.4769	1.8696	0.0155	551.5545

	ROG	NOx	CO	SO2	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	0.06	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	Building Construction	Building Construction	12/1/2014	4/30/2015	5	109	
2	Architectural Coating	Architectural Coating	12/1/2014	4/30/2015	5	109	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 400,950; Residential Outdoor: 133,650; Non-Residential Indoor: 3,750; Non-Residential Outdoor: 1,250 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	3.00	226	0.29
Building Construction	Forklifts	1	3.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	2	3.00	97	0.37
Building Construction	Welders	1	4.00	46	0.45
Architectural Coating	Air Compressors	4	8.00	78	0.48
Architectural Coating	Cement and Mortar Mixers	1	6.00	9	0.56
Architectural Coating	Pressure Washers	1	4.00	13	0.30

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
Building Construction	28	15.00	5.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	24	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Oxidation Catalyst for Construction Equipment

3.2 Building Construction - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0297	0.2199	0.1411	2.2000e-004		0.0157	0.0157		0.0153	0.0153	0.0000	19.6474	19.6474	3.4600e-003	0.0000	19.7200
Total	0.0297	0.2199	0.1411	2.2000e-004		0.0157	0.0157		0.0153	0.0153	0.0000	19.6474	19.6474	3.4600e-003	0.0000	19.7200

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2900e-003	7.2600e-003	0.0111	1.0000e-005	3.7000e-004	1.4000e-004	5.1000e-004	1.1000e-004	1.3000e-004	2.3000e-004	0.0000	1.2675	1.2675	1.0000e-005	0.0000	1.2678
Worker	3.3000e-003	1.0500e-003	0.0106	2.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.3151	1.3151	8.0000e-005	0.0000	1.3168
Total	5.5900e-003	8.3100e-003	0.0216	3.0000e-005	1.7300e-003	1.5000e-004	1.8800e-003	4.7000e-004	1.4000e-004	6.0000e-004	0.0000	2.5826	2.5826	9.0000e-005	0.0000	2.5846

3.2 Building Construction - 2014

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0297	0.1759	0.1411	2.2000e-004		0.0157	0.0157		0.0153	0.0153	0.0000	19.6474	19.6474	3.4600e-003	0.0000	19.7200
Total	0.0297	0.1759	0.1411	2.2000e-004		0.0157	0.0157		0.0153	0.0153	0.0000	19.6474	19.6474	3.4600e-003	0.0000	19.7200

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2900e-003	7.2600e-003	0.0111	1.0000e-005	3.7000e-004	1.4000e-004	5.1000e-004	1.1000e-004	1.3000e-004	2.3000e-004	0.0000	1.2675	1.2675	1.0000e-005	0.0000	1.2678
Worker	3.3000e-003	1.0500e-003	0.0106	2.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.3151	1.3151	8.0000e-005	0.0000	1.3168
Total	5.5900e-003	8.3100e-003	0.0216	3.0000e-005	1.7300e-003	1.5000e-004	1.8800e-003	4.7000e-004	1.4000e-004	6.0000e-004	0.0000	2.5826	2.5826	9.0000e-005	0.0000	2.5846

3.2 Building Construction - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1023	0.7759	0.5218	8.4000e-004		0.0541	0.0541		0.0526	0.0526	0.0000	73.2469	73.2469	0.0122	0.0000	73.5032
Total	0.1023	0.7759	0.5218	8.4000e-004		0.0541	0.0541		0.0526	0.0526	0.0000	73.2469	73.2469	0.0122	0.0000	73.5032

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.1700e-003	0.0233	0.0371	5.0000e-005	1.3800e-003	3.9000e-004	1.7700e-003	4.0000e-004	3.6000e-004	7.6000e-004	0.0000	4.6761	4.6761	4.0000e-005	0.0000	4.6769
Worker	0.0112	3.4500e-003	0.0347	6.0000e-005	5.0900e-003	4.0000e-005	5.1400e-003	1.3600e-003	4.0000e-005	1.3900e-003	0.0000	4.7423	4.7423	2.8000e-004	0.0000	4.7481
Total	0.0183	0.0267	0.0717	1.1000e-004	6.4700e-003	4.3000e-004	6.9100e-003	1.7600e-003	4.0000e-004	2.1500e-003	0.0000	9.4184	9.4184	3.2000e-004	0.0000	9.4250

3.2 Building Construction - 2015

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1023	0.6208	0.5218	8.4000e-004		0.0541	0.0541		0.0526	0.0526	0.0000	73.2468	73.2468	0.0122	0.0000	73.5031
Total	0.1023	0.6208	0.5218	8.4000e-004		0.0541	0.0541		0.0526	0.0526	0.0000	73.2468	73.2468	0.0122	0.0000	73.5031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.1700e-003	0.0233	0.0371	5.0000e-005	1.3800e-003	3.9000e-004	1.7700e-003	4.0000e-004	3.6000e-004	7.6000e-004	0.0000	4.6761	4.6761	4.0000e-005	0.0000	4.6769
Worker	0.0112	3.4500e-003	0.0347	6.0000e-005	5.0900e-003	4.0000e-005	5.1400e-003	1.3600e-003	4.0000e-005	1.3900e-003	0.0000	4.7423	4.7423	2.8000e-004	0.0000	4.7481
Total	0.0183	0.0267	0.0717	1.1000e-004	6.4700e-003	4.3000e-004	6.9100e-003	1.7600e-003	4.0000e-004	2.1500e-003	0.0000	9.4184	9.4184	3.2000e-004	0.0000	9.4250

3.3 Architectural Coating - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6597					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0282	0.1757	0.1220	1.9000e-004		0.0153	0.0153		0.0153	0.0153	0.0000	16.2591	16.2591	2.3000e-003	0.0000	16.3074
Total	0.6879	0.1757	0.1220	1.9000e-004		0.0153	0.0153		0.0153	0.0153	0.0000	16.2591	16.2591	2.3000e-003	0.0000	16.3074

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7600e-003	5.6000e-004	5.6300e-003	1.0000e-005	7.3000e-004	1.0000e-005	7.3000e-004	1.9000e-004	1.0000e-005	2.0000e-004	0.0000	0.7014	0.7014	4.0000e-005	0.0000	0.7023
Total	1.7600e-003	5.6000e-004	5.6300e-003	1.0000e-005	7.3000e-004	1.0000e-005	7.3000e-004	1.9000e-004	1.0000e-005	2.0000e-004	0.0000	0.7014	0.7014	4.0000e-005	0.0000	0.7023

3.3 Architectural Coating - 2014

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6597					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0282	0.1405	0.1220	1.9000e-004		0.0153	0.0153		0.0153	0.0153	0.0000	16.2591	16.2591	2.3000e-003	0.0000	16.3074
Total	0.6879	0.1405	0.1220	1.9000e-004		0.0153	0.0153		0.0153	0.0153	0.0000	16.2591	16.2591	2.3000e-003	0.0000	16.3074

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7600e-003	5.6000e-004	5.6300e-003	1.0000e-005	7.3000e-004	1.0000e-005	7.3000e-004	1.9000e-004	1.0000e-005	2.0000e-004	0.0000	0.7014	0.7014	4.0000e-005	0.0000	0.7023
Total	1.7600e-003	5.6000e-004	5.6300e-003	1.0000e-005	7.3000e-004	1.0000e-005	7.3000e-004	1.9000e-004	1.0000e-005	2.0000e-004	0.0000	0.7014	0.7014	4.0000e-005	0.0000	0.7023

3.3 Architectural Coating - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.4666					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0963	0.6090	0.4515	7.2000e-004		0.0516	0.0516		0.0516	0.0516	0.0000	60.7950	60.7950	7.8700e-003	0.0000	60.9602
Total	2.5629	0.6090	0.4515	7.2000e-004		0.0516	0.0516		0.0516	0.0516	0.0000	60.7950	60.7950	7.8700e-003	0.0000	60.9602

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.9500e-003	1.8400e-003	0.0185	3.0000e-005	2.7200e-003	2.0000e-005	2.7400e-003	7.2000e-004	2.0000e-005	7.4000e-004	0.0000	2.5292	2.5292	1.5000e-004	0.0000	2.5323
Total	5.9500e-003	1.8400e-003	0.0185	3.0000e-005	2.7200e-003	2.0000e-005	2.7400e-003	7.2000e-004	2.0000e-005	7.4000e-004	0.0000	2.5292	2.5292	1.5000e-004	0.0000	2.5323

3.3 Architectural Coating - 2015

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.4666					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0963	0.4872	0.4515	7.2000e-004		0.0516	0.0516		0.0516	0.0516	0.0000	60.7949	60.7949	7.8700e-003	0.0000	60.9602
Total	2.5629	0.4872	0.4515	7.2000e-004		0.0516	0.0516		0.0516	0.0516	0.0000	60.7949	60.7949	7.8700e-003	0.0000	60.9602

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.9500e-003	1.8400e-003	0.0185	3.0000e-005	2.7200e-003	2.0000e-005	2.7400e-003	7.2000e-004	2.0000e-005	7.4000e-004	0.0000	2.5292	2.5292	1.5000e-004	0.0000	2.5323
Total	5.9500e-003	1.8400e-003	0.0185	3.0000e-005	2.7200e-003	2.0000e-005	2.7400e-003	7.2000e-004	2.0000e-005	7.4000e-004	0.0000	2.5292	2.5292	1.5000e-004	0.0000	2.5323

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3839	0.3949	1.5569	3.2400e-003	0.2079	5.3200e-003	0.2132	0.0558	4.9000e-003	0.0607	0.0000	243.8307	243.8307	9.2300e-003	0.0000	244.0245
Unmitigated	0.3839	0.3949	1.5569	3.2400e-003	0.2079	5.3200e-003	0.2132	0.0558	4.9000e-003	0.0607	0.0000	243.8307	243.8307	9.2300e-003	0.0000	244.0245

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Recreational Swimming Pool	82.33	52.18	66.83	136,998	136,998
Single Family Housing	153.12	161.28	140.32	421,250	421,250
Total	235.45	213.46	207.15	558,248	558,248

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
Recreational Swimming Pool	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9
Single Family Housing	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.462115	0.061823	0.181510	0.153742	0.057112	0.007288	0.019722	0.042680	0.001823	0.001665	0.006988	0.000686	0.002845

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	31.8626	31.8626	1.5700e-003	3.2000e-004	31.9959
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	31.8626	31.8626	1.5700e-003	3.2000e-004	31.9959
NaturalGas Mitigated	2.7700e-003	0.0237	0.0101	1.5000e-004		1.9200e-003	1.9200e-003		1.9200e-003	1.9200e-003	0.0000	27.4519	27.4519	5.3000e-004	5.0000e-004	27.6189
NaturalGas Unmitigated	2.7700e-003	0.0237	0.0101	1.5000e-004		1.9200e-003	1.9200e-003		1.9200e-003	1.9200e-003	0.0000	27.4519	27.4519	5.3000e-004	5.0000e-004	27.6189

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Recreational Swimming Pool	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
Single Family Housing	514428	2.7700e-003	0.0237	0.0101	1.5000e-004		1.9200e-003	1.9200e-003		1.9200e-003	1.9200e-003	0.0000	27.4519	27.4519	5.3000e-004	5.0000e-004	27.6189
Total		2.7700e-003	0.0237	0.0101	1.5000e-004		1.9200e-003	1.9200e-003		1.9200e-003	1.9200e-003	0.0000	27.4519	27.4519	5.3000e-004	5.0000e-004	27.6189

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Recreational Swimming Pool	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
Single Family Housing	514428	2.7700e-003	0.0237	0.0101	1.5000e-004		1.9200e-003	1.9200e-003		1.9200e-003	1.9200e-003	0.0000	27.4519	27.4519	5.3000e-004	5.0000e-004	27.6189
Total		2.7700e-003	0.0237	0.0101	1.5000e-004		1.9200e-003	1.9200e-003		1.9200e-003	1.9200e-003	0.0000	27.4519	27.4519	5.3000e-004	5.0000e-004	27.6189

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	118997	31.8626	1.5700e-003	3.2000e-004	31.9959
Total		31.8626	1.5700e-003	3.2000e-004	31.9959

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	118997	31.8626	1.5700e-003	3.2000e-004	31.9959
Total		31.8626	1.5700e-003	3.2000e-004	31.9959

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	7.3406	0.0950	8.6223	3.3300e-003		1.1952	1.1952		1.1952	1.1952	113.6254	47.8469	161.4723	0.1051	8.9400e-003	166.4489
Unmitigated	7.3406	0.0950	8.6223	3.3300e-003		1.1952	1.1952		1.1952	1.1952	113.6254	47.8469	161.4723	0.1051	8.9400e-003	166.4489

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3126					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1222					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	6.9021	0.0936	8.5026	3.3200e-003		1.1946	1.1946		1.1945	1.1945	113.6254	47.6528	161.2782	0.1049	8.9400e-003	166.2508
Landscaping	3.6900e-003	1.3900e-003	0.1197	1.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	0.1941	0.1941	1.9000e-004	0.0000	0.1982
Total	7.3406	0.0950	8.6223	3.3300e-003		1.1952	1.1952		1.1952	1.1952	113.6254	47.8469	161.4723	0.1051	8.9400e-003	166.4489

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3126					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1222					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	6.9021	0.0936	8.5026	3.3200e-003		1.1946	1.1946		1.1945	1.1945	113.6254	47.6528	161.2782	0.1049	8.9400e-003	166.2508
Landscaping	3.6900e-003	1.3900e-003	0.1197	1.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	0.1941	0.1941	1.9000e-004	0.0000	0.1982
Total	7.3406	0.0950	8.6223	3.3300e-003		1.1952	1.1952		1.1952	1.1952	113.6254	47.8469	161.4723	0.1051	8.9400e-003	166.4489

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	17.2380	0.2390	5.7700e-003	24.0468
Unmitigated	17.2380	0.2391	5.7800e-003	24.0505

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Recreational Swimming Pool	0.147858 / 0.0906226	0.3461	4.8300e-003	1.2000e-004	0.4838
Single Family Housing	7.16694 / 4.51829	16.8919	0.2343	5.6600e-003	23.5667
Total		17.2380	0.2391	5.7800e-003	24.0505

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Recreational Swimming Pool	0.147858 / 0.0906226	0.3461	4.8300e-003	1.2000e-004	0.4837
Single Family Housing	7.16694 / 4.51829	16.8919	0.2342	5.6500e-003	23.5631
Total		17.2380	0.2390	5.7700e-003	24.0468

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	25.6215	1.5142	0.0000	57.4195
Unmitigated	25.6215	1.5142	0.0000	57.4195

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Recreational Swimming Pool	14.25	2.8926	0.1710	0.0000	6.4826
Single Family Housing	111.97	22.7289	1.3432	0.0000	50.9369
Total		25.6215	1.5142	0.0000	57.4195

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Recreational Swimming Pool	14.25	2.8926	0.1710	0.0000	6.4826
Single Family Housing	111.97	22.7289	1.3432	0.0000	50.9369
Total		25.6215	1.5142	0.0000	57.4195

9.0 Operational Offroad

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

CALEEMOD OUTPUTS

Building Construction Phase 1

- ◆ Winter
- ◆ Annual

McKinley Village Bldg Phase 1 Sacramento Valley Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	94.00	Dwelling Unit	17.00	169,200.00	269

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	65
Climate Zone	6			Operational Year	2018
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - city's population per household (per census) is 2.0; lot acreage reflects 1/3 of overall site size

Construction Phase - per applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Trips and VMT - applicant construction data

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	0.00	1,250.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	0.00	3,750.00

tblArchitecturalCoating	ConstArea_Residential_Exterior	114,210.00	133,650.00
tblArchitecturalCoating	ConstArea_Residential_Interior	342,630.00	400,950.00
tblAreaCoating	Area_Nonresidential_Interior	0	3750
tblAreaCoating	Area_Residential_Exterior	114210	133650
tblAreaCoating	Area_Residential_Interior	342630	400950
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstructionPhase	NumDays	20.00	131.00
tblConstructionPhase	NumDays	300.00	131.00
tblConstructionPhase	PhaseEndDate	5/2/2016	10/31/2015
tblConstructionPhase	PhaseEndDate	10/30/2015	10/31/2015
tblConstructionPhase	PhaseStartDate	11/1/2015	5/1/2015
tblFireplaces	NumberGas	51.70	60.50
tblFireplaces	NumberNoFireplace	9.40	11.00

tblFireplaces	NumberWood	32.90	38.50
tblLandUse	LotAcreage	30.52	17.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	3.00
tblOffRoadEquipment	UsageHours	8.00	3.00
tblOffRoadEquipment	UsageHours	7.00	3.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	OperationalYear	2014	2018
tblSolidWaste	SolidWasteGenerationRate	95.62	111.97
tblTripsAndVMT	VendorTripNumber	10.00	15.00
tblTripsAndVMT	WorkerTripNumber	34.00	40.00
tblTripsAndVMT	WorkerTripNumber	7.00	8.00
tblWater	IndoorWaterUseRate	6,124,478.41	7,166,942.82
tblWater	OutdoorWaterUseRate	3,861,084.21	4,518,290.04
tblWoodstoves	NumberCatalytic	4.70	5.50
tblWoodstoves	NumberNoncatalytic	4.70	5.50

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	173.9142	2.3746	215.1910	0.0814		29.1784	29.1784		29.1776	29.1776	3,054.8904	1,295.1404	4,350.0308	2.8330	0.2403	4,484.0136
Energy	0.0893	0.7631	0.3247	4.8700e-003		0.0617	0.0617		0.0617	0.0617		974.1390	974.1390	0.0187	0.0179	980.0675
Mobile	10.9747	10.4537	42.9967	0.0815	5.5691	0.1366	5.7058	1.4896	0.1258	1.6154		6,769.4449	6,769.4449	0.2590		6,774.8831
Total	184.9781	13.5914	258.5124	0.1677	5.5691	29.3767	34.9459	1.4896	29.3650	30.8547	3,054.8904	9,038.7244	12,093.6147	3.1106	0.2582	12,238.9643

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	173.9142	2.3746	215.1910	0.0814		29.1784	29.1784		29.1776	29.1776	3,054.8904	1,295.1404	4,350.0308	2.8330	0.2403	4,484.0136
Energy	0.0893	0.7631	0.3247	4.8700e-003		0.0617	0.0617		0.0617	0.0617		974.1390	974.1390	0.0187	0.0179	980.0675
Mobile	10.9747	10.4537	42.9967	0.0815	5.5691	0.1366	5.7058	1.4896	0.1258	1.6154		6,769.4449	6,769.4449	0.2590		6,774.8831
Total	184.9781	13.5914	258.5124	0.1677	5.5691	29.3767	34.9459	1.4896	29.3650	30.8547	3,054.8904	9,038.7244	12,093.6147	3.1106	0.2582	12,238.9643

	ROG	NOx	CO	SO2	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	Building Construction	Building Construction	5/1/2015	10/31/2015	5	131	
2	Architectural Coating	Architectural Coating	5/1/2015	10/31/2015	5	131	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 400,950; Residential Outdoor: 133,650; Non-Residential Indoor: 3,750; Non-Residential Outdoor: 1,250 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	3.00	226	0.29
Building Construction	Forklifts	4	3.00	89	0.20
Building Construction	Generator Sets	4	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	4	3.00	97	0.37
Building Construction	Welders	3	4.00	46	0.45
Architectural Coating	Air Compressors	12	8.00	78	0.48
Architectural Coating	Cement and Mortar Mixers	4	6.00	9	0.56
Architectural Coating	Pressure Washers	2	4.00	13	0.30

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
Building Construction	16	40.00	15.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	18	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Oxidation Catalyst for Construction Equipment

Clean Paved Roads

3.2 Building Construction - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.9748	35.2737	25.0920	0.0392		2.5721	2.5721		2.5069	2.5069		3,757.2695	3,757.2695	0.6235		3,770.3622
Total	4.9748	35.2737	25.0920	0.0392		2.5721	2.5721		2.5069	2.5069		3,757.2695	3,757.2695	0.6235		3,770.3622

3.2 Building Construction - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.5662	1.6501	3.2222	3.5600e-003	0.0995	0.0276	0.1271	0.0284	0.0254	0.0537		358.0233	358.0233	3.1600e-003			358.0896
Worker	0.7994	0.2391	2.2413	3.6900e-003	0.3286	2.6000e-003	0.3312	0.0872	2.3700e-003	0.0895		314.9164	314.9164	0.0190			315.3142
Total	1.3656	1.8892	5.4635	7.2500e-003	0.4281	0.0302	0.4583	0.1155	0.0277	0.1433		672.9397	672.9397	0.0221			673.4038

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	4.9748	28.2190	25.0920	0.0392		2.5721	2.5721		2.5069	2.5069	0.0000	3,757.2695	3,757.2695	0.6235			3,770.3622
Total	4.9748	28.2190	25.0920	0.0392		2.5721	2.5721		2.5069	2.5069	0.0000	3,757.2695	3,757.2695	0.6235			3,770.3622

3.2 Building Construction - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.5662	1.6501	3.2222	3.5600e-003	0.0995	0.0276	0.1271	0.0284	0.0254	0.0537		358.0233	358.0233	3.1600e-003			358.0896
Worker	0.7994	0.2391	2.2413	3.6900e-003	0.3286	2.6000e-003	0.3312	0.0872	2.3700e-003	0.0895		314.9164	314.9164	0.0190			315.3142
Total	1.3656	1.8892	5.4635	7.2500e-003	0.4281	0.0302	0.4583	0.1155	0.0277	0.1433		672.9397	672.9397	0.0221			673.4038

3.3 Architectural Coating - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	47.7299					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	6.7337	42.5904	31.6046	0.0502		3.5989	3.5989		3.5989	3.5989		4,693.8080	4,693.8080	0.6067			4,706.5490
Total	54.4636	42.5904	31.6046	0.0502		3.5989	3.5989		3.5989	3.5989		4,693.8080	4,693.8080	0.6067			4,706.5490

3.3 Architectural Coating - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.1599	0.0478	0.4483	7.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.7000e-004	0.0179		62.9833	62.9833	3.7900e-003			63.0629
Total	0.1599	0.0478	0.4483	7.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.7000e-004	0.0179		62.9833	62.9833	3.7900e-003			63.0629

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	47.7299					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	6.7337	34.0723	31.6046	0.0502		3.5989	3.5989		3.5989	3.5989	0.0000	4,693.8080	4,693.8080	0.6067			4,706.5490
Total	54.4636	34.0723	31.6046	0.0502		3.5989	3.5989		3.5989	3.5989	0.0000	4,693.8080	4,693.8080	0.6067			4,706.5490

3.3 Architectural Coating - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1599	0.0478	0.4483	7.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.7000e-004	0.0179		62.9833	62.9833	3.7900e-003		63.0629
Total	0.1599	0.0478	0.4483	7.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.7000e-004	0.0179		62.9833	62.9833	3.7900e-003		63.0629

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					
Mitigated	10.9747	10.4537	42.9967	0.0815	5.5691	0.1366	5.7058	1.4896	0.1258	1.6154		6,769.4449	6,769.4449	0.2590		6,774.8831
Unmitigated	10.9747	10.4537	42.9967	0.0815	5.5691	0.1366	5.7058	1.4896	0.1258	1.6154		6,769.4449	6,769.4449	0.2590		6,774.8831

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	899.58	947.52	824.38	2,474,845	2,474,845
Total	899.58	947.52	824.38	2,474,845	2,474,845

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
Single Family Housing	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.462115	0.061823	0.181510	0.153742	0.057112	0.007288	0.019722	0.042680	0.001823	0.001665	0.006988	0.000686	0.002845

5.0 Energy Detail

4.4 Fleet Mix

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
NaturalGas Mitigated	0.0893	0.7631	0.3247	4.8700e-003		0.0617	0.0617		0.0617	0.0617		974.1390	974.1390	0.0187	0.0179	980.0675
NaturalGas Unmitigated	0.0893	0.7631	0.3247	4.8700e-003		0.0617	0.0617		0.0617	0.0617		974.1390	974.1390	0.0187	0.0179	980.0675

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	8280.18	0.0893	0.7631	0.3247	4.8700e-003		0.0617	0.0617		0.0617	0.0617		974.1390	974.1390	0.0187	0.0179	980.0675
Total		0.0893	0.7631	0.3247	4.8700e-003		0.0617	0.0617		0.0617	0.0617		974.1390	974.1390	0.0187	0.0179	980.0675

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	8.28018	0.0893	0.7631	0.3247	4.8700e-003		0.0617	0.0617		0.0617	0.0617		974.1390	974.1390	0.0187	0.0179	980.0675
Total		0.0893	0.7631	0.3247	4.8700e-003		0.0617	0.0617		0.0617	0.0617		974.1390	974.1390	0.0187	0.0179	980.0675

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					
Mitigated	173.9142	2.3746	215.1910	0.0814		29.1784	29.1784		29.1776	29.1776	3,054.8904	1,295.1404	4,350.0308	2.8330	0.2403	4,484.0136
Unmitigated	173.9142	2.3746	215.1910	0.0814		29.1784	29.1784		29.1776	29.1776	3,054.8904	1,295.1404	4,350.0308	2.8330	0.2403	4,484.0136

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.7091					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.6209					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	168.3435	2.2840	207.3811	0.0810		29.1358	29.1358		29.1349	29.1349	3,054.8904	1,281.1765	4,336.0669	2.8192	0.2403	4,469.7591
Landscaping	0.2408	0.0907	7.8100	4.1000e-004		0.0426	0.0426		0.0426	0.0426		13.9639	13.9639	0.0138		14.2545
Total	173.9142	2.3746	215.1910	0.0814		29.1784	29.1784		29.1776	29.1776	3,054.8904	1,295.1404	4,350.0308	2.8330	0.2403	4,484.0136

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.7091					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.6209					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	168.3435	2.2840	207.3811	0.0810		29.1358	29.1358		29.1349	29.1349	3,054.8904	1,281.1765	4,336.0669	2.8192	0.2403	4,469.7591
Landscaping	0.2408	0.0907	7.8100	4.1000e-004		0.0426	0.0426		0.0426	0.0426		13.9639	13.9639	0.0138		14.2545
Total	173.9142	2.3746	215.1910	0.0814		29.1784	29.1784		29.1776	29.1776	3,054.8904	1,295.1404	4,350.0308	2.8330	0.2403	4,484.0136

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 Vegetation

McKinley Village Bldg Phase 1 Sacramento Valley Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	94.00	Dwelling Unit	17.00	169,200.00	269

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	65
Climate Zone	6			Operational Year	2018
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - city's population per household (per census) is 2.0; lot acreage reflects 1/3 of overall site size

Construction Phase - per applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Trips and VMT - applicant construction data

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	0.00	1,250.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	0.00	3,750.00

tblArchitecturalCoating	ConstArea_Residential_Exterior	114,210.00	133,650.00
tblArchitecturalCoating	ConstArea_Residential_Interior	342,630.00	400,950.00
tblAreaCoating	Area_Nonresidential_Interior	0	3750
tblAreaCoating	Area_Residential_Exterior	114210	133650
tblAreaCoating	Area_Residential_Interior	342630	400950
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstructionPhase	NumDays	20.00	131.00
tblConstructionPhase	NumDays	300.00	131.00
tblConstructionPhase	PhaseEndDate	5/2/2016	10/31/2015
tblConstructionPhase	PhaseEndDate	10/30/2015	10/31/2015
tblConstructionPhase	PhaseStartDate	11/1/2015	5/1/2015
tblFireplaces	NumberGas	51.70	60.50
tblFireplaces	NumberNoFireplace	9.40	11.00

tblFireplaces	NumberWood	32.90	38.50
tblLandUse	LotAcreage	30.52	17.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	3.00
tblOffRoadEquipment	UsageHours	8.00	3.00
tblOffRoadEquipment	UsageHours	7.00	3.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	OperationalYear	2014	2018
tblSolidWaste	SolidWasteGenerationRate	95.62	111.97
tblTripsAndVMT	VendorTripNumber	10.00	15.00
tblTripsAndVMT	WorkerTripNumber	34.00	40.00
tblTripsAndVMT	WorkerTripNumber	7.00	8.00
tblWater	IndoorWaterUseRate	6,124,478.41	7,166,942.82
tblWater	OutdoorWaterUseRate	3,861,084.21	4,518,290.04
tblWoodstoves	NumberCatalytic	4.70	5.50
tblWoodstoves	NumberNoncatalytic	4.70	5.50

2.0 Emissions Summary

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	7.8965	0.1018	9.2055	3.3600e-003		1.1984	1.1984		1.1984	1.1984	113.6254	48.7929	162.4183	0.1060	8.9400e-003	167.4146
Energy	0.0163	0.1393	0.0593	8.9000e-004		0.0113	0.0113		0.0113	0.0113	0.0000	348.4724	348.4724	0.0123	4.8600e-003	350.2369
Mobile	1.6705	1.7143	6.5856	0.0143	0.9217	0.0234	0.9451	0.2473	0.0215	0.2689	0.0000	1,076.5165	1,076.5165	0.0403	0.0000	1,077.3635
Waste						0.0000	0.0000		0.0000	0.0000	22.7289	0.0000	22.7289	1.3432	0.0000	50.9369
Water						0.0000	0.0000		0.0000	0.0000	2.2737	14.6182	16.8919	0.2343	5.6600e-003	23.5667
Total	9.5833	1.9554	15.8503	0.0185	0.9217	1.2331	2.1548	0.2473	1.2312	1.4785	138.6280	1,488.4000	1,627.0280	1.7361	0.0195	1,669.5187

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	7.8965	0.1018	9.2055	3.3600e-003		1.1984	1.1984		1.1984	1.1984	113.6254	48.7929	162.4183	0.1060	8.9400e-003	167.4146
Energy	0.0163	0.1393	0.0593	8.9000e-004		0.0113	0.0113		0.0113	0.0113	0.0000	348.4724	348.4724	0.0123	4.8600e-003	350.2369
Mobile	1.6705	1.7143	6.5856	0.0143	0.9217	0.0234	0.9451	0.2473	0.0215	0.2689	0.0000	1,076.5165	1,076.5165	0.0403	0.0000	1,077.3635
Waste						0.0000	0.0000		0.0000	0.0000	22.7289	0.0000	22.7289	1.3432	0.0000	50.9369
Water						0.0000	0.0000		0.0000	0.0000	2.2737	14.6182	16.8919	0.2342	5.6500e-003	23.5631
Total	9.5833	1.9554	15.8503	0.0185	0.9217	1.2331	2.1548	0.2473	1.2312	1.4785	138.6280	1,488.4000	1,627.0280	1.7361	0.0195	1,669.5150

	ROG	NOx	CO	SO2	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	0.05	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	Building Construction	Building Construction	5/1/2015	10/31/2015	5	131	
2	Architectural Coating	Architectural Coating	5/1/2015	10/31/2015	5	131	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 400,950; Residential Outdoor: 133,650; Non-Residential Indoor: 3,750; Non-Residential Outdoor: 1,250 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	3.00	226	0.29
Building Construction	Forklifts	4	3.00	89	0.20
Building Construction	Generator Sets	4	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	4	3.00	97	0.37
Building Construction	Welders	3	4.00	46	0.45
Architectural Coating	Air Compressors	12	8.00	78	0.48
Architectural Coating	Cement and Mortar Mixers	4	6.00	9	0.56
Architectural Coating	Pressure Washers	2	4.00	13	0.30

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
Building Construction	16	40.00	15.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	18	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Oxidation Catalyst for Construction Equipment

3.2 Building Construction - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3259	2.3104	1.6435	2.5700e-003		0.1685	0.1685		0.1642	0.1642	0.0000	223.2592	223.2592	0.0371	0.0000	224.0372
Total	0.3259	2.3104	1.6435	2.5700e-003		0.1685	0.1685		0.1642	0.1642	0.0000	223.2592	223.2592	0.0371	0.0000	224.0372

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0328	0.1063	0.1694	2.3000e-004	6.3000e-003	1.8000e-003	8.1000e-003	1.8100e-003	1.6500e-003	3.4600e-003	0.0000	21.3687	21.3687	1.9000e-004	0.0000	21.3725
Worker	0.0453	0.0140	0.1408	2.5000e-004	0.0207	1.7000e-004	0.0209	5.5000e-003	1.6000e-004	5.6600e-003	0.0000	19.2632	19.2632	1.1300e-003	0.0000	19.2868
Total	0.0781	0.1203	0.3101	4.8000e-004	0.0270	1.9700e-003	0.0290	7.3100e-003	1.8100e-003	9.1200e-003	0.0000	40.6318	40.6318	1.3200e-003	0.0000	40.6594

3.2 Building Construction - 2015

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3259	1.8483	1.6435	2.5700e-003		0.1685	0.1685		0.1642	0.1642	0.0000	223.2589	223.2589	0.0371	0.0000	224.0369
Total	0.3259	1.8483	1.6435	2.5700e-003		0.1685	0.1685		0.1642	0.1642	0.0000	223.2589	223.2589	0.0371	0.0000	224.0369

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0328	0.1063	0.1694	2.3000e-004	6.3000e-003	1.8000e-003	8.1000e-003	1.8100e-003	1.6500e-003	3.4600e-003	0.0000	21.3687	21.3687	1.9000e-004	0.0000	21.3725
Worker	0.0453	0.0140	0.1408	2.5000e-004	0.0207	1.7000e-004	0.0209	5.5000e-003	1.6000e-004	5.6600e-003	0.0000	19.2632	19.2632	1.1300e-003	0.0000	19.2868
Total	0.0781	0.1203	0.3101	4.8000e-004	0.0270	1.9700e-003	0.0290	7.3100e-003	1.8100e-003	9.1200e-003	0.0000	40.6318	40.6318	1.3200e-003	0.0000	40.6594

3.3 Architectural Coating - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	3.1263					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4411	2.7897	2.0701	3.2900e-003		0.2357	0.2357		0.2357	0.2357	0.0000	278.9089	278.9089	0.0361	0.0000	279.6660
Total	3.5674	2.7897	2.0701	3.2900e-003		0.2357	0.2357		0.2357	0.2357	0.0000	278.9089	278.9089	0.0361	0.0000	279.6660

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0600e-003	2.8000e-003	0.0282	5.0000e-005	4.1400e-003	3.0000e-005	4.1700e-003	1.1000e-003	3.0000e-005	1.1300e-003	0.0000	3.8526	3.8526	2.3000e-004	0.0000	3.8574
Total	9.0600e-003	2.8000e-003	0.0282	5.0000e-005	4.1400e-003	3.0000e-005	4.1700e-003	1.1000e-003	3.0000e-005	1.1300e-003	0.0000	3.8526	3.8526	2.3000e-004	0.0000	3.8574

3.3 Architectural Coating - 2015

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	3.1263					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4411	2.2317	2.0701	3.2900e-003		0.2357	0.2357		0.2357	0.2357	0.0000	278.9086	278.9086	0.0361	0.0000	279.6656
Total	3.5674	2.2317	2.0701	3.2900e-003		0.2357	0.2357		0.2357	0.2357	0.0000	278.9086	278.9086	0.0361	0.0000	279.6656

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0600e-003	2.8000e-003	0.0282	5.0000e-005	4.1400e-003	3.0000e-005	4.1700e-003	1.1000e-003	3.0000e-005	1.1300e-003	0.0000	3.8526	3.8526	2.3000e-004	0.0000	3.8574
Total	9.0600e-003	2.8000e-003	0.0282	5.0000e-005	4.1400e-003	3.0000e-005	4.1700e-003	1.1000e-003	3.0000e-005	1.1300e-003	0.0000	3.8526	3.8526	2.3000e-004	0.0000	3.8574

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.6705	1.7143	6.5856	0.0143	0.9217	0.0234	0.9451	0.2473	0.0215	0.2689	0.0000	1,076.5165	1,076.5165	0.0403	0.0000	1,077.3635
Unmitigated	1.6705	1.7143	6.5856	0.0143	0.9217	0.0234	0.9451	0.2473	0.0215	0.2689	0.0000	1,076.5165	1,076.5165	0.0403	0.0000	1,077.3635

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	899.58	947.52	824.38	2,474,845	2,474,845
Total	899.58	947.52	824.38	2,474,845	2,474,845

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
Single Family Housing	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.462115	0.061823	0.181510	0.153742	0.057112	0.007288	0.019722	0.042680	0.001823	0.001665	0.006988	0.000686	0.002845

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	187.1928	187.1928	9.2000e-003	1.9000e-003	187.9757
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	187.1928	187.1928	9.2000e-003	1.9000e-003	187.9757
NaturalGas Mitigated	0.0163	0.1393	0.0593	8.9000e-004		0.0113	0.0113		0.0113	0.0113	0.0000	161.2796	161.2796	3.0900e-003	2.9600e-003	162.2612
NaturalGas Unmitigated	0.0163	0.1393	0.0593	8.9000e-004		0.0113	0.0113		0.0113	0.0113	0.0000	161.2796	161.2796	3.0900e-003	2.9600e-003	162.2612

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	3.02227e+006	0.0163	0.1393	0.0593	8.9000e-004		0.0113	0.0113		0.0113	0.0113	0.0000	161.2796	161.2796	3.0900e-003	2.9600e-003	162.2612
Total		0.0163	0.1393	0.0593	8.9000e-004		0.0113	0.0113		0.0113	0.0113	0.0000	161.2796	161.2796	3.0900e-003	2.9600e-003	162.2612

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	3.02227e+006	0.0163	0.1393	0.0593	8.9000e-004		0.0113	0.0113		0.0113	0.0113	0.0000	161.2796	161.2796	3.0900e-003	2.9600e-003	162.2612
Total		0.0163	0.1393	0.0593	8.9000e-004		0.0113	0.0113		0.0113	0.0113	0.0000	161.2796	161.2796	3.0900e-003	2.9600e-003	162.2612

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	699106	187.1928	9.2000e-003	1.9000e-003	187.9757
Total		187.1928	9.2000e-003	1.9000e-003	187.9757

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	699106	187.1928	9.2000e-003	1.9000e-003	187.9757
Total		187.1928	9.2000e-003	1.9000e-003	187.9757

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	7.8965	0.1018	9.2055	3.3600e-003		1.1984	1.1984		1.1984	1.1984	113.6254	48.7929	162.4183	0.1060	8.9400e-003	167.4146
Unmitigated	7.8965	0.1018	9.2055	3.3600e-003		1.1984	1.1984		1.1984	1.1984	113.6254	48.7929	162.4183	0.1060	8.9400e-003	167.4146

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3119					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6608					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	6.9021	0.0936	8.5026	3.3200e-003		1.1946	1.1946		1.1945	1.1945	113.6254	47.6528	161.2782	0.1049	8.9400e-003	166.2508
Landscaping	0.0217	8.1600e-003	0.7029	4.0000e-005		3.8400e-003	3.8400e-003		3.8400e-003	3.8400e-003	0.0000	1.1401	1.1401	1.1300e-003	0.0000	1.1638
Total	7.8965	0.1018	9.2055	3.3600e-003		1.1984	1.1984		1.1984	1.1984	113.6254	48.7929	162.4183	0.1060	8.9400e-003	167.4146

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3119					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6608					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	6.9021	0.0936	8.5026	3.3200e-003		1.1946	1.1946		1.1945	1.1945	113.6254	47.6528	161.2782	0.1049	8.9400e-003	166.2508
Landscaping	0.0217	8.1600e-003	0.7029	4.0000e-005		3.8400e-003	3.8400e-003		3.8400e-003	3.8400e-003	0.0000	1.1401	1.1401	1.1300e-003	0.0000	1.1638
Total	7.8965	0.1018	9.2055	3.3600e-003		1.1984	1.1984		1.1984	1.1984	113.6254	48.7929	162.4183	0.1060	8.9400e-003	167.4146

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	16.8919	0.2342	5.6500e-003	23.5631
Unmitigated	16.8919	0.2343	5.6600e-003	23.5667

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	7.16694 / 4.51829	16.8919	0.2343	5.6600e-003	23.5667
Total		16.8919	0.2343	5.6600e-003	23.5667

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	7.16694 / 4.51829	16.8919	0.2342	5.6500e-003	23.5631
Total		16.8919	0.2342	5.6500e-003	23.5631

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	22.7289	1.3432	0.0000	50.9369
Unmitigated	22.7289	1.3432	0.0000	50.9369

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	111.97	22.7289	1.3432	0.0000	50.9369
Total		22.7289	1.3432	0.0000	50.9369

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	111.97	22.7289	1.3432	0.0000	50.9369
Total		22.7289	1.3432	0.0000	50.9369

9.0 Operational Offroad

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

CALEEMOD OUTPUTS

Building Construction Phase 2

- ◆ Winter
- ◆ Annual

McKinley Village Bldg Phase 2 Sacramento Valley Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	109.00	Dwelling Unit	17.00	196,200.00	312

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	65
Climate Zone	6			Operational Year	2018
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - city's population per household (per census) is 2.0; lot acreage reflects 1/3 of overall site size

Construction Phase - per applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Trips and VMT - applicant construction data

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	0.00	1,250.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	0.00	3,750.00

tblArchitecturalCoating	ConstArea_Residential_Exterior	132,435.00	133,650.00
tblArchitecturalCoating	ConstArea_Residential_Interior	397,305.00	400,950.00
tblAreaCoating	Area_Nonresidential_Interior	0	3750
tblAreaCoating	Area_Residential_Exterior	132435	133650
tblAreaCoating	Area_Residential_Interior	397305	400950
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstructionPhase	NumDays	20.00	260.00
tblConstructionPhase	NumDays	300.00	260.00
tblConstructionPhase	PhaseEndDate	10/27/2017	10/30/2016
tblConstructionPhase	PhaseEndDate	10/28/2016	10/30/2016
tblConstructionPhase	PhaseStartDate	10/31/2016	11/1/2015
tblFireplaces	NumberGas	59.95	60.50
tblFireplaces	NumberNoFireplace	10.90	11.00

tblFireplaces	NumberWood	38.15	38.50
tblLandUse	LotAcreage	35.39	17.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	3.00
tblOffRoadEquipment	UsageHours	8.00	3.00
tblOffRoadEquipment	UsageHours	7.00	3.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	OperationalYear	2014	2018
tblSolidWaste	SolidWasteGenerationRate	110.90	111.97
tblTripsAndVMT	VendorTripNumber	12.00	15.00
tblTripsAndVMT	WorkerTripNumber	39.00	40.00
tblWater	IndoorWaterUseRate	7,101,788.79	7,166,942.82
tblWater	OutdoorWaterUseRate	4,477,214.67	4,518,290.04
tblWoodstoves	NumberCatalytic	5.45	5.50
tblWoodstoves	NumberNoncatalytic	5.45	5.50

2.0 Emissions Summary

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	174.5304	2.3891	216.4373	0.0815		29.1852	29.1852		29.1844	29.1844	3,054.8904	1,297.3687	4,352.2591	2.8352	0.2403	4,486.2883
Energy	0.1036	0.8848	0.3765	5.6500e-003		0.0715	0.0715		0.0715	0.0715		1,129.5868	1,129.5868	0.0217	0.0207	1,136.4612
Mobile	12.7259	12.1219	49.8579	0.0944	6.4578	0.1584	6.6163	1.7274	0.1458	1.8732		7,849.6755	7,849.6755	0.3003		7,855.9815
Total	187.3599	15.3958	266.6717	0.1816	6.4578	29.4152	35.8730	1.7274	29.4017	31.1291	3,054.8904	10,276.6309	13,331.5213	3.1571	0.2610	13,478.7310

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	174.5304	2.3891	216.4373	0.0815		29.1852	29.1852		29.1844	29.1844	3,054.8904	1,297.3687	4,352.2591	2.8352	0.2403	4,486.2883
Energy	0.1036	0.8848	0.3765	5.6500e-003		0.0715	0.0715		0.0715	0.0715		1,129.5868	1,129.5868	0.0217	0.0207	1,136.4612
Mobile	12.7259	12.1219	49.8579	0.0944	6.4578	0.1584	6.6163	1.7274	0.1458	1.8732		7,849.6755	7,849.6755	0.3003		7,855.9815
Total	187.3599	15.3958	266.6717	0.1816	6.4578	29.4152	35.8730	1.7274	29.4017	31.1291	3,054.8904	10,276.6309	13,331.5213	3.1571	0.2610	13,478.7310

	ROG	NOx	CO	SO2	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	Building Construction	Building Construction	11/1/2015	10/30/2016	5	260	
2	Architectural Coating	Architectural Coating	11/1/2015	10/30/2016	5	260	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 400,950; Residential Outdoor: 133,650; Non-Residential Indoor: 3,750; Non-Residential Outdoor: 1,250 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	3.00	226	0.29
Building Construction	Forklifts	4	3.00	89	0.20
Building Construction	Generator Sets	4	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	4	3.00	97	0.37
Building Construction	Welders	3	4.00	46	0.45
Architectural Coating	Air Compressors	12	8.00	78	0.48
Architectural Coating	Cement and Mortar Mixers	4	6.00	9	0.56
Architectural Coating	Pressure Washers	2	4.00	13	0.30

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
Building Construction	16	40.00	15.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	18	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Oxidation Catalyst for Construction Equipment

Clean Paved Roads

3.2 Building Construction - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.9748	35.2737	25.0920	0.0392		2.5721	2.5721		2.5069	2.5069		3,757.2695	3,757.2695	0.6235		3,770.3622
Total	4.9748	35.2737	25.0920	0.0392		2.5721	2.5721		2.5069	2.5069		3,757.2695	3,757.2695	0.6235		3,770.3622

3.2 Building Construction - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.5662	1.6501	3.2222	3.5600e-003	0.0995	0.0276	0.1271	0.0284	0.0254	0.0537		358.0233	358.0233	3.1600e-003			358.0896
Worker	0.7994	0.2391	2.2413	3.6900e-003	0.3286	2.6000e-003	0.3312	0.0872	2.3700e-003	0.0895		314.9164	314.9164	0.0190			315.3142
Total	1.3656	1.8892	5.4635	7.2500e-003	0.4281	0.0302	0.4583	0.1155	0.0277	0.1433		672.9397	672.9397	0.0221			673.4038

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	4.9748	28.2190	25.0920	0.0392		2.5721	2.5721		2.5069	2.5069	0.0000	3,757.2695	3,757.2695	0.6235			3,770.3622
Total	4.9748	28.2190	25.0920	0.0392		2.5721	2.5721		2.5069	2.5069	0.0000	3,757.2695	3,757.2695	0.6235			3,770.3622

3.2 Building Construction - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.5662	1.6501	3.2222	3.5600e-003	0.0995	0.0276	0.1271	0.0284	0.0254	0.0537		358.0233	358.0233	3.1600e-003			358.0896
Worker	0.7994	0.2391	2.2413	3.6900e-003	0.3286	2.6000e-003	0.3312	0.0872	2.3700e-003	0.0895		314.9164	314.9164	0.0190			315.3142
Total	1.3656	1.8892	5.4635	7.2500e-003	0.4281	0.0302	0.4583	0.1155	0.0277	0.1433		672.9397	672.9397	0.0221			673.4038

3.2 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	4.5212	33.0540	24.7997	0.0392		2.3342	2.3342		2.2729	2.2729		3,746.7917	3,746.7917	0.5882			3,759.1435
Total	4.5212	33.0540	24.7997	0.0392		2.3342	2.3342		2.2729	2.2729		3,746.7917	3,746.7917	0.5882			3,759.1435

3.2 Building Construction - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.4708	1.4345	2.9667	3.5500e-003	0.0995	0.0232	0.1226	0.0284	0.0213	0.0496		353.5516	353.5516	2.8700e-003			353.6117
Worker	0.7273	0.2120	1.9774	3.7000e-003	0.3286	2.4700e-003	0.3311	0.0872	2.2600e-003	0.0894		303.9990	303.9990	0.0172			304.3603
Total	1.1980	1.6465	4.9440	7.2500e-003	0.4281	0.0256	0.4537	0.1155	0.0235	0.1390		657.5506	657.5506	0.0201			657.9721

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	4.5212	26.4432	24.7997	0.0392		2.3342	2.3342		2.2729	2.2729	0.0000	3,746.7917	3,746.7917	0.5882			3,759.1435
Total	4.5212	26.4432	24.7997	0.0392		2.3342	2.3342		2.2729	2.2729	0.0000	3,746.7917	3,746.7917	0.5882			3,759.1435

3.2 Building Construction - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.4708	1.4345	2.9667	3.5500e-003	0.0995	0.0232	0.1226	0.0284	0.0213	0.0496		353.5516	353.5516	2.8700e-003			353.6117
Worker	0.7273	0.2120	1.9774	3.7000e-003	0.3286	2.4700e-003	0.3311	0.0872	2.2600e-003	0.0894		303.9990	303.9990	0.0172			304.3603
Total	1.1980	1.6465	4.9440	7.2500e-003	0.4281	0.0256	0.4537	0.1155	0.0235	0.1390		657.5506	657.5506	0.0201			657.9721

3.3 Architectural Coating - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	24.0485					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	6.7337	42.5904	31.6046	0.0502		3.5989	3.5989		3.5989	3.5989		4,693.8080	4,693.8080	0.6067			4,706.5490
Total	30.7823	42.5904	31.6046	0.0502		3.5989	3.5989		3.5989	3.5989		4,693.8080	4,693.8080	0.6067			4,706.5490

3.3 Architectural Coating - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.1599	0.0478	0.4483	7.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.7000e-004	0.0179		62.9833	62.9833	3.7900e-003			63.0629
Total	0.1599	0.0478	0.4483	7.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.7000e-004	0.0179		62.9833	62.9833	3.7900e-003			63.0629

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	24.0485					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Off-Road	6.7337	34.0723	31.6046	0.0502		3.5989	3.5989		3.5989	3.5989	0.0000	4,693.8080	4,693.8080	0.6067			4,706.5490
Total	30.7823	34.0723	31.6046	0.0502		3.5989	3.5989		3.5989	3.5989	0.0000	4,693.8080	4,693.8080	0.6067			4,706.5490

3.3 Architectural Coating - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1599	0.0478	0.4483	7.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.7000e-004	0.0179		62.9833	62.9833	3.7900e-003		63.0629
Total	0.1599	0.0478	0.4483	7.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.7000e-004	0.0179		62.9833	62.9833	3.7900e-003		63.0629

3.3 Architectural Coating - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	24.0485					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	6.1215	39.4056	31.3169	0.0502		3.2085	3.2085		3.2085	3.2085		4,693.8080	4,693.8080	0.5511		4,705.3813
Total	30.1700	39.4056	31.3169	0.0502		3.2085	3.2085		3.2085	3.2085		4,693.8080	4,693.8080	0.5511		4,705.3813

3.3 Architectural Coating - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.1455	0.0424	0.3955	7.4000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		60.7998	60.7998	3.4400e-003			60.8721
Total	0.1455	0.0424	0.3955	7.4000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		60.7998	60.7998	3.4400e-003			60.8721

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	24.0485					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	6.1215	31.5245	31.3169	0.0502		3.2085	3.2085		3.2085	3.2085	0.0000	4,693.8080	4,693.8080	0.5511			4,705.3813
Total	30.1700	31.5245	31.3169	0.0502		3.2085	3.2085		3.2085	3.2085	0.0000	4,693.8080	4,693.8080	0.5511			4,705.3813

3.3 Architectural Coating - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.1455	0.0424	0.3955	7.4000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		60.7998	60.7998	3.4400e-003			60.8721
Total	0.1455	0.0424	0.3955	7.4000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		60.7998	60.7998	3.4400e-003			60.8721

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					
Mitigated	12.7259	12.1219	49.8579	0.0944	6.4578	0.1584	6.6163	1.7274	0.1458	1.8732		7,849.6755	7,849.6755	0.3003		7,855.9815
Unmitigated	12.7259	12.1219	49.8579	0.0944	6.4578	0.1584	6.6163	1.7274	0.1458	1.8732		7,849.6755	7,849.6755	0.3003		7,855.9815

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	1,043.13	1,098.72	955.93	2,869,767	2,869,767
Total	1,043.13	1,098.72	955.93	2,869,767	2,869,767

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
Single Family Housing	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.462115	0.061823	0.181510	0.153742	0.057112	0.007288	0.019722	0.042680	0.001823	0.001665	0.006988	0.000686	0.002845

5.0 Energy Detail

4.4 Fleet Mix

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
NaturalGas Mitigated	0.1036	0.8848	0.3765	5.6500e-003		0.0715	0.0715		0.0715	0.0715		1,129.5868	1,129.5868	0.0217	0.0207	1,136.4612
NaturalGas Unmitigated	0.1036	0.8848	0.3765	5.6500e-003		0.0715	0.0715		0.0715	0.0715		1,129.5868	1,129.5868	0.0217	0.0207	1,136.4612

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	9601.49	0.1036	0.8848	0.3765	5.6500e-003		0.0715	0.0715		0.0715	0.0715		1,129.5868	1,129.5868	0.0217	0.0207	1,136.4612
Total		0.1036	0.8848	0.3765	5.6500e-003		0.0715	0.0715		0.0715	0.0715		1,129.5868	1,129.5868	0.0217	0.0207	1,136.4612

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	9.60149	0.1036	0.8848	0.3765	5.6500e-003		0.0715	0.0715		0.0715	0.0715		1,129.5868	1,129.5868	0.0217	0.0207	1,136.4612
Total		0.1036	0.8848	0.3765	5.6500e-003		0.0715	0.0715		0.0715	0.0715		1,129.5868	1,129.5868	0.0217	0.0207	1,136.4612

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					
Mitigated	174.5304	2.3891	216.4373	0.0815		29.1852	29.1852		29.1844	29.1844	3,054.8904	1,297.3687	4,352.2591	2.8352	0.2403	4,486.2883
Unmitigated	174.5304	2.3891	216.4373	0.0815		29.1852	29.1852		29.1844	29.1844	3,054.8904	1,297.3687	4,352.2591	2.8352	0.2403	4,486.2883

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.7091					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.1987					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	168.3435	2.2840	207.3811	0.0810		29.1358	29.1358		29.1349	29.1349	3,054.8904	1,281.1765	4,336.0669	2.8192	0.2403	4,469.7591
Landscaping	0.2792	0.1051	9.0562	4.7000e-004		0.0494	0.0494		0.0494	0.0494		16.1922	16.1922	0.0161		16.5292
Total	174.5304	2.3891	216.4373	0.0815		29.1852	29.1852		29.1844	29.1844	3,054.8904	1,297.3687	4,352.2591	2.8352	0.2403	4,486.2883

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.7091					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.1987					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	168.3435	2.2840	207.3811	0.0810		29.1358	29.1358		29.1349	29.1349	3,054.8904	1,281.1765	4,336.0669	2.8192	0.2403	4,469.7591
Landscaping	0.2792	0.1051	9.0562	4.7000e-004		0.0494	0.0494		0.0494	0.0494		16.1922	16.1922	0.0161		16.5292
Total	174.5304	2.3891	216.4373	0.0815		29.1852	29.1852		29.1844	29.1844	3,054.8904	1,297.3687	4,352.2591	2.8352	0.2403	4,486.2883

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 Vegetation

McKinley Village Bldg Phase 2 Sacramento Valley Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	109.00	Dwelling Unit	17.00	196,200.00	312

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	65
Climate Zone	6			Operational Year	2018
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - city's population per household (per census) is 2.0; lot acreage reflects 1/3 of overall site size

Construction Phase - per applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Trips and VMT - applicant construction data

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	0.00	1,250.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	0.00	3,750.00

tblArchitecturalCoating	ConstArea_Residential_Exterior	132,435.00	133,650.00
tblArchitecturalCoating	ConstArea_Residential_Interior	397,305.00	400,950.00
tblAreaCoating	Area_Nonresidential_Interior	0	3750
tblAreaCoating	Area_Residential_Exterior	132435	133650
tblAreaCoating	Area_Residential_Interior	397305	400950
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstructionPhase	NumDays	20.00	260.00
tblConstructionPhase	NumDays	300.00	260.00
tblConstructionPhase	PhaseEndDate	10/27/2017	10/30/2016
tblConstructionPhase	PhaseEndDate	10/28/2016	10/30/2016
tblConstructionPhase	PhaseStartDate	10/31/2016	11/1/2015
tblFireplaces	NumberGas	59.95	60.50
tblFireplaces	NumberNoFireplace	10.90	11.00

tblFireplaces	NumberWood	38.15	38.50
tblLandUse	LotAcreage	35.39	17.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	3.00
tblOffRoadEquipment	UsageHours	8.00	3.00
tblOffRoadEquipment	UsageHours	7.00	3.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	OperationalYear	2014	2018
tblSolidWaste	SolidWasteGenerationRate	110.90	111.97
tblTripsAndVMT	VendorTripNumber	12.00	15.00
tblTripsAndVMT	WorkerTripNumber	39.00	40.00
tblWater	IndoorWaterUseRate	7,101,788.79	7,166,942.82
tblWater	OutdoorWaterUseRate	4,477,214.67	4,518,290.04
tblWoodstoves	NumberCatalytic	5.45	5.50
tblWoodstoves	NumberNoncatalytic	5.45	5.50

2.0 Emissions Summary

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	8.0054	0.1031	9.3177	3.3600e-003		1.1990	1.1990		1.1990	1.1990	113.6254	48.9749	162.6002	0.1062	8.9400e-003	167.6003
Energy	0.0189	0.1615	0.0687	1.0300e-003		0.0131	0.0131		0.0131	0.0131	0.0000	404.0797	404.0797	0.0143	5.6300e-003	406.1257
Mobile	1.9371	1.9879	7.6365	0.0166	1.0688	0.0271	1.0959	0.2868	0.0250	0.3118	0.0000	1,248.3010	1,248.3010	0.0468	0.0000	1,249.2833
Waste						0.0000	0.0000		0.0000	0.0000	22.7289	0.0000	22.7289	1.3432	0.0000	50.9369
Water						0.0000	0.0000		0.0000	0.0000	2.2737	14.6182	16.8919	0.2343	5.6600e-003	23.5667
Total	9.9614	2.2524	17.0229	0.0210	1.0688	1.2392	2.3080	0.2868	1.2370	1.5238	138.6280	1,715.9738	1,854.6018	1.7447	0.0202	1,897.5130

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	8.0054	0.1031	9.3177	3.3600e-003		1.1990	1.1990		1.1990	1.1990	113.6254	48.9749	162.6002	0.1062	8.9400e-003	167.6003
Energy	0.0189	0.1615	0.0687	1.0300e-003		0.0131	0.0131		0.0131	0.0131	0.0000	404.0797	404.0797	0.0143	5.6300e-003	406.1257
Mobile	1.9371	1.9879	7.6365	0.0166	1.0688	0.0271	1.0959	0.2868	0.0250	0.3118	0.0000	1,248.3010	1,248.3010	0.0468	0.0000	1,249.2833
Waste						0.0000	0.0000		0.0000	0.0000	22.7289	0.0000	22.7289	1.3432	0.0000	50.9369
Water						0.0000	0.0000		0.0000	0.0000	2.2737	14.6182	16.8919	0.2342	5.6500e-003	23.5631
Total	9.9614	2.2524	17.0229	0.0210	1.0688	1.2392	2.3080	0.2868	1.2370	1.5238	138.6280	1,715.9738	1,854.6018	1.7446	0.0202	1,897.5093

	ROG	NOx	CO	SO2	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	0.05	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	Building Construction	Building Construction	11/1/2015	10/30/2016	5	260	
2	Architectural Coating	Architectural Coating	11/1/2015	10/30/2016	5	260	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 400,950; Residential Outdoor: 133,650; Non-Residential Indoor: 3,750; Non-Residential Outdoor: 1,250 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	3.00	226	0.29
Building Construction	Forklifts	4	3.00	89	0.20
Building Construction	Generator Sets	4	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	4	3.00	97	0.37
Building Construction	Welders	3	4.00	46	0.45
Architectural Coating	Air Compressors	12	8.00	78	0.48
Architectural Coating	Cement and Mortar Mixers	4	6.00	9	0.56
Architectural Coating	Pressure Washers	2	4.00	13	0.30

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
Building Construction	16	40.00	15.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	18	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Oxidation Catalyst for Construction Equipment

3.2 Building Construction - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1095	0.7760	0.5520	8.6000e-004		0.0566	0.0566		0.0552	0.0552	0.0000	74.9878	74.9878	0.0124	0.0000	75.2491
Total	0.1095	0.7760	0.5520	8.6000e-004		0.0566	0.0566		0.0552	0.0552	0.0000	74.9878	74.9878	0.0124	0.0000	75.2491

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0110	0.0357	0.0569	8.0000e-005	2.1200e-003	6.0000e-004	2.7200e-003	6.1000e-004	5.5000e-004	1.1600e-003	0.0000	7.1773	7.1773	6.0000e-005	0.0000	7.1786
Worker	0.0152	4.7000e-003	0.0473	8.0000e-005	6.9500e-003	6.0000e-005	7.0100e-003	1.8500e-003	5.0000e-005	1.9000e-003	0.0000	6.4701	6.4701	3.8000e-004	0.0000	6.4780
Total	0.0262	0.0404	0.1042	1.6000e-004	9.0700e-003	6.6000e-004	9.7300e-003	2.4600e-003	6.0000e-004	3.0600e-003	0.0000	13.6473	13.6473	4.4000e-004	0.0000	13.6566

3.2 Building Construction - 2015

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1095	0.6208	0.5520	8.6000e-004		0.0566	0.0566		0.0552	0.0552	0.0000	74.9877	74.9877	0.0124	0.0000	75.2490
Total	0.1095	0.6208	0.5520	8.6000e-004		0.0566	0.0566		0.0552	0.0552	0.0000	74.9877	74.9877	0.0124	0.0000	75.2490

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0110	0.0357	0.0569	8.0000e-005	2.1200e-003	6.0000e-004	2.7200e-003	6.1000e-004	5.5000e-004	1.1600e-003	0.0000	7.1773	7.1773	6.0000e-005	0.0000	7.1786
Worker	0.0152	4.7000e-003	0.0473	8.0000e-005	6.9500e-003	6.0000e-005	7.0100e-003	1.8500e-003	5.0000e-005	1.9000e-003	0.0000	6.4701	6.4701	3.8000e-004	0.0000	6.4780
Total	0.0262	0.0404	0.1042	1.6000e-004	9.0700e-003	6.6000e-004	9.7300e-003	2.4600e-003	6.0000e-004	3.0600e-003	0.0000	13.6473	13.6473	4.4000e-004	0.0000	13.6566

3.2 Building Construction - 2016**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.4883	3.5698	2.6784	4.2400e-003		0.2521	0.2521		0.2455	0.2455	0.0000	367.0955	367.0955	0.0576	0.0000	368.3057
Total	0.4883	3.5698	2.6784	4.2400e-003		0.2521	0.2521		0.2455	0.2455	0.0000	367.0955	367.0955	0.0576	0.0000	368.3057

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0450	0.1523	0.2525	3.8000e-004	0.0104	2.4800e-003	0.0129	2.9800e-003	2.2800e-003	5.2600e-003	0.0000	34.7946	34.7946	2.8000e-004	0.0000	34.8004
Worker	0.0679	0.0205	0.2056	4.1000e-004	0.0341	2.7000e-004	0.0344	9.0800e-003	2.4000e-004	9.3200e-003	0.0000	30.6626	30.6626	1.6900e-003	0.0000	30.6980
Total	0.1129	0.1728	0.4581	7.9000e-004	0.0445	2.7500e-003	0.0473	0.0121	2.5200e-003	0.0146	0.0000	65.4572	65.4572	1.9700e-003	0.0000	65.4984

3.2 Building Construction - 2016

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.4883	2.8559	2.6784	4.2400e-003		0.2521	0.2521		0.2455	0.2455	0.0000	367.0951	367.0951	0.0576	0.0000	368.3052
Total	0.4883	2.8559	2.6784	4.2400e-003		0.2521	0.2521		0.2455	0.2455	0.0000	367.0951	367.0951	0.0576	0.0000	368.3052

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0450	0.1523	0.2525	3.8000e-004	0.0104	2.4800e-003	0.0129	2.9800e-003	2.2800e-003	5.2600e-003	0.0000	34.7946	34.7946	2.8000e-004	0.0000	34.8004
Worker	0.0679	0.0205	0.2056	4.1000e-004	0.0341	2.7000e-004	0.0344	9.0800e-003	2.4000e-004	9.3200e-003	0.0000	30.6626	30.6626	1.6900e-003	0.0000	30.6980
Total	0.1129	0.1728	0.4581	7.9000e-004	0.0445	2.7500e-003	0.0473	0.0121	2.5200e-003	0.0146	0.0000	65.4572	65.4572	1.9700e-003	0.0000	65.4984

3.3 Architectural Coating - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5291					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1481	0.9370	0.6953	1.1100e-003		0.0792	0.0792		0.0792	0.0792	0.0000	93.6793	93.6793	0.0121	0.0000	93.9336
Total	0.6772	0.9370	0.6953	1.1100e-003		0.0792	0.0792		0.0792	0.0792	0.0000	93.6793	93.6793	0.0121	0.0000	93.9336

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0400e-003	9.4000e-004	9.4600e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.2940	1.2940	8.0000e-005	0.0000	1.2956
Total	3.0400e-003	9.4000e-004	9.4600e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.2940	1.2940	8.0000e-005	0.0000	1.2956

3.3 Architectural Coating - 2015

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5291					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1481	0.7496	0.6953	1.1000e-003		0.0792	0.0792		0.0792	0.0792	0.0000	93.6792	93.6792	0.0121	0.0000	93.9335
Total	0.6772	0.7496	0.6953	1.1000e-003		0.0792	0.0792		0.0792	0.0792	0.0000	93.6792	93.6792	0.0121	0.0000	93.9335

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0400e-003	9.4000e-004	9.4600e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.2940	1.2940	8.0000e-005	0.0000	1.2956
Total	3.0400e-003	9.4000e-004	9.4600e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.2940	1.2940	8.0000e-005	0.0000	1.2956

3.3 Architectural Coating - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.5972					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.6611	4.2558	3.3822	5.4200e-003		0.3465	0.3465		0.3465	0.3465	0.0000	459.8803	459.8803	0.0540	0.0000	461.0142
Total	3.2584	4.2558	3.3822	5.4200e-003		0.3465	0.3465		0.3465	0.3465	0.0000	459.8803	459.8803	0.0540	0.0000	461.0142

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0136	4.0900e-003	0.0411	8.0000e-005	6.8200e-003	5.0000e-005	6.8800e-003	1.8200e-003	5.0000e-005	1.8600e-003	0.0000	6.1325	6.1325	3.4000e-004	0.0000	6.1396
Total	0.0136	4.0900e-003	0.0411	8.0000e-005	6.8200e-003	5.0000e-005	6.8800e-003	1.8200e-003	5.0000e-005	1.8600e-003	0.0000	6.1325	6.1325	3.4000e-004	0.0000	6.1396

3.3 Architectural Coating - 2016

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.5972					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.6611	3.4046	3.3822	5.4200e-003		0.3465	0.3465		0.3465	0.3465	0.0000	459.8798	459.8798	0.0540	0.0000	461.0137
Total	3.2584	3.4046	3.3822	5.4200e-003		0.3465	0.3465		0.3465	0.3465	0.0000	459.8798	459.8798	0.0540	0.0000	461.0137

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0136	4.0900e-003	0.0411	8.0000e-005	6.8200e-003	5.0000e-005	6.8800e-003	1.8200e-003	5.0000e-005	1.8600e-003	0.0000	6.1325	6.1325	3.4000e-004	0.0000	6.1396
Total	0.0136	4.0900e-003	0.0411	8.0000e-005	6.8200e-003	5.0000e-005	6.8800e-003	1.8200e-003	5.0000e-005	1.8600e-003	0.0000	6.1325	6.1325	3.4000e-004	0.0000	6.1396

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.9371	1.9879	7.6365	0.0166	1.0688	0.0271	1.0959	0.2868	0.0250	0.3118	0.0000	1,248.3010	1,248.3010	0.0468	0.0000	1,249,2833
Unmitigated	1.9371	1.9879	7.6365	0.0166	1.0688	0.0271	1.0959	0.2868	0.0250	0.3118	0.0000	1,248.3010	1,248.3010	0.0468	0.0000	1,249,2833

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	1,043.13	1,098.72	955.93	2,869,767	2,869,767
Total	1,043.13	1,098.72	955.93	2,869,767	2,869,767

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
Single Family Housing	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.462115	0.061823	0.181510	0.153742	0.057112	0.007288	0.019722	0.042680	0.001823	0.001665	0.006988	0.000686	0.002845

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	217.0639	217.0639	0.0107	2.2100e-003	217.9718
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	217.0639	217.0639	0.0107	2.2100e-003	217.9718
NaturalGas Mitigated	0.0189	0.1615	0.0687	1.0300e-003		0.0131	0.0131		0.0131	0.0131	0.0000	187.0158	187.0158	3.5800e-003	3.4300e-003	188.1539
NaturalGas Unmitigated	0.0189	0.1615	0.0687	1.0300e-003		0.0131	0.0131		0.0131	0.0131	0.0000	187.0158	187.0158	3.5800e-003	3.4300e-003	188.1539

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	3.50454e+006	0.0189	0.1615	0.0687	1.0300e-003		0.0131	0.0131		0.0131	0.0131	0.0000	187.0158	187.0158	3.5800e-003	3.4300e-003	188.1539
Total		0.0189	0.1615	0.0687	1.0300e-003		0.0131	0.0131		0.0131	0.0131	0.0000	187.0158	187.0158	3.5800e-003	3.4300e-003	188.1539

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	3.50454e+006	0.0189	0.1615	0.0687	1.0300e-003		0.0131	0.0131		0.0131	0.0131	0.0000	187.0158	187.0158	3.5800e-003	3.4300e-003	188.1539
Total		0.0189	0.1615	0.0687	1.0300e-003		0.0131	0.0131		0.0131	0.0131	0.0000	187.0158	187.0158	3.5800e-003	3.4300e-003	188.1539

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	810666	217.0639	0.0107	2.2100e-003	217.9718
Total		217.0639	0.0107	2.2100e-003	217.9718

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	810666	217.0639	0.0107	2.2100e-003	217.9718
Total		217.0639	0.0107	2.2100e-003	217.9718

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	8.0054	0.1031	9.3177	3.3600e-003		1.1990	1.1990		1.1990	1.1990	113.6254	48.9749	162.6002	0.1062	8.9400e-003	167.6003
Unmitigated	8.0054	0.1031	9.3177	3.3600e-003		1.1990	1.1990		1.1990	1.1990	113.6254	48.9749	162.6002	0.1062	8.9400e-003	167.6003

6.2 Area by SubCategory**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3119					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7663					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	6.9021	0.0936	8.5026	3.3200e-003		1.1946	1.1946		1.1945	1.1945	113.6254	47.6528	161.2782	0.1049	8.9400e-003	166.2508
Landscaping	0.0251	9.4600e-003	0.8151	4.0000e-005		4.4500e-003	4.4500e-003		4.4500e-003	4.4500e-003	0.0000	1.3220	1.3220	1.3100e-003	0.0000	1.3496
Total	8.0054	0.1031	9.3177	3.3600e-003		1.1990	1.1990		1.1990	1.1990	113.6254	48.9749	162.6002	0.1062	8.9400e-003	167.6003

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3119					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7663					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	6.9021	0.0936	8.5026	3.3200e-003		1.1946	1.1946		1.1945	1.1945	113.6254	47.6528	161.2782	0.1049	8.9400e-003	166.2508
Landscaping	0.0251	9.4600e-003	0.8151	4.0000e-005		4.4500e-003	4.4500e-003		4.4500e-003	4.4500e-003	0.0000	1.3220	1.3220	1.3100e-003	0.0000	1.3496
Total	8.0054	0.1031	9.3177	3.3600e-003		1.1990	1.1990		1.1990	1.1990	113.6254	48.9749	162.6002	0.1062	8.9400e-003	167.6003

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	16.8919	0.2342	5.6500e-003	23.5631
Unmitigated	16.8919	0.2343	5.6600e-003	23.5667

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	7.16694 / 4.51829	16.8919	0.2343	5.6600e-003	23.5667
Total		16.8919	0.2343	5.6600e-003	23.5667

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	7.16694 / 4.51829	16.8919	0.2342	5.6500e-003	23.5631
Total		16.8919	0.2342	5.6500e-003	23.5631

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	22.7289	1.3432	0.0000	50.9369
Unmitigated	22.7289	1.3432	0.0000	50.9369

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	111.97	22.7289	1.3432	0.0000	50.9369
Total		22.7289	1.3432	0.0000	50.9369

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	111.97	22.7289	1.3432	0.0000	50.9369
Total		22.7289	1.3432	0.0000	50.9369

9.0 Operational Offroad

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

CALEEMOD OUTPUTS

Building Construction Phase 3

- ◆ Winter
- ◆ Annual

McKinley Village Bldg Phase 3 Sacramento Valley Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	109.00	Dwelling Unit	17.00	196,200.00	312

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	65
Climate Zone	6			Operational Year	2018
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	590.31	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 - city's population per household (per census) is 2.0; lot acreage reflects 1/3 of overall site size

Construction Phase - per applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Trips and VMT - applicant construction data

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	0.00	1,250.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	0.00	3,750.00

tblArchitecturalCoating	ConstArea_Residential_Exterior	132,435.00	133,650.00
tblArchitecturalCoating	ConstArea_Residential_Interior	397,305.00	400,950.00
tblAreaCoating	Area_Nonresidential_Interior	0	3750
tblAreaCoating	Area_Residential_Exterior	132435	133650
tblAreaCoating	Area_Residential_Interior	397305	400950
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstructionPhase	NumDays	20.00	283.00
tblConstructionPhase	NumDays	300.00	283.00
tblConstructionPhase	PhaseEndDate	1/1/2019	11/30/2017
tblConstructionPhase	PhaseStartDate	12/1/2017	11/1/2016
tblFireplaces	NumberGas	59.95	60.50
tblFireplaces	NumberNoFireplace	10.90	11.00
tblFireplaces	NumberWood	38.15	38.50

tblLandUse	LotAcreage	35.39	17.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	3.00
tblOffRoadEquipment	UsageHours	8.00	3.00
tblOffRoadEquipment	UsageHours	7.00	3.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	OperationalYear	2014	2018
tblSolidWaste	SolidWasteGenerationRate	110.90	111.97
tblTripsAndVMT	VendorTripNumber	12.00	15.00
tblTripsAndVMT	WorkerTripNumber	39.00	40.00
tblWater	IndoorWaterUseRate	7,101,788.79	7,166,942.82
tblWater	OutdoorWaterUseRate	4,477,214.67	4,518,290.04
tblWoodstoves	NumberCatalytic	5.45	5.50
tblWoodstoves	NumberNoncatalytic	5.45	5.50

2.0 Emissions Summary

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	174.5304	2.3891	216.4373	0.0815		29.1852	29.1852		29.1844	29.1844	3,054.8904	1,297.3687	4,352.2591	2.8352	0.2403	4,486.2883
Energy	0.1036	0.8848	0.3765	5.6500e-003		0.0715	0.0715		0.0715	0.0715		1,129.5868	1,129.5868	0.0217	0.0207	1,136.4612
Mobile	12.7259	12.1219	49.8579	0.0944	6.4578	0.1584	6.6163	1.7274	0.1458	1.8732		7,849.6755	7,849.6755	0.3003		7,855.9815
Total	187.3599	15.3958	266.6717	0.1816	6.4578	29.4152	35.8730	1.7274	29.4017	31.1291	3,054.8904	10,276.6309	13,331.5213	3.1571	0.2610	13,478.7310

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	174.5304	2.3891	216.4373	0.0815		29.1852	29.1852		29.1844	29.1844	3,054.8904	1,297.3687	4,352.2591	2.8352	0.2403	4,486.2883
Energy	0.1036	0.8848	0.3765	5.6500e-003		0.0715	0.0715		0.0715	0.0715		1,129.5868	1,129.5868	0.0217	0.0207	1,136.4612
Mobile	12.7259	12.1219	49.8579	0.0944	6.4578	0.1584	6.6163	1.7274	0.1458	1.8732		7,849.6755	7,849.6755	0.3003		7,855.9815
Total	187.3599	15.3958	266.6717	0.1816	6.4578	29.4152	35.8730	1.7274	29.4017	31.1291	3,054.8904	10,276.6309	13,331.5213	3.1571	0.2610	13,478.7310

	ROG	NOx	CO	SO2	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	Building Construction	Building Construction	11/1/2016	11/30/2017	5	283	
2	Architectural Coating	Architectural Coating	11/1/2016	11/30/2017	5	283	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 400,950; Residential Outdoor: 133,650; Non-Residential Indoor: 3,750; Non-Residential Outdoor: 1,250 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	3.00	226	0.29
Building Construction	Forklifts	4	3.00	89	0.20
Building Construction	Generator Sets	4	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	4	3.00	97	0.37
Building Construction	Welders	3	4.00	46	0.45
Architectural Coating	Air Compressors	12	8.00	78	0.48
Architectural Coating	Cement and Mortar Mixers	4	6.00	9	0.56
Architectural Coating	Pressure Washers	2	4.00	13	0.30

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
Building Construction	16	40.00	15.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	18	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Oxidation Catalyst for Construction Equipment

Clean Paved Roads

3.2 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.5212	33.0540	24.7997	0.0392		2.3342	2.3342		2.2729	2.2729		3,746.7917	3,746.7917	0.5882		3,759.1435
Total	4.5212	33.0540	24.7997	0.0392		2.3342	2.3342		2.2729	2.2729		3,746.7917	3,746.7917	0.5882		3,759.1435

3.2 Building Construction - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.4708	1.4345	2.9667	3.5500e-003	0.0995	0.0232	0.1226	0.0284	0.0213	0.0496		353.5516	353.5516	2.8700e-003			353.6117
Worker	0.7273	0.2120	1.9774	3.7000e-003	0.3286	2.4700e-003	0.3311	0.0872	2.2600e-003	0.0894		303.9990	303.9990	0.0172			304.3603
Total	1.1980	1.6465	4.9440	7.2500e-003	0.4281	0.0256	0.4537	0.1155	0.0235	0.1390		657.5506	657.5506	0.0201			657.9721

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	4.5212	26.4432	24.7997	0.0392		2.3342	2.3342		2.2729	2.2729	0.0000	3,746.7917	3,746.7917	0.5882			3,759.1435
Total	4.5212	26.4432	24.7997	0.0392		2.3342	2.3342		2.2729	2.2729	0.0000	3,746.7917	3,746.7917	0.5882			3,759.1435

3.2 Building Construction - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.4708	1.4345	2.9667	3.5500e-003	0.0995	0.0232	0.1226	0.0284	0.0213	0.0496		353.5516	353.5516	2.8700e-003			353.6117
Worker	0.7273	0.2120	1.9774	3.7000e-003	0.3286	2.4700e-003	0.3311	0.0872	2.2600e-003	0.0894		303.9990	303.9990	0.0172			304.3603
Total	1.1980	1.6465	4.9440	7.2500e-003	0.4281	0.0256	0.4537	0.1155	0.0235	0.1390		657.5506	657.5506	0.0201			657.9721

3.2 Building Construction - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	4.0663	30.6582	24.4611	0.0392		2.0912	2.0912		2.0354	2.0354		3,731.5987	3,731.5987	0.5535			3,743.2220
Total	4.0663	30.6582	24.4611	0.0392		2.0912	2.0912		2.0354	2.0354		3,731.5987	3,731.5987	0.5535			3,743.2220

3.2 Building Construction - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.4022	1.2638	2.7589	3.5400e-003	0.0995	0.0195	0.1190	0.0284	0.0179	0.0463		347.4869	347.4869	2.6700e-003			347.5430
Worker	0.6584	0.1877	1.7305	3.6900e-003	0.3286	2.3600e-003	0.3310	0.0872	2.1700e-003	0.0893		291.9106	291.9106	0.0156			292.2380
Total	1.0606	1.4515	4.4895	7.2300e-003	0.4281	0.0219	0.4500	0.1155	0.0201	0.1356		639.3975	639.3975	0.0183			639.7810

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	4.0663	24.5265	24.4611	0.0392		2.0912	2.0912		2.0354	2.0354	0.0000	3,731.5987	3,731.5987	0.5535			3,743.2220
Total	4.0663	24.5265	24.4611	0.0392		2.0912	2.0912		2.0354	2.0354	0.0000	3,731.5987	3,731.5987	0.5535			3,743.2220

3.2 Building Construction - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.4022	1.2638	2.7589	3.5400e-003	0.0995	0.0195	0.1190	0.0284	0.0179	0.0463		347.4869	347.4869	2.6700e-003			347.5430
Worker	0.6584	0.1877	1.7305	3.6900e-003	0.3286	2.3600e-003	0.3310	0.0872	2.1700e-003	0.0893		291.9106	291.9106	0.0156			292.2380
Total	1.0606	1.4515	4.4895	7.2300e-003	0.4281	0.0219	0.4500	0.1155	0.0201	0.1356		639.3975	639.3975	0.0183			639.7810

3.3 Architectural Coating - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	22.0941					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	6.1215	39.4056	31.3169	0.0502		3.2085	3.2085		3.2085	3.2085		4,693.8080	4,693.8080	0.5511			4,705.3813
Total	28.2155	39.4056	31.3169	0.0502		3.2085	3.2085		3.2085	3.2085		4,693.8080	4,693.8080	0.5511			4,705.3813

3.3 Architectural Coating - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.1455	0.0424	0.3955	7.4000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		60.7998	60.7998	3.4400e-003			60.8721
Total	0.1455	0.0424	0.3955	7.4000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		60.7998	60.7998	3.4400e-003			60.8721

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	22.0941					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	6.1215	31.5245	31.3169	0.0502		3.2085	3.2085		3.2085	3.2085	0.0000	4,693.8080	4,693.8080	0.5511			4,705.3813
Total	28.2155	31.5245	31.3169	0.0502		3.2085	3.2085		3.2085	3.2085	0.0000	4,693.8080	4,693.8080	0.5511			4,705.3813

3.3 Architectural Coating - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.1455	0.0424	0.3955	7.4000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		60.7998	60.7998	3.4400e-003			60.8721
Total	0.1455	0.0424	0.3955	7.4000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		60.7998	60.7998	3.4400e-003			60.8721

3.3 Architectural Coating - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	22.0941					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	5.5413	36.3992	31.0618	0.0502		2.8346	2.8346		2.8346	2.8346		4,693.8077	4,693.8077	0.4955		4,704.2133
Total	27.6354	36.3992	31.0618	0.0502		2.8346	2.8346		2.8346	2.8346		4,693.8077	4,693.8077	0.4955		4,704.2133

3.3 Architectural Coating - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.1317	0.0376	0.3461	7.4000e-004	0.0657	4.7000e-004	0.0662	0.0174	4.3000e-004	0.0179		58.3821	58.3821	3.1200e-003			58.4476
Total	0.1317	0.0376	0.3461	7.4000e-004	0.0657	4.7000e-004	0.0662	0.0174	4.3000e-004	0.0179		58.3821	58.3821	3.1200e-003			58.4476

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	22.0941					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	5.5413	29.1194	31.0618	0.0502		2.8346	2.8346		2.8346	2.8346	0.0000	4,693.8077	4,693.8077	0.4955			4,704.2133
Total	27.6354	29.1194	31.0618	0.0502		2.8346	2.8346		2.8346	2.8346	0.0000	4,693.8077	4,693.8077	0.4955			4,704.2133

3.3 Architectural Coating - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1317	0.0376	0.3461	7.4000e-004	0.0657	4.7000e-004	0.0662	0.0174	4.3000e-004	0.0179		58.3821	58.3821	3.1200e-003		58.4476
Total	0.1317	0.0376	0.3461	7.4000e-004	0.0657	4.7000e-004	0.0662	0.0174	4.3000e-004	0.0179		58.3821	58.3821	3.1200e-003		58.4476

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					
Mitigated	12.7259	12.1219	49.8579	0.0944	6.4578	0.1584	6.6163	1.7274	0.1458	1.8732		7,849.6755	7,849.6755	0.3003		7,855.9815
Unmitigated	12.7259	12.1219	49.8579	0.0944	6.4578	0.1584	6.6163	1.7274	0.1458	1.8732		7,849.6755	7,849.6755	0.3003		7,855.9815

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	1,043.13	1,098.72	955.93	2,869,767	2,869,767
Total	1,043.13	1,098.72	955.93	2,869,767	2,869,767

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
Single Family Housing	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.462115	0.061823	0.181510	0.153742	0.057112	0.007288	0.019722	0.042680	0.001823	0.001665	0.006988	0.000686	0.002845

5.0 Energy Detail

4.4 Fleet Mix

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
NaturalGas Mitigated	0.1036	0.8848	0.3765	5.6500e-003		0.0715	0.0715		0.0715	0.0715		1,129.5868	1,129.5868	0.0217	0.0207	1,136.4612
NaturalGas Unmitigated	0.1036	0.8848	0.3765	5.6500e-003		0.0715	0.0715		0.0715	0.0715		1,129.5868	1,129.5868	0.0217	0.0207	1,136.4612

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	9601.49	0.1036	0.8848	0.3765	5.6500e-003		0.0715	0.0715		0.0715	0.0715		1,129.5868	1,129.5868	0.0217	0.0207	1,136.4612
Total		0.1036	0.8848	0.3765	5.6500e-003		0.0715	0.0715		0.0715	0.0715		1,129.5868	1,129.5868	0.0217	0.0207	1,136.4612

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	9.60149	0.1036	0.8848	0.3765	5.6500e-003		0.0715	0.0715		0.0715	0.0715		1,129.5868	1,129.5868	0.0217	0.0207	1,136.4612
Total		0.1036	0.8848	0.3765	5.6500e-003		0.0715	0.0715		0.0715	0.0715		1,129.5868	1,129.5868	0.0217	0.0207	1,136.4612

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					
Mitigated	174.5304	2.3891	216.4373	0.0815		29.1852	29.1852		29.1844	29.1844	3,054.8904	1,297.3687	4,352.2591	2.8352	0.2403	4,486.2883
Unmitigated	174.5304	2.3891	216.4373	0.0815		29.1852	29.1852		29.1844	29.1844	3,054.8904	1,297.3687	4,352.2591	2.8352	0.2403	4,486.2883

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.7091					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.1987					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	168.3435	2.2840	207.3811	0.0810		29.1358	29.1358		29.1349	29.1349	3,054.8904	1,281.1765	4,336.0669	2.8192	0.2403	4,469.7591
Landscaping	0.2792	0.1051	9.0562	4.7000e-004		0.0494	0.0494		0.0494	0.0494		16.1922	16.1922	0.0161		16.5292
Total	174.5304	2.3891	216.4373	0.0815		29.1852	29.1852		29.1844	29.1844	3,054.8904	1,297.3687	4,352.2591	2.8352	0.2403	4,486.2883

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	lb/day										lb/day						
Architectural Coating	1.7091					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Consumer Products	4.1987					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Hearth	168.3435	2.2840	207.3811	0.0810		29.1358	29.1358		29.1349	29.1349	3,054.8904	1,281.1765	4,336.0669	2.8192	0.2403		4,469.7591
Landscaping	0.2792	0.1051	9.0562	4.7000e-004		0.0494	0.0494		0.0494	0.0494		16.1922	16.1922	0.0161			16.5292
Total	174.5304	2.3891	216.4373	0.0815		29.1852	29.1852		29.1844	29.1844	3,054.8904	1,297.3687	4,352.2591	2.8352	0.2403		4,486.2883

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 Vegetation

McKinley Village Bldg Phase 3 Sacramento Valley Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	109.00	Dwelling Unit	17.00	196,200.00	312

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	65
Climate Zone	6			Operational Year	2018
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - city's population per household (per census) is 2.0; lot acreage reflects 1/3 of overall site size

Construction Phase - per applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Trips and VMT - applicant construction data

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	0.00	1,250.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	0.00	3,750.00

tblArchitecturalCoating	ConstArea_Residential_Exterior	132,435.00	133,650.00
tblArchitecturalCoating	ConstArea_Residential_Interior	397,305.00	400,950.00
tblAreaCoating	Area_Nonresidential_Interior	0	3750
tblAreaCoating	Area_Residential_Exterior	132435	133650
tblAreaCoating	Area_Residential_Interior	397305	400950
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstructionPhase	NumDays	20.00	283.00
tblConstructionPhase	NumDays	300.00	283.00
tblConstructionPhase	PhaseEndDate	1/1/2019	11/30/2017
tblConstructionPhase	PhaseStartDate	12/1/2017	11/1/2016
tblFireplaces	NumberGas	59.95	60.50
tblFireplaces	NumberNoFireplace	10.90	11.00
tblFireplaces	NumberWood	38.15	38.50

tblLandUse	LotAcreage	35.39	17.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	3.00
tblOffRoadEquipment	UsageHours	8.00	3.00
tblOffRoadEquipment	UsageHours	7.00	3.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	OperationalYear	2014	2018
tblSolidWaste	SolidWasteGenerationRate	110.90	111.97
tblTripsAndVMT	VendorTripNumber	12.00	15.00
tblTripsAndVMT	WorkerTripNumber	39.00	40.00
tblWater	IndoorWaterUseRate	7,101,788.79	7,166,942.82
tblWater	OutdoorWaterUseRate	4,477,214.67	4,518,290.04
tblWoodstoves	NumberCatalytic	5.45	5.50
tblWoodstoves	NumberNoncatalytic	5.45	5.50

2.0 Emissions Summary

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	8.0054	0.1031	9.3177	3.3600e-003		1.1990	1.1990		1.1990	1.1990	113.6254	48.9749	162.6002	0.1062	8.9400e-003	167.6003
Energy	0.0189	0.1615	0.0687	1.0300e-003		0.0131	0.0131		0.0131	0.0131	0.0000	404.0797	404.0797	0.0143	5.6300e-003	406.1257
Mobile	1.9371	1.9879	7.6365	0.0166	1.0688	0.0271	1.0959	0.2868	0.0250	0.3118	0.0000	1,248.3010	1,248.3010	0.0468	0.0000	1,249.2833
Waste						0.0000	0.0000		0.0000	0.0000	22.7289	0.0000	22.7289	1.3432	0.0000	50.9369
Water						0.0000	0.0000		0.0000	0.0000	2.2737	14.6182	16.8919	0.2343	5.6600e-003	23.5667
Total	9.9614	2.2524	17.0229	0.0210	1.0688	1.2392	2.3080	0.2868	1.2370	1.5238	138.6280	1,715.9738	1,854.6018	1.7447	0.0202	1,897.5130

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	8.0054	0.1031	9.3177	3.3600e-003		1.1990	1.1990		1.1990	1.1990	113.6254	48.9749	162.6002	0.1062	8.9400e-003	167.6003
Energy	0.0189	0.1615	0.0687	1.0300e-003		0.0131	0.0131		0.0131	0.0131	0.0000	404.0797	404.0797	0.0143	5.6300e-003	406.1257
Mobile	1.9371	1.9879	7.6365	0.0166	1.0688	0.0271	1.0959	0.2868	0.0250	0.3118	0.0000	1,248.3010	1,248.3010	0.0468	0.0000	1,249.2833
Waste						0.0000	0.0000		0.0000	0.0000	22.7289	0.0000	22.7289	1.3432	0.0000	50.9369
Water						0.0000	0.0000		0.0000	0.0000	2.2737	14.6182	16.8919	0.2342	5.6500e-003	23.5631
Total	9.9614	2.2524	17.0229	0.0210	1.0688	1.2392	2.3080	0.2868	1.2370	1.5238	138.6280	1,715.9738	1,854.6018	1.7446	0.0202	1,897.5093

	ROG	NOx	CO	SO2	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	0.05	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	Building Construction	Building Construction	11/1/2016	11/30/2017	5	283	
2	Architectural Coating	Architectural Coating	11/1/2016	11/30/2017	5	283	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 400,950; Residential Outdoor: 133,650; Non-Residential Indoor: 3,750; Non-Residential Outdoor: 1,250 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	3.00	226	0.29
Building Construction	Forklifts	4	3.00	89	0.20
Building Construction	Generator Sets	4	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	4	3.00	97	0.37
Building Construction	Welders	3	4.00	46	0.45
Architectural Coating	Air Compressors	12	8.00	78	0.48
Architectural Coating	Cement and Mortar Mixers	4	6.00	9	0.56
Architectural Coating	Pressure Washers	2	4.00	13	0.30

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
Building Construction	16	40.00	15.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	18	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Oxidation Catalyst for Construction Equipment

3.2 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0995	0.7272	0.5456	8.6000e-004		0.0514	0.0514		0.0500	0.0500	0.0000	74.7787	74.7787	0.0117	0.0000	75.0252
Total	0.0995	0.7272	0.5456	8.6000e-004		0.0514	0.0514		0.0500	0.0500	0.0000	74.7787	74.7787	0.0117	0.0000	75.0252

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.1600e-003	0.0310	0.0514	8.0000e-005	2.1200e-003	5.1000e-004	2.6200e-003	6.1000e-004	4.6000e-004	1.0700e-003	0.0000	7.0878	7.0878	6.0000e-005	0.0000	7.0890
Worker	0.0138	4.1700e-003	0.0419	8.0000e-005	6.9500e-003	5.0000e-005	7.0000e-003	1.8500e-003	5.0000e-005	1.9000e-003	0.0000	6.2461	6.2461	3.4000e-004	0.0000	6.2533
Total	0.0230	0.0352	0.0933	1.6000e-004	9.0700e-003	5.6000e-004	9.6200e-003	2.4600e-003	5.1000e-004	2.9700e-003	0.0000	13.3339	13.3339	4.0000e-004	0.0000	13.3423

3.2 Building Construction - 2016

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0995	0.5818	0.5456	8.6000e-004		0.0514	0.0514		0.0500	0.0500	0.0000	74.7786	74.7786	0.0117	0.0000	75.0251
Total	0.0995	0.5818	0.5456	8.6000e-004		0.0514	0.0514		0.0500	0.0500	0.0000	74.7786	74.7786	0.0117	0.0000	75.0251

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.1600e-003	0.0310	0.0514	8.0000e-005	2.1200e-003	5.1000e-004	2.6200e-003	6.1000e-004	4.6000e-004	1.0700e-003	0.0000	7.0878	7.0878	6.0000e-005	0.0000	7.0890
Worker	0.0138	4.1700e-003	0.0419	8.0000e-005	6.9500e-003	5.0000e-005	7.0000e-003	1.8500e-003	5.0000e-005	1.9000e-003	0.0000	6.2461	6.2461	3.4000e-004	0.0000	6.2533
Total	0.0230	0.0352	0.0933	1.6000e-004	9.0700e-003	5.6000e-004	9.6200e-003	2.4600e-003	5.1000e-004	2.9700e-003	0.0000	13.3339	13.3339	4.0000e-004	0.0000	13.3423

3.2 Building Construction - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.4859	3.6637	2.9231	4.6900e-003		0.2499	0.2499		0.2432	0.2432	0.0000	404.5373	404.5373	0.0600	0.0000	405.7974
Total	0.4859	3.6637	2.9231	4.6900e-003		0.2499	0.2499		0.2432	0.2432	0.0000	404.5373	404.5373	0.0600	0.0000	405.7974

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0426	0.1485	0.2561	4.2000e-004	0.0115	2.3100e-003	0.0138	3.3000e-003	2.1300e-003	5.4200e-003	0.0000	37.8399	37.8399	2.8000e-004	0.0000	37.8459
Worker	0.0680	0.0200	0.2002	4.5000e-004	0.0378	2.8000e-004	0.0380	0.0100	2.6000e-004	0.0103	0.0000	32.5803	32.5803	1.6900e-003	0.0000	32.6158
Total	0.1106	0.1686	0.4563	8.7000e-004	0.0493	2.5900e-003	0.0519	0.0133	2.3900e-003	0.0157	0.0000	70.4202	70.4202	1.9700e-003	0.0000	70.4617

3.2 Building Construction - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.4859	2.9309	2.9231	4.6900e-003		0.2499	0.2499		0.2432	0.2432	0.0000	404.5368	404.5368	0.0600	0.0000	405.7969
Total	0.4859	2.9309	2.9231	4.6900e-003		0.2499	0.2499		0.2432	0.2432	0.0000	404.5368	404.5368	0.0600	0.0000	405.7969

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0426	0.1485	0.2561	4.2000e-004	0.0115	2.3100e-003	0.0138	3.3000e-003	2.1300e-003	5.4200e-003	0.0000	37.8399	37.8399	2.8000e-004	0.0000	37.8459
Worker	0.0680	0.0200	0.2002	4.5000e-004	0.0378	2.8000e-004	0.0380	0.0100	2.6000e-004	0.0103	0.0000	32.5803	32.5803	1.6900e-003	0.0000	32.6158
Total	0.1106	0.1686	0.4563	8.7000e-004	0.0493	2.5900e-003	0.0519	0.0133	2.3900e-003	0.0157	0.0000	70.4202	70.4202	1.9700e-003	0.0000	70.4617

3.3 Architectural Coating - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.4861					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1347	0.8669	0.6890	1.1100e-003		0.0706	0.0706		0.0706	0.0706	0.0000	93.6793	93.6793	0.0110	0.0000	93.9103
Total	0.6207	0.8669	0.6890	1.1100e-003		0.0706	0.0706		0.0706	0.0706	0.0000	93.6793	93.6793	0.0110	0.0000	93.9103

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7700e-003	8.3000e-004	8.3800e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.2492	1.2492	7.0000e-005	0.0000	1.2507
Total	2.7700e-003	8.3000e-004	8.3800e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.2492	1.2492	7.0000e-005	0.0000	1.2507

3.3 Architectural Coating - 2016

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.4861					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1347	0.6935	0.6890	1.1000e-003		0.0706	0.0706		0.0706	0.0706	0.0000	93.6792	93.6792	0.0110	0.0000	93.9102
Total	0.6207	0.6935	0.6890	1.1000e-003		0.0706	0.0706		0.0706	0.0706	0.0000	93.6792	93.6792	0.0110	0.0000	93.9102

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7700e-003	8.3000e-004	8.3800e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.2492	1.2492	7.0000e-005	0.0000	1.2507
Total	2.7700e-003	8.3000e-004	8.3800e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.2492	1.2492	7.0000e-005	0.0000	1.2507

3.3 Architectural Coating - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.6402					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.6622	4.3497	3.7119	6.0000e-003		0.3387	0.3387		0.3387	0.3387	0.0000	508.8490	508.8490	0.0537	0.0000	509.9771
Total	3.3024	4.3497	3.7119	6.0000e-003		0.3387	0.3387		0.3387	0.3387	0.0000	508.8490	508.8490	0.0537	0.0000	509.9771

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0136	4.0100e-003	0.0400	9.0000e-005	7.5500e-003	6.0000e-005	7.6100e-003	2.0100e-003	5.0000e-005	2.0600e-003	0.0000	6.5161	6.5161	3.4000e-004	0.0000	6.5232
Total	0.0136	4.0100e-003	0.0400	9.0000e-005	7.5500e-003	6.0000e-005	7.6100e-003	2.0100e-003	5.0000e-005	2.0600e-003	0.0000	6.5161	6.5161	3.4000e-004	0.0000	6.5232

3.3 Architectural Coating - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.6402					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.6622	3.4798	3.7119	6.0000e-003		0.3387	0.3387		0.3387	0.3387	0.0000	508.8484	508.8484	0.0537	0.0000	509.9765
Total	3.3024	3.4798	3.7119	6.0000e-003		0.3387	0.3387		0.3387	0.3387	0.0000	508.8484	508.8484	0.0537	0.0000	509.9765

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0136	4.0100e-003	0.0400	9.0000e-005	7.5500e-003	6.0000e-005	7.6100e-003	2.0100e-003	5.0000e-005	2.0600e-003	0.0000	6.5161	6.5161	3.4000e-004	0.0000	6.5232
Total	0.0136	4.0100e-003	0.0400	9.0000e-005	7.5500e-003	6.0000e-005	7.6100e-003	2.0100e-003	5.0000e-005	2.0600e-003	0.0000	6.5161	6.5161	3.4000e-004	0.0000	6.5232

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.9371	1.9879	7.6365	0.0166	1.0688	0.0271	1.0959	0.2868	0.0250	0.3118	0.0000	1,248.3010	1,248.3010	0.0468	0.0000	1,249,2833
Unmitigated	1.9371	1.9879	7.6365	0.0166	1.0688	0.0271	1.0959	0.2868	0.0250	0.3118	0.0000	1,248.3010	1,248.3010	0.0468	0.0000	1,249,2833

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	1,043.13	1,098.72	955.93	2,869,767	2,869,767
Total	1,043.13	1,098.72	955.93	2,869,767	2,869,767

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
Single Family Housing	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.462115	0.061823	0.181510	0.153742	0.057112	0.007288	0.019722	0.042680	0.001823	0.001665	0.006988	0.000686	0.002845

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	217.0639	217.0639	0.0107	2.2100e-003	217.9718
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	217.0639	217.0639	0.0107	2.2100e-003	217.9718
NaturalGas Mitigated	0.0189	0.1615	0.0687	1.0300e-003		0.0131	0.0131		0.0131	0.0131	0.0000	187.0158	187.0158	3.5800e-003	3.4300e-003	188.1539
NaturalGas Unmitigated	0.0189	0.1615	0.0687	1.0300e-003		0.0131	0.0131		0.0131	0.0131	0.0000	187.0158	187.0158	3.5800e-003	3.4300e-003	188.1539

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	3.50454e+006	0.0189	0.1615	0.0687	1.0300e-003		0.0131	0.0131		0.0131	0.0131	0.0000	187.0158	187.0158	3.5800e-003	3.4300e-003	188.1539
Total		0.0189	0.1615	0.0687	1.0300e-003		0.0131	0.0131		0.0131	0.0131	0.0000	187.0158	187.0158	3.5800e-003	3.4300e-003	188.1539

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	3.50454e+006	0.0189	0.1615	0.0687	1.0300e-003		0.0131	0.0131		0.0131	0.0131	0.0000	187.0158	187.0158	3.5800e-003	3.4300e-003	188.1539
Total		0.0189	0.1615	0.0687	1.0300e-003		0.0131	0.0131		0.0131	0.0131	0.0000	187.0158	187.0158	3.5800e-003	3.4300e-003	188.1539

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	810666	217.0639	0.0107	2.2100e-003	217.9718
Total		217.0639	0.0107	2.2100e-003	217.9718

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	810666	217.0639	0.0107	2.2100e-003	217.9718
Total		217.0639	0.0107	2.2100e-003	217.9718

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	8.0054	0.1031	9.3177	3.3600e-003		1.1990	1.1990		1.1990	1.1990	113.6254	48.9749	162.6002	0.1062	8.9400e-003	167.6003
Unmitigated	8.0054	0.1031	9.3177	3.3600e-003		1.1990	1.1990		1.1990	1.1990	113.6254	48.9749	162.6002	0.1062	8.9400e-003	167.6003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3119					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7663					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	6.9021	0.0936	8.5026	3.3200e-003		1.1946	1.1946		1.1945	1.1945	113.6254	47.6528	161.2782	0.1049	8.9400e-003	166.2508
Landscaping	0.0251	9.4600e-003	0.8151	4.0000e-005		4.4500e-003	4.4500e-003		4.4500e-003	4.4500e-003	0.0000	1.3220	1.3220	1.3100e-003	0.0000	1.3496
Total	8.0054	0.1031	9.3177	3.3600e-003		1.1990	1.1990		1.1990	1.1990	113.6254	48.9749	162.6002	0.1062	8.9400e-003	167.6003

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3119					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7663					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	6.9021	0.0936	8.5026	3.3200e-003		1.1946	1.1946		1.1945	1.1945	113.6254	47.6528	161.2782	0.1049	8.9400e-003	166.2508
Landscaping	0.0251	9.4600e-003	0.8151	4.0000e-005		4.4500e-003	4.4500e-003		4.4500e-003	4.4500e-003	0.0000	1.3220	1.3220	1.3100e-003	0.0000	1.3496
Total	8.0054	0.1031	9.3177	3.3600e-003		1.1990	1.1990		1.1990	1.1990	113.6254	48.9749	162.6002	0.1062	8.9400e-003	167.6003

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	16.8919	0.2342	5.6500e-003	23.5631
Unmitigated	16.8919	0.2343	5.6600e-003	23.5667

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	7.16694 / 4.51829	16.8919	0.2343	5.6600e-003	23.5667
Total		16.8919	0.2343	5.6600e-003	23.5667

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	7.16694 / 4.51829	16.8919	0.2342	5.6500e-003	23.5631
Total		16.8919	0.2342	5.6500e-003	23.5631

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	22.7289	1.3432	0.0000	50.9369
Unmitigated	22.7289	1.3432	0.0000	50.9369

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	111.97	22.7289	1.3432	0.0000	50.9369
Total		22.7289	1.3432	0.0000	50.9369

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	111.97	22.7289	1.3432	0.0000	50.9369
Total		22.7289	1.3432	0.0000	50.9369

9.0 Operational Offroad

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

MITIGATION FEE CALCULATOR



TIPS FOR USE:						
1. For both residential and non-residential acreage entries EXCLUDE ONLY undisturbed (not graded) Open Space.						
2. Append this calculation sheet to the environmental document.						
3. Unmitigated NOx (lbs/day) and duration (days) should be consistent with the results of the air quality model used.						
4. Activity Phase identifiers should be included (phase name and date range, i.e. grading 3/15/12-4/30/12).						

Construction Emissions Mitigation Fee Calculation

PART 1: PROJECT INFORMATION						
Project Name:	McKinley Village					
Control/Application #:						
Single Family Dwelling Units:	328	<i>Note: Enter information only in blue bordered cells</i>				
Multi Family Dwelling Units:		Total Residential Acreage:	30.1			
Non-residential Square Feet:	2,500	Total Non-residential Acreage:	18.7			

PART 2: EMISSIONS INFORMATION						
Year	Activity Phase	NOx (lbs/day) unmitigated	NOx (lbs/day) mitigated*	NOx over threshold (lbs/day)	duration (days)	Total significant NOx (lbs)
	Demolition (on road)					
	Demolition (off road)		0.00			
	TOTAL Demolition		0.00	0	0	0.00
	Site Preparation 5/1/14 to 5/14/14	19.95	15.96	0	10	0.00
	Grading 5/15/14 to 6/30/14 (no overlap with other pha	119.33	95.46	10.46	35	366.24
	Grading, UPRR, and 40th St 7/1/2014 to 7/31/2014	150.04	120.03	35.03	22	770.70
	UPRR, 40th St, and Utilities/Trenching 8/1/2014 to 9/	49.84	39.87	0	44	0.00
	UPRR, 40th St, and Paving Onsite 10/1/2014 to 11/3	60.73	48.58	0	44	0.00
	UPRR, Building Construction, and Arch Coatings 12/	50.86	40.69	0	20	0.00
	UPRR, Building Construction, and Arch Coatings 1/2/	47.85	38.28	0	22	0.00
	Building Construction and Arch Coatings 2/1/2015 to	32.86	26.29	0	239	0.00
	Building Construction and Arch Coatings 5/1/2015 to	79.80	63.84	0	261	0.00
	Building Construction and Arch Coatings 1/2/2016 to	74.25	59.40	0	238	0.00
	Building Construction and Arch Coatings 1/2/2017 to	68.55	54.84	0	0	0.00
			0.00	0	0	0.00
	<i>Total project Nox over threshold (lbs)</i>		1136.94			
	<i>Total project Nox over threshold (tons)</i>		0.57			

PART 3: MITIGATION FEE RESULTS						
<i>MITIGATION FEE (\$17,460/TON)**</i>		\$9,926				
<i>ADMINISTRATIVE FEE (5.0%)</i>		\$496				
TOTAL FEE		\$10,422				
>>> Fee is to be paid to the SMAQMD, either in total or on a by acre basis, prior to any ground disturbance.						
Mitigation Fee (\$/acre)				\$203.39		

* Assumes a construction mitigation plan which achieves a 20% reduction in NOx from on-site, off-road equipment.

** Or the \$/ton of NOx cost-effectiveness value in effect at the time the fee is collected.

ALTERNATIVE 2

Building Construction and Operation

- ◆ **Winter**
- ◆ **Annual**

McKinley Site Alt 2
Sacramento Valley Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Heavy Industry	178.50	1000sqft	4.10	178,500.00	0
Other Asphalt Surfaces	40.00	1000sqft	0.92	40,000.00	0
Parking Lot	284.00	Space	2.56	113,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	65
Climate Zone	6			Operational Year	2016
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - applicant data

Off-road Equipment - assumed same as proposed project

Off-road Equipment - CalEEMod defaults

Off-road Equipment - CalEEMod defaults

Off-road Equipment - same as proposed project plus excavator to reflect need for material movement to facilitate construction of RR track ramps

Off-road Equipment - assumed same as proposed project

Off-road Equipment - assumed same as proposed project

Off-road Equipment - assumed same as proposed project

Trips and VMT - assumed same as proposed project other than building construction and coatings

Grading - acres disturbed reflects site size

Vehicle Trips - per traffic data

Consumer Products - calculated offmodel to avoid applying emission factor to paved areas

Construction Off-road Equipment Mitigation - dust mitigation per SMAQMD CEQA Handbook

Mobile Land Use Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	14.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstructionPhase	NumDays	20.00	261.00
tblConstructionPhase	NumDays	230.00	261.00
tblConstructionPhase	NumDays	20.00	56.00
tblConstructionPhase	NumDays	20.00	109.00
tblConstructionPhase	NumDays	20.00	43.00
tblConstructionPhase	PhaseEndDate	11/29/2016	11/30/2015

tblConstructionPhase	PhaseEndDate	12/31/2014	11/28/2014
tblConstructionPhase	PhaseEndDate	1/28/2015	9/30/2014
tblConstructionPhase	PhaseStartDate	12/1/2015	12/1/2014
tblConstructionPhase	PhaseStartDate	11/29/2014	12/1/2014
tblConstructionPhase	PhaseStartDate	8/1/2014	7/1/2014
tblConstructionPhase	PhaseStartDate	11/29/2014	8/1/2014
tblGrading	AcresOfGrading	308.00	30.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblProjectCharacteristics	OperationalYear	2014	2016
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	23.00	5.00
tblTripsAndVMT	WorkerTripNumber	38.00	28.00
tblTripsAndVMT	WorkerTripNumber	35.00	27.00
tblVehicleTrips	WD_TR	1.50	4.80

2.0 Emissions Summary

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	8.5210	5.0000e-004	0.0526	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1100	0.1100	3.1000e-004		0.1165
Energy	0.1953	1.7754	1.4914	0.0107		0.1349	0.1349		0.1349	0.1349		2,130.4932	2,130.4932	0.0408	0.0391	2,143.4590
Mobile	12.4892	11.9627	47.8674	0.0775	5.3197	0.1507	5.4704	1.4228	0.1384	1.5613		6,833.1465	6,833.1465	0.2898		6,839.2314
Total	21.2055	13.7386	49.4114	0.0882	5.3197	0.2858	5.6056	1.4228	0.2735	1.6964		8,963.7496	8,963.7496	0.3309	0.0391	8,982.8069

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	8.5210	5.0000e-004	0.0526	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1100	0.1100	3.1000e-004		0.1165
Energy	0.1953	1.7754	1.4914	0.0107		0.1349	0.1349		0.1349	0.1349		2,130.4932	2,130.4932	0.0408	0.0391	2,143.4590
Mobile	12.4892	11.9627	47.8674	0.0775	5.3197	0.1507	5.4704	1.4228	0.1384	1.5613		6,833.1465	6,833.1465	0.2898		6,839.2314
Total	21.2055	13.7386	49.4114	0.0882	5.3197	0.2858	5.6056	1.4228	0.2735	1.6964		8,963.7496	8,963.7496	0.3309	0.0391	8,982.8069

	ROG	NOx	CO	SO2	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	Site Preparation	Site Preparation	5/1/2014	5/14/2014	5	10	
2	Grading	Grading	5/15/2014	7/31/2014	5	56	
3	40th Street Extension	Paving	7/1/2014	11/28/2014	5	109	
4	Utilities/Trenching	Trenching	8/1/2014	9/30/2014	5	43	
5	Paving Onsite	Paving	10/1/2014	11/28/2014	5	43	
6	Building Construction	Building Construction	12/1/2014	11/30/2015	5	261	
7	Architectural Coating	Architectural Coating	12/1/2014	11/30/2015	5	261	

Acres of Grading (Site Preparation Phase): 10

Acres of Grading (Grading Phase): 30

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 332,862; Non-Residential Outdoor: 110,954 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Crawler Tractors	2	8.00	208	0.43
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

Grading	Crawler Tractors	2	8.00	208	0.43
Grading	Excavators	1	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rollers	3	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Scrapers	4	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
40th Street Extension	Dumpers/Tenders	4	8.00	16	0.38
40th Street Extension	Pavers	1	8.00	125	0.42
40th Street Extension	Paving Equipment	1	8.00	130	0.36
40th Street Extension	Rollers	1	8.00	80	0.38
Utilities/Trenching	Dumpers/Tenders	2	8.00	16	0.38
Utilities/Trenching	Excavators	2	8.00	162	0.38
Utilities/Trenching	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Utilities/Trenching	Trenchers	1	8.00	80	0.50
Paving Onsite	Dumpers/Tenders	8	8.00	16	0.38
Paving Onsite	Pavers	2	8.00	125	0.42
Paving Onsite	Paving Equipment	2	8.00	130	0.36
Paving Onsite	Rollers	2	8.00	80	0.38
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	9	5.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	15	28.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
40th Street Extension	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Utilities/Trenching	6	15.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving Onsite	14	27.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	139.00	54.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	28.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Oxidation Catalyst for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.1268	0.0000	19.1268	10.0452	0.0000	10.0452			0.0000			0.0000
Off-Road	6.7234	77.2985	48.7585	0.0546		3.8983	3.8983		3.5864	3.5864		5,790.2457	5,790.2457	1.7111		5,826.1784
Total	6.7234	77.2985	48.7585	0.0546	19.1268	3.8983	23.0250	10.0452	3.5864	13.6316		5,790.2457	5,790.2457	1.7111		5,826.1784

3.2 Site Preparation - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0902	0.2570	0.4704	4.8000e-004	0.0133	4.8500e-003	0.0181	3.7800e-003	4.4500e-003	8.2300e-003		48.3838	48.3838	4.9000e-004			48.3940
Worker	0.1104	0.0340	0.3206	4.6000e-004	0.0411	3.5000e-004	0.0414	0.0109	3.2000e-004	0.0112		40.8202	40.8202	2.6400e-003			40.8757
Total	0.2006	0.2910	0.7910	9.4000e-004	0.0543	5.2000e-003	0.0595	0.0147	4.7700e-003	0.0194		89.2041	89.2041	3.1300e-003			89.2697

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					8.6070	0.0000	8.6070	4.5203	0.0000	4.5203			0.0000				0.0000
Off-Road	6.7234	72.3454	48.7585	0.0546		3.8983	3.8983		3.5864	3.5864	0.0000	5,790.2457	5,790.2457	1.7111			5,826.1784
Total	6.7234	72.3454	48.7585	0.0546	8.6070	3.8983	12.5053	4.5203	3.5864	8.1067	0.0000	5,790.2457	5,790.2457	1.7111			5,826.1784

3.2 Site Preparation - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0902	0.2570	0.4704	4.8000e-004	0.0124	4.8500e-003	0.0172	3.5700e-003	4.4500e-003	8.0200e-003		48.3838	48.3838	4.9000e-004		48.3940
Worker	0.1104	0.0340	0.3206	4.6000e-004	0.0379	3.5000e-004	0.0382	0.0101	3.2000e-004	0.0104		40.8202	40.8202	2.6400e-003		40.8757
Total	0.2006	0.2910	0.7910	9.4000e-004	0.0503	5.2000e-003	0.0555	0.0137	4.7700e-003	0.0185		89.2041	89.2041	3.1300e-003		89.2697

3.3 Grading - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5902	0.0000	6.5902	3.3716	0.0000	3.3716			0.0000			0.0000
Off-Road	12.2696	147.2527	86.3326	0.1127		6.9709	6.9709		6.4132	6.4132		11,955.7450	11,955.7450	3.5331		12,029.9391
Total	12.2696	147.2527	86.3326	0.1127	6.5902	6.9709	13.5611	3.3716	6.4132	9.7848		11,955.7450	11,955.7450	3.5331		12,029.9391

3.3 Grading - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0902	0.2570	0.4704	4.8000e-004	0.0133	4.8500e-003	0.0181	3.7800e-003	4.4500e-003	8.2300e-003		48.3838	48.3838	4.9000e-004			48.3940
Worker	0.6183	0.1902	1.7952	2.5900e-003	0.2300	1.9700e-003	0.2320	0.0610	1.7900e-003	0.0628		228.5934	228.5934	0.0148			228.9039
Total	0.7085	0.4472	2.2656	3.0700e-003	0.2433	6.8200e-003	0.2501	0.0648	6.2400e-003	0.0710		276.9772	276.9772	0.0153			277.2979

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					2.9656	0.0000	2.9656	1.5172	0.0000	1.5172			0.0000				0.0000
Off-Road	12.2696	122.0580	86.3326	0.1127		6.9709	6.9709		6.4132	6.4132	0.0000	11,955.7450	11,955.7450	3.5331			12,029.9391
Total	12.2696	122.0580	86.3326	0.1127	2.9656	6.9709	9.9365	1.5172	6.4132	7.9304	0.0000	11,955.7450	11,955.7450	3.5331			12,029.9391

3.3 Grading - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0902	0.2570	0.4704	4.8000e-004	0.0124	4.8500e-003	0.0172	3.5700e-003	4.4500e-003	8.0200e-003		48.3838	48.3838	4.9000e-004			48.3940
Worker	0.6183	0.1902	1.7952	2.5900e-003	0.2120	1.9700e-003	0.2140	0.0566	1.7900e-003	0.0584		228.5934	228.5934	0.0148			228.9039
Total	0.7085	0.4472	2.2656	3.0700e-003	0.2244	6.8200e-003	0.2312	0.0602	6.2400e-003	0.0664		276.9772	276.9772	0.0153			277.2979

3.4 40th Street Extension - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.4829	14.9443	8.4965	0.0141		0.8119	0.8119		0.7538	0.7538		1,425.5070	1,425.5070	0.3762			1,433.4081
Paving	0.0837					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.5665	14.9443	8.4965	0.0141		0.8119	0.8119		0.7538	0.7538		1,425.5070	1,425.5070	0.3762			1,433.4081

3.4 40th Street Extension - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3975	0.1223	1.1541	1.6600e-003	0.1479	1.2700e-003	0.1491	0.0392	1.1500e-003	0.0404		146.9529	146.9529	9.5100e-003		147.1525
Total	0.3975	0.1223	1.1541	1.6600e-003	0.1479	1.2700e-003	0.1491	0.0392	1.1500e-003	0.0404		146.9529	146.9529	9.5100e-003		147.1525

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4829	11.9554	8.4965	0.0141		0.8119	0.8119		0.7538	0.7538	0.0000	1,425.5070	1,425.5070	0.3762		1,433.4081
Paving	0.0837					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.5665	11.9554	8.4965	0.0141		0.8119	0.8119		0.7538	0.7538	0.0000	1,425.5070	1,425.5070	0.3762		1,433.4081

3.4 40th Street Extension - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.3975	0.1223	1.1541	1.6600e-003	0.1363	1.2700e-003	0.1376	0.0364	1.1500e-003	0.0375		146.9529	146.9529	9.5100e-003			147.1525
Total	0.3975	0.1223	1.1541	1.6600e-003	0.1363	1.2700e-003	0.1376	0.0364	1.1500e-003	0.0375		146.9529	146.9529	9.5100e-003			147.1525

3.5 Utilities/Trenching - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.8517	18.8043	11.9946	0.0179		1.1452	1.1452		1.0570	1.0570		1,860.0139	1,860.0139	0.5272			1,871.0840
Total	1.8517	18.8043	11.9946	0.0179		1.1452	1.1452		1.0570	1.0570		1,860.0139	1,860.0139	0.5272			1,871.0840

3.5 Utilities/Trenching - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0902	0.2570	0.4704	4.8000e-004	0.0133	4.8500e-003	0.0181	3.7800e-003	4.4500e-003	8.2300e-003		48.3838	48.3838	4.9000e-004			48.3940
Worker	0.3312	0.1019	0.9617	1.3900e-003	0.1232	1.0600e-003	0.1243	0.0327	9.6000e-004	0.0336		122.4607	122.4607	7.9200e-003			122.6271
Total	0.4214	0.3589	1.4321	1.8700e-003	0.1365	5.9100e-003	0.1424	0.0365	5.4100e-003	0.0419		170.8446	170.8446	8.4100e-003			171.0211

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.8517	15.3826	11.9946	0.0179		1.1452	1.1452		1.0570	1.0570	0.0000	1,860.0139	1,860.0139	0.5272			1,871.0840
Total	1.8517	15.3826	11.9946	0.0179		1.1452	1.1452		1.0570	1.0570	0.0000	1,860.0139	1,860.0139	0.5272			1,871.0840

3.5 Utilities/Trenching - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0902	0.2570	0.4704	4.8000e-004	0.0124	4.8500e-003	0.0172	3.5700e-003	4.4500e-003	8.0200e-003		48.3838	48.3838	4.9000e-004			48.3940
Worker	0.3312	0.1019	0.9617	1.3900e-003	0.1136	1.0600e-003	0.1146	0.0303	9.6000e-004	0.0313		122.4607	122.4607	7.9200e-003			122.6271
Total	0.4214	0.3589	1.4321	1.8700e-003	0.1260	5.9100e-003	0.1319	0.0339	5.4100e-003	0.0393		170.8446	170.8446	8.4100e-003			171.0211

3.6 Paving Onsite - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.9657	29.8886	16.9929	0.0283		1.6239	1.6239		1.5077	1.5077		2,851.0140	2,851.0140	0.7525			2,866.8162
Paving	0.2120					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	3.1778	29.8886	16.9929	0.0283		1.6239	1.6239		1.5077	1.5077		2,851.0140	2,851.0140	0.7525			2,866.8162

3.6 Paving Onsite - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.5962	0.1834	1.7311	2.5000e-003	0.2218	1.9000e-003	0.2237	0.0588	1.7300e-003	0.0606		220.4293	220.4293	0.0143			220.7288
Total	0.5962	0.1834	1.7311	2.5000e-003	0.2218	1.9000e-003	0.2237	0.0588	1.7300e-003	0.0606		220.4293	220.4293	0.0143			220.7288

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.9657	23.9109	16.9929	0.0283		1.6239	1.6239		1.5077	1.5077	0.0000	2,851.0140	2,851.0140	0.7525			2,866.8162
Paving	0.2120					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	3.1778	23.9109	16.9929	0.0283		1.6239	1.6239		1.5077	1.5077	0.0000	2,851.0140	2,851.0140	0.7525			2,866.8162

3.6 Paving Onsite - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.5962	0.1834	1.7311	2.5000e-003	0.2045	1.9000e-003	0.2064	0.0546	1.7300e-003	0.0563		220.4293	220.4293	0.0143			220.7288
Total	0.5962	0.1834	1.7311	2.5000e-003	0.2045	1.9000e-003	0.2064	0.0546	1.7300e-003	0.0563		220.4293	220.4293	0.0143			220.7288

3.7 Building Construction - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	3.8680	31.2537	18.9298	0.0268		2.2280	2.2280		2.0973	2.0973		2,709.1969	2,709.1969	0.6889			2,723.6630
Total	3.8680	31.2537	18.9298	0.0268		2.2280	2.2280		2.0973	2.0973		2,709.1969	2,709.1969	0.6889			2,723.6630

3.7 Building Construction - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	2.4351	6.9398	12.7001	0.0129	0.3581	0.1309	0.4890	0.1021	0.1202	0.2223		1,306.3633	1,306.3633	0.0131			1,306.6391
Worker	3.0693	0.9443	8.9121	0.0129	1.1419	9.8000e-003	1.1517	0.3029	8.8900e-003	0.3118		1,134.8028	1,134.8028	0.0734			1,136.3443
Total	5.5043	7.8841	21.6121	0.0257	1.5000	0.1407	1.6406	0.4050	0.1291	0.5341		2,441.1661	2,441.1661	0.0865			2,442.9834

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	3.8680	26.1899	18.9298	0.0268		2.2280	2.2280		2.0973	2.0973	0.0000	2,709.1969	2,709.1969	0.6889			2,723.6630
Total	3.8680	26.1899	18.9298	0.0268		2.2280	2.2280		2.0973	2.0973	0.0000	2,709.1969	2,709.1969	0.6889			2,723.6630

3.7 Building Construction - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	2.4351	6.9398	12.7001	0.0129	0.3347	0.1309	0.4655	0.0964	0.1202	0.2165		1,306.363 3	1,306.363 3	0.0131			1,306.639 1
Worker	3.0693	0.9443	8.9121	0.0129	1.0525	9.8000e-003	1.0623	0.2810	8.8900e-003	0.2898		1,134.802 8	1,134.802 8	0.0734			1,136.344 3
Total	5.5043	7.8841	21.6121	0.0257	1.3872	0.1407	1.5279	0.3773	0.1291	0.5064		2,441.166 1	2,441.166 1	0.0865			2,442.983 4

3.7 Building Construction - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.577 1	2,689.577 1	0.6748			2,703.748 3
Total	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.577 1	2,689.577 1	0.6748			2,703.748 3

3.7 Building Construction - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	2.0383	5.9405	11.5999	0.0128	0.3581	0.0995	0.4576	0.1021	0.0913	0.1935		1,288.8838	1,288.8838	0.0114			1,289.1226
Worker	2.7779	0.8308	7.7885	0.0128	1.1419	9.0300e-003	1.1509	0.3029	8.2300e-003	0.3111		1,094.3344	1,094.3344	0.0658			1,095.7169
Total	4.8162	6.7713	19.3884	0.0257	1.5000	0.1085	1.6085	0.4050	0.0996	0.5046		2,383.2182	2,383.2182	0.0772			2,384.8395

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	3.6591	25.1772	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904	0.0000	2,689.5771	2,689.5771	0.6748			2,703.7483
Total	3.6591	25.1772	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904	0.0000	2,689.5771	2,689.5771	0.6748			2,703.7483

3.7 Building Construction - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	2.0383	5.9405	11.5999	0.0128	0.3347	0.0995	0.4341	0.0964	0.0913	0.1877		1,288.8838	1,288.8838	0.0114			1,289.1226
Worker	2.7779	0.8308	7.7885	0.0128	1.0525	9.0300e-003	1.0616	0.2810	8.2300e-003	0.2892		1,094.3344	1,094.3344	0.0658			1,095.7169
Total	4.8162	6.7713	19.3884	0.0257	1.3872	0.1085	1.4957	0.3773	0.0996	0.4769		2,383.2182	2,383.2182	0.0772			2,384.8395

3.8 Architectural Coating - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	19.7039					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Off-Road	0.4462	2.7773	1.9216	2.9700e-003		0.2452	0.2452		0.2452	0.2452		281.4481	281.4481	0.0401			282.2905
Total	20.1501	2.7773	1.9216	2.9700e-003		0.2452	0.2452		0.2452	0.2452		281.4481	281.4481	0.0401			282.2905

3.8 Architectural Coating - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.6183	0.1902	1.7952	2.5900e-003	0.2300	1.9700e-003	0.2320	0.0610	1.7900e-003	0.0628		228.5934	228.5934	0.0148			228.9039
Total	0.6183	0.1902	1.7952	2.5900e-003	0.2300	1.9700e-003	0.2320	0.0610	1.7900e-003	0.0628		228.5934	228.5934	0.0148			228.9039

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	19.7039					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.4462	2.2219	1.9216	2.9700e-003		0.2452	0.2452		0.2452	0.2452	0.0000	281.4481	281.4481	0.0401			282.2905
Total	20.1501	2.2219	1.9216	2.9700e-003		0.2452	0.2452		0.2452	0.2452	0.0000	281.4481	281.4481	0.0401			282.2905

3.8 Architectural Coating - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.6183	0.1902	1.7952	2.5900e-003	0.2120	1.9700e-003	0.2140	0.0566	1.7900e-003	0.0584		228.5934	228.5934	0.0148			228.9039
Total	0.6183	0.1902	1.7952	2.5900e-003	0.2120	1.9700e-003	0.2140	0.0566	1.7900e-003	0.0584		228.5934	228.5934	0.0148			228.9039

3.8 Architectural Coating - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	19.7039					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.4066	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209		281.4481	281.4481	0.0367			282.2177
Total	20.1105	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209		281.4481	281.4481	0.0367			282.2177

3.8 Architectural Coating - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.5596	0.1674	1.5689	2.5900e-003	0.2300	1.8200e-003	0.2318	0.0610	1.6600e-003	0.0627		220.4415	220.4415	0.0133			220.7200
Total	0.5596	0.1674	1.5689	2.5900e-003	0.2300	1.8200e-003	0.2318	0.0610	1.6600e-003	0.0627		220.4415	220.4415	0.0133			220.7200

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	19.7039					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.4066	2.0563	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209	0.0000	281.4481	281.4481	0.0367			282.2177
Total	20.1105	2.0563	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209	0.0000	281.4481	281.4481	0.0367			282.2177

3.8 Architectural Coating - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5596	0.1674	1.5689	2.5900e-003	0.2120	1.8200e-003	0.2138	0.0566	1.6600e-003	0.0583		220.4415	220.4415	0.0133		220.7200
Total	0.5596	0.1674	1.5689	2.5900e-003	0.2120	1.8200e-003	0.2138	0.0566	1.6600e-003	0.0583		220.4415	220.4415	0.0133		220.7200

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					
Mitigated	12.4892	11.9627	47.8674	0.0775	5.3197	0.1507	5.4704	1.4228	0.1384	1.5613		6,833.1465	6,833.1465	0.2898		6,839.2314
Unmitigated	12.4892	11.9627	47.8674	0.0775	5.3197	0.1507	5.4704	1.4228	0.1384	1.5613		6,833.1465	6,833.1465	0.2898		6,839.2314

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Heavy Industry	856.80	267.75	267.75	2,010,083	2,010,083
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	856.80	267.75	267.75	2,010,083	2,010,083

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Heavy Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.462992	0.061838	0.181170	0.154683	0.057449	0.007359	0.019227	0.041233	0.001831	0.001687	0.006984	0.000699	0.002847

5.0 Energy Detail

5.1 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1953	1.7754	1.4914	0.0107		0.1349	0.1349		0.1349	0.1349		2,130.4932	2,130.4932	0.0408	0.0391	2,143.4590
NaturalGas Unmitigated	0.1953	1.7754	1.4914	0.0107		0.1349	0.1349		0.1349	0.1349		2,130.4932	2,130.4932	0.0408	0.0391	2,143.4590

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other 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
Parking Lot	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
General Heavy Industry	18109.2	0.1953	1.7754	1.4914	0.0107		0.1349	0.1349		0.1349	0.1349		2,130.4932	2,130.4932	0.0408	0.0391	2,143.4590
Total		0.1953	1.7754	1.4914	0.0107		0.1349	0.1349		0.1349	0.1349		2,130.4932	2,130.4932	0.0408	0.0391	2,143.4590

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Heavy Industry	18.1092	0.1953	1.7754	1.4914	0.0107		0.1349	0.1349		0.1349	0.1349		2,130.4932	2,130.4932	0.0408	0.0391	2,143.4590	
Other 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		0.1953	1.7754	1.4914	0.0107		0.1349	0.1349		0.1349	0.1349		2,130.4932	2,130.4932	0.0408	0.0391	2,143.4590	

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					
Mitigated	8.5210	5.0000e-004	0.0526	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1100	0.1100	3.1000e-004		0.1165
Unmitigated	8.5210	5.0000e-004	0.0526	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1100	0.1100	3.1000e-004		0.1165

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.4090					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.1069					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.1300e-003	5.0000e-004	0.0526	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1100	0.1100	3.1000e-004		0.1165
Total	8.5210	5.0000e-004	0.0526	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1100	0.1100	3.1000e-004		0.1165

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.4090					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.1069					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.1300e-003	5.0000e-004	0.0526	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1100	0.1100	3.1000e-004		0.1165
Total	8.5210	5.0000e-004	0.0526	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1100	0.1100	3.1000e-004		0.1165

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 Vegetation

McKinley Site Alt 2
Sacramento Valley Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Heavy Industry	178.50	1000sqft	4.10	178,500.00	0
Other Asphalt Surfaces	40.00	1000sqft	0.92	40,000.00	0
Parking Lot	284.00	Space	2.56	113,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	65
Climate Zone	6			Operational Year	2016
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - applicant data

Off-road Equipment - assumed same as proposed project

Off-road Equipment - CalEEMod defaults

Off-road Equipment - CalEEMod defaults

Off-road Equipment - same as proposed project plus excavator to reflect need for material movement to facilitate construction of RR track ramps

Off-road Equipment - assumed same as proposed project

Off-road Equipment - assumed same as proposed project

Off-road Equipment - assumed same as proposed project

Trips and VMT - assumed same as proposed project other than building construction and coatings

Grading - acres disturbed reflects site size

Vehicle Trips - per traffic data

Consumer Products - calculated offmodel to avoid applying emission factor to paved areas

Construction Off-road Equipment Mitigation - dust mitigation per SMAQMD CEQA Handbook

Mobile Land Use Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	14.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
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tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstructionPhase	NumDays	20.00	261.00
tblConstructionPhase	NumDays	230.00	261.00
tblConstructionPhase	NumDays	20.00	56.00
tblConstructionPhase	NumDays	20.00	109.00
tblConstructionPhase	NumDays	20.00	43.00
tblConstructionPhase	PhaseEndDate	11/29/2016	11/30/2015

tblConstructionPhase	PhaseEndDate	12/31/2014	11/28/2014
tblConstructionPhase	PhaseEndDate	1/28/2015	9/30/2014
tblConstructionPhase	PhaseStartDate	12/1/2015	12/1/2014
tblConstructionPhase	PhaseStartDate	11/29/2014	12/1/2014
tblConstructionPhase	PhaseStartDate	8/1/2014	7/1/2014
tblConstructionPhase	PhaseStartDate	11/29/2014	8/1/2014
tblGrading	AcresOfGrading	308.00	30.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblProjectCharacteristics	OperationalYear	2014	2016
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	23.00	5.00
tblTripsAndVMT	WorkerTripNumber	38.00	28.00
tblTripsAndVMT	WorkerTripNumber	35.00	27.00
tblVehicleTrips	WD_TR	1.50	4.80

2.0 Emissions Summary

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.5546	5.0000e-005	4.7400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.9800e-003	8.9800e-003	3.0000e-005	0.0000	9.5100e-003
Energy	0.0356	0.3240	0.2722	1.9400e-003		0.0246	0.0246		0.0246	0.0246	0.0000	1,170.9827	1,170.9827	0.0470	0.0148	1,176.5517
Mobile	1.6146	1.6671	6.3115	0.0116	0.7484	0.0219	0.7704	0.2008	0.0202	0.2210	0.0000	923.9853	923.9853	0.0384	0.0000	924.7912
Waste						0.0000	0.0000		0.0000	0.0000	44.9300	0.0000	44.9300	2.6553	0.0000	100.6911
Water						0.0000	0.0000		0.0000	0.0000	13.0956	59.8058	72.9015	1.3480	0.0324	111.2431
Total	3.2049	1.9911	6.5884	0.0135	0.7484	0.0466	0.7950	0.2008	0.0448	0.2456	58.0257	2,154.7827	2,212.8084	4.0886	0.0472	2,313.2865

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.5546	5.0000e-005	4.7400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.9800e-003	8.9800e-003	3.0000e-005	0.0000	9.5100e-003
Energy	0.0356	0.3240	0.2722	1.9400e-003		0.0246	0.0246		0.0246	0.0246	0.0000	1,170.9827	1,170.9827	0.0470	0.0148	1,176.5517
Mobile	1.6146	1.6671	6.3115	0.0116	0.7484	0.0219	0.7704	0.2008	0.0202	0.2210	0.0000	923.9853	923.9853	0.0384	0.0000	924.7912
Waste						0.0000	0.0000		0.0000	0.0000	44.9300	0.0000	44.9300	2.6553	0.0000	100.6911
Water						0.0000	0.0000		0.0000	0.0000	13.0956	59.8058	72.9015	1.3477	0.0323	111.2222
Total	3.2049	1.9911	6.5884	0.0135	0.7484	0.0466	0.7950	0.2008	0.0448	0.2456	58.0257	2,154.7827	2,212.8084	4.0884	0.0471	2,313.2656

	ROG	NOx	CO	SO2	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	0.01	0.11	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	Site Preparation	Site Preparation	5/1/2014	5/14/2014	5	10	
2	Grading	Grading	5/15/2014	7/31/2014	5	56	
3	40th Street Extension	Paving	7/1/2014	11/28/2014	5	109	
4	Utilities/Trenching	Trenching	8/1/2014	9/30/2014	5	43	
5	Paving Onsite	Paving	10/1/2014	11/28/2014	5	43	
6	Building Construction	Building Construction	12/1/2014	11/30/2015	5	261	
7	Architectural Coating	Architectural Coating	12/1/2014	11/30/2015	5	261	

Acres of Grading (Site Preparation Phase): 10

Acres of Grading (Grading Phase): 30

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 332,862; Non-Residential Outdoor: 110,954 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Crawler Tractors	2	8.00	208	0.43
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Crawler Tractors	2	8.00	208	0.43
Grading	Excavators	1	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rollers	3	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Scrapers	4	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37

40th Street Extension	Dumpers/Tenders	4	8.00	16	0.38
40th Street Extension	Pavers	1	8.00	125	0.42
40th Street Extension	Paving Equipment	1	8.00	130	0.36
40th Street Extension	Rollers	1	8.00	80	0.38
Utilities/Trenching	Dumpers/Tenders	2	8.00	16	0.38
Utilities/Trenching	Excavators	2	8.00	162	0.38
Utilities/Trenching	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Utilities/Trenching	Trenchers	1	8.00	80	0.50
Paving Onsite	Dumpers/Tenders	8	8.00	16	0.38
Paving Onsite	Pavers	2	8.00	125	0.42
Paving Onsite	Paving Equipment	2	8.00	130	0.36
Paving Onsite	Rollers	2	8.00	80	0.38
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	9	5.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	15	28.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
40th Street Extension	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Utilities/Trenching	6	15.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving Onsite	14	27.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	139.00	54.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	28.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Oxidation Catalyst for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0956	0.0000	0.0956	0.0502	0.0000	0.0502	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0336	0.3865	0.2438	2.7000e-004		0.0195	0.0195		0.0179	0.0179	0.0000	26.2641	26.2641	7.7600e-003	0.0000	26.4271
Total	0.0336	0.3865	0.2438	2.7000e-004	0.0956	0.0195	0.1151	0.0502	0.0179	0.0682	0.0000	26.2641	26.2641	7.7600e-003	0.0000	26.4271

3.2 Site Preparation - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-004	1.2600e-003	1.9200e-003	0.0000	6.0000e-005	2.0000e-005	9.0000e-005	2.0000e-005	2.0000e-005	4.0000e-005	0.0000	0.2204	0.2204	0.0000	0.0000	0.2205
Worker	4.8000e-004	1.5000e-004	1.5300e-003	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1906	0.1906	1.0000e-005	0.0000	0.1908
Total	8.8000e-004	1.4100e-003	3.4500e-003	0.0000	2.6000e-004	2.0000e-005	2.9000e-004	7.0000e-005	2.0000e-005	9.0000e-005	0.0000	0.4110	0.4110	1.0000e-005	0.0000	0.4113

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0430	0.0000	0.0430	0.0226	0.0000	0.0226	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0336	0.3617	0.2438	2.7000e-004		0.0195	0.0195		0.0179	0.0179	0.0000	26.2641	26.2641	7.7600e-003	0.0000	26.4271
Total	0.0336	0.3617	0.2438	2.7000e-004	0.0430	0.0195	0.0625	0.0226	0.0179	0.0405	0.0000	26.2641	26.2641	7.7600e-003	0.0000	26.4271

3.2 Site Preparation - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-004	1.2600e-003	1.9200e-003	0.0000	6.0000e-005	2.0000e-005	8.0000e-005	2.0000e-005	2.0000e-005	4.0000e-005	0.0000	0.2204	0.2204	0.0000	0.0000	0.2205
Worker	4.8000e-004	1.5000e-004	1.5300e-003	0.0000	1.8000e-004	0.0000	1.8000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1906	0.1906	1.0000e-005	0.0000	0.1908
Total	8.8000e-004	1.4100e-003	3.4500e-003	0.0000	2.4000e-004	2.0000e-005	2.6000e-004	7.0000e-005	2.0000e-005	9.0000e-005	0.0000	0.4110	0.4110	1.0000e-005	0.0000	0.4113

3.3 Grading - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1845	0.0000	0.1845	0.0944	0.0000	0.0944	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3436	4.1231	2.4173	3.1500e-003		0.1952	0.1952		0.1796	0.1796	0.0000	303.6899	303.6899	0.0897	0.0000	305.5746
Total	0.3436	4.1231	2.4173	3.1500e-003	0.1845	0.1952	0.3797	0.0944	0.1796	0.2740	0.0000	303.6899	303.6899	0.0897	0.0000	305.5746

3.3 Grading - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2300e-003	7.0700e-003	0.0108	1.0000e-005	3.6000e-004	1.3000e-004	4.9000e-004	1.0000e-004	1.2000e-004	2.3000e-004	0.0000	1.2344	1.2344	1.0000e-005	0.0000	1.2347
Worker	0.0150	4.7600e-003	0.0480	7.0000e-005	6.1900e-003	6.0000e-005	6.2500e-003	1.6500e-003	5.0000e-005	1.7000e-003	0.0000	5.9769	5.9769	3.8000e-004	0.0000	5.9848
Total	0.0172	0.0118	0.0588	8.0000e-005	6.5500e-003	1.9000e-004	6.7400e-003	1.7500e-003	1.7000e-004	1.9300e-003	0.0000	7.2114	7.2114	3.9000e-004	0.0000	7.2195

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0830	0.0000	0.0830	0.0425	0.0000	0.0425	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3436	3.4176	2.4173	3.1500e-003		0.1952	0.1952		0.1796	0.1796	0.0000	303.6896	303.6896	0.0897	0.0000	305.5742
Total	0.3436	3.4176	2.4173	3.1500e-003	0.0830	0.1952	0.2782	0.0425	0.1796	0.2221	0.0000	303.6896	303.6896	0.0897	0.0000	305.5742

3.3 Grading - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2300e-003	7.0700e-003	0.0108	1.0000e-005	3.4000e-004	1.3000e-004	4.7000e-004	1.0000e-004	1.2000e-004	2.2000e-004	0.0000	1.2344	1.2344	1.0000e-005	0.0000	1.2347
Worker	0.0150	4.7600e-003	0.0480	7.0000e-005	5.7100e-003	6.0000e-005	5.7700e-003	1.5300e-003	5.0000e-005	1.5800e-003	0.0000	5.9769	5.9769	3.8000e-004	0.0000	5.9848
Total	0.0172	0.0118	0.0588	8.0000e-005	6.0500e-003	1.9000e-004	6.2400e-003	1.6300e-003	1.7000e-004	1.8000e-003	0.0000	7.2114	7.2114	3.9000e-004	0.0000	7.2195

3.4 40th Street Extension - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0808	0.8145	0.4631	7.7000e-004		0.0443	0.0443		0.0411	0.0411	0.0000	70.4793	70.4793	0.0186	0.0000	70.8699
Paving	4.5600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0854	0.8145	0.4631	7.7000e-004		0.0443	0.0443		0.0411	0.0411	0.0000	70.4793	70.4793	0.0186	0.0000	70.8699

3.4 40th Street Extension - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0188	5.9600e-003	0.0601	9.0000e-005	7.7500e-003	7.0000e-005	7.8200e-003	2.0600e-003	6.0000e-005	2.1200e-003	0.0000	7.4788	7.4788	4.7000e-004	0.0000	7.4887
Total	0.0188	5.9600e-003	0.0601	9.0000e-005	7.7500e-003	7.0000e-005	7.8200e-003	2.0600e-003	6.0000e-005	2.1200e-003	0.0000	7.4788	7.4788	4.7000e-004	0.0000	7.4887

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0808	0.6516	0.4631	7.7000e-004		0.0443	0.0443		0.0411	0.0411	0.0000	70.4792	70.4792	0.0186	0.0000	70.8699
Paving	4.5600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0854	0.6516	0.4631	7.7000e-004		0.0443	0.0443		0.0411	0.0411	0.0000	70.4792	70.4792	0.0186	0.0000	70.8699

3.4 40th Street Extension - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0188	5.9600e-003	0.0601	9.0000e-005	7.1400e-003	7.0000e-005	7.2100e-003	1.9100e-003	6.0000e-005	1.9800e-003	0.0000	7.4788	7.4788	4.7000e-004	0.0000	7.4887
Total	0.0188	5.9600e-003	0.0601	9.0000e-005	7.1400e-003	7.0000e-005	7.2100e-003	1.9100e-003	6.0000e-005	1.9800e-003	0.0000	7.4788	7.4788	4.7000e-004	0.0000	7.4887

3.5 Utilities/Trenching - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0398	0.4043	0.2579	3.8000e-004		0.0246	0.0246		0.0227	0.0227	0.0000	36.2786	36.2786	0.0103	0.0000	36.4945
Total	0.0398	0.4043	0.2579	3.8000e-004		0.0246	0.0246		0.0227	0.0227	0.0000	36.2786	36.2786	0.0103	0.0000	36.4945

3.5 Utilities/Trenching - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7100e-003	5.4300e-003	8.2700e-003	1.0000e-005	2.8000e-004	1.0000e-004	3.8000e-004	8.0000e-005	9.0000e-005	1.7000e-004	0.0000	0.9479	0.9479	1.0000e-005	0.0000	0.9481	
Worker	6.1700e-003	1.9600e-003	0.0198	3.0000e-005	2.5500e-003	2.0000e-005	2.5700e-003	6.8000e-004	2.0000e-005	7.0000e-004	0.0000	2.4586	2.4586	1.5000e-004	0.0000	2.4619	
Total	7.8800e-003	7.3900e-003	0.0280	4.0000e-005	2.8300e-003	1.2000e-004	2.9500e-003	7.6000e-004	1.1000e-004	8.7000e-004	0.0000	3.4065	3.4065	1.6000e-004	0.0000	3.4099	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0398	0.3307	0.2579	3.8000e-004		0.0246	0.0246		0.0227	0.0227	0.0000	36.2785	36.2785	0.0103	0.0000	36.4945
Total	0.0398	0.3307	0.2579	3.8000e-004		0.0246	0.0246		0.0227	0.0227	0.0000	36.2785	36.2785	0.0103	0.0000	36.4945

3.5 Utilities/Trenching - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7100e-003	5.4300e-003	8.2700e-003	1.0000e-005	2.6000e-004	1.0000e-004	3.6000e-004	7.0000e-005	9.0000e-005	1.7000e-004	0.0000	0.9479	0.9479	1.0000e-005	0.0000	0.9481
Worker	6.1700e-003	1.9600e-003	0.0198	3.0000e-005	2.3500e-003	2.0000e-005	2.3700e-003	6.3000e-004	2.0000e-005	6.5000e-004	0.0000	2.4586	2.4586	1.5000e-004	0.0000	2.4619
Total	7.8800e-003	7.3900e-003	0.0280	4.0000e-005	2.6100e-003	1.2000e-004	2.7300e-003	7.0000e-004	1.1000e-004	8.2000e-004	0.0000	3.4065	3.4065	1.6000e-004	0.0000	3.4099

3.6 Paving Onsite - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0638	0.6426	0.3654	6.1000e-004		0.0349	0.0349		0.0324	0.0324	0.0000	55.6075	55.6075	0.0147	0.0000	55.9157
Paving	4.5600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0683	0.6426	0.3654	6.1000e-004		0.0349	0.0349		0.0324	0.0324	0.0000	55.6075	55.6075	0.0147	0.0000	55.9157

3.6 Paving Onsite - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0111	3.5300e-003	0.0356	6.0000e-005	4.5800e-003	4.0000e-005	4.6300e-003	1.2200e-003	4.0000e-005	1.2600e-003	0.0000	4.4255	4.4255	2.8000e-004	0.0000	4.4314	
Total	0.0111	3.5300e-003	0.0356	6.0000e-005	4.5800e-003	4.0000e-005	4.6300e-003	1.2200e-003	4.0000e-005	1.2600e-003	0.0000	4.4255	4.4255	2.8000e-004	0.0000	4.4314	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0638	0.5141	0.3654	6.1000e-004		0.0349	0.0349		0.0324	0.0324	0.0000	55.6075	55.6075	0.0147	0.0000	55.9157
Paving	4.5600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0683	0.5141	0.3654	6.1000e-004		0.0349	0.0349		0.0324	0.0324	0.0000	55.6075	55.6075	0.0147	0.0000	55.9157

3.6 Paving Onsite - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0111	3.5300e-003	0.0356	6.0000e-005	4.2300e-003	4.0000e-005	4.2700e-003	1.1300e-003	4.0000e-005	1.1700e-003	0.0000	4.4255	4.4255	2.8000e-004	0.0000	4.4314
Total	0.0111	3.5300e-003	0.0356	6.0000e-005	4.2300e-003	4.0000e-005	4.2700e-003	1.1300e-003	4.0000e-005	1.1700e-003	0.0000	4.4255	4.4255	2.8000e-004	0.0000	4.4314

3.7 Building Construction - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0445	0.3594	0.2177	3.1000e-004		0.0256	0.0256		0.0241	0.0241	0.0000	28.2640	28.2640	7.1900e-003	0.0000	28.4150
Total	0.0445	0.3594	0.2177	3.1000e-004		0.0256	0.0256		0.0241	0.0241	0.0000	28.2640	28.2640	7.1900e-003	0.0000	28.4150

3.7 Building Construction - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0247	0.0785	0.1195	1.5000e-004	3.9800e-003	1.4900e-003	5.4800e-003	1.1400e-003	1.3700e-003	2.5100e-003	0.0000	13.6889	13.6889	1.4000e-004	0.0000	13.6917
Worker	0.0306	9.7100e-003	0.0979	1.5000e-004	0.0126	1.1000e-004	0.0127	3.3600e-003	1.0000e-004	3.4600e-003	0.0000	12.1864	12.1864	7.7000e-004	0.0000	12.2025
Total	0.0553	0.0882	0.2174	3.0000e-004	0.0166	1.6000e-003	0.0182	4.5000e-003	1.4700e-003	5.9700e-003	0.0000	25.8753	25.8753	9.1000e-004	0.0000	25.8942

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0445	0.3012	0.2177	3.1000e-004		0.0256	0.0256		0.0241	0.0241	0.0000	28.2640	28.2640	7.1900e-003	0.0000	28.4149
Total	0.0445	0.3012	0.2177	3.1000e-004		0.0256	0.0256		0.0241	0.0241	0.0000	28.2640	28.2640	7.1900e-003	0.0000	28.4149

3.7 Building Construction - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0247	0.0785	0.1195	1.5000e-004	3.7300e-003	1.4900e-003	5.2200e-003	1.0800e-003	1.3700e-003	2.4500e-003	0.0000	13.6889	13.6889	1.4000e-004	0.0000	13.6917
Worker	0.0306	9.7100e-003	0.0979	1.5000e-004	0.0116	1.1000e-004	0.0118	3.1200e-003	1.0000e-004	3.2200e-003	0.0000	12.1864	12.1864	7.7000e-004	0.0000	12.2025
Total	0.0553	0.0882	0.2174	3.0000e-004	0.0154	1.6000e-003	0.0170	4.2000e-003	1.4700e-003	5.6700e-003	0.0000	25.8753	25.8753	9.1000e-004	0.0000	25.8942

3.7 Building Construction - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.4354	3.5736	2.2306	3.1900e-003		0.2519	0.2519		0.2369	0.2369	0.0000	290.3533	290.3533	0.0729	0.0000	291.8831
Total	0.4354	3.5736	2.2306	3.1900e-003		0.2519	0.2519		0.2369	0.2369	0.0000	290.3533	290.3533	0.0729	0.0000	291.8831

3.7 Building Construction - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2142	0.6950	1.1077	1.5300e-003	0.0412	0.0117	0.0530	0.0118	0.0108	0.0226	0.0000	139.7608	139.7608	1.2100e-003	0.0000	139.7862
Worker	0.2860	0.0884	0.8887	1.5700e-003	0.1306	1.0700e-003	0.1317	0.0348	9.8000e-004	0.0357	0.0000	121.6154	121.6154	7.1100e-003	0.0000	121.7646
Total	0.5003	0.7834	1.9963	3.1000e-003	0.1719	0.0128	0.1847	0.0466	0.0118	0.0583	0.0000	261.3762	261.3762	8.3200e-003	0.0000	261.5509

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.4354	2.9961	2.2306	3.1900e-003		0.2519	0.2519		0.2369	0.2369	0.0000	290.3529	290.3529	0.0729	0.0000	291.8828
Total	0.4354	2.9961	2.2306	3.1900e-003		0.2519	0.2519		0.2369	0.2369	0.0000	290.3529	290.3529	0.0729	0.0000	291.8828

3.7 Building Construction - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2142	0.6950	1.1077	1.5300e-003	0.0386	0.0117	0.0503	0.0112	0.0108	0.0219	0.0000	139.7608	139.7608	1.2100e-003	0.0000	139.7862
Worker	0.2860	0.0884	0.8887	1.5700e-003	0.1205	1.0700e-003	0.1215	0.0323	9.8000e-004	0.0332	0.0000	121.6154	121.6154	7.1100e-003	0.0000	121.7646
Total	0.5003	0.7834	1.9963	3.1000e-003	0.1590	0.0128	0.1719	0.0434	0.0118	0.0552	0.0000	261.3762	261.3762	8.3200e-003	0.0000	261.5509

3.8 Architectural Coating - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2266					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.1300e-003	0.0319	0.0221	3.0000e-005		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003	0.0000	2.9362	2.9362	4.2000e-004	0.0000	2.9450
Total	0.2317	0.0319	0.0221	3.0000e-005		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003	0.0000	2.9362	2.9362	4.2000e-004	0.0000	2.9450

3.8 Architectural Coating - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.1600e-003	1.9600e-003	0.0197	3.0000e-005	2.5400e-003	2.0000e-005	2.5700e-003	6.8000e-004	2.0000e-005	7.0000e-004	0.0000	2.4548	2.4548	1.5000e-004	0.0000	2.4581
Total	6.1600e-003	1.9600e-003	0.0197	3.0000e-005	2.5400e-003	2.0000e-005	2.5700e-003	6.8000e-004	2.0000e-005	7.0000e-004	0.0000	2.4548	2.4548	1.5000e-004	0.0000	2.4581

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2266					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.1300e-003	0.0256	0.0221	3.0000e-005		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003	0.0000	2.9362	2.9362	4.2000e-004	0.0000	2.9450
Total	0.2317	0.0256	0.0221	3.0000e-005		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003	0.0000	2.9362	2.9362	4.2000e-004	0.0000	2.9450

3.8 Architectural Coating - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.1600e-003	1.9600e-003	0.0197	3.0000e-005	2.3500e-003	2.0000e-005	2.3700e-003	6.3000e-004	2.0000e-005	6.5000e-004	0.0000	2.4548	2.4548	1.5000e-004	0.0000	2.4581
Total	6.1600e-003	1.9600e-003	0.0197	3.0000e-005	2.3500e-003	2.0000e-005	2.3700e-003	6.3000e-004	2.0000e-005	6.5000e-004	0.0000	2.4548	2.4548	1.5000e-004	0.0000	2.4581

3.8 Architectural Coating - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.3448					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0484	0.3059	0.2263	3.5000e-004		0.0263	0.0263		0.0263	0.0263	0.0000	30.3837	30.3837	3.9600e-003	0.0000	30.4668
Total	2.3932	0.3059	0.2263	3.5000e-004		0.0263	0.0263		0.0263	0.0263	0.0000	30.3837	30.3837	3.9600e-003	0.0000	30.4668

3.8 Architectural Coating - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0576	0.0178	0.1790	3.2000e-004	0.0263	2.2000e-004	0.0265	7.0000e-003	2.0000e-004	7.2000e-003	0.0000	24.4981	24.4981	1.4300e-003	0.0000	24.5281	
Total	0.0576	0.0178	0.1790	3.2000e-004	0.0263	2.2000e-004	0.0265	7.0000e-003	2.0000e-004	7.2000e-003	0.0000	24.4981	24.4981	1.4300e-003	0.0000	24.5281	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.3448					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0484	0.2447	0.2263	3.5000e-004		0.0263	0.0263		0.0263	0.0263	0.0000	30.3837	30.3837	3.9600e-003	0.0000	30.4668
Total	2.3932	0.2447	0.2263	3.5000e-004		0.0263	0.0263		0.0263	0.0263	0.0000	30.3837	30.3837	3.9600e-003	0.0000	30.4668

3.8 Architectural Coating - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0576	0.0178	0.1790	3.2000e-004	0.0243	2.2000e-004	0.0245	6.5000e-003	2.0000e-004	6.7000e-003	0.0000	24.4981	24.4981	1.4300e-003	0.0000	24.5281
Total	0.0576	0.0178	0.1790	3.2000e-004	0.0243	2.2000e-004	0.0245	6.5000e-003	2.0000e-004	6.7000e-003	0.0000	24.4981	24.4981	1.4300e-003	0.0000	24.5281

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.6146	1.6671	6.3115	0.0116	0.7484	0.0219	0.7704	0.2008	0.0202	0.2210	0.0000	923.9853	923.9853	0.0384	0.0000	924.7912
Unmitigated	1.6146	1.6671	6.3115	0.0116	0.7484	0.0219	0.7704	0.2008	0.0202	0.2210	0.0000	923.9853	923.9853	0.0384	0.0000	924.7912

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Heavy Industry	856.80	267.75	267.75	2,010,083	2,010,083
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	856.80	267.75	267.75	2,010,083	2,010,083

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Heavy Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.462992	0.061838	0.181170	0.154683	0.057449	0.007359	0.019227	0.041233	0.001831	0.001687	0.006984	0.000699	0.002847

5.0 Energy Detail

5.1 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	818.2556	818.2556	0.0402	8.3200e-003	821.6780
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	818.2556	818.2556	0.0402	8.3200e-003	821.6780
NaturalGas Mitigated	0.0356	0.3240	0.2722	1.9400e-003		0.0246	0.0246		0.0246	0.0246	0.0000	352.7270	352.7270	6.7600e-003	6.4700e-003	354.8737
NaturalGas Unmitigated	0.0356	0.3240	0.2722	1.9400e-003		0.0246	0.0246		0.0246	0.0246	0.0000	352.7270	352.7270	6.7600e-003	6.4700e-003	354.8737

5.2 Energy by Land Use - NaturalGas
Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other 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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Heavy Industry	6.60986e+006	0.0356	0.3240	0.2722	1.9400e-003		0.0246	0.0246		0.0246	0.0246	0.0000	352.7270	352.7270	6.7600e-003	6.4700e-003	354.8737
Total		0.0356	0.3240	0.2722	1.9400e-003		0.0246	0.0246		0.0246	0.0246	0.0000	352.7270	352.7270	6.7600e-003	6.4700e-003	354.8737

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other 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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Heavy Industry	6.60986e+006	0.0356	0.3240	0.2722	1.9400e-003		0.0246	0.0246		0.0246	0.0246	0.0000	352.7270	352.7270	6.7600e-003	6.4700e-003	354.8737
Total		0.0356	0.3240	0.2722	1.9400e-003		0.0246	0.0246		0.0246	0.0246	0.0000	352.7270	352.7270	6.7600e-003	6.4700e-003	354.8737

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Heavy Industry	2.95596e+006	791.4882	0.0389	8.0400e-003	794.7986
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	99968	26.7674	1.3100e-003	2.7000e-004	26.8794
Total		818.2556	0.0402	8.3100e-003	821.6780

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Heavy Industry	2.95596e+006	791.4882	0.0389	8.0400e-003	794.7986
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	99968	26.7674	1.3100e-003	2.7000e-004	26.8794
Total		818.2556	0.0402	8.3100e-003	821.6780

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.5546	5.0000e-005	4.7400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.9800e-003	8.9800e-003	3.0000e-005	0.0000	9.5100e-003
Unmitigated	1.5546	5.0000e-005	4.7400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.9800e-003	8.9800e-003	3.0000e-005	0.0000	9.5100e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2571					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.2970					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.6000e-004	5.0000e-005	4.7400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.9800e-003	8.9800e-003	3.0000e-005	0.0000	9.5100e-003
Total	1.5546	5.0000e-005	4.7400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.9800e-003	8.9800e-003	3.0000e-005	0.0000	9.5100e-003

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2571					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.2970					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.6000e-004	5.0000e-005	4.7400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.9800e-003	8.9800e-003	3.0000e-005	0.0000	9.5100e-003
Total	1.5546	5.0000e-005	4.7400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.9800e-003	8.9800e-003	3.0000e-005	0.0000	9.5100e-003

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	72.9015	1.3477	0.0323	111.2222
Unmitigated	72.9015	1.3480	0.0324	111.2431

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Heavy Industry	41.2781 / 0	72.9015	1.3480	0.0324	111.2431
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		72.9015	1.3480	0.0324	111.2431

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Heavy Industry	41.2781 / 0	72.9015	1.3477	0.0323	111.2222
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		72.9015	1.3477	0.0323	111.2222

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	44.9300	2.6553	0.0000	100.6911
Unmitigated	44.9300	2.6553	0.0000	100.6911

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Heavy Industry	221.34	44.9300	2.6553	0.0000	100.6911
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		44.9300	2.6553	0.0000	100.6911

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Heavy Industry	221.34	44.9300	2.6553	0.0000	100.6911
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		44.9300	2.6553	0.0000	100.6911

9.0 Operational Offroad

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

ALTERNATIVE 3

Site Preparation and Infrastructure

- ◆ **Winter**
- ◆ **Annual**

McKinley Village
Sacramento Valley Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	11.70	Acre	11.70	509,652.00	0
City Park	2.00	Acre	2.00	87,120.00	0
Single Family Housing	226.00	Dwelling Unit	30.10	406,800.00	452
User Defined Residential	26.00	Dwelling Unit	0.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	65
Climate Zone	6			Operational Year	2018
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - lot acreage, sq ft, and population per Project Description

Construction Phase - phases and schedule per applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Trips and VMT - vendor trips added to represent water trucks, worker trips modified to match applicant estimates

Grading - project site size

Vehicle Trips - per project traffic study

Woodstoves - per Project Description

Consumer Products - consumer products emissions to be calculated by hand, off-model. The model applies the emission factor to all land uses, even parking and paving, which should not generate any consumer product emissions

Water And Wastewater - all wastewater treated at WWTP

Land Use Change -

Construction Off-road Equipment Mitigation - 20% NOx reduction for construction fleet applied using oxidation catalyst. basic construction emission control practices implemented per SMAQMD CEQA Handbook

Mobile Land Use Mitigation -

Energy Mitigation - 30% above 2013 Title 24. CEC estimated that 2013 Title 24 would result in 25% energy savings over 2008 Title 24. 30% above 2013 Title 24 is calculated as:

$$1 - [(1-.25) * (1-0.3)] \times 100 = 47.5\% \text{ improvement over 2008 Title 24}$$

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Interior	895158	1029558
tblAreaCoating	Area_Residential_Exterior	274590	420120
tblAreaCoating	Area_Residential_Interior	823770	1260360
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	16.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstructionPhase	NumDays	75.00	56.00
tblConstructionPhase	NumDays	55.00	109.00
tblConstructionPhase	NumDays	55.00	43.00
tblConstructionPhase	NumDays	30.00	10.00
tblConstructionPhase	PhaseEndDate	12/31/2014	11/28/2014
tblConstructionPhase	PhaseEndDate	1/28/2015	9/30/2014
tblConstructionPhase	PhaseStartDate	8/1/2014	7/1/2014
tblConstructionPhase	PhaseStartDate	11/29/2014	8/1/2014
tblFireplaces	FireplaceWoodMass	3,078.40	0.00

tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	124.30	164.00
tblFireplaces	NumberGas	14.30	20.00
tblFireplaces	NumberNoFireplace	22.60	164.00
tblFireplaces	NumberNoFireplace	2.60	20.00
tblFireplaces	NumberWood	79.10	0.00
tblFireplaces	NumberWood	9.10	0.00
tblGrading	AcresOfGrading	308.00	48.00
tblGrading	AcresOfGrading	10.00	0.00
tblLandUse	LotAcreage	73.38	30.10
tblLandUse	Population	646.00	452.00
tblLandUse	Population	74.00	0.00
tblOffRoadEquipment	HorsePower	80.00	97.00
tblOffRoadEquipment	LoadFactor	0.38	0.37
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblProjectCharacteristics	OperationalYear	2014	2018
tblSolidWaste	SolidWasteGenerationRate	0.17	0.34
tblSolidWaste	SolidWasteGenerationRate	160.67	233.18
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	35.00	27.00
tblVehicleTrips	ST_TR	0.00	7.25
tblVehicleTrips	SU_TR	0.00	7.25
tblVehicleTrips	WD_TR	0.00	7.25

tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	14,724,809.79	21,370,520.40
tblWater	OutdoorWaterUseRate	2,382,962.70	4,765,925.40
tblWater	OutdoorWaterUseRate	9,283,032.26	13,472,719.39
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	11.30	0.00
tblWoodstoves	NumberCatalytic	1.30	0.00
tblWoodstoves	NumberNoncatalytic	11.30	0.00
tblWoodstoves	NumberNoncatalytic	1.30	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	32.0299	0.2430	20.9583	1.1000e-003		0.3611	0.3611		0.3585	0.3585	0.0000	3,933.9088	3,933.9088	0.1118	0.0714	3,958.4013
Energy	0.2147	1.8346	0.7807	0.0117		0.1483	0.1483		0.1483	0.1483		2,342.0790	2,342.0790	0.0449	0.0429	2,356.3325
Mobile	26.7026	25.4975	107.3371	0.1966	13.4040	0.3308	13.7348	3.5853	0.3045	3.8898		16,335.6236	16,335.6236	0.6290		16,348.8335
Total	58.9472	27.5752	129.0760	0.2094	13.4040	0.8402	14.2442	3.5853	0.8113	4.3966	0.0000	22,611.6114	22,611.6114	0.7857	0.1144	22,663.5673

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	32.0299	0.2430	20.9583	1.1000e-003		0.3611	0.3611		0.3585	0.3585	0.0000	3,933.9088	3,933.9088	0.1118	0.0714	3,958.4013
Energy	0.1315	1.1240	0.4783	7.1700e-003		0.0909	0.0909		0.0909	0.0909		1,434.9063	1,434.9063	0.0275	0.0263	1,443.6389
Mobile	25.1783	24.0956	103.5444	0.1840	12.5134	0.3105	12.8239	3.3471	0.2858	3.6329		15,287.1413	15,287.1413	0.5922		15,299.5783
Total	57.3397	25.4626	124.9810	0.1923	12.5134	0.7624	13.2758	3.3471	0.7351	4.0822	0.0000	20,655.9564	20,655.9564	0.7315	0.0978	20,701.6185

	ROG	NOx	CO	SO2	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	2.73	7.66	3.17	8.18	6.64	9.26	6.80	6.64	9.39	7.15	0.00	8.65	8.65	6.90	14.54	8.66

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	5/1/2014	5/14/2014	5	10	
2	Grading	Grading	5/15/2014	7/31/2014	5	56	
3	Paving 40th Extension	Paving	7/1/2014	11/28/2014	5	109	
4	Utilities/Trenching	Trenching	8/1/2014	9/30/2014	5	43	
5	Paving Onsite	Paving	10/1/2014	11/28/2014	5	43	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 48

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Crawler Tractors	2	8.00	208	0.43
Grading	Crawler Tractors	2	8.00	208	0.43
Grading	Graders	1	8.00	174	0.41
Grading	Rollers	3	8.00	97	0.37
Grading	Scrapers	4	8.00	361	0.48
Paving 40th Extension	Dumpers/Tenders	4	8.00	16	0.38
Paving 40th Extension	Pavers	1	8.00	125	0.42
Paving 40th Extension	Paving Equipment	1	8.00	130	0.36
Paving 40th Extension	Rollers	1	8.00	80	0.38
Utilities/Trenching	Dumpers/Tenders	2	8.00	16	0.38
Utilities/Trenching	Excavators	2	8.00	162	0.38
Utilities/Trenching	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Utilities/Trenching	Trenchers	1	8.00	80	0.50
Paving Onsite	Dumpers/Tenders	8	8.00	16	0.38
Paving Onsite	Pavers	2	8.00	125	0.42
Paving Onsite	Paving Equipment	2	8.00	130	0.36
Paving Onsite	Rollers	2	8.00	80	0.38

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
Site Preparation	2	5.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	10	25.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving 40th Extension	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Utilities/Trenching	6	15.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving Onsite	14	27.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Oxidation Catalyst for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.4325	19.6788	5.7976	0.0154		0.7605	0.7605		0.6997	0.6997		1,634.354 4	1,634.354 4	0.4830		1,644.496 7
Total	1.4325	19.6788	5.7976	0.0154	0.0000	0.7605	0.7605	0.0000	0.6997	0.6997		1,634.354 4	1,634.354 4	0.4830		1,644.496 7

3.2 Site Preparation - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0902	0.2570	0.4704	4.8000e-004	0.0133	4.8500e-003	0.0181	3.7800e-003	4.4500e-003	8.2300e-003		48.3838	48.3838	4.9000e-004			48.3940
Worker	0.1104	0.0340	0.3206	4.6000e-004	0.0411	3.5000e-004	0.0414	0.0109	3.2000e-004	0.0112		40.8202	40.8202	2.6400e-003			40.8757
Total	0.2006	0.2910	0.7910	9.4000e-004	0.0543	5.2000e-003	0.0595	0.0147	4.7700e-003	0.0194		89.2041	89.2041	3.1300e-003			89.2697

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.4325	16.7269	5.7976	0.0154		0.7605	0.7605		0.6997	0.6997	0.0000	1,634.3543	1,634.3543	0.4830		1,644.4967
Total	1.4325	16.7269	5.7976	0.0154	0.0000	0.7605	0.7605	0.0000	0.6997	0.6997	0.0000	1,634.3543	1,634.3543	0.4830		1,644.4967

3.2 Site Preparation - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0902	0.2570	0.4704	4.8000e-004	0.0133	4.8500e-003	0.0181	3.7800e-003	4.4500e-003	8.2300e-003		48.3838	48.3838	4.9000e-004			48.3940
Worker	0.1104	0.0340	0.3206	4.6000e-004	0.0411	3.5000e-004	0.0414	0.0109	3.2000e-004	0.0112		40.8202	40.8202	2.6400e-003			40.8757
Total	0.2006	0.2910	0.7910	9.4000e-004	0.0543	5.2000e-003	0.0595	0.0147	4.7700e-003	0.0194		89.2041	89.2041	3.1300e-003			89.2697

3.3 Grading - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.9090	0.0000	0.9090	0.0982	0.0000	0.0982			0.0000			0.0000
Off-Road	9.6701	118.9585	65.6563	0.0906		5.3522	5.3522		4.9240	4.9240		9,608.1481	9,608.1481	2.8393		9,667.7737
Total	9.6701	118.9585	65.6563	0.0906	0.9090	5.3522	6.2612	0.0982	4.9240	5.0222		9,608.1481	9,608.1481	2.8393		9,667.7737

3.3 Grading - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0902	0.2570	0.4704	4.8000e-004	0.0133	4.8500e-003	0.0181	3.7800e-003	4.4500e-003	8.2300e-003		48.3838	48.3838	4.9000e-004			48.3940
Worker	0.5520	0.1698	1.6029	2.3100e-003	0.2054	1.7600e-003	0.2071	0.0545	1.6000e-003	0.0561		204.1012	204.1012	0.0132			204.3785
Total	0.6422	0.4269	2.0733	2.7900e-003	0.2186	6.6100e-003	0.2252	0.0583	6.0500e-003	0.0643		252.4851	252.4851	0.0137			252.7725

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					0.4091	0.0000	0.4091	0.0442	0.0000	0.0442			0.0000				0.0000
Off-Road	9.6701	96.1507	65.6563	0.0906		5.3522	5.3522		4.9240	4.9240	0.0000	9,608.1481	9,608.1481	2.8393			9,667.7737
Total	9.6701	96.1507	65.6563	0.0906	0.4091	5.3522	5.7612	0.0442	4.9240	4.9682	0.0000	9,608.1481	9,608.1481	2.8393			9,667.7737

3.3 Grading - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0902	0.2570	0.4704	4.8000e-004	0.0133	4.8500e-003	0.0181	3.7800e-003	4.4500e-003	8.2300e-003		48.3838	48.3838	4.9000e-004			48.3940
Worker	0.5520	0.1698	1.6029	2.3100e-003	0.2054	1.7600e-003	0.2071	0.0545	1.6000e-003	0.0561		204.1012	204.1012	0.0132			204.3785
Total	0.6422	0.4269	2.0733	2.7900e-003	0.2186	6.6100e-003	0.2252	0.0583	6.0500e-003	0.0643		252.4851	252.4851	0.0137			252.7725

3.4 Paving 40th Extension - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.4829	14.9443	8.4965	0.0141		0.8119	0.8119		0.7538	0.7538		1,425.5070	1,425.5070	0.3762			1,433.4081
Paving	0.2812					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.7641	14.9443	8.4965	0.0141		0.8119	0.8119		0.7538	0.7538		1,425.5070	1,425.5070	0.3762			1,433.4081

3.4 Paving 40th Extension - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3975	0.1223	1.1541	1.6600e-003	0.1479	1.2700e-003	0.1491	0.0392	1.1500e-003	0.0404		146.9529	146.9529	9.5100e-003		147.1525
Total	0.3975	0.1223	1.1541	1.6600e-003	0.1479	1.2700e-003	0.1491	0.0392	1.1500e-003	0.0404		146.9529	146.9529	9.5100e-003		147.1525

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4829	11.9022	8.4965	0.0141		0.8119	0.8119		0.7538	0.7538	0.0000	1,425.5070	1,425.5070	0.3762		1,433.4081
Paving	0.2812					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.7641	11.9022	8.4965	0.0141		0.8119	0.8119		0.7538	0.7538	0.0000	1,425.5070	1,425.5070	0.3762		1,433.4081

3.4 Paving 40th Extension - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.3975	0.1223	1.1541	1.6600e-003	0.1479	1.2700e-003	0.1491	0.0392	1.1500e-003	0.0404		146.9529	146.9529	9.5100e-003			147.1525
Total	0.3975	0.1223	1.1541	1.6600e-003	0.1479	1.2700e-003	0.1491	0.0392	1.1500e-003	0.0404		146.9529	146.9529	9.5100e-003			147.1525

3.5 Utilities/Trenching - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.8517	18.8043	11.9946	0.0179		1.1452	1.1452		1.0570	1.0570		1,860.0139	1,860.0139	0.5272			1,871.0840
Total	1.8517	18.8043	11.9946	0.0179		1.1452	1.1452		1.0570	1.0570		1,860.0139	1,860.0139	0.5272			1,871.0840

3.5 Utilities/Trenching - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0902	0.2570	0.4704	4.8000e-004	0.0133	4.8500e-003	0.0181	3.7800e-003	4.4500e-003	8.2300e-003		48.3838	48.3838	4.9000e-004			48.3940
Worker	0.3312	0.1019	0.9617	1.3900e-003	0.1232	1.0600e-003	0.1243	0.0327	9.6000e-004	0.0336		122.4607	122.4607	7.9200e-003			122.6271
Total	0.4214	0.3589	1.4321	1.8700e-003	0.1365	5.9100e-003	0.1424	0.0365	5.4100e-003	0.0419		170.8446	170.8446	8.4100e-003			171.0211

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.8517	13.4757	11.9946	0.0179		1.1452	1.1452		1.0570	1.0570	0.0000	1,860.0139	1,860.0139	0.5272			1,871.0840
Total	1.8517	13.4757	11.9946	0.0179		1.1452	1.1452		1.0570	1.0570	0.0000	1,860.0139	1,860.0139	0.5272			1,871.0840

3.5 Utilities/Trenching - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0902	0.2570	0.4704	4.8000e-004	0.0133	4.8500e-003	0.0181	3.7800e-003	4.4500e-003	8.2300e-003		48.3838	48.3838	4.9000e-004			48.3940
Worker	0.3312	0.1019	0.9617	1.3900e-003	0.1232	1.0600e-003	0.1243	0.0327	9.6000e-004	0.0336		122.4607	122.4607	7.9200e-003			122.6271
Total	0.4214	0.3589	1.4321	1.8700e-003	0.1365	5.9100e-003	0.1424	0.0365	5.4100e-003	0.0419		170.8446	170.8446	8.4100e-003			171.0211

3.6 Paving Onsite - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.9657	29.8886	16.9929	0.0283		1.6239	1.6239		1.5077	1.5077		2,851.0140	2,851.0140	0.7525			2,866.8162
Paving	0.7129					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	3.6786	29.8886	16.9929	0.0283		1.6239	1.6239		1.5077	1.5077		2,851.0140	2,851.0140	0.7525			2,866.8162

3.6 Paving Onsite - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.5962	0.1834	1.7311	2.5000e-003	0.2218	1.9000e-003	0.2237	0.0588	1.7300e-003	0.0606		220.4293	220.4293	0.0143			220.7288
Total	0.5962	0.1834	1.7311	2.5000e-003	0.2218	1.9000e-003	0.2237	0.0588	1.7300e-003	0.0606		220.4293	220.4293	0.0143			220.7288

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.9657	23.8044	16.9929	0.0283		1.6239	1.6239		1.5077	1.5077	0.0000	2,851.0140	2,851.0140	0.7525			2,866.8162
Paving	0.7129					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	3.6786	23.8044	16.9929	0.0283		1.6239	1.6239		1.5077	1.5077	0.0000	2,851.0140	2,851.0140	0.7525			2,866.8162

3.6 Paving Onsite - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.5962	0.1834	1.7311	2.5000e-003	0.2218	1.9000e-003	0.2237	0.0588	1.7300e-003	0.0606		220.4293	220.4293	0.0143			220.7288
Total	0.5962	0.1834	1.7311	2.5000e-003	0.2218	1.9000e-003	0.2237	0.0588	1.7300e-003	0.0606		220.4293	220.4293	0.0143			220.7288

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	25.1783	24.0956	103.5444	0.1840	12.5134	0.3105	12.8239	3.3471	0.2858	3.6329		15,287.14 13	15,287.14 13	0.5922		15,299.57 83
Unmitigated	26.7026	25.4975	107.3371	0.1966	13.4040	0.3308	13.7348	3.5853	0.3045	3.8898		16,335.62 36	16,335.62 36	0.6290		16,348.83 35

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	3.18	3.18	3.18	6,789	6,338
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	2,162.82	2,278.08	1982.02	5,950,158	5,554,799
User Defined Residential	188.50	188.50	188.50		
Total	2,354.50	2,469.76	2,173.70	5,956,947	5,561,137

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3
User Defined Residential	10.80	7.30	7.50	32.90	18.00	49.10	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.462115	0.061823	0.181510	0.153742	0.057112	0.007288	0.019722	0.042680	0.001823	0.001665	0.006988	0.000686	0.002845

5.0 Energy Detail

2.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1315	1.1240	0.4783	7.1700e-003		0.0909	0.0909		0.0909	0.0909		1,434.9063	1,434.9063	0.0275	0.0263	1,443.6389
NaturalGas Unmitigated	0.2147	1.8346	0.7807	0.0117		0.1483	0.1483		0.1483	0.1483		2,342.0790	2,342.0790	0.0449	0.0429	2,356.3325

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other 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
Single Family Housing	19907.7	0.2147	1.8346	0.7807	0.0117		0.1483	0.1483		0.1483	0.1483		2,342.0790	2,342.0790	0.0449	0.0429	2,356.3325	
User Defined Residential	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		0.2147	1.8346	0.7807	0.0117		0.1483	0.1483		0.1483	0.1483		2,342.0790	2,342.0790	0.0449	0.0429	2,356.3325	

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other 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
Single Family Housing	12.1967	0.1315	1.1240	0.4783	7.1700e-003		0.0909	0.0909		0.0909	0.0909		1,434.9063	1,434.9063	0.0275	0.0263	1,443.6389
User Defined Residential	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
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.1315	1.1240	0.4783	7.1700e-003		0.0909	0.0909		0.0909	0.0909		1,434.9063	1,434.9063	0.0275	0.0263	1,443.6389

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					
Mitigated	32.0299	0.2430	20.9583	1.1000e-003		0.3611	0.3611		0.3585	0.3585	0.0000	3,933.9088	3,933.9088	0.1118	0.0714	3,958.4013
Unmitigated	32.0299	0.2430	20.9583	1.1000e-003		0.3611	0.3611		0.3585	0.3585	0.0000	3,933.9088	3,933.9088	0.1118	0.0714	3,958.4013

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	9.5507					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	21.4764					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.3572	2.0000e-005	0.0195	0.0000		0.2468	0.2468		0.2442	0.2442	0.0000	3,896.4706	3,896.4706	0.0747	0.0714	3,920.1839
Landscaping	0.6456	0.2430	20.9388	1.1000e-003		0.1143	0.1143		0.1143	0.1143		37.4382	37.4382	0.0371		38.2174
Total	32.0299	0.2431	20.9582	1.1000e-003		0.3611	0.3611		0.3585	0.3585	0.0000	3,933.9088	3,933.9088	0.1118	0.0714	3,958.4013

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	9.5507					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	21.4764					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.3572	2.0000e-005	0.0195	0.0000		0.2468	0.2468		0.2442	0.2442	0.0000	3,896.4706	3,896.4706	0.0747	0.0714	3,920.1839
Landscaping	0.6456	0.2430	20.9388	1.1000e-003		0.1143	0.1143		0.1143	0.1143		37.4382	37.4382	0.0371		38.2174
Total	32.0299	0.2431	20.9582	1.1000e-003		0.3611	0.3611		0.3585	0.3585	0.0000	3,933.9088	3,933.9088	0.1118	0.0714	3,958.4013

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 Vegetation

McKinley Village
Sacramento Valley Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	11.70	Acre	11.70	509,652.00	0
City Park	2.00	Acre	2.00	87,120.00	0
Single Family Housing	226.00	Dwelling Unit	30.10	406,800.00	452
User Defined Residential	26.00	Dwelling Unit	0.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	65
Climate Zone	6			Operational Year	2018
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - lot acreage, sq ft, and population per Project Description

Construction Phase - phases and schedule per applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Trips and VMT - vendor trips added to represent water trucks, worker trips modified to match applicant estimates

Grading - project site size

Vehicle Trips - per project traffic study

Woodstoves - per Project Description

Consumer Products - consumer products emissions to be calculated by hand, off-model. The model applies the emission factor to all land uses, even parking and paving, which should not generate any consumer product emissions

Water And Wastewater - all wastewater treated at WWTP

Land Use Change -

Construction Off-road Equipment Mitigation - 20% NOx reduction for construction fleet applied using oxidation catalyst. basic construction emission control practices implemented per SMAQMD CEQA Handbook

Mobile Land Use Mitigation -

Energy Mitigation - 30% above 2013 Title 24. CEC estimated that 2013 Title 24 would result in 25% energy savings over 2008 Title 24. 30% above 2013 Title 24 is calculated as:

$$1 - [(1-.25) * (1-0.3)] \times 100 = 47.5\% \text{ improvement over 2008 Title 24}$$

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Interior	895158	1029558
tblAreaCoating	Area_Residential_Exterior	274590	420120
tblAreaCoating	Area_Residential_Interior	823770	1260360
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	16.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstructionPhase	NumDays	75.00	56.00
tblConstructionPhase	NumDays	55.00	109.00
tblConstructionPhase	NumDays	55.00	43.00
tblConstructionPhase	NumDays	30.00	10.00
tblConstructionPhase	PhaseEndDate	12/31/2014	11/28/2014
tblConstructionPhase	PhaseEndDate	1/28/2015	9/30/2014
tblConstructionPhase	PhaseStartDate	8/1/2014	7/1/2014
tblConstructionPhase	PhaseStartDate	11/29/2014	8/1/2014
tblFireplaces	FireplaceWoodMass	3,078.40	0.00

tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	124.30	164.00
tblFireplaces	NumberGas	14.30	20.00
tblFireplaces	NumberNoFireplace	22.60	164.00
tblFireplaces	NumberNoFireplace	2.60	20.00
tblFireplaces	NumberWood	79.10	0.00
tblFireplaces	NumberWood	9.10	0.00
tblGrading	AcresOfGrading	308.00	48.00
tblGrading	AcresOfGrading	10.00	0.00
tblLandUse	LotAcreage	73.38	30.10
tblLandUse	Population	646.00	452.00
tblLandUse	Population	74.00	0.00
tblOffRoadEquipment	HorsePower	80.00	97.00
tblOffRoadEquipment	LoadFactor	0.38	0.37
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblProjectCharacteristics	OperationalYear	2014	2018
tblSolidWaste	SolidWasteGenerationRate	0.17	0.34
tblSolidWaste	SolidWasteGenerationRate	160.67	233.18
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	35.00	27.00
tblVehicleTrips	ST_TR	0.00	7.25
tblVehicleTrips	SU_TR	0.00	7.25
tblVehicleTrips	WD_TR	0.00	7.25

tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	14,724,809.79	21,370,520.40
tblWater	OutdoorWaterUseRate	2,382,962.70	4,765,925.40
tblWater	OutdoorWaterUseRate	9,283,032.26	13,472,719.39
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	11.30	0.00
tblWoodstoves	NumberCatalytic	1.30	0.00
tblWoodstoves	NumberNoncatalytic	11.30	0.00
tblWoodstoves	NumberNoncatalytic	1.30	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.7352	0.0219	1.8853	1.0000e-004		0.0204	0.0204		0.0203	0.0203	0.0000	147.9843	147.9843	5.8100e-003	2.6600e-003	148.9299
Energy	0.0392	0.3348	0.1425	2.1400e-003		0.0271	0.0271		0.0271	0.0271	0.0000	837.8166	837.8166	0.0295	0.0117	842.0588
Mobile	4.0717	4.1854	16.3665	0.0345	2.2186	0.0567	2.2752	0.5954	0.0522	0.6475	0.0000	2,598.4033	2,598.4033	0.0980	0.0000	2,600.4620
Waste						0.0000	0.0000		0.0000	0.0000	47.4025	0.0000	47.4025	2.8014	0.0000	106.2319
Water						0.0000	0.0000		0.0000	0.0000	7.5609	48.0552	55.6161	0.0284	0.0169	61.4608
Total	9.8461	4.5421	18.3942	0.0367	2.2186	0.1041	2.3227	0.5954	0.0995	0.6949	54.9634	3,632.2594	3,687.2228	2.9632	0.0313	3,759.1435

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.7352	0.0219	1.8853	1.0000e-004		0.0204	0.0204		0.0203	0.0203	0.0000	147.9843	147.9843	5.8100e-003	2.6600e-003	148.9299
Energy	0.0240	0.2051	0.0873	1.3100e-003		0.0166	0.0166		0.0166	0.0166	0.0000	666.6518	666.6518	0.0256	8.7200e-003	669.8922
Mobile	3.8430	3.9559	15.7031	0.0323	2.0712	0.0532	2.1243	0.5558	0.0489	0.6047	0.0000	2,431.7056	2,431.7056	0.0923	0.0000	2,433.6438
Waste						0.0000	0.0000		0.0000	0.0000	47.4025	0.0000	47.4025	2.8014	0.0000	106.2319
Water						0.0000	0.0000		0.0000	0.0000	7.5609	48.0552	55.6161	0.0282	0.0169	61.4488
Total	9.6022	4.1829	17.6757	0.0337	2.0712	0.0902	2.1613	0.5558	0.0858	0.6416	54.9634	3,294.3968	3,349.3602	2.9534	0.0283	3,420.1466

	ROG	NOx	CO	SO2	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	2.48	7.91	3.91	8.25	6.64	13.42	6.95	6.64	13.77	7.66	0.00	9.30	9.16	0.33	9.56	9.02

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	5/1/2014	5/14/2014	5	10	
2	Grading	Grading	5/15/2014	7/31/2014	5	56	
3	Paving 40th Extension	Paving	7/1/2014	11/28/2014	5	109	
4	Utilities/Trenching	Trenching	8/1/2014	9/30/2014	5	43	
5	Paving Onsite	Paving	10/1/2014	11/28/2014	5	43	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 48

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Crawler Tractors	2	8.00	208	0.43
Grading	Crawler Tractors	2	8.00	208	0.43
Grading	Graders	1	8.00	174	0.41
Grading	Rollers	3	8.00	97	0.37
Grading	Scrapers	4	8.00	361	0.48
Paving 40th Extension	Dumpers/Tenders	4	8.00	16	0.38
Paving 40th Extension	Pavers	1	8.00	125	0.42
Paving 40th Extension	Paving Equipment	1	8.00	130	0.36
Paving 40th Extension	Rollers	1	8.00	80	0.38
Utilities/Trenching	Dumpers/Tenders	2	8.00	16	0.38
Utilities/Trenching	Excavators	2	8.00	162	0.38
Utilities/Trenching	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Utilities/Trenching	Trenchers	1	8.00	80	0.50
Paving Onsite	Dumpers/Tenders	8	8.00	16	0.38
Paving Onsite	Pavers	2	8.00	125	0.42
Paving Onsite	Paving Equipment	2	8.00	130	0.36
Paving Onsite	Rollers	2	8.00	80	0.38

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
Site Preparation	2	5.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	10	25.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving 40th Extension	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Utilities/Trenching	6	15.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving Onsite	14	27.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Oxidation Catalyst for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.1600e-003	0.0984	0.0290	8.0000e-005		3.8000e-003	3.8000e-003		3.5000e-003	3.5000e-003	0.0000	7.4133	7.4133	2.1900e-003	0.0000	7.4593
Total	7.1600e-003	0.0984	0.0290	8.0000e-005	0.0000	3.8000e-003	3.8000e-003	0.0000	3.5000e-003	3.5000e-003	0.0000	7.4133	7.4133	2.1900e-003	0.0000	7.4593

3.2 Site Preparation - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-004	1.2600e-003	1.9200e-003	0.0000	6.0000e-005	2.0000e-005	9.0000e-005	2.0000e-005	2.0000e-005	4.0000e-005	0.0000	0.2204	0.2204	0.0000	0.0000	0.2205
Worker	4.8000e-004	1.5000e-004	1.5300e-003	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1906	0.1906	1.0000e-005	0.0000	0.1908
Total	8.8000e-004	1.4100e-003	3.4500e-003	0.0000	2.6000e-004	2.0000e-005	2.9000e-004	7.0000e-005	2.0000e-005	9.0000e-005	0.0000	0.4110	0.4110	1.0000e-005	0.0000	0.4113

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.1600e-003	0.0836	0.0290	8.0000e-005		3.8000e-003	3.8000e-003		3.5000e-003	3.5000e-003	0.0000	7.4133	7.4133	2.1900e-003	0.0000	7.4593
Total	7.1600e-003	0.0836	0.0290	8.0000e-005	0.0000	3.8000e-003	3.8000e-003	0.0000	3.5000e-003	3.5000e-003	0.0000	7.4133	7.4133	2.1900e-003	0.0000	7.4593

3.2 Site Preparation - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-004	1.2600e-003	1.9200e-003	0.0000	6.0000e-005	2.0000e-005	9.0000e-005	2.0000e-005	2.0000e-005	4.0000e-005	0.0000	0.2204	0.2204	0.0000	0.0000	0.2205
Worker	4.8000e-004	1.5000e-004	1.5300e-003	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1906	0.1906	1.0000e-005	0.0000	0.1908
Total	8.8000e-004	1.4100e-003	3.4500e-003	0.0000	2.6000e-004	2.0000e-005	2.9000e-004	7.0000e-005	2.0000e-005	9.0000e-005	0.0000	0.4110	0.4110	1.0000e-005	0.0000	0.4113

3.3 Grading - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0255	0.0000	0.0255	2.7500e-003	0.0000	2.7500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2708	3.3308	1.8384	2.5400e-003		0.1499	0.1499		0.1379	0.1379	0.0000	244.0582	244.0582	0.0721	0.0000	245.5728
Total	0.2708	3.3308	1.8384	2.5400e-003	0.0255	0.1499	0.1753	2.7500e-003	0.1379	0.1406	0.0000	244.0582	244.0582	0.0721	0.0000	245.5728

3.3 Grading - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2300e-003	7.0700e-003	0.0108	1.0000e-005	3.6000e-004	1.3000e-004	4.9000e-004	1.0000e-004	1.2000e-004	2.3000e-004	0.0000	1.2344	1.2344	1.0000e-005	0.0000	1.2347
Worker	0.0134	4.2500e-003	0.0429	7.0000e-005	5.5300e-003	5.0000e-005	5.5800e-003	1.4700e-003	4.0000e-005	1.5200e-003	0.0000	5.3366	5.3366	3.4000e-004	0.0000	5.3436
Total	0.0156	0.0113	0.0536	8.0000e-005	5.8900e-003	1.8000e-004	6.0700e-003	1.5700e-003	1.6000e-004	1.7500e-003	0.0000	6.5710	6.5710	3.5000e-004	0.0000	6.5783

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0115	0.0000	0.0115	1.2400e-003	0.0000	1.2400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2708	2.6922	1.8384	2.5400e-003		0.1499	0.1499		0.1379	0.1379	0.0000	244.0579	244.0579	0.0721	0.0000	245.5725
Total	0.2708	2.6922	1.8384	2.5400e-003	0.0115	0.1499	0.1613	1.2400e-003	0.1379	0.1391	0.0000	244.0579	244.0579	0.0721	0.0000	245.5725

3.3 Grading - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2300e-003	7.0700e-003	0.0108	1.0000e-005	3.6000e-004	1.3000e-004	4.9000e-004	1.0000e-004	1.2000e-004	2.3000e-004	0.0000	1.2344	1.2344	1.0000e-005	0.0000	1.2347
Worker	0.0134	4.2500e-003	0.0429	7.0000e-005	5.5300e-003	5.0000e-005	5.5800e-003	1.4700e-003	4.0000e-005	1.5200e-003	0.0000	5.3366	5.3366	3.4000e-004	0.0000	5.3436
Total	0.0156	0.0113	0.0536	8.0000e-005	5.8900e-003	1.8000e-004	6.0700e-003	1.5700e-003	1.6000e-004	1.7500e-003	0.0000	6.5710	6.5710	3.5000e-004	0.0000	6.5783

3.4 Paving 40th Extension - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0808	0.8145	0.4631	7.7000e-004		0.0443	0.0443		0.0411	0.0411	0.0000	70.4793	70.4793	0.0186	0.0000	70.8699
Paving	0.0153					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0962	0.8145	0.4631	7.7000e-004		0.0443	0.0443		0.0411	0.0411	0.0000	70.4793	70.4793	0.0186	0.0000	70.8699

3.4 Paving 40th Extension - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0188	5.9600e-003	0.0601	9.0000e-005	7.7500e-003	7.0000e-005	7.8200e-003	2.0600e-003	6.0000e-005	2.1200e-003	0.0000	7.4788	7.4788	4.7000e-004	0.0000	7.4887
Total	0.0188	5.9600e-003	0.0601	9.0000e-005	7.7500e-003	7.0000e-005	7.8200e-003	2.0600e-003	6.0000e-005	2.1200e-003	0.0000	7.4788	7.4788	4.7000e-004	0.0000	7.4887

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0808	0.6487	0.4631	7.7000e-004		0.0443	0.0443		0.0411	0.0411	0.0000	70.4792	70.4792	0.0186	0.0000	70.8699
Paving	0.0153					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0962	0.6487	0.4631	7.7000e-004		0.0443	0.0443		0.0411	0.0411	0.0000	70.4792	70.4792	0.0186	0.0000	70.8699

3.4 Paving 40th Extension - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0188	5.9600e-003	0.0601	9.0000e-005	7.7500e-003	7.0000e-005	7.8200e-003	2.0600e-003	6.0000e-005	2.1200e-003	0.0000	7.4788	7.4788	4.7000e-004	0.0000	7.4887	
Total	0.0188	5.9600e-003	0.0601	9.0000e-005	7.7500e-003	7.0000e-005	7.8200e-003	2.0600e-003	6.0000e-005	2.1200e-003	0.0000	7.4788	7.4788	4.7000e-004	0.0000	7.4887	

3.5 Utilities/Trenching - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0398	0.4043	0.2579	3.8000e-004		0.0246	0.0246		0.0227	0.0227	0.0000	36.2786	36.2786	0.0103	0.0000	36.4945
Total	0.0398	0.4043	0.2579	3.8000e-004		0.0246	0.0246		0.0227	0.0227	0.0000	36.2786	36.2786	0.0103	0.0000	36.4945

3.5 Utilities/Trenching - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7100e-003	5.4300e-003	8.2700e-003	1.0000e-005	2.8000e-004	1.0000e-004	3.8000e-004	8.0000e-005	9.0000e-005	1.7000e-004	0.0000	0.9479	0.9479	1.0000e-005	0.0000	0.9481	
Worker	6.1700e-003	1.9600e-003	0.0198	3.0000e-005	2.5500e-003	2.0000e-005	2.5700e-003	6.8000e-004	2.0000e-005	7.0000e-004	0.0000	2.4586	2.4586	1.5000e-004	0.0000	2.4619	
Total	7.8800e-003	7.3900e-003	0.0280	4.0000e-005	2.8300e-003	1.2000e-004	2.9500e-003	7.6000e-004	1.1000e-004	8.7000e-004	0.0000	3.4065	3.4065	1.6000e-004	0.0000	3.4099	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0398	0.2897	0.2579	3.8000e-004		0.0246	0.0246		0.0227	0.0227	0.0000	36.2785	36.2785	0.0103	0.0000	36.4945
Total	0.0398	0.2897	0.2579	3.8000e-004		0.0246	0.0246		0.0227	0.0227	0.0000	36.2785	36.2785	0.0103	0.0000	36.4945

3.5 Utilities/Trenching - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7100e-003	5.4300e-003	8.2700e-003	1.0000e-005	2.8000e-004	1.0000e-004	3.8000e-004	8.0000e-005	9.0000e-005	1.7000e-004	0.0000	0.9479	0.9479	1.0000e-005	0.0000	0.9481
Worker	6.1700e-003	1.9600e-003	0.0198	3.0000e-005	2.5500e-003	2.0000e-005	2.5700e-003	6.8000e-004	2.0000e-005	7.0000e-004	0.0000	2.4586	2.4586	1.5000e-004	0.0000	2.4619
Total	7.8800e-003	7.3900e-003	0.0280	4.0000e-005	2.8300e-003	1.2000e-004	2.9500e-003	7.6000e-004	1.1000e-004	8.7000e-004	0.0000	3.4065	3.4065	1.6000e-004	0.0000	3.4099

3.6 Paving Onsite - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0638	0.6426	0.3654	6.1000e-004		0.0349	0.0349		0.0324	0.0324	0.0000	55.6075	55.6075	0.0147	0.0000	55.9157
Paving	0.0153					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0791	0.6426	0.3654	6.1000e-004		0.0349	0.0349		0.0324	0.0324	0.0000	55.6075	55.6075	0.0147	0.0000	55.9157

3.6 Paving Onsite - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0111	3.5300e-003	0.0356	6.0000e-005	4.5800e-003	4.0000e-005	4.6300e-003	1.2200e-003	4.0000e-005	1.2600e-003	0.0000	4.4255	4.4255	2.8000e-004	0.0000	4.4314
Total	0.0111	3.5300e-003	0.0356	6.0000e-005	4.5800e-003	4.0000e-005	4.6300e-003	1.2200e-003	4.0000e-005	1.2600e-003	0.0000	4.4255	4.4255	2.8000e-004	0.0000	4.4314

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0638	0.5118	0.3654	6.1000e-004		0.0349	0.0349		0.0324	0.0324	0.0000	55.6075	55.6075	0.0147	0.0000	55.9157
Paving	0.0153					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0791	0.5118	0.3654	6.1000e-004		0.0349	0.0349		0.0324	0.0324	0.0000	55.6075	55.6075	0.0147	0.0000	55.9157

3.6 Paving Onsite - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0111	3.5300e-003	0.0356	6.0000e-005	4.5800e-003	4.0000e-005	4.6300e-003	1.2200e-003	4.0000e-005	1.2600e-003	0.0000	4.4255	4.4255	2.8000e-004	0.0000	4.4314
Total	0.0111	3.5300e-003	0.0356	6.0000e-005	4.5800e-003	4.0000e-005	4.6300e-003	1.2200e-003	4.0000e-005	1.2600e-003	0.0000	4.4255	4.4255	2.8000e-004	0.0000	4.4314

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.8430	3.9559	15.7031	0.0323	2.0712	0.0532	2.1243	0.5558	0.0489	0.6047	0.0000	2,431.7056	2,431.7056	0.0923	0.0000	2,433.6438
Unmitigated	4.0717	4.1854	16.3665	0.0345	2.2186	0.0567	2.2752	0.5954	0.0522	0.6475	0.0000	2,598.4033	2,598.4033	0.0980	0.0000	2,600.4620

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	3.18	3.18	3.18	6,789	6,338
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	2,162.82	2,278.08	1982.02	5,950,158	5,554,799
User Defined Residential	188.50	188.50	188.50		
Total	2,354.50	2,469.76	2,173.70	5,956,947	5,561,137

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3
User Defined Residential	10.80	7.30	7.50	32.90	18.00	49.10	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.462115	0.061823	0.181510	0.153742	0.057112	0.007288	0.019722	0.042680	0.001823	0.001665	0.006988	0.000686	0.002845

5.0 Energy Detail

2.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	429.0869	429.0869	0.0211	4.3600e-003	430.8816
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	450.0592	450.0592	0.0221	4.5700e-003	451.9416
NaturalGas Mitigated	0.0240	0.2051	0.0873	1.3100e-003		0.0166	0.0166		0.0166	0.0166	0.0000	237.5648	237.5648	4.5500e-003	4.3600e-003	239.0106
NaturalGas Unmitigated	0.0392	0.3348	0.1425	2.1400e-003		0.0271	0.0271		0.0271	0.0271	0.0000	387.7574	387.7574	7.4300e-003	7.1100e-003	390.1173

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	tons/yr										MT/yr						
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other 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	0.0000
Single Family Housing	7.2663e+006	0.0392	0.3348	0.1425	2.1400e-003		0.0271	0.0271		0.0271	0.0271	0.0000	387.7574	387.7574	7.4300e-003	7.1100e-003	390.1173	
User Defined Residential	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		0.0392	0.3348	0.1425	2.1400e-003		0.0271	0.0271		0.0271	0.0271	0.0000	387.7574	387.7574	7.4300e-003	7.1100e-003	390.1173	

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other 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
Single Family Housing	4.4518e+006	0.0240	0.2051	0.0873	1.3100e-003		0.0166	0.0166		0.0166	0.0166	0.0000	237.5648	237.5648	4.5500e-003	4.3600e-003	239.0106
User Defined Residential	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		0.0240	0.2051	0.0873	1.3100e-003		0.0166	0.0166		0.0166	0.0166	0.0000	237.5648	237.5648	4.5500e-003	4.3600e-003	239.0106

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.68083e+006	450.0592	0.0221	4.5700e-003	451.9416
User Defined Residential	0	0.0000	0.0000	0.0000	0.0000
Total		450.0592	0.0221	4.5700e-003	451.9416

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.60251e+006	429.0869	0.0211	4.3600e-003	430.8816
User Defined Residential	0	0.0000	0.0000	0.0000	0.0000
Total		429.0869	0.0211	4.3600e-003	430.8816

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.7352	0.0219	1.8853	1.0000e-004		0.0204	0.0204		0.0203	0.0203	0.0000	147.9843	147.9843	5.8100e-003	2.6600e-003	148.9299
Unmitigated	5.7352	0.0219	1.8853	1.0000e-004		0.0204	0.0204		0.0203	0.0203	0.0000	147.9843	147.9843	5.8100e-003	2.6600e-003	148.9299

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.7430					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.9195					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0146	0.0000	8.0000e-004	0.0000		0.0101	0.0101		0.0100	0.0100	0.0000	144.9276	144.9276	2.7800e-003	2.6600e-003	145.8096
Landscaping	0.0581	0.0219	1.8845	1.0000e-004		0.0103	0.0103		0.0103	0.0103	0.0000	3.0567	3.0567	3.0300e-003	0.0000	3.1203
Total	5.7352	0.0219	1.8853	1.0000e-004		0.0204	0.0204		0.0203	0.0203	0.0000	147.9843	147.9843	5.8100e-003	2.6600e-003	148.9299

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.7430					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.9195					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0146	0.0000	8.0000e-004	0.0000		0.0101	0.0101		0.0100	0.0100	0.0000	144.9276	144.9276	2.7800e-003	2.6600e-003	145.8096
Landscaping	0.0581	0.0219	1.8845	1.0000e-004		0.0103	0.0103		0.0103	0.0103	0.0000	3.0567	3.0567	3.0300e-003	0.0000	3.1203
Total	5.7352	0.0219	1.8853	1.0000e-004		0.0204	0.0204		0.0203	0.0203	0.0000	147.9843	147.9843	5.8100e-003	2.6600e-003	148.9299

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	55.6161	0.0282	0.0169	61.4488
Unmitigated	55.6161	0.0284	0.0169	61.4608

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 4.76593	4.4664	2.2000e-004	5.0000e-005	4.4851
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	21.3705 / 13.4727	51.1497	0.0282	0.0169	56.9757
User Defined Residential	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		55.6161	0.0284	0.0169	61.4608

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 4.76593	4.4664	2.2000e-004	5.0000e-005	4.4851
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	21.3705 / 13.4727	51.1497	0.0280	0.0169	56.9636
User Defined Residential	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		55.6161	0.0282	0.0169	61.4488

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	47.4025	2.8014	0.0000	106.2319
Unmitigated	47.4025	2.8014	0.0000	106.2319

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.34	0.0690	4.0800e-003	0.0000	0.1547
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	233.18	47.3334	2.7973	0.0000	106.0773
User Defined Residential	0	0.0000	0.0000	0.0000	0.0000
Total		47.4025	2.8014	0.0000	106.2319

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.34	0.0690	4.0800e-003	0.0000	0.1547
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	233.18	47.3334	2.7973	0.0000	106.0773
User Defined Residential	0	0.0000	0.0000	0.0000	0.0000
Total		47.4025	2.8014	0.0000	106.2319

9.0 Operational Offroad

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

ALTERNATIVE 3

Building Construction Phase 1

- ◆ **Winter**
- ◆ **Annual**

McKinley Village Bldg Phase 1 Sacramento Valley Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	113.00	Dwelling Unit	22.00	203,400.00	226

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	65
Climate Zone	6			Operational Year	2018
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	590.31	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 - city's population per household (per census) is 2.0; lot acreage reflects 1/3 of overall site size

Construction Phase - per applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Trips and VMT - applicant construction data

Construction Off-road Equipment Mitigation -

Grading -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	0.00	1,250.00

tblArchitecturalCoating	ConstArea_Nonresidential_Interior	0.00	3,750.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	114,210.00	133,650.00
tblArchitecturalCoating	ConstArea_Residential_Interior	342,630.00	400,950.00
tblAreaCoating	Area_Nonresidential_Interior	0	3750
tblAreaCoating	Area_Residential_Exterior	114210	133650
tblAreaCoating	Area_Residential_Interior	342630	400950
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstructionPhase	NumDays	20.00	240.00
tblConstructionPhase	NumDays	370.00	240.00
tblConstructionPhase	PhaseEndDate	9/30/2016	10/31/2015
tblConstructionPhase	PhaseEndDate	10/30/2015	10/31/2015
tblConstructionPhase	PhaseStartDate	11/1/2015	12/1/2014
tblFireplaces	NumberGas	51.70	60.50

tblFireplaces	NumberNoFireplace	9.40	11.00
tblFireplaces	NumberWood	32.90	38.50
tblLandUse	LotAcreage	36.69	22.00
tblLandUse	Population	323.00	226.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	3.00
tblOffRoadEquipment	UsageHours	8.00	3.00
tblOffRoadEquipment	UsageHours	7.00	3.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	OperationalYear	2014	2018
tblSolidWaste	SolidWasteGenerationRate	95.62	111.97
tblTripsAndVMT	VendorTripNumber	10.00	15.00
tblTripsAndVMT	WorkerTripNumber	34.00	40.00
tblTripsAndVMT	WorkerTripNumber	7.00	8.00
tblWater	IndoorWaterUseRate	6,124,478.41	7,166,942.82
tblWater	OutdoorWaterUseRate	3,861,084.21	4,518,290.04
tblWoodstoves	NumberCatalytic	4.70	5.50
tblWoodstoves	NumberNoncatalytic	4.70	5.50

2.0 Emissions Summary

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	174.6947	2.3929	216.7696	0.0815		29.1870	29.1870		29.1862	29.1862	3,054.8904	1,297.9629	4,352.8533	2.8358	0.2403	4,486.8949
Energy	0.1074	0.9173	0.3904	5.8600e-003		0.0742	0.0742		0.0742	0.0742		1,171.0395	1,171.0395	0.0224	0.0215	1,178.1662
Mobile	13.1929	12.5667	51.6875	0.0979	6.6948	0.1643	6.8591	1.7907	0.1512	1.9419		8,137.7370	8,137.7370	0.3113		8,144.2744
Total	187.9950	15.8770	268.8475	0.1853	6.6948	29.4254	36.1202	1.7907	29.4115	31.2023	3,054.8904	10,606.7394	13,661.6297	3.1695	0.2618	13,809.3355

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	174.6947	2.3929	216.7696	0.0815		29.1870	29.1870		29.1862	29.1862	3,054.8904	1,297.9629	4,352.8533	2.8358	0.2403	4,486.8949
Energy	0.1074	0.9173	0.3904	5.8600e-003		0.0742	0.0742		0.0742	0.0742		1,171.0395	1,171.0395	0.0224	0.0215	1,178.1662
Mobile	13.1929	12.5667	51.6875	0.0979	6.6948	0.1643	6.8591	1.7907	0.1512	1.9419		8,137.7370	8,137.7370	0.3113		8,144.2744
Total	187.9950	15.8770	268.8475	0.1853	6.6948	29.4254	36.1202	1.7907	29.4115	31.2023	3,054.8904	10,606.7394	13,661.6297	3.1695	0.2618	13,809.3355

	ROG	NOx	CO	SO2	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	Building Construction	Building Construction	12/1/2014	10/31/2015	5	240	
2	Architectural Coating	Architectural Coating	12/1/2014	10/31/2015	5	240	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 400,950; Residential Outdoor: 133,650; Non-Residential Indoor: 3,750; Non-Residential Outdoor: 1,250 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	3.00	226	0.29
Building Construction	Forklifts	4	3.00	89	0.20
Building Construction	Generator Sets	4	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	4	3.00	97	0.37
Building Construction	Welders	3	4.00	46	0.45
Architectural Coating	Air Compressors	12	8.00	78	0.48
Architectural Coating	Cement and Mortar Mixers	4	6.00	9	0.56
Architectural Coating	Pressure Washers	2	4.00	13	0.30

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
Building Construction	16	40.00	15.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	18	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Oxidation Catalyst for Construction Equipment

3.2 Building Construction - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	5.4155	37.4088	25.3737	0.0392		2.7900	2.7900		2.7225	2.7225		3,767.3720	3,767.3720	0.6636		3,781.3068
Total	5.4155	37.4088	25.3737	0.0392		2.7900	2.7900		2.7225	2.7225		3,767.3720	3,767.3720	0.6636		3,781.3068

3.2 Building Construction - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.6764	1.9277	3.5278	3.5800e-003	0.0995	0.0364	0.1358	0.0284	0.0334	0.0618		362.8787	362.8787	3.6500e-003			362.9553
Worker	0.8833	0.2717	2.5646	3.7000e-003	0.3286	2.8200e-003	0.3314	0.0872	2.5600e-003	0.0897		326.5620	326.5620	0.0211			327.0056
Total	1.5597	2.1995	6.0924	7.2800e-003	0.4281	0.0392	0.4672	0.1155	0.0359	0.1515		689.4407	689.4407	0.0248			689.9609

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	5.4155	29.9270	25.3737	0.0392		2.7900	2.7900		2.7225	2.7225	0.0000	3,767.3720	3,767.3720	0.6636			3,781.3068
Total	5.4155	29.9270	25.3737	0.0392		2.7900	2.7900		2.7225	2.7225	0.0000	3,767.3720	3,767.3720	0.6636			3,781.3068

3.2 Building Construction - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.6764	1.9277	3.5278	3.5800e-003	0.0995	0.0364	0.1358	0.0284	0.0334	0.0618		362.8787	362.8787	3.6500e-003			362.9553
Worker	0.8833	0.2717	2.5646	3.7000e-003	0.3286	2.8200e-003	0.3314	0.0872	2.5600e-003	0.0897		326.5620	326.5620	0.0211			327.0056
Total	1.5597	2.1995	6.0924	7.2800e-003	0.4281	0.0392	0.4672	0.1155	0.0359	0.1515		689.4407	689.4407	0.0248			689.9609

3.2 Building Construction - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	4.9748	35.2737	25.0920	0.0392		2.5721	2.5721		2.5069	2.5069		3,757.2695	3,757.2695	0.6235			3,770.3622
Total	4.9748	35.2737	25.0920	0.0392		2.5721	2.5721		2.5069	2.5069		3,757.2695	3,757.2695	0.6235			3,770.3622

3.2 Building Construction - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.5662	1.6501	3.2222	3.5600e-003	0.0995	0.0276	0.1271	0.0284	0.0254	0.0537		358.0233	358.0233	3.1600e-003			358.0896
Worker	0.7994	0.2391	2.2413	3.6900e-003	0.3286	2.6000e-003	0.3312	0.0872	2.3700e-003	0.0895		314.9164	314.9164	0.0190			315.3142
Total	1.3656	1.8892	5.4635	7.2500e-003	0.4281	0.0302	0.4583	0.1155	0.0277	0.1433		672.9397	672.9397	0.0221			673.4038

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	4.9748	28.2190	25.0920	0.0392		2.5721	2.5721		2.5069	2.5069	0.0000	3,757.2695	3,757.2695	0.6235			3,770.3622
Total	4.9748	28.2190	25.0920	0.0392		2.5721	2.5721		2.5069	2.5069	0.0000	3,757.2695	3,757.2695	0.6235			3,770.3622

3.2 Building Construction - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.5662	1.6501	3.2222	3.5600e-003	0.0995	0.0276	0.1271	0.0284	0.0254	0.0537		358.0233	358.0233	3.1600e-003			358.0896
Worker	0.7994	0.2391	2.2413	3.6900e-003	0.3286	2.6000e-003	0.3312	0.0872	2.3700e-003	0.0895		314.9164	314.9164	0.0190			315.3142
Total	1.3656	1.8892	5.4635	7.2500e-003	0.4281	0.0302	0.4583	0.1155	0.0277	0.1433		672.9397	672.9397	0.0221			673.4038

3.3 Architectural Coating - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	26.0526					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	7.3709	45.9244	31.9261	0.0502		3.9901	3.9901		3.9901	3.9901		4,693.8077	4,693.8077	0.6627			4,707.7235
Total	33.4235	45.9244	31.9261	0.0502		3.9901	3.9901		3.9901	3.9901		4,693.8077	4,693.8077	0.6627			4,707.7235

3.3 Architectural Coating - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.1767	0.0544	0.5129	7.4000e-004	0.0657	5.6000e-004	0.0663	0.0174	5.1000e-004	0.0179		65.3124	65.3124	4.2200e-003			65.4011
Total	0.1767	0.0544	0.5129	7.4000e-004	0.0657	5.6000e-004	0.0663	0.0174	5.1000e-004	0.0179		65.3124	65.3124	4.2200e-003			65.4011

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	26.0526					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	7.3709	36.7395	31.9261	0.0502		3.9901	3.9901		3.9901	3.9901	0.0000	4,693.8077	4,693.8077	0.6627			4,707.7235
Total	33.4235	36.7395	31.9261	0.0502		3.9901	3.9901		3.9901	3.9901	0.0000	4,693.8077	4,693.8077	0.6627			4,707.7235

3.3 Architectural Coating - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.1767	0.0544	0.5129	7.4000e-004	0.0657	5.6000e-004	0.0663	0.0174	5.1000e-004	0.0179		65.3124	65.3124	4.2200e-003			65.4011
Total	0.1767	0.0544	0.5129	7.4000e-004	0.0657	5.6000e-004	0.0663	0.0174	5.1000e-004	0.0179		65.3124	65.3124	4.2200e-003			65.4011

3.3 Architectural Coating - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	26.0526					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Off-Road	6.7337	42.5904	31.6046	0.0502		3.5989	3.5989		3.5989	3.5989		4,693.8080	4,693.8080	0.6067			4,706.5490
Total	32.7863	42.5904	31.6046	0.0502		3.5989	3.5989		3.5989	3.5989		4,693.8080	4,693.8080	0.6067			4,706.5490

3.3 Architectural Coating - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.1599	0.0478	0.4483	7.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.7000e-004	0.0179		62.9833	62.9833	3.7900e-003			63.0629
Total	0.1599	0.0478	0.4483	7.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.7000e-004	0.0179		62.9833	62.9833	3.7900e-003			63.0629

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	26.0526					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Off-Road	6.7337	34.0723	31.6046	0.0502		3.5989	3.5989		3.5989	3.5989	0.0000	4,693.8080	4,693.8080	0.6067			4,706.5490
Total	32.7863	34.0723	31.6046	0.0502		3.5989	3.5989		3.5989	3.5989	0.0000	4,693.8080	4,693.8080	0.6067			4,706.5490

3.3 Architectural Coating - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.1599	0.0478	0.4483	7.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.7000e-004	0.0179		62.9833	62.9833	3.7900e-003			63.0629
Total	0.1599	0.0478	0.4483	7.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.7000e-004	0.0179		62.9833	62.9833	3.7900e-003			63.0629

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					
Mitigated	13.1929	12.5667	51.6875	0.0979	6.6948	0.1643	6.8591	1.7907	0.1512	1.9419		8,137.7370	8,137.7370	0.3113		8,144.2744
Unmitigated	13.1929	12.5667	51.6875	0.0979	6.6948	0.1643	6.8591	1.7907	0.1512	1.9419		8,137.7370	8,137.7370	0.3113		8,144.2744

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	1,081.41	1,139.04	991.01	2,975,079	2,975,079
Total	1,081.41	1,139.04	991.01	2,975,079	2,975,079

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
Single Family Housing	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.462115	0.061823	0.181510	0.153742	0.057112	0.007288	0.019722	0.042680	0.001823	0.001665	0.006988	0.000686	0.002845

5.0 Energy Detail

4.4 Fleet Mix

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					
NaturalGas Mitigated	0.1074	0.9173	0.3904	5.8600e-003		0.0742	0.0742		0.0742	0.0742		1,171.0395	1,171.0395	0.0224	0.0215	1,178.1662
NaturalGas Unmitigated	0.1074	0.9173	0.3904	5.8600e-003		0.0742	0.0742		0.0742	0.0742		1,171.0395	1,171.0395	0.0224	0.0215	1,178.1662

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	9953.84	0.1074	0.9173	0.3904	5.8600e-003		0.0742	0.0742		0.0742	0.0742		1,171.0395	1,171.0395	0.0224	0.0215	1,178.1662
Total		0.1074	0.9173	0.3904	5.8600e-003		0.0742	0.0742		0.0742	0.0742		1,171.0395	1,171.0395	0.0224	0.0215	1,178.1662

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	9.95384	0.1074	0.9173	0.3904	5.8600e-003		0.0742	0.0742		0.0742	0.0742		1,171.0395	1,171.0395	0.0224	0.0215	1,178.1662
Total		0.1074	0.9173	0.3904	5.8600e-003		0.0742	0.0742		0.0742	0.0742		1,171.0395	1,171.0395	0.0224	0.0215	1,178.1662

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					
Mitigated	174.6947	2.3929	216.7696	0.0815		29.1870	29.1870		29.1862	29.1862	3,054.8904	1,297.9629	4,352.8533	2.8358	0.2403	4,486.8949
Unmitigated	174.6947	2.3929	216.7696	0.0815		29.1870	29.1870		29.1862	29.1862	3,054.8904	1,297.9629	4,352.8533	2.8358	0.2403	4,486.8949

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.7091					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.3528					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	168.3435	2.2840	207.3811	0.0810		29.1358	29.1358		29.1349	29.1349	3,054.8904	1,281.1765	4,336.0669	2.8192	0.2403	4,469.7591
Landscaping	0.2894	0.1090	9.3886	4.9000e-004		0.0512	0.0512		0.0512	0.0512		16.7864	16.7864	0.0166		17.1358
Total	174.6947	2.3929	216.7696	0.0815		29.1870	29.1870		29.1862	29.1862	3,054.8904	1,297.9629	4,352.8533	2.8358	0.2403	4,486.8949

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.7091					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.3528					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	168.3435	2.2840	207.3811	0.0810		29.1358	29.1358		29.1349	29.1349	3,054.8904	1,281.1765	4,336.0669	2.8192	0.2403	4,469.7591
Landscaping	0.2894	0.1090	9.3886	4.9000e-004		0.0512	0.0512		0.0512	0.0512		16.7864	16.7864	0.0166		17.1358
Total	174.6947	2.3929	216.7696	0.0815		29.1870	29.1870		29.1862	29.1862	3,054.8904	1,297.9629	4,352.8533	2.8358	0.2403	4,486.8949

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 Vegetation

McKinley Village Bldg Phase 1 Sacramento Valley Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	113.00	Dwelling Unit	22.00	203,400.00	226

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	65
Climate Zone	6			Operational Year	2018
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	590.31	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 - city's population per household (per census) is 2.0; lot acreage reflects 1/3 of overall site size

Construction Phase - per applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Trips and VMT - applicant construction data

Construction Off-road Equipment Mitigation -

Grading -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	0.00	1,250.00

tblArchitecturalCoating	ConstArea_Nonresidential_Interior	0.00	3,750.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	114,210.00	133,650.00
tblArchitecturalCoating	ConstArea_Residential_Interior	342,630.00	400,950.00
tblAreaCoating	Area_Nonresidential_Interior	0	3750
tblAreaCoating	Area_Residential_Exterior	114210	133650
tblAreaCoating	Area_Residential_Interior	342630	400950
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstructionPhase	NumDays	20.00	240.00
tblConstructionPhase	NumDays	370.00	240.00
tblConstructionPhase	PhaseEndDate	9/30/2016	10/31/2015
tblConstructionPhase	PhaseEndDate	10/30/2015	10/31/2015
tblConstructionPhase	PhaseStartDate	11/1/2015	12/1/2014
tblFireplaces	NumberGas	51.70	60.50

tblFireplaces	NumberNoFireplace	9.40	11.00
tblFireplaces	NumberWood	32.90	38.50
tblLandUse	LotAcreage	36.69	22.00
tblLandUse	Population	323.00	226.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	3.00
tblOffRoadEquipment	UsageHours	8.00	3.00
tblOffRoadEquipment	UsageHours	7.00	3.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	OperationalYear	2014	2018
tblSolidWaste	SolidWasteGenerationRate	95.62	111.97
tblTripsAndVMT	VendorTripNumber	10.00	15.00
tblTripsAndVMT	WorkerTripNumber	34.00	40.00
tblTripsAndVMT	WorkerTripNumber	7.00	8.00
tblWater	IndoorWaterUseRate	6,124,478.41	7,166,942.82
tblWater	OutdoorWaterUseRate	3,861,084.21	4,518,290.04
tblWoodstoves	NumberCatalytic	4.70	5.50
tblWoodstoves	NumberNoncatalytic	4.70	5.50

2.0 Emissions Summary

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	8.0344	0.1035	9.3476	3.3700e-003		1.1992	1.1992		1.1991	1.1991	113.6254	49.0234	162.6487	0.1062	8.9400e-003	167.6499
Energy	0.0196	0.1674	0.0712	1.0700e-003		0.0135	0.0135		0.0135	0.0135	0.0000	418.9083	418.9083	0.0148	5.8400e-003	421.0294
Mobile	2.0082	2.0608	7.9167	0.0172	1.1080	0.0281	1.1362	0.2973	0.0259	0.3232	0.0000	1,294.110 2	1,294.110 2	0.0485	0.0000	1,295.128 5
Waste						0.0000	0.0000		0.0000	0.0000	22.7289	0.0000	22.7289	1.3432	0.0000	50.9369
Water						0.0000	0.0000		0.0000	0.0000	2.2737	14.6182	16.8919	0.2343	5.6600e-003	23.5667
Total	10.0622	2.3317	17.3355	0.0216	1.1080	1.2409	2.3489	0.2973	1.2386	1.5359	138.6280	1,776.660 1	1,915.288 1	1.7470	0.0204	1,958.311 4

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	8.0344	0.1035	9.3476	3.3700e-003		1.1992	1.1992		1.1991	1.1991	113.6254	49.0234	162.6487	0.1062	8.9400e-003	167.6499
Energy	0.0196	0.1674	0.0712	1.0700e-003		0.0135	0.0135		0.0135	0.0135	0.0000	418.9083	418.9083	0.0148	5.8400e-003	421.0294
Mobile	2.0082	2.0608	7.9167	0.0172	1.1080	0.0281	1.1362	0.2973	0.0259	0.3232	0.0000	1,294.1102	1,294.1102	0.0485	0.0000	1,295.1285
Waste						0.0000	0.0000		0.0000	0.0000	22.7289	0.0000	22.7289	1.3432	0.0000	50.9369
Water						0.0000	0.0000		0.0000	0.0000	2.2737	14.6182	16.8919	0.2342	5.6500e-003	23.5631
Total	10.0622	2.3317	17.3355	0.0216	1.1080	1.2409	2.3489	0.2973	1.2386	1.5359	138.6280	1,776.6601	1,915.2881	1.7469	0.0204	1,958.3078

	ROG	NOx	CO	SO2	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	0.05	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	Building Construction	Building Construction	12/1/2014	10/31/2015	5	240	
2	Architectural Coating	Architectural Coating	12/1/2014	10/31/2015	5	240	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 400,950; Residential Outdoor: 133,650; Non-Residential Indoor: 3,750; Non-Residential Outdoor: 1,250 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	3.00	226	0.29
Building Construction	Forklifts	4	3.00	89	0.20
Building Construction	Generator Sets	4	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	4	3.00	97	0.37
Building Construction	Welders	3	4.00	46	0.45
Architectural Coating	Air Compressors	12	8.00	78	0.48
Architectural Coating	Cement and Mortar Mixers	4	6.00	9	0.56
Architectural Coating	Pressure Washers	2	4.00	13	0.30

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
Building Construction	16	40.00	15.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	18	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Oxidation Catalyst for Construction Equipment

3.2 Building Construction - 2014**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0623	0.4302	0.2918	4.5000e-004		0.0321	0.0321		0.0313	0.0313	0.0000	39.3036	39.3036	6.9200e-003	0.0000	39.4490
Total	0.0623	0.4302	0.2918	4.5000e-004		0.0321	0.0321		0.0313	0.0313	0.0000	39.3036	39.3036	6.9200e-003	0.0000	39.4490

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.8700e-003	0.0218	0.0332	4.0000e-005	1.1100e-003	4.1000e-004	1.5200e-003	3.2000e-004	3.8000e-004	7.0000e-004	0.0000	3.8025	3.8025	4.0000e-005	0.0000	3.8033
Worker	8.7900e-003	2.7900e-003	0.0282	4.0000e-005	3.6300e-003	3.0000e-005	3.6700e-003	9.7000e-004	3.0000e-005	1.0000e-003	0.0000	3.5069	3.5069	2.2000e-004	0.0000	3.5115
Total	0.0157	0.0246	0.0614	8.0000e-005	4.7400e-003	4.4000e-004	5.1900e-003	1.2900e-003	4.1000e-004	1.7000e-003	0.0000	7.3094	7.3094	2.6000e-004	0.0000	7.3148

3.2 Building Construction - 2014

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0623	0.3442	0.2918	4.5000e-004		0.0321	0.0321		0.0313	0.0313	0.0000	39.3035	39.3035	6.9200e-003	0.0000	39.4489
Total	0.0623	0.3442	0.2918	4.5000e-004		0.0321	0.0321		0.0313	0.0313	0.0000	39.3035	39.3035	6.9200e-003	0.0000	39.4489

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.8700e-003	0.0218	0.0332	4.0000e-005	1.1100e-003	4.1000e-004	1.5200e-003	3.2000e-004	3.8000e-004	7.0000e-004	0.0000	3.8025	3.8025	4.0000e-005	0.0000	3.8033
Worker	8.7900e-003	2.7900e-003	0.0282	4.0000e-005	3.6300e-003	3.0000e-005	3.6700e-003	9.7000e-004	3.0000e-005	1.0000e-003	0.0000	3.5069	3.5069	2.2000e-004	0.0000	3.5115
Total	0.0157	0.0246	0.0614	8.0000e-005	4.7400e-003	4.4000e-004	5.1900e-003	1.2900e-003	4.1000e-004	1.7000e-003	0.0000	7.3094	7.3094	2.6000e-004	0.0000	7.3148

3.2 Building Construction - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.5398	3.8272	2.7225	4.2600e-003		0.2791	0.2791		0.2720	0.2720	0.0000	369.8263	369.8263	0.0614	0.0000	371.1150
Total	0.5398	3.8272	2.7225	4.2600e-003		0.2791	0.2791		0.2720	0.2720	0.0000	369.8263	369.8263	0.0614	0.0000	371.1150

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0543	0.1760	0.2805	3.9000e-004	0.0104	2.9700e-003	0.0134	2.9900e-003	2.7300e-003	5.7200e-003	0.0000	35.3969	35.3969	3.1000e-004	0.0000	35.4034
Worker	0.0751	0.0232	0.2332	4.1000e-004	0.0343	2.8000e-004	0.0346	9.1200e-003	2.6000e-004	9.3800e-003	0.0000	31.9092	31.9092	1.8600e-003	0.0000	31.9484
Total	0.1293	0.1992	0.5137	8.0000e-004	0.0447	3.2500e-003	0.0480	0.0121	2.9900e-003	0.0151	0.0000	67.3062	67.3062	2.1700e-003	0.0000	67.3518

3.2 Building Construction - 2015

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.5398	3.0618	2.7225	4.2600e-003		0.2791	0.2791		0.2720	0.2720	0.0000	369.8259	369.8259	0.0614	0.0000	371.1146
Total	0.5398	3.0618	2.7225	4.2600e-003		0.2791	0.2791		0.2720	0.2720	0.0000	369.8259	369.8259	0.0614	0.0000	371.1146

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0543	0.1760	0.2805	3.9000e-004	0.0104	2.9700e-003	0.0134	2.9900e-003	2.7300e-003	5.7200e-003	0.0000	35.3969	35.3969	3.1000e-004	0.0000	35.4034
Worker	0.0751	0.0232	0.2332	4.1000e-004	0.0343	2.8000e-004	0.0346	9.1200e-003	2.6000e-004	9.3800e-003	0.0000	31.9092	31.9092	1.8600e-003	0.0000	31.9484
Total	0.1293	0.1992	0.5137	8.0000e-004	0.0447	3.2500e-003	0.0480	0.0121	2.9900e-003	0.0151	0.0000	67.3062	67.3062	2.1700e-003	0.0000	67.3518

3.3 Architectural Coating - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2996					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0848	0.5281	0.3672	5.8000e-004		0.0459	0.0459		0.0459	0.0459	0.0000	48.9687	48.9687	6.9100e-003	0.0000	49.1139
Total	0.3844	0.5281	0.3672	5.8000e-004		0.0459	0.0459		0.0459	0.0459	0.0000	48.9687	48.9687	6.9100e-003	0.0000	49.1139

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7600e-003	5.6000e-004	5.6300e-003	1.0000e-005	7.3000e-004	1.0000e-005	7.3000e-004	1.9000e-004	1.0000e-005	2.0000e-004	0.0000	0.7014	0.7014	4.0000e-005	0.0000	0.7023
Total	1.7600e-003	5.6000e-004	5.6300e-003	1.0000e-005	7.3000e-004	1.0000e-005	7.3000e-004	1.9000e-004	1.0000e-005	2.0000e-004	0.0000	0.7014	0.7014	4.0000e-005	0.0000	0.7023

3.3 Architectural Coating - 2014

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2996					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0848	0.4225	0.3672	5.8000e-004		0.0459	0.0459		0.0459	0.0459	0.0000	48.9687	48.9687	6.9100e-003	0.0000	49.1139
Total	0.3844	0.4225	0.3672	5.8000e-004		0.0459	0.0459		0.0459	0.0459	0.0000	48.9687	48.9687	6.9100e-003	0.0000	49.1139

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7600e-003	5.6000e-004	5.6300e-003	1.0000e-005	7.3000e-004	1.0000e-005	7.3000e-004	1.9000e-004	1.0000e-005	2.0000e-004	0.0000	0.7014	0.7014	4.0000e-005	0.0000	0.7023
Total	1.7600e-003	5.6000e-004	5.6300e-003	1.0000e-005	7.3000e-004	1.0000e-005	7.3000e-004	1.9000e-004	1.0000e-005	2.0000e-004	0.0000	0.7014	0.7014	4.0000e-005	0.0000	0.7023

3.3 Architectural Coating - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.8267					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.7306	4.6211	3.4291	5.4500e-003		0.3905	0.3905		0.3905	0.3905	0.0000	462.0094	462.0094	0.0597	0.0000	463.2635
Total	3.5573	4.6211	3.4291	5.4500e-003		0.3905	0.3905		0.3905	0.3905	0.0000	462.0094	462.0094	0.0597	0.0000	463.2635

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0150	4.6400e-003	0.0466	8.0000e-005	6.8500e-003	6.0000e-005	6.9100e-003	1.8200e-003	5.0000e-005	1.8800e-003	0.0000	6.3819	6.3819	3.7000e-004	0.0000	6.3897
Total	0.0150	4.6400e-003	0.0466	8.0000e-005	6.8500e-003	6.0000e-005	6.9100e-003	1.8200e-003	5.0000e-005	1.8800e-003	0.0000	6.3819	6.3819	3.7000e-004	0.0000	6.3897

3.3 Architectural Coating - 2015

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.8267					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.7306	3.6968	3.4291	5.4500e-003		0.3905	0.3905		0.3905	0.3905	0.0000	462.0088	462.0088	0.0597	0.0000	463.2629
Total	3.5573	3.6968	3.4291	5.4500e-003		0.3905	0.3905		0.3905	0.3905	0.0000	462.0088	462.0088	0.0597	0.0000	463.2629

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0150	4.6400e-003	0.0466	8.0000e-005	6.8500e-003	6.0000e-005	6.9100e-003	1.8200e-003	5.0000e-005	1.8800e-003	0.0000	6.3819	6.3819	3.7000e-004	0.0000	6.3897
Total	0.0150	4.6400e-003	0.0466	8.0000e-005	6.8500e-003	6.0000e-005	6.9100e-003	1.8200e-003	5.0000e-005	1.8800e-003	0.0000	6.3819	6.3819	3.7000e-004	0.0000	6.3897

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.0082	2.0608	7.9167	0.0172	1.1080	0.0281	1.1362	0.2973	0.0259	0.3232	0.0000	1,294.1102	1,294.1102	0.0485	0.0000	1,295,1285
Unmitigated	2.0082	2.0608	7.9167	0.0172	1.1080	0.0281	1.1362	0.2973	0.0259	0.3232	0.0000	1,294.1102	1,294.1102	0.0485	0.0000	1,295,1285

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	1,081.41	1,139.04	991.01	2,975,079	2,975,079
Total	1,081.41	1,139.04	991.01	2,975,079	2,975,079

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
Single Family Housing	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.462115	0.061823	0.181510	0.153742	0.057112	0.007288	0.019722	0.042680	0.001823	0.001665	0.006988	0.000686	0.002845

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	225.0296	225.0296	0.0111	2.2900e-003	225.9708
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	225.0296	225.0296	0.0111	2.2900e-003	225.9708
NaturalGas Mitigated	0.0196	0.1674	0.0712	1.0700e-003		0.0135	0.0135		0.0135	0.0135	0.0000	193.8787	193.8787	3.7200e-003	3.5500e-003	195.0586
NaturalGas Unmitigated	0.0196	0.1674	0.0712	1.0700e-003		0.0135	0.0135		0.0135	0.0135	0.0000	193.8787	193.8787	3.7200e-003	3.5500e-003	195.0586

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	3.63315e+006	0.0196	0.1674	0.0712	1.0700e-003		0.0135	0.0135		0.0135	0.0135	0.0000	193.8787	193.8787	3.7200e-003	3.5500e-003	195.0586
Total		0.0196	0.1674	0.0712	1.0700e-003		0.0135	0.0135		0.0135	0.0135	0.0000	193.8787	193.8787	3.7200e-003	3.5500e-003	195.0586

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	3.63315e+006	0.0196	0.1674	0.0712	1.0700e-003		0.0135	0.0135		0.0135	0.0135	0.0000	193.8787	193.8787	3.7200e-003	3.5500e-003	195.0586
Total		0.0196	0.1674	0.0712	1.0700e-003		0.0135	0.0135		0.0135	0.0135	0.0000	193.8787	193.8787	3.7200e-003	3.5500e-003	195.0586

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	840415	225.0296	0.0111	2.2900e-003	225.9708
Total		225.0296	0.0111	2.2900e-003	225.9708

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	840415	225.0296	0.0111	2.2900e-003	225.9708
Total		225.0296	0.0111	2.2900e-003	225.9708

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	8.0344	0.1035	9.3476	3.3700e-003		1.1992	1.1992		1.1991	1.1991	113.6254	49.0234	162.6487	0.1062	8.9400e-003	167.6499
Unmitigated	8.0344	0.1035	9.3476	3.3700e-003		1.1992	1.1992		1.1991	1.1991	113.6254	49.0234	162.6487	0.1062	8.9400e-003	167.6499

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3119					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7944					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	6.9021	0.0936	8.5026	3.3200e-003		1.1946	1.1946		1.1945	1.1945	113.6254	47.6528	161.2782	0.1049	8.9400e-003	166.2508
Landscaping	0.0261	9.8100e-003	0.8450	4.0000e-005		4.6100e-003	4.6100e-003		4.6100e-003	4.6100e-003	0.0000	1.3706	1.3706	1.3600e-003	0.0000	1.3991
Total	8.0344	0.1035	9.3476	3.3600e-003		1.1992	1.1992		1.1991	1.1991	113.6254	49.0234	162.6487	0.1062	8.9400e-003	167.6499

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3119					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7944					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	6.9021	0.0936	8.5026	3.3200e-003		1.1946	1.1946		1.1945	1.1945	113.6254	47.6528	161.2782	0.1049	8.9400e-003	166.2508
Landscaping	0.0261	9.8100e-003	0.8450	4.0000e-005		4.6100e-003	4.6100e-003		4.6100e-003	4.6100e-003	0.0000	1.3706	1.3706	1.3600e-003	0.0000	1.3991
Total	8.0344	0.1035	9.3476	3.3600e-003		1.1992	1.1992		1.1991	1.1991	113.6254	49.0234	162.6487	0.1062	8.9400e-003	167.6499

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	16.8919	0.2342	5.6500e-003	23.5631
Unmitigated	16.8919	0.2343	5.6600e-003	23.5667

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	7.16694 / 4.51829	16.8919	0.2343	5.6600e-003	23.5667
Total		16.8919	0.2343	5.6600e-003	23.5667

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	7.16694 / 4.51829	16.8919	0.2342	5.6500e-003	23.5631
Total		16.8919	0.2342	5.6500e-003	23.5631

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	22.7289	1.3432	0.0000	50.9369
Unmitigated	22.7289	1.3432	0.0000	50.9369

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	111.97	22.7289	1.3432	0.0000	50.9369
Total		22.7289	1.3432	0.0000	50.9369

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	111.97	22.7289	1.3432	0.0000	50.9369
Total		22.7289	1.3432	0.0000	50.9369

9.0 Operational Offroad

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

ALTERNATIVE 3

Building Construction Phase 2

- ◆ **Winter**
- ◆ **Annual**

McKinley Village Bldg Phase 2 Sacramento Valley Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	113.00	Dwelling Unit	22.00	203,400.00	226

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	65
Climate Zone	6			Operational Year	2018
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - city's population per household (per census) is 2.0; lot acreage reflects slightly less than 1/2 of overall site size

Construction Phase - per applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Trips and VMT - applicant construction data

Construction Off-road Equipment Mitigation -

Architectural Coating -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Interior	0	3750

tblAreaCoating	Area_Residential_Exterior	132435	133650
tblAreaCoating	Area_Residential_Interior	397305	400950
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstructionPhase	NumDays	20.00	260.00
tblConstructionPhase	NumDays	300.00	260.00
tblConstructionPhase	PhaseEndDate	10/27/2017	10/30/2016
tblConstructionPhase	PhaseEndDate	10/28/2016	10/30/2016
tblConstructionPhase	PhaseStartDate	10/31/2016	11/1/2015
tblFireplaces	NumberGas	59.95	60.50
tblFireplaces	NumberNoFireplace	10.90	11.00
tblFireplaces	NumberWood	38.15	38.50
tblLandUse	LotAcreage	36.69	22.00
tblLandUse	Population	323.00	226.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	3.00
tblOffRoadEquipment	UsageHours	8.00	3.00
tblOffRoadEquipment	UsageHours	7.00	3.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	OperationalYear	2014	2018
tblSolidWaste	SolidWasteGenerationRate	110.90	111.97
tblTripsAndVMT	VendorTripNumber	12.00	15.00
tblTripsAndVMT	WorkerTripNumber	39.00	40.00
tblWater	IndoorWaterUseRate	7,101,788.79	7,166,942.82
tblWater	OutdoorWaterUseRate	4,477,214.67	4,518,290.04
tblWoodstoves	NumberCatalytic	5.45	5.50
tblWoodstoves	NumberNoncatalytic	5.45	5.50

2.0 Emissions Summary

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	174.6947	2.3929	216.7696	0.0815		29.1870	29.1870		29.1862	29.1862	3,054.8904	1,297.9629	4,352.8533	2.8358	0.2403	4,486.8949
Energy	0.1074	0.9173	0.3904	5.8600e-003		0.0742	0.0742		0.0742	0.0742		1,171.0395	1,171.0395	0.0224	0.0215	1,178.1662
Mobile	13.1929	12.5667	51.6875	0.0979	6.6948	0.1643	6.8591	1.7907	0.1512	1.9419		8,137.7370	8,137.7370	0.3113		8,144.2744
Total	187.9950	15.8770	268.8475	0.1853	6.6948	29.4254	36.1202	1.7907	29.4115	31.2023	3,054.8904	10,606.7394	13,661.6297	3.1695	0.2618	13,809.3355

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	174.6947	2.3929	216.7696	0.0815		29.1870	29.1870		29.1862	29.1862	3,054.8904	1,297.9629	4,352.8533	2.8358	0.2403	4,486.8949
Energy	0.1074	0.9173	0.3904	5.8600e-003		0.0742	0.0742		0.0742	0.0742		1,171.0395	1,171.0395	0.0224	0.0215	1,178.1662
Mobile	13.1929	12.5667	51.6875	0.0979	6.6948	0.1643	6.8591	1.7907	0.1512	1.9419		8,137.7370	8,137.7370	0.3113		8,144.2744
Total	187.9950	15.8770	268.8475	0.1853	6.6948	29.4254	36.1202	1.7907	29.4115	31.2023	3,054.8904	10,606.7394	13,661.6297	3.1695	0.2618	13,809.3355

	ROG	NOx	CO	SO2	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	Building Construction	Building Construction	11/1/2015	10/30/2016	5	260	
2	Architectural Coating	Architectural Coating	11/1/2015	10/30/2016	5	260	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 397,305; Residential Outdoor: 132,435; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	3.00	226	0.29
Building Construction	Forklifts	4	3.00	89	0.20
Building Construction	Generator Sets	4	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	4	3.00	97	0.37
Building Construction	Welders	3	4.00	46	0.45
Architectural Coating	Air Compressors	12	8.00	78	0.48
Architectural Coating	Cement and Mortar Mixers	4	6.00	9	0.56
Architectural Coating	Pressure Washers	2	4.00	13	0.30

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
Building Construction	16	40.00	15.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	18	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Oxidation Catalyst for Construction Equipment

3.2 Building Construction - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.9748	35.2737	25.0920	0.0392		2.5721	2.5721		2.5069	2.5069		3,757.2695	3,757.2695	0.6235		3,770.3622
Total	4.9748	35.2737	25.0920	0.0392		2.5721	2.5721		2.5069	2.5069		3,757.2695	3,757.2695	0.6235		3,770.3622

3.2 Building Construction - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.5662	1.6501	3.2222	3.5600e-003	0.0995	0.0276	0.1271	0.0284	0.0254	0.0537		358.0233	358.0233	3.1600e-003			358.0896
Worker	0.7994	0.2391	2.2413	3.6900e-003	0.3286	2.6000e-003	0.3312	0.0872	2.3700e-003	0.0895		314.9164	314.9164	0.0190			315.3142
Total	1.3656	1.8892	5.4635	7.2500e-003	0.4281	0.0302	0.4583	0.1155	0.0277	0.1433		672.9397	672.9397	0.0221			673.4038

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	4.9748	28.2190	25.0920	0.0392		2.5721	2.5721		2.5069	2.5069	0.0000	3,757.2695	3,757.2695	0.6235			3,770.3622
Total	4.9748	28.2190	25.0920	0.0392		2.5721	2.5721		2.5069	2.5069	0.0000	3,757.2695	3,757.2695	0.6235			3,770.3622

3.2 Building Construction - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.5662	1.6501	3.2222	3.5600e-003	0.0995	0.0276	0.1271	0.0284	0.0254	0.0537		358.0233	358.0233	3.1600e-003			358.0896
Worker	0.7994	0.2391	2.2413	3.6900e-003	0.3286	2.6000e-003	0.3312	0.0872	2.3700e-003	0.0895		314.9164	314.9164	0.0190			315.3142
Total	1.3656	1.8892	5.4635	7.2500e-003	0.4281	0.0302	0.4583	0.1155	0.0277	0.1433		672.9397	672.9397	0.0221			673.4038

3.2 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	4.5212	33.0540	24.7997	0.0392		2.3342	2.3342		2.2729	2.2729		3,746.7917	3,746.7917	0.5882			3,759.1435
Total	4.5212	33.0540	24.7997	0.0392		2.3342	2.3342		2.2729	2.2729		3,746.7917	3,746.7917	0.5882			3,759.1435

3.2 Building Construction - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.4708	1.4345	2.9667	3.5500e-003	0.0995	0.0232	0.1226	0.0284	0.0213	0.0496		353.5516	353.5516	2.8700e-003			353.6117
Worker	0.7273	0.2120	1.9774	3.7000e-003	0.3286	2.4700e-003	0.3311	0.0872	2.2600e-003	0.0894		303.9990	303.9990	0.0172			304.3603
Total	1.1980	1.6465	4.9440	7.2500e-003	0.4281	0.0256	0.4537	0.1155	0.0235	0.1390		657.5506	657.5506	0.0201			657.9721

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	4.5212	26.4432	24.7997	0.0392		2.3342	2.3342		2.2729	2.2729	0.0000	3,746.7917	3,746.7917	0.5882			3,759.1435
Total	4.5212	26.4432	24.7997	0.0392		2.3342	2.3342		2.2729	2.2729	0.0000	3,746.7917	3,746.7917	0.5882			3,759.1435

3.2 Building Construction - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.4708	1.4345	2.9667	3.5500e-003	0.0995	0.0232	0.1226	0.0284	0.0213	0.0496		353.5516	353.5516	2.8700e-003			353.6117
Worker	0.7273	0.2120	1.9774	3.7000e-003	0.3286	2.4700e-003	0.3311	0.0872	2.2600e-003	0.0894		303.9990	303.9990	0.0172			304.3603
Total	1.1980	1.6465	4.9440	7.2500e-003	0.4281	0.0256	0.4537	0.1155	0.0235	0.1390		657.5506	657.5506	0.0201			657.9721

3.3 Architectural Coating - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	23.6091					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	6.7337	42.5904	31.6046	0.0502		3.5989	3.5989		3.5989	3.5989		4,693.8080	4,693.8080	0.6067			4,706.5490
Total	30.3428	42.5904	31.6046	0.0502		3.5989	3.5989		3.5989	3.5989		4,693.8080	4,693.8080	0.6067			4,706.5490

3.3 Architectural Coating - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.1599	0.0478	0.4483	7.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.7000e-004	0.0179		62.9833	62.9833	3.7900e-003			63.0629
Total	0.1599	0.0478	0.4483	7.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.7000e-004	0.0179		62.9833	62.9833	3.7900e-003			63.0629

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	23.6091					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	6.7337	34.0723	31.6046	0.0502		3.5989	3.5989		3.5989	3.5989	0.0000	4,693.8080	4,693.8080	0.6067			4,706.5490
Total	30.3428	34.0723	31.6046	0.0502		3.5989	3.5989		3.5989	3.5989	0.0000	4,693.8080	4,693.8080	0.6067			4,706.5490

3.3 Architectural Coating - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.1599	0.0478	0.4483	7.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.7000e-004	0.0179		62.9833	62.9833	3.7900e-003			63.0629
Total	0.1599	0.0478	0.4483	7.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.7000e-004	0.0179		62.9833	62.9833	3.7900e-003			63.0629

3.3 Architectural Coating - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	23.6091					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	6.1215	39.4056	31.3169	0.0502		3.2085	3.2085		3.2085	3.2085		4,693.8080	4,693.8080	0.5511			4,705.3813
Total	29.7306	39.4056	31.3169	0.0502		3.2085	3.2085		3.2085	3.2085		4,693.8080	4,693.8080	0.5511			4,705.3813

3.3 Architectural Coating - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1455	0.0424	0.3955	7.4000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		60.7998	60.7998	3.4400e-003		60.8721
Total	0.1455	0.0424	0.3955	7.4000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		60.7998	60.7998	3.4400e-003		60.8721

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	23.6091					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	6.1215	31.5245	31.3169	0.0502		3.2085	3.2085		3.2085	3.2085	0.0000	4,693.8080	4,693.8080	0.5511		4,705.3813
Total	29.7306	31.5245	31.3169	0.0502		3.2085	3.2085		3.2085	3.2085	0.0000	4,693.8080	4,693.8080	0.5511		4,705.3813

3.3 Architectural Coating - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1455	0.0424	0.3955	7.4000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		60.7998	60.7998	3.4400e-003		60.8721
Total	0.1455	0.0424	0.3955	7.4000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		60.7998	60.7998	3.4400e-003		60.8721

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					
Mitigated	13.1929	12.5667	51.6875	0.0979	6.6948	0.1643	6.8591	1.7907	0.1512	1.9419		8,137.7370	8,137.7370	0.3113		8,144.2744
Unmitigated	13.1929	12.5667	51.6875	0.0979	6.6948	0.1643	6.8591	1.7907	0.1512	1.9419		8,137.7370	8,137.7370	0.3113		8,144.2744

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	1,081.41	1,139.04	991.01	2,975,079	2,975,079
Total	1,081.41	1,139.04	991.01	2,975,079	2,975,079

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
Single Family Housing	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.462115	0.061823	0.181510	0.153742	0.057112	0.007288	0.019722	0.042680	0.001823	0.001665	0.006988	0.000686	0.002845

5.0 Energy Detail

4.4 Fleet Mix

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					
NaturalGas Mitigated	0.1074	0.9173	0.3904	5.8600e-003		0.0742	0.0742		0.0742	0.0742		1,171.0395	1,171.0395	0.0224	0.0215	1,178.1662
NaturalGas Unmitigated	0.1074	0.9173	0.3904	5.8600e-003		0.0742	0.0742		0.0742	0.0742		1,171.0395	1,171.0395	0.0224	0.0215	1,178.1662

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	9953.84	0.1074	0.9173	0.3904	5.8600e-003		0.0742	0.0742		0.0742	0.0742		1,171.0395	1,171.0395	0.0224	0.0215	1,178.1662
Total		0.1074	0.9173	0.3904	5.8600e-003		0.0742	0.0742		0.0742	0.0742		1,171.0395	1,171.0395	0.0224	0.0215	1,178.1662

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	9.95384	0.1074	0.9173	0.3904	5.8600e-003		0.0742	0.0742		0.0742	0.0742		1,171.0395	1,171.0395	0.0224	0.0215	1,178.1662
Total		0.1074	0.9173	0.3904	5.8600e-003		0.0742	0.0742		0.0742	0.0742		1,171.0395	1,171.0395	0.0224	0.0215	1,178.1662

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					
Mitigated	174.6947	2.3929	216.7696	0.0815		29.1870	29.1870		29.1862	29.1862	3,054.8904	1,297.9629	4,352.8533	2.8358	0.2403	4,486.8949
Unmitigated	174.6947	2.3929	216.7696	0.0815		29.1870	29.1870		29.1862	29.1862	3,054.8904	1,297.9629	4,352.8533	2.8358	0.2403	4,486.8949

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.7091					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.3528					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	168.3435	2.2840	207.3811	0.0810		29.1358	29.1358		29.1349	29.1349	3,054.8904	1,281.1765	4,336.0669	2.8192	0.2403	4,469.7591
Landscaping	0.2894	0.1090	9.3886	4.9000e-004		0.0512	0.0512		0.0512	0.0512		16.7864	16.7864	0.0166		17.1358
Total	174.6947	2.3929	216.7696	0.0815		29.1870	29.1870		29.1862	29.1862	3,054.8904	1,297.9629	4,352.8533	2.8358	0.2403	4,486.8949

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.7091					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.3528					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	168.3435	2.2840	207.3811	0.0810		29.1358	29.1358		29.1349	29.1349	3,054.8904	1,281.1765	4,336.0669	2.8192	0.2403	4,469.7591
Landscaping	0.2894	0.1090	9.3886	4.9000e-004		0.0512	0.0512		0.0512	0.0512		16.7864	16.7864	0.0166		17.1358
Total	174.6947	2.3929	216.7696	0.0815		29.1870	29.1870		29.1862	29.1862	3,054.8904	1,297.9629	4,352.8533	2.8358	0.2403	4,486.8949

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 Vegetation

McKinley Village Bldg Phase 2 Sacramento Valley Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	113.00	Dwelling Unit	22.00	203,400.00	226

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	65
Climate Zone	6			Operational Year	2018
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	590.31	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 - city's population per household (per census) is 2.0; lot acreage reflects slightly less than 1/2 of overall site size

Construction Phase - per applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Trips and VMT - applicant construction data

Construction Off-road Equipment Mitigation -

Architectural Coating -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Interior	0	3750

tblAreaCoating	Area_Residential_Exterior	132435	133650
tblAreaCoating	Area_Residential_Interior	397305	400950
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstructionPhase	NumDays	20.00	260.00
tblConstructionPhase	NumDays	300.00	260.00
tblConstructionPhase	PhaseEndDate	10/27/2017	10/30/2016
tblConstructionPhase	PhaseEndDate	10/28/2016	10/30/2016
tblConstructionPhase	PhaseStartDate	10/31/2016	11/1/2015
tblFireplaces	NumberGas	59.95	60.50
tblFireplaces	NumberNoFireplace	10.90	11.00
tblFireplaces	NumberWood	38.15	38.50
tblLandUse	LotAcreage	36.69	22.00
tblLandUse	Population	323.00	226.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	3.00
tblOffRoadEquipment	UsageHours	8.00	3.00
tblOffRoadEquipment	UsageHours	7.00	3.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	OperationalYear	2014	2018
tblSolidWaste	SolidWasteGenerationRate	110.90	111.97
tblTripsAndVMT	VendorTripNumber	12.00	15.00
tblTripsAndVMT	WorkerTripNumber	39.00	40.00
tblWater	IndoorWaterUseRate	7,101,788.79	7,166,942.82
tblWater	OutdoorWaterUseRate	4,477,214.67	4,518,290.04
tblWoodstoves	NumberCatalytic	5.45	5.50
tblWoodstoves	NumberNoncatalytic	5.45	5.50

2.0 Emissions Summary

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	8.0344	0.1035	9.3476	3.3700e-003		1.1992	1.1992		1.1991	1.1991	113.6254	49.0234	162.6487	0.1062	8.9400e-003	167.6499
Energy	0.0196	0.1674	0.0712	1.0700e-003		0.0135	0.0135		0.0135	0.0135	0.0000	418.9083	418.9083	0.0148	5.8400e-003	421.0294
Mobile	2.0082	2.0608	7.9167	0.0172	1.1080	0.0281	1.1362	0.2973	0.0259	0.3232	0.0000	1,294.110 2	1,294.110 2	0.0485	0.0000	1,295.128 5
Waste						0.0000	0.0000		0.0000	0.0000	22.7289	0.0000	22.7289	1.3432	0.0000	50.9369
Water						0.0000	0.0000		0.0000	0.0000	2.2737	14.6182	16.8919	0.2343	5.6600e-003	23.5667
Total	10.0622	2.3317	17.3355	0.0216	1.1080	1.2409	2.3489	0.2973	1.2386	1.5359	138.6280	1,776.660 1	1,915.288 1	1.7470	0.0204	1,958.311 4

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	8.0344	0.1035	9.3476	3.3700e-003		1.1992	1.1992		1.1991	1.1991	113.6254	49.0234	162.6487	0.1062	8.9400e-003	167.6499
Energy	0.0196	0.1674	0.0712	1.0700e-003		0.0135	0.0135		0.0135	0.0135	0.0000	418.9083	418.9083	0.0148	5.8400e-003	421.0294
Mobile	2.0082	2.0608	7.9167	0.0172	1.1080	0.0281	1.1362	0.2973	0.0259	0.3232	0.0000	1,294.1102	1,294.1102	0.0485	0.0000	1,295.1285
Waste						0.0000	0.0000		0.0000	0.0000	22.7289	0.0000	22.7289	1.3432	0.0000	50.9369
Water						0.0000	0.0000		0.0000	0.0000	2.2737	14.6182	16.8919	0.2342	5.6500e-003	23.5631
Total	10.0622	2.3317	17.3355	0.0216	1.1080	1.2409	2.3489	0.2973	1.2386	1.5359	138.6280	1,776.6601	1,915.2881	1.7469	0.0204	1,958.3078

	ROG	NOx	CO	SO2	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	0.05	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	Building Construction	Building Construction	11/1/2015	10/30/2016	5	260	
2	Architectural Coating	Architectural Coating	11/1/2015	10/30/2016	5	260	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 397,305; Residential Outdoor: 132,435; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	3.00	226	0.29
Building Construction	Forklifts	4	3.00	89	0.20
Building Construction	Generator Sets	4	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	4	3.00	97	0.37
Building Construction	Welders	3	4.00	46	0.45
Architectural Coating	Air Compressors	12	8.00	78	0.48
Architectural Coating	Cement and Mortar Mixers	4	6.00	9	0.56
Architectural Coating	Pressure Washers	2	4.00	13	0.30

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
Building Construction	16	40.00	15.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	18	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Oxidation Catalyst for Construction Equipment

3.2 Building Construction - 2015**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1095	0.7760	0.5520	8.6000e-004		0.0566	0.0566		0.0552	0.0552	0.0000	74.9878	74.9878	0.0124	0.0000	75.2491
Total	0.1095	0.7760	0.5520	8.6000e-004		0.0566	0.0566		0.0552	0.0552	0.0000	74.9878	74.9878	0.0124	0.0000	75.2491

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0110	0.0357	0.0569	8.0000e-005	2.1200e-003	6.0000e-004	2.7200e-003	6.1000e-004	5.5000e-004	1.1600e-003	0.0000	7.1773	7.1773	6.0000e-005	0.0000	7.1786
Worker	0.0152	4.7000e-003	0.0473	8.0000e-005	6.9500e-003	6.0000e-005	7.0100e-003	1.8500e-003	5.0000e-005	1.9000e-003	0.0000	6.4701	6.4701	3.8000e-004	0.0000	6.4780
Total	0.0262	0.0404	0.1042	1.6000e-004	9.0700e-003	6.6000e-004	9.7300e-003	2.4600e-003	6.0000e-004	3.0600e-003	0.0000	13.6473	13.6473	4.4000e-004	0.0000	13.6566

3.2 Building Construction - 2015

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1095	0.6208	0.5520	8.6000e-004		0.0566	0.0566		0.0552	0.0552	0.0000	74.9877	74.9877	0.0124	0.0000	75.2490
Total	0.1095	0.6208	0.5520	8.6000e-004		0.0566	0.0566		0.0552	0.0552	0.0000	74.9877	74.9877	0.0124	0.0000	75.2490

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0110	0.0357	0.0569	8.0000e-005	2.1200e-003	6.0000e-004	2.7200e-003	6.1000e-004	5.5000e-004	1.1600e-003	0.0000	7.1773	7.1773	6.0000e-005	0.0000	7.1786
Worker	0.0152	4.7000e-003	0.0473	8.0000e-005	6.9500e-003	6.0000e-005	7.0100e-003	1.8500e-003	5.0000e-005	1.9000e-003	0.0000	6.4701	6.4701	3.8000e-004	0.0000	6.4780
Total	0.0262	0.0404	0.1042	1.6000e-004	9.0700e-003	6.6000e-004	9.7300e-003	2.4600e-003	6.0000e-004	3.0600e-003	0.0000	13.6473	13.6473	4.4000e-004	0.0000	13.6566

3.2 Building Construction - 2016**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.4883	3.5698	2.6784	4.2400e-003		0.2521	0.2521		0.2455	0.2455	0.0000	367.0955	367.0955	0.0576	0.0000	368.3057
Total	0.4883	3.5698	2.6784	4.2400e-003		0.2521	0.2521		0.2455	0.2455	0.0000	367.0955	367.0955	0.0576	0.0000	368.3057

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0450	0.1523	0.2525	3.8000e-004	0.0104	2.4800e-003	0.0129	2.9800e-003	2.2800e-003	5.2600e-003	0.0000	34.7946	34.7946	2.8000e-004	0.0000	34.8004
Worker	0.0679	0.0205	0.2056	4.1000e-004	0.0341	2.7000e-004	0.0344	9.0800e-003	2.4000e-004	9.3200e-003	0.0000	30.6626	30.6626	1.6900e-003	0.0000	30.6980
Total	0.1129	0.1728	0.4581	7.9000e-004	0.0445	2.7500e-003	0.0473	0.0121	2.5200e-003	0.0146	0.0000	65.4572	65.4572	1.9700e-003	0.0000	65.4984

3.2 Building Construction - 2016

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.4883	2.8559	2.6784	4.2400e-003		0.2521	0.2521		0.2455	0.2455	0.0000	367.0951	367.0951	0.0576	0.0000	368.3052
Total	0.4883	2.8559	2.6784	4.2400e-003		0.2521	0.2521		0.2455	0.2455	0.0000	367.0951	367.0951	0.0576	0.0000	368.3052

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0450	0.1523	0.2525	3.8000e-004	0.0104	2.4800e-003	0.0129	2.9800e-003	2.2800e-003	5.2600e-003	0.0000	34.7946	34.7946	2.8000e-004	0.0000	34.8004
Worker	0.0679	0.0205	0.2056	4.1000e-004	0.0341	2.7000e-004	0.0344	9.0800e-003	2.4000e-004	9.3200e-003	0.0000	30.6626	30.6626	1.6900e-003	0.0000	30.6980
Total	0.1129	0.1728	0.4581	7.9000e-004	0.0445	2.7500e-003	0.0473	0.0121	2.5200e-003	0.0146	0.0000	65.4572	65.4572	1.9700e-003	0.0000	65.4984

3.3 Architectural Coating - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5194					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1481	0.9370	0.6953	1.1100e-003		0.0792	0.0792		0.0792	0.0792	0.0000	93.6793	93.6793	0.0121	0.0000	93.9336
Total	0.6675	0.9370	0.6953	1.1100e-003		0.0792	0.0792		0.0792	0.0792	0.0000	93.6793	93.6793	0.0121	0.0000	93.9336

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0400e-003	9.4000e-004	9.4600e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.2940	1.2940	8.0000e-005	0.0000	1.2956
Total	3.0400e-003	9.4000e-004	9.4600e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.2940	1.2940	8.0000e-005	0.0000	1.2956

3.3 Architectural Coating - 2015

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5194					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1481	0.7496	0.6953	1.1000e-003		0.0792	0.0792		0.0792	0.0792	0.0000	93.6792	93.6792	0.0121	0.0000	93.9335
Total	0.6675	0.7496	0.6953	1.1000e-003		0.0792	0.0792		0.0792	0.0792	0.0000	93.6792	93.6792	0.0121	0.0000	93.9335

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0400e-003	9.4000e-004	9.4600e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.2940	1.2940	8.0000e-005	0.0000	1.2956
Total	3.0400e-003	9.4000e-004	9.4600e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.2940	1.2940	8.0000e-005	0.0000	1.2956

3.3 Architectural Coating - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.5498					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.6611	4.2558	3.3822	5.4200e-003		0.3465	0.3465		0.3465	0.3465	0.0000	459.8803	459.8803	0.0540	0.0000	461.0142
Total	3.2109	4.2558	3.3822	5.4200e-003		0.3465	0.3465		0.3465	0.3465	0.0000	459.8803	459.8803	0.0540	0.0000	461.0142

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0136	4.0900e-003	0.0411	8.0000e-005	6.8200e-003	5.0000e-005	6.8800e-003	1.8200e-003	5.0000e-005	1.8600e-003	0.0000	6.1325	6.1325	3.4000e-004	0.0000	6.1396
Total	0.0136	4.0900e-003	0.0411	8.0000e-005	6.8200e-003	5.0000e-005	6.8800e-003	1.8200e-003	5.0000e-005	1.8600e-003	0.0000	6.1325	6.1325	3.4000e-004	0.0000	6.1396

3.3 Architectural Coating - 2016

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.5498					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.6611	3.4046	3.3822	5.4200e-003		0.3465	0.3465		0.3465	0.3465	0.0000	459.8798	459.8798	0.0540	0.0000	461.0137
Total	3.2109	3.4046	3.3822	5.4200e-003		0.3465	0.3465		0.3465	0.3465	0.0000	459.8798	459.8798	0.0540	0.0000	461.0137

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0136	4.0900e-003	0.0411	8.0000e-005	6.8200e-003	5.0000e-005	6.8800e-003	1.8200e-003	5.0000e-005	1.8600e-003	0.0000	6.1325	6.1325	3.4000e-004	0.0000	6.1396
Total	0.0136	4.0900e-003	0.0411	8.0000e-005	6.8200e-003	5.0000e-005	6.8800e-003	1.8200e-003	5.0000e-005	1.8600e-003	0.0000	6.1325	6.1325	3.4000e-004	0.0000	6.1396

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.0082	2.0608	7.9167	0.0172	1.1080	0.0281	1.1362	0.2973	0.0259	0.3232	0.0000	1,294.1102	1,294.1102	0.0485	0.0000	1,295,1285
Unmitigated	2.0082	2.0608	7.9167	0.0172	1.1080	0.0281	1.1362	0.2973	0.0259	0.3232	0.0000	1,294.1102	1,294.1102	0.0485	0.0000	1,295,1285

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	1,081.41	1,139.04	991.01	2,975,079	2,975,079
Total	1,081.41	1,139.04	991.01	2,975,079	2,975,079

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
Single Family Housing	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.462115	0.061823	0.181510	0.153742	0.057112	0.007288	0.019722	0.042680	0.001823	0.001665	0.006988	0.000686	0.002845

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	225.0296	225.0296	0.0111	2.2900e-003	225.9708
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	225.0296	225.0296	0.0111	2.2900e-003	225.9708
NaturalGas Mitigated	0.0196	0.1674	0.0712	1.0700e-003		0.0135	0.0135		0.0135	0.0135	0.0000	193.8787	193.8787	3.7200e-003	3.5500e-003	195.0586
NaturalGas Unmitigated	0.0196	0.1674	0.0712	1.0700e-003		0.0135	0.0135		0.0135	0.0135	0.0000	193.8787	193.8787	3.7200e-003	3.5500e-003	195.0586

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	3.63315e+006	0.0196	0.1674	0.0712	1.0700e-003		0.0135	0.0135		0.0135	0.0135	0.0000	193.8787	193.8787	3.7200e-003	3.5500e-003	195.0586
Total		0.0196	0.1674	0.0712	1.0700e-003		0.0135	0.0135		0.0135	0.0135	0.0000	193.8787	193.8787	3.7200e-003	3.5500e-003	195.0586

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	3.63315e+006	0.0196	0.1674	0.0712	1.0700e-003		0.0135	0.0135		0.0135	0.0135	0.0000	193.8787	193.8787	3.7200e-003	3.5500e-003	195.0586
Total		0.0196	0.1674	0.0712	1.0700e-003		0.0135	0.0135		0.0135	0.0135	0.0000	193.8787	193.8787	3.7200e-003	3.5500e-003	195.0586

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	840415	225.0296	0.0111	2.2900e-003	225.9708
Total		225.0296	0.0111	2.2900e-003	225.9708

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	840415	225.0296	0.0111	2.2900e-003	225.9708
Total		225.0296	0.0111	2.2900e-003	225.9708

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	8.0344	0.1035	9.3476	3.3700e-003		1.1992	1.1992		1.1991	1.1991	113.6254	49.0234	162.6487	0.1062	8.9400e-003	167.6499
Unmitigated	8.0344	0.1035	9.3476	3.3700e-003		1.1992	1.1992		1.1991	1.1991	113.6254	49.0234	162.6487	0.1062	8.9400e-003	167.6499

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3119					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7944					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	6.9021	0.0936	8.5026	3.3200e-003		1.1946	1.1946		1.1945	1.1945	113.6254	47.6528	161.2782	0.1049	8.9400e-003	166.2508
Landscaping	0.0261	9.8100e-003	0.8450	4.0000e-005		4.6100e-003	4.6100e-003		4.6100e-003	4.6100e-003	0.0000	1.3706	1.3706	1.3600e-003	0.0000	1.3991
Total	8.0344	0.1035	9.3476	3.3600e-003		1.1992	1.1992		1.1991	1.1991	113.6254	49.0234	162.6487	0.1062	8.9400e-003	167.6499

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3119					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7944					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	6.9021	0.0936	8.5026	3.3200e-003		1.1946	1.1946		1.1945	1.1945	113.6254	47.6528	161.2782	0.1049	8.9400e-003	166.2508
Landscaping	0.0261	9.8100e-003	0.8450	4.0000e-005		4.6100e-003	4.6100e-003		4.6100e-003	4.6100e-003	0.0000	1.3706	1.3706	1.3600e-003	0.0000	1.3991
Total	8.0344	0.1035	9.3476	3.3600e-003		1.1992	1.1992		1.1991	1.1991	113.6254	49.0234	162.6487	0.1062	8.9400e-003	167.6499

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	16.8919	0.2342	5.6500e-003	23.5631
Unmitigated	16.8919	0.2343	5.6600e-003	23.5667

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	7.16694 / 4.51829	16.8919	0.2343	5.6600e-003	23.5667
Total		16.8919	0.2343	5.6600e-003	23.5667

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	7.16694 / 4.51829	16.8919	0.2342	5.6500e-003	23.5631
Total		16.8919	0.2342	5.6500e-003	23.5631

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	22.7289	1.3432	0.0000	50.9369
Unmitigated	22.7289	1.3432	0.0000	50.9369

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	111.97	22.7289	1.3432	0.0000	50.9369
Total		22.7289	1.3432	0.0000	50.9369

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	111.97	22.7289	1.3432	0.0000	50.9369
Total		22.7289	1.3432	0.0000	50.9369

9.0 Operational Offroad

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

ALTERNATIVE 3

Operational Emissions

- ◆ **Winter**
- ◆ **Summer**

McKinley Village
Sacramento Valley Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	11.70	Acre	11.70	509,652.00	0
City Park	2.00	Acre	2.00	87,120.00	0
Single Family Housing	226.00	Dwelling Unit	30.10	406,800.00	452
User Defined Residential	26.00	Dwelling Unit	0.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	65
Climate Zone	6			Operational Year	2018
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - lot acreage, sq ft, and population per Project Description

Construction Phase - phases and schedule per applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - modeling is for operational emissions only

Trips and VMT - vendor trips added to represent water trucks, worker trips modified to match applicant estimates

Grading - project site size

Vehicle Trips - per project traffic study

Woodstoves - per Project Description

Consumer Products - consumer products emissions to be calculated by hand, off-model. The model applies the emission factor to all land uses, even parking and paving, which should not generate any consumer product emissions

Water And Wastewater - all wastewater treated at WWTP

Land Use Change -

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Energy Mitigation - 30% above 2013 Title 24. CEC estimated that 2013 Title 24 would result in 25% energy savings over 2008 Title 24. 30% above 2013 Title 24 is calculated as:

$$1 - [(1-.25) * (1-0.3)] \times 100 = 47.5\% \text{ improvement over 2008 Title 24}$$

Table Name	Column Name	Default Value	New Value
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	124.30	113.00
tblFireplaces	NumberGas	14.30	0.00
tblFireplaces	NumberNoFireplace	22.60	113.00
tblFireplaces	NumberNoFireplace	2.60	26.00
tblFireplaces	NumberWood	79.10	0.00
tblFireplaces	NumberWood	9.10	0.00
tblLandUse	LotAcreage	73.38	30.10
tblLandUse	Population	646.00	452.00

tblLandUse	Population	74.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	WorkerTripNumber	10.00	0.00
tblVehicleTrips	ST_TR	0.00	7.25
tblVehicleTrips	SU_TR	0.00	7.25
tblVehicleTrips	WD_TR	1.59	2.00
tblVehicleTrips	WD_TR	9.57	9.87
tblVehicleTrips	WD_TR	0.00	7.25
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	11.30	0.00
tblWoodstoves	NumberCatalytic	1.30	0.00
tblWoodstoves	NumberNoncatalytic	11.30	0.00
tblWoodstoves	NumberNoncatalytic	1.30	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2014	1.4740	14.1304	9.6904	0.0125	0.0000	1.1100	1.1100	0.0000	1.0212	1.0212	0.0000	1,324.260 3	1,324.260 3	0.3913	0.0000	1,332.478 3
Total	1.4740	14.1304	9.6904	0.0125	0.0000	1.1100	1.1100	0.0000	1.0212	1.0212	0.0000	1,324.260 3	1,324.260 3	0.3913	0.0000	1,332.478 3

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2014	1.4740	14.1304	9.6904	0.0125	0.0000	1.1100	1.1100	0.0000	1.0212	1.0212	0.0000	1,324.260 2	1,324.260 2	0.3913	0.0000	1,332.478 2
Total	1.4740	14.1304	9.6904	0.0125	0.0000	1.1100	1.1100	0.0000	1.0212	1.0212	0.0000	1,324.260 2	1,324.260 2	0.3913	0.0000	1,332.478 2

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	8.1409	0.2430	20.9507	1.1000e-003		0.2658	0.2658		0.2642	0.2642	0.0000	2,430.3794	2,430.3794	0.0830	0.0439	2,445.7217
Energy	0.2147	1.8346	0.7807	0.0117		0.1483	0.1483		0.1483	0.1483		2,342.0790	2,342.0790	0.0449	0.0429	2,356.3325
Mobile	26.7102	25.5048	107.3696	0.1966	13.4078	0.3309	13.7386	3.5863	0.3046	3.8909		16,340.1920	16,340.1920	0.6292		16,353.4056
Total	35.0658	27.5825	129.1010	0.2095	13.4078	0.7450	14.1528	3.5863	0.7171	4.3035	0.0000	21,112.6504	21,112.6504	0.7571	0.0868	21,155.4598

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	8.1409	0.2430	20.9507	1.1000e-003		0.2658	0.2658		0.2642	0.2642	0.0000	2,430.3794	2,430.3794	0.0830	0.0439	2,445.7217
Energy	0.1315	1.1240	0.4783	7.1700e-003		0.0909	0.0909		0.0909	0.0909		1,434.9063	1,434.9063	0.0275	0.0263	1,443.6389
Mobile	25.1855	24.1025	103.5759	0.1841	12.5169	0.3106	12.8274	3.3480	0.2858	3.6339		15,291.4184	15,291.4184	0.5924		15,303.8590
Total	33.4580	25.4696	125.0049	0.1923	12.5169	0.6673	13.1842	3.3480	0.6410	3.9890	0.0000	19,156.7040	19,156.7040	0.7029	0.0702	19,193.2195

	ROG	NOx	CO	SO2	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	4.59	7.66	3.17	8.17	6.64	10.44	6.84	6.64	10.62	7.31	0.00	9.26	9.26	7.16	19.16	9.28

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2014	2/11/2014	5	30	

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 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	0	0.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	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
Site Preparation	4	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.4740	14.1304	9.6904	0.0125		1.1100	1.1100		1.0212	1.0212		1,324.2603	1,324.2603	0.3913		1,332.4783
Total	1.4740	14.1304	9.6904	0.0125	0.0000	1.1100	1.1100	0.0000	1.0212	1.0212		1,324.2603	1,324.2603	0.3913		1,332.4783

Unmitigated Construction Off-Site

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

3.2 Site Preparation - 2014

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.4740	14.1304	9.6904	0.0125		1.1100	1.1100		1.0212	1.0212	0.0000	1,324.260 2	1,324.260 2	0.3913		1,332.478 2
Total	1.4740	14.1304	9.6904	0.0125	0.0000	1.1100	1.1100	0.0000	1.0212	1.0212	0.0000	1,324.260 2	1,324.260 2	0.3913		1,332.478 2

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	25.1855	24.1025	103.5759	0.1841	12.5169	0.3106	12.8274	3.3480	0.2858	3.6339		15,291.41 84	15,291.41 84	0.5924		15,303.85 90
Unmitigated	26.7102	25.5048	107.3696	0.1966	13.4078	0.3309	13.7386	3.5863	0.3046	3.8909		16,340.19 20	16,340.19 20	0.6292		16,353.40 56

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	4.00	3.18	3.18	8,039	7,505
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	2,230.62	2,278.08	1982.02	6,083,970	5,679,719
User Defined Residential	188.50	188.50	188.50		
Total	2,423.12	2,469.76	2,173.70	6,092,009	5,687,225

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3
User Defined Residential	10.80	7.30	7.50	32.90	18.00	49.10	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.462115	0.061823	0.181510	0.153742	0.057112	0.007288	0.019722	0.042680	0.001823	0.001665	0.006988	0.000686	0.002845

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

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
NaturalGas Mitigated	0.1315	1.1240	0.4783	7.1700e-003		0.0909	0.0909		0.0909	0.0909		1,434.9063	1,434.9063	0.0275	0.0263	1,443.6389
NaturalGas Unmitigated	0.2147	1.8346	0.7807	0.0117		0.1483	0.1483		0.1483	0.1483		2,342.0790	2,342.0790	0.0449	0.0429	2,356.3325

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
Other 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
Single Family Housing	19907.7	0.2147	1.8346	0.7807	0.0117		0.1483	0.1483		0.1483	0.1483		2,342.0790	2,342.0790	0.0449	0.0429	2,356.3325	
User Defined Residential	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
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.2147	1.8346	0.7807	0.0117		0.1483	0.1483		0.1483	0.1483		2,342.0790	2,342.0790	0.0449	0.0429	2,356.3325	

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other 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
Single Family Housing	12.1967	0.1315	1.1240	0.4783	7.1700e-003		0.0909	0.0909		0.0909	0.0909		1,434.9063	1,434.9063	0.0275	0.0263	1,443.6389
User Defined Residential	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
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.1315	1.1240	0.4783	7.1700e-003		0.0909	0.0909		0.0909	0.0909		1,434.9063	1,434.9063	0.0275	0.0263	1,443.6389

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					
Mitigated	8.1409	0.2430	20.9507	1.1000e-003		0.2658	0.2658		0.2642	0.2642	0.0000	2,430.3794	2,430.3794	0.0830	0.0439	2,445.7217
Unmitigated	8.1409	0.2430	20.9507	1.1000e-003		0.2658	0.2658		0.2642	0.2642	0.0000	2,430.3794	2,430.3794	0.0830	0.0439	2,445.7217

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	7.2760					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.2194	1.0000e-005	0.0120	0.0000		0.1516	0.1516		0.1500	0.1500	0.0000	2,392.9412	2,392.9412	0.0459	0.0439	2,407.5042
Landscaping	0.6456	0.2430	20.9388	1.1000e-003		0.1143	0.1143		0.1143	0.1143		37.4382	37.4382	0.0371		38.2174
Total	8.1409	0.2430	20.9507	1.1000e-003		0.2658	0.2658		0.2642	0.2642	0.0000	2,430.3794	2,430.3794	0.0830	0.0439	2,445.7217

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	7.2760					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.2194	1.0000e-005	0.0120	0.0000		0.1516	0.1516		0.1500	0.1500	0.0000	2,392.9412	2,392.9412	0.0459	0.0439	2,407.5042
Landscaping	0.6456	0.2430	20.9388	1.1000e-003		0.1143	0.1143		0.1143	0.1143		37.4382	37.4382	0.0371		38.2174
Total	8.1409	0.2430	20.9507	1.1000e-003		0.2658	0.2658		0.2642	0.2642	0.0000	2,430.3794	2,430.3794	0.0830	0.0439	2,445.7217

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 Vegetation

McKinley Village
Sacramento Valley Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	11.70	Acre	11.70	509,652.00	0
City Park	2.00	Acre	2.00	87,120.00	0
Single Family Housing	226.00	Dwelling Unit	30.10	406,800.00	452
User Defined Residential	26.00	Dwelling Unit	0.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	65
Climate Zone	6			Operational Year	2018
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - lot acreage, sq ft, and population per Project Description

Construction Phase - phases and schedule per applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - modeling is for operational emissions only

Trips and VMT - vendor trips added to represent water trucks, worker trips modified to match applicant estimates

Grading - project site size

Vehicle Trips - per project traffic study

Woodstoves - per Project Description

Consumer Products - consumer products emissions to be calculated by hand, off-model. The model applies the emission factor to all land uses, even parking and paving, which should not generate any consumer product emissions

Water And Wastewater - all wastewater treated at WWTP

Land Use Change -

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Energy Mitigation - 30% above 2013 Title 24. CEC estimated that 2013 Title 24 would result in 25% energy savings over 2008 Title 24. 30% above 2013 Title 24 is calculated as:

$$1 - [(1-.25) * (1-0.3)] \times 100 = 47.5\% \text{ improvement over 2008 Title 24}$$

Table Name	Column Name	Default Value	New Value
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	124.30	113.00
tblFireplaces	NumberGas	14.30	0.00
tblFireplaces	NumberNoFireplace	22.60	113.00
tblFireplaces	NumberNoFireplace	2.60	26.00
tblFireplaces	NumberWood	79.10	0.00
tblFireplaces	NumberWood	9.10	0.00
tblLandUse	LotAcreage	73.38	30.10
tblLandUse	Population	646.00	452.00

tblLandUse	Population	74.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	WorkerTripNumber	10.00	0.00
tblVehicleTrips	ST_TR	0.00	7.25
tblVehicleTrips	SU_TR	0.00	7.25
tblVehicleTrips	WD_TR	1.59	2.00
tblVehicleTrips	WD_TR	9.57	9.87
tblVehicleTrips	WD_TR	0.00	7.25
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	11.30	0.00
tblWoodstoves	NumberCatalytic	1.30	0.00
tblWoodstoves	NumberNoncatalytic	11.30	0.00
tblWoodstoves	NumberNoncatalytic	1.30	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2014	1.4740	14.1304	9.6904	0.0125	0.0000	1.1100	1.1100	0.0000	1.0212	1.0212	0.0000	1,324.260 3	1,324.260 3	0.3913	0.0000	1,332.478 3
Total	1.4740	14.1304	9.6904	0.0125	0.0000	1.1100	1.1100	0.0000	1.0212	1.0212	0.0000	1,324.260 3	1,324.260 3	0.3913	0.0000	1,332.478 3

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2014	1.4740	14.1304	9.6904	0.0125	0.0000	1.1100	1.1100	0.0000	1.0212	1.0212	0.0000	1,324.260 2	1,324.260 2	0.3913	0.0000	1,332.478 2
Total	1.4740	14.1304	9.6904	0.0125	0.0000	1.1100	1.1100	0.0000	1.0212	1.0212	0.0000	1,324.260 2	1,324.260 2	0.3913	0.0000	1,332.478 2

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	8.1409	0.2430	20.9507	1.1000e-003		0.2658	0.2658		0.2642	0.2642	0.0000	2,430.3794	2,430.3794	0.0830	0.0439	2,445.7217
Energy	0.2147	1.8346	0.7807	0.0117		0.1483	0.1483		0.1483	0.1483		2,342.0790	2,342.0790	0.0449	0.0429	2,356.3325
Mobile	24.4842	22.7058	96.5065	0.2154	13.4078	0.3288	13.7365	3.5863	0.3026	3.8889		17,815.1535	17,815.1535	0.6283		17,828.3470
Total	32.8398	24.7835	118.2379	0.2282	13.4078	0.7429	14.1507	3.5863	0.7152	4.3015	0.0000	22,587.6119	22,587.6119	0.7561	0.0868	22,630.4011

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	8.1409	0.2430	20.9507	1.1000e-003		0.2658	0.2658		0.2642	0.2642	0.0000	2,430.3794	2,430.3794	0.0830	0.0439	2,445.7217
Energy	0.1315	1.1240	0.4783	7.1700e-003		0.0909	0.0909		0.0909	0.0909		1,434.9063	1,434.9063	0.0275	0.0263	1,443.6389
Mobile	23.1582	21.4701	91.9164	0.2016	12.5169	0.3085	12.8253	3.3480	0.2839	3.6319		16,670.2376	16,670.2376	0.5915		16,682.6580
Total	31.4306	22.8372	113.3454	0.2098	12.5169	0.6652	13.1821	3.3480	0.6390	3.9871	0.0000	20,535.5232	20,535.5232	0.7019	0.0702	20,572.0185

	ROG	NOx	CO	SO2	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	4.29	7.85	4.14	8.05	6.64	10.47	6.85	6.64	10.65	7.31	0.00	9.09	9.09	7.17	19.16	9.10

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2014	2/11/2014	5	30	

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 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	0	0.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	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
Site Preparation	4	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.4740	14.1304	9.6904	0.0125		1.1100	1.1100		1.0212	1.0212		1,324.2603	1,324.2603	0.3913		1,332.4783
Total	1.4740	14.1304	9.6904	0.0125	0.0000	1.1100	1.1100	0.0000	1.0212	1.0212		1,324.2603	1,324.2603	0.3913		1,332.4783

Unmitigated Construction Off-Site

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

3.2 Site Preparation - 2014

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.4740	14.1304	9.6904	0.0125		1.1100	1.1100		1.0212	1.0212	0.0000	1,324.260 2	1,324.260 2	0.3913		1,332.478 2
Total	1.4740	14.1304	9.6904	0.0125	0.0000	1.1100	1.1100	0.0000	1.0212	1.0212	0.0000	1,324.260 2	1,324.260 2	0.3913		1,332.478 2

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	23.1582	21.4701	91.9164	0.2016	12.5169	0.3085	12.8253	3.3480	0.2839	3.6319		16,670.2376	16,670.2376	0.5915		16,682.6580
Unmitigated	24.4842	22.7058	96.5065	0.2154	13.4078	0.3288	13.7365	3.5863	0.3026	3.8889		17,815.1535	17,815.1535	0.6283		17,828.3470

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	4.00	3.18	3.18	8,039	7,505
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	2,230.62	2,278.08	1982.02	6,083,970	5,679,719
User Defined Residential	188.50	188.50	188.50		
Total	2,423.12	2,469.76	2,173.70	6,092,009	5,687,225

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3
User Defined Residential	10.80	7.30	7.50	32.90	18.00	49.10	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.462115	0.061823	0.181510	0.153742	0.057112	0.007288	0.019722	0.042680	0.001823	0.001665	0.006988	0.000686	0.002845

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

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
NaturalGas Mitigated	0.1315	1.1240	0.4783	7.1700e-003		0.0909	0.0909		0.0909	0.0909		1,434.9063	1,434.9063	0.0275	0.0263	1,443.6389
NaturalGas Unmitigated	0.2147	1.8346	0.7807	0.0117		0.1483	0.1483		0.1483	0.1483		2,342.0790	2,342.0790	0.0449	0.0429	2,356.3325

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
Other 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
Single Family Housing	19907.7	0.2147	1.8346	0.7807	0.0117		0.1483	0.1483		0.1483	0.1483		2,342.0790	2,342.0790	0.0449	0.0429	2,356.3325	
User Defined Residential	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
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.2147	1.8346	0.7807	0.0117		0.1483	0.1483		0.1483	0.1483		2,342.0790	2,342.0790	0.0449	0.0429	2,356.3325	

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other 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
Single Family Housing	12.1967	0.1315	1.1240	0.4783	7.1700e-003		0.0909	0.0909		0.0909	0.0909		1,434.9063	1,434.9063	0.0275	0.0263	1,443.6389
User Defined Residential	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
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.1315	1.1240	0.4783	7.1700e-003		0.0909	0.0909		0.0909	0.0909		1,434.9063	1,434.9063	0.0275	0.0263	1,443.6389

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					
Mitigated	8.1409	0.2430	20.9507	1.1000e-003		0.2658	0.2658		0.2642	0.2642	0.0000	2,430.3794	2,430.3794	0.0830	0.0439	2,445.7217
Unmitigated	8.1409	0.2430	20.9507	1.1000e-003		0.2658	0.2658		0.2642	0.2642	0.0000	2,430.3794	2,430.3794	0.0830	0.0439	2,445.7217

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	7.2760					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.2194	1.0000e-005	0.0120	0.0000		0.1516	0.1516		0.1500	0.1500	0.0000	2,392.9412	2,392.9412	0.0459	0.0439	2,407.5042
Landscaping	0.6456	0.2430	20.9388	1.1000e-003		0.1143	0.1143		0.1143	0.1143		37.4382	37.4382	0.0371		38.2174
Total	8.1409	0.2430	20.9507	1.1000e-003		0.2658	0.2658		0.2642	0.2642	0.0000	2,430.3794	2,430.3794	0.0830	0.0439	2,445.7217

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	7.2760					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.2194	1.0000e-005	0.0120	0.0000		0.1516	0.1516		0.1500	0.1500	0.0000	2,392.9412	2,392.9412	0.0459	0.0439	2,407.5042
Landscaping	0.6456	0.2430	20.9388	1.1000e-003		0.1143	0.1143		0.1143	0.1143		37.4382	37.4382	0.0371		38.2174
Total	8.1409	0.2430	20.9507	1.1000e-003		0.2658	0.2658		0.2642	0.2642	0.0000	2,430.3794	2,430.3794	0.0830	0.0439	2,445.7217

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 Vegetation

ALTERNATIVE 4

Site Preparation and Infrastructure

- ◆ **Winter**
- ◆ **Annual**

McKinley Village
Sacramento Valley Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	11.70	Acre	11.70	509,652.00	0
Parking Lot	40.00	Space	0.36	16,000.00	0
City Park	4.00	Acre	4.00	174,240.00	0
Recreational Swimming Pool	2.00	1000sqft	0.05	2,000.00	0
Single Family Housing	550.00	Dwelling Unit	30.00	990,000.00	1100
User Defined Residential	70.00	Dwelling Unit	0.00	0.00	70
Strip Mall	20.00	1000sqft	1.00	20,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	65
Climate Zone	6			Operational Year	2018
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - lot acreage, sq ft, and population per Project Description

Construction Phase - phases and schedule per applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Trips and VMT - vendor trips added to represent water trucks, worker trips modified to match applicant estimates

Grading - project site size

Vehicle Trips - per project traffic study

Woodstoves - per Project Description

Consumer Products - consumer products emissions to be calculated by hand, off-model. The model applies the emission factor to all land uses, even parking and paving, which should not generate any consumer product emissions

Water And Wastewater - all wastewater treated at WWTP

Land Use Change -

Construction Off-road Equipment Mitigation - 20% NOx reduction for construction fleet applied using oxidation catalyst. basic construction emission control practices implemented per SMAQMD CEQA Handbook

Mobile Land Use Mitigation -

Energy Mitigation - 30% above 2013 Title 24. CEC estimated that 2013 Title 24 would result in 25% energy savings over 2008 Title 24. 30% above 2013 Title 24 is calculated as:

$$1 - [(1-.25) * (1-0.3)] \times 100 = 47.5\% \text{ improvement over 2008 Title 24}$$

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Residential_Exterior	409644	420120
tblAreaCoating	Area_Residential_Interior	1228932	1260360
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	16.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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tblConstructionPhase	PhaseEndDate	3/4/2015	1/30/2015

tblConstructionPhase	PhaseEndDate	1/28/2015	9/30/2014
tblConstructionPhase	PhaseStartDate	1/31/2015	7/1/2014
tblConstructionPhase	PhaseStartDate	8/1/2014	7/1/2014
tblConstructionPhase	PhaseStartDate	11/29/2014	8/1/2014
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tblFireplaces	FireplaceWoodMass	3,078.40	0.00
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tblFireplaces	NumberNoFireplace	4.00	20.00
tblFireplaces	NumberWood	114.80	0.00
tblFireplaces	NumberWood	14.00	0.00
tblGrading	AcresOfGrading	308.00	48.00
tblGrading	AcresOfGrading	10.00	0.00
tblLandUse	LotAcreage	178.57	30.00
tblLandUse	LotAcreage	0.46	1.00
tblLandUse	Population	1,573.00	1,100.00
tblLandUse	Population	200.00	70.00
tblOffRoadEquipment	HorsePower	80.00	97.00
tblOffRoadEquipment	LoadFactor	0.38	0.37
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
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tblOffRoadEquipment	PhaseName		Paving 40th Extension
tblOffRoadEquipment	PhaseName		Utilities/Trenching
tblOffRoadEquipment	PhaseName		Paving Onsite
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tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	15.00	20.00
tblTripsAndVMT	WorkerTripNumber	35.00	27.00
tblVehicleTrips	ST_TR	20.87	41.00
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tblVehicleTrips	SU_TR	26.73	41.00
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tblVehicleTrips	WD_TR	32.93	41.00
tblVehicleTrips	WD_TR	0.00	7.25
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tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
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tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
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tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	16.40	0.00

tblWoodstoves	NumberCatalytic	2.00	0.00
tblWoodstoves	NumberNoncatalytic	16.40	0.00
tblWoodstoves	NumberNoncatalytic	2.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	48.2733	0.5980	51.5400	2.7000e-003		0.5280	0.5280		0.5254	0.5254	0.0000	3,988.5900	3,988.5900	0.1660	0.0714	4,014.2211
Energy	0.5225	4.4648	1.8999	0.0285		0.3610	0.3610		0.3610	0.3610		5,699.7497	5,699.7497	0.1093	0.1045	5,734.4374
Mobile	65.7101	62.7683	265.1671	0.4832	32.9294	0.8134	33.7428	8.8080	0.7487	9.5567		40,147.7037	40,147.7037	1.5476		40,180.2023
Total	114.5058	67.8311	318.6070	0.5144	32.9294	1.7023	34.6317	8.8080	1.6350	10.4430	0.0000	49,836.0434	49,836.0434	1.8228	0.1759	49,928.8608

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	48.2733	0.5980	51.5400	2.7000e-003		0.5280	0.5280		0.5254	0.5254	0.0000	3,988.5900	3,988.5900	0.1660	0.0714	4,014.2211
Energy	0.3201	2.7354	1.1640	0.0175		0.2212	0.2212		0.2212	0.2212		3,492.0285	3,492.0285	0.0669	0.0640	3,513.2804
Mobile	61.9654	59.3242	255.8498	0.4523	30.7414	0.7635	31.5049	8.2228	0.7027	8.9255		37,571.9185	37,571.9185	1.4571		37,602.5185
Total	110.5588	62.6576	308.5538	0.4724	30.7414	1.5126	32.2540	8.2228	1.4492	9.6720	0.0000	45,052.5370	45,052.5370	1.6901	0.1355	45,130.0199

	ROG	NOx	CO	SO2	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	3.45	7.63	3.16	8.15	6.64	11.14	6.87	6.64	11.36	7.38	0.00	9.60	9.60	7.28	23.01	9.61

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	5/1/2014	5/14/2014	5	10	
2	Grading	Grading	5/15/2014	7/31/2014	5	56	
3	UPRR Underpass	Trenching	7/1/2014	1/30/2015	5	154	
4	Paving 40th Extension	Paving	7/1/2014	11/28/2014	5	109	
5	Utilities/Trenching	Trenching	8/1/2014	9/30/2014	5	43	
6	Paving Onsite	Paving	10/1/2014	11/28/2014	5	43	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 48

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Crawler Tractors	2	8.00	208	0.43
Grading	Crawler Tractors	2	8.00	208	0.43
Grading	Graders	1	8.00	174	0.41
Grading	Rollers	3	8.00	97	0.37
Grading	Scrapers	4	8.00	361	0.48
UPRR Underpass	Air Compressors	1	8.00	78	0.48
UPRR Underpass	Cranes	1	3.00	226	0.29
UPRR Underpass	Dumpers/Tenders	2	8.00	16	0.38
UPRR Underpass	Excavators	1	8.00	162	0.38
UPRR Underpass	Tractors/Loaders/Backhoes	1	5.00	97	0.37
Paving 40th Extension	Dumpers/Tenders	4	8.00	16	0.38
Paving 40th Extension	Pavers	1	8.00	125	0.42
Paving 40th Extension	Paving Equipment	1	8.00	130	0.36
Paving 40th Extension	Rollers	1	8.00	80	0.38
Utilities/Trenching	Dumpers/Tenders	2	8.00	16	0.38
Utilities/Trenching	Excavators	2	8.00	162	0.38
Utilities/Trenching	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Utilities/Trenching	Trenchers	1	8.00	80	0.50
Paving Onsite	Dumpers/Tenders	8	8.00	16	0.38
Paving Onsite	Pavers	2	8.00	125	0.42
Paving Onsite	Paving Equipment	2	8.00	130	0.36
Paving Onsite	Rollers	2	8.00	80	0.38

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
Site Preparation	2	5.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	10	25.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
UPRR Underpass	6	20.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving 40th Extension	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Utilities/Trenching	6	15.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving Onsite	14	27.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Oxidation Catalyst for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.4325	19.6788	5.7976	0.0154		0.7605	0.7605		0.6997	0.6997		1,634.3544	1,634.3544	0.4830		1,644.4967
Total	1.4325	19.6788	5.7976	0.0154	0.0000	0.7605	0.7605	0.0000	0.6997	0.6997		1,634.3544	1,634.3544	0.4830		1,644.4967

3.2 Site Preparation - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0902	0.2570	0.4704	4.8000e-004	0.0133	4.8500e-003	0.0181	3.7800e-003	4.4500e-003	8.2300e-003		48.3838	48.3838	4.9000e-004			48.3940
Worker	0.1104	0.0340	0.3206	4.6000e-004	0.0411	3.5000e-004	0.0414	0.0109	3.2000e-004	0.0112		40.8202	40.8202	2.6400e-003			40.8757
Total	0.2006	0.2910	0.7910	9.4000e-004	0.0543	5.2000e-003	0.0595	0.0147	4.7700e-003	0.0194		89.2041	89.2041	3.1300e-003			89.2697

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000	
Off-Road	1.4325	16.7269	5.7976	0.0154		0.7605	0.7605		0.6997	0.6997	0.0000	1,634.3543	1,634.3543	0.4830			1,644.4967
Total	1.4325	16.7269	5.7976	0.0154	0.0000	0.7605	0.7605	0.0000	0.6997	0.6997	0.0000	1,634.3543	1,634.3543	0.4830			1,644.4967

3.2 Site Preparation - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0902	0.2570	0.4704	4.8000e-004	0.0133	4.8500e-003	0.0181	3.7800e-003	4.4500e-003	8.2300e-003		48.3838	48.3838	4.9000e-004			48.3940
Worker	0.1104	0.0340	0.3206	4.6000e-004	0.0411	3.5000e-004	0.0414	0.0109	3.2000e-004	0.0112		40.8202	40.8202	2.6400e-003			40.8757
Total	0.2006	0.2910	0.7910	9.4000e-004	0.0543	5.2000e-003	0.0595	0.0147	4.7700e-003	0.0194		89.2041	89.2041	3.1300e-003			89.2697

3.3 Grading - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					0.9090	0.0000	0.9090	0.0982	0.0000	0.0982			0.0000				0.0000
Off-Road	9.6701	118.9585	65.6563	0.0906		5.3522	5.3522		4.9240	4.9240		9,608.1481	9,608.1481	2.8393			9,667.7737
Total	9.6701	118.9585	65.6563	0.0906	0.9090	5.3522	6.2612	0.0982	4.9240	5.0222		9,608.1481	9,608.1481	2.8393			9,667.7737

3.3 Grading - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0902	0.2570	0.4704	4.8000e-004	0.0133	4.8500e-003	0.0181	3.7800e-003	4.4500e-003	8.2300e-003		48.3838	48.3838	4.9000e-004			48.3940
Worker	0.5520	0.1698	1.6029	2.3100e-003	0.2054	1.7600e-003	0.2071	0.0545	1.6000e-003	0.0561		204.1012	204.1012	0.0132			204.3785
Total	0.6422	0.4269	2.0733	2.7900e-003	0.2186	6.6100e-003	0.2252	0.0583	6.0500e-003	0.0643		252.4851	252.4851	0.0137			252.7725

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					0.4091	0.0000	0.4091	0.0442	0.0000	0.0442			0.0000			0.0000	
Off-Road	9.6701	96.1507	65.6563	0.0906		5.3522	5.3522		4.9240	4.9240	0.0000	9,608.1481	9,608.1481	2.8393			9,667.7737
Total	9.6701	96.1507	65.6563	0.0906	0.4091	5.3522	5.7612	0.0442	4.9240	4.9682	0.0000	9,608.1481	9,608.1481	2.8393			9,667.7737

3.3 Grading - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0902	0.2570	0.4704	4.8000e-004	0.0133	4.8500e-003	0.0181	3.7800e-003	4.4500e-003	8.2300e-003		48.3838	48.3838	4.9000e-004			48.3940
Worker	0.5520	0.1698	1.6029	2.3100e-003	0.2054	1.7600e-003	0.2071	0.0545	1.6000e-003	0.0561		204.1012	204.1012	0.0132			204.3785
Total	0.6422	0.4269	2.0733	2.7900e-003	0.2186	6.6100e-003	0.2252	0.0583	6.0500e-003	0.0643		252.4851	252.4851	0.0137			252.7725

3.4 UPRR Underpass - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.6863	15.3252	9.1898	0.0148		0.9479	0.9479		0.9016	0.9016		1,489.6846	1,489.6846	0.3603			1,497.2510
Total	1.6863	15.3252	9.1898	0.0148		0.9479	0.9479		0.9016	0.9016		1,489.6846	1,489.6846	0.3603			1,497.2510

3.4 UPRR Underpass - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0902	0.2570	0.4704	4.8000e-004	0.0133	4.8500e-003	0.0181	3.7800e-003	4.4500e-003	8.2300e-003		48.3838	48.3838	4.9000e-004			48.3940
Worker	0.4416	0.1359	1.2823	1.8500e-003	0.1643	1.4100e-003	0.1657	0.0436	1.2800e-003	0.0449		163.2810	163.2810	0.0106			163.5028
Total	0.5318	0.3929	1.7527	2.3300e-003	0.1776	6.2600e-003	0.1838	0.0474	5.7300e-003	0.0531		211.6648	211.6648	0.0111			211.8968

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.6863	12.2602	9.1898	0.0148		0.9479	0.9479		0.9016	0.9016	0.0000	1,489.6846	1,489.6846	0.3603			1,497.2510
Total	1.6863	12.2602	9.1898	0.0148		0.9479	0.9479		0.9016	0.9016	0.0000	1,489.6846	1,489.6846	0.3603			1,497.2510

3.4 UPRR Underpass - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0902	0.2570	0.4704	4.8000e-004	0.0133	4.8500e-003	0.0181	3.7800e-003	4.4500e-003	8.2300e-003		48.3838	48.3838	4.9000e-004			48.3940
Worker	0.4416	0.1359	1.2823	1.8500e-003	0.1643	1.4100e-003	0.1657	0.0436	1.2800e-003	0.0449		163.2810	163.2810	0.0106			163.5028
Total	0.5318	0.3929	1.7527	2.3300e-003	0.1776	6.2600e-003	0.1838	0.0474	5.7300e-003	0.0531		211.6648	211.6648	0.0111			211.8968

3.4 UPRR Underpass - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.6116	14.6849	9.1450	0.0148		0.8935	0.8935		0.8488	0.8488		1,479.5121	1,479.5121	0.3554			1,486.9763
Total	1.6116	14.6849	9.1450	0.0148		0.8935	0.8935		0.8488	0.8488		1,479.5121	1,479.5121	0.3554			1,486.9763

3.4 UPRR Underpass - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0755	0.2200	0.4296	4.7000e-004	0.0133	3.6800e-003	0.0170	3.7800e-003	3.3800e-003	7.1700e-003		47.7364	47.7364	4.2000e-004			47.7453
Worker	0.3997	0.1195	1.1206	1.8500e-003	0.1643	1.3000e-003	0.1656	0.0436	1.1800e-003	0.0448		157.4582	157.4582	9.4700e-003			157.6571
Total	0.4752	0.3396	1.5503	2.3200e-003	0.1776	4.9800e-003	0.1825	0.0474	4.5600e-003	0.0519		205.1946	205.1946	9.8900e-003			205.4024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.6116	11.7479	9.1450	0.0148		0.8935	0.8935		0.8488	0.8488	0.0000	1,479.5121	1,479.5121	0.3554			1,486.9763
Total	1.6116	11.7479	9.1450	0.0148		0.8935	0.8935		0.8488	0.8488	0.0000	1,479.5121	1,479.5121	0.3554			1,486.9763

3.4 UPRR Underpass - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0755	0.2200	0.4296	4.7000e-004	0.0133	3.6800e-003	0.0170	3.7800e-003	3.3800e-003	7.1700e-003		47.7364	47.7364	4.2000e-004			47.7453
Worker	0.3997	0.1195	1.1206	1.8500e-003	0.1643	1.3000e-003	0.1656	0.0436	1.1800e-003	0.0448		157.4582	157.4582	9.4700e-003			157.6571
Total	0.4752	0.3396	1.5503	2.3200e-003	0.1776	4.9800e-003	0.1825	0.0474	4.5600e-003	0.0519		205.1946	205.1946	9.8900e-003			205.4024

3.5 Paving 40th Extension - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.4829	14.9443	8.4965	0.0141		0.8119	0.8119		0.7538	0.7538		1,425.5070	1,425.5070	0.3762			1,433.4081
Paving	0.2899					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.7728	14.9443	8.4965	0.0141		0.8119	0.8119		0.7538	0.7538		1,425.5070	1,425.5070	0.3762			1,433.4081

3.5 Paving 40th Extension - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.3975	0.1223	1.1541	1.6600e-003	0.1479	1.2700e-003	0.1491	0.0392	1.1500e-003	0.0404		146.9529	146.9529	9.5100e-003			147.1525
Total	0.3975	0.1223	1.1541	1.6600e-003	0.1479	1.2700e-003	0.1491	0.0392	1.1500e-003	0.0404		146.9529	146.9529	9.5100e-003			147.1525

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.4829	11.9554	8.4965	0.0141		0.8119	0.8119		0.7538	0.7538	0.0000	1,425.5070	1,425.5070	0.3762			1,433.4081
Paving	0.2899					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.7728	11.9554	8.4965	0.0141		0.8119	0.8119		0.7538	0.7538	0.0000	1,425.5070	1,425.5070	0.3762			1,433.4081

3.5 Paving 40th Extension - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.3975	0.1223	1.1541	1.6600e-003	0.1479	1.2700e-003	0.1491	0.0392	1.1500e-003	0.0404		146.9529	146.9529	9.5100e-003			147.1525
Total	0.3975	0.1223	1.1541	1.6600e-003	0.1479	1.2700e-003	0.1491	0.0392	1.1500e-003	0.0404		146.9529	146.9529	9.5100e-003			147.1525

3.6 Utilities/Trenching - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.8517	18.8043	11.9946	0.0179		1.1452	1.1452		1.0570	1.0570		1,860.0139	1,860.0139	0.5272			1,871.0840
Total	1.8517	18.8043	11.9946	0.0179		1.1452	1.1452		1.0570	1.0570		1,860.0139	1,860.0139	0.5272			1,871.0840

3.6 Utilities/Trenching - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0902	0.2570	0.4704	4.8000e-004	0.0133	4.8500e-003	0.0181	3.7800e-003	4.4500e-003	8.2300e-003		48.3838	48.3838	4.9000e-004			48.3940
Worker	0.3312	0.1019	0.9617	1.3900e-003	0.1232	1.0600e-003	0.1243	0.0327	9.6000e-004	0.0336		122.4607	122.4607	7.9200e-003			122.6271
Total	0.4214	0.3589	1.4321	1.8700e-003	0.1365	5.9100e-003	0.1424	0.0365	5.4100e-003	0.0419		170.8446	170.8446	8.4100e-003			171.0211

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.8517	15.0434	11.9946	0.0179		1.1452	1.1452		1.0570	1.0570	0.0000	1,860.0139	1,860.0139	0.5272			1,871.0840
Total	1.8517	15.0434	11.9946	0.0179		1.1452	1.1452		1.0570	1.0570	0.0000	1,860.0139	1,860.0139	0.5272			1,871.0840

3.6 Utilities/Trenching - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0902	0.2570	0.4704	4.8000e-004	0.0133	4.8500e-003	0.0181	3.7800e-003	4.4500e-003	8.2300e-003		48.3838	48.3838	4.9000e-004			48.3940
Worker	0.3312	0.1019	0.9617	1.3900e-003	0.1232	1.0600e-003	0.1243	0.0327	9.6000e-004	0.0336		122.4607	122.4607	7.9200e-003			122.6271
Total	0.4214	0.3589	1.4321	1.8700e-003	0.1365	5.9100e-003	0.1424	0.0365	5.4100e-003	0.0419		170.8446	170.8446	8.4100e-003			171.0211

3.7 Paving Onsite - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.9657	29.8886	16.9929	0.0283		1.6239	1.6239		1.5077	1.5077		2,851.0140	2,851.0140	0.7525			2,866.8162
Paving	0.7348					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	3.7006	29.8886	16.9929	0.0283		1.6239	1.6239		1.5077	1.5077		2,851.0140	2,851.0140	0.7525			2,866.8162

3.7 Paving Onsite - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.5962	0.1834	1.7311	2.5000e-003	0.2218	1.9000e-003	0.2237	0.0588	1.7300e-003	0.0606		220.4293	220.4293	0.0143			220.7288
Total	0.5962	0.1834	1.7311	2.5000e-003	0.2218	1.9000e-003	0.2237	0.0588	1.7300e-003	0.0606		220.4293	220.4293	0.0143			220.7288

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.9657	23.9109	16.9929	0.0283		1.6239	1.6239		1.5077	1.5077	0.0000	2,851.0140	2,851.0140	0.7525			2,866.8162
Paving	0.7348					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	3.7006	23.9109	16.9929	0.0283		1.6239	1.6239		1.5077	1.5077	0.0000	2,851.0140	2,851.0140	0.7525			2,866.8162

3.7 Paving Onsite - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5962	0.1834	1.7311	2.5000e-003	0.2218	1.9000e-003	0.2237	0.0588	1.7300e-003	0.0606		220.4293	220.4293	0.0143		220.7288
Total	0.5962	0.1834	1.7311	2.5000e-003	0.2218	1.9000e-003	0.2237	0.0588	1.7300e-003	0.0606		220.4293	220.4293	0.0143		220.7288

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	61.9654	59.3242	255.8498	0.4523	30.7414	0.7635	31.5049	8.2228	0.7027	8.9255		37,571.91 85	37,571.91 85	1.4571		37,602.51 85
Unmitigated	65.7101	62.7683	265.1671	0.4832	32.9294	0.8134	33.7428	8.8080	0.7487	9.5567		40,147.70 37	40,147.70 37	1.5476		40,180.20 23

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	6.36	6.36	6.36	13,578	12,675
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Recreational Swimming Pool	82.00	82.00	82.00	148,197	138,350
Single Family Housing	5,263.50	5,544.00	4823.50	14,480,474	13,518,316
User Defined Residential	507.50	507.50	507.50		
Total	5,859.36	6,139.86	5,419.36	14,642,249	13,669,342

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9
Single Family Housing	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3
User Defined Residential	10.80	7.30	7.50	32.90	18.00	49.10	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.462115	0.061823	0.181510	0.153742	0.057112	0.007288	0.019722	0.042680	0.001823	0.001665	0.006988	0.000686	0.002845

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.3201	2.7354	1.1640	0.0175		0.2212	0.2212		0.2212	0.2212		3,492.0285	3,492.0285	0.0669	0.0640	3,513.2804
NaturalGas Unmitigated	0.5225	4.4648	1.8999	0.0285		0.3610	0.3610		0.3610	0.3610		5,699.7497	5,699.7497	0.1093	0.1045	5,734.4374

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other 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
Parking Lot	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
Recreational Swimming Pool	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
Single Family Housing	48447.9	0.5225	4.4648	1.8999	0.0285		0.3610	0.3610		0.3610	0.3610		5,699.7497	5,699.7497	0.1093	0.1045	5,734.4374	
User Defined Residential	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		0.5225	4.4648	1.8999	0.0285		0.3610	0.3610		0.3610	0.3610		5,699.7497	5,699.7497	0.1093	0.1045	5,734.4374	

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other 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
Parking Lot	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
Recreational Swimming Pool	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
Single Family Housing	29.6822	0.3201	2.7354	1.1640	0.0175		0.2212	0.2212		0.2212	0.2212		3,492.0285	3,492.0285	0.0669	0.0640	3,513.2804
User Defined Residential	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
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.3201	2.7354	1.1640	0.0175		0.2212	0.2212		0.2212	0.2212		3,492.0285	3,492.0285	0.0669	0.0640	3,513.2804

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					
Mitigated	48.2733	0.5980	51.5400	2.7000e-003		0.5280	0.5280		0.5254	0.5254	0.0000	3,988.5900	3,988.5900	0.1660	0.0714	4,014.2211
Unmitigated	48.2733	0.5980	51.5400	2.7000e-003		0.5280	0.5280		0.5254	0.5254	0.0000	3,988.5900	3,988.5900	0.1660	0.0714	4,014.2211

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	9.6929					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	36.6345					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.3572	2.0000e-005	0.0195	0.0000		0.2468	0.2468		0.2442	0.2442	0.0000	3,896.4706	3,896.4706	0.0747	0.0714	3,920.1839
Landscaping	1.5887	0.5980	51.5206	2.7000e-003		0.2812	0.2812		0.2812	0.2812		92.1194	92.1194	0.0913		94.0372
Total	48.2733	0.5980	51.5400	2.7000e-003		0.5280	0.5280		0.5254	0.5254	0.0000	3,988.5900	3,988.5900	0.1660	0.0714	4,014.2211

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	9.6929					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	36.6345					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.3572	2.0000e-005	0.0195	0.0000		0.2468	0.2468		0.2442	0.2442	0.0000	3,896.4706	3,896.4706	0.0747	0.0714	3,920.1839
Landscaping	1.5887	0.5980	51.5206	2.7000e-003		0.2812	0.2812		0.2812	0.2812		92.1194	92.1194	0.0913		94.0372
Total	48.2733	0.5980	51.5400	2.7000e-003		0.5280	0.5280		0.5254	0.5254	0.0000	3,988.5900	3,988.5900	0.1660	0.0714	4,014.2211

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 Vegetation

McKinley Village
Sacramento Valley Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	11.70	Acre	11.70	509,652.00	0
Parking Lot	40.00	Space	0.36	16,000.00	0
City Park	4.00	Acre	4.00	174,240.00	0
Recreational Swimming Pool	2.00	1000sqft	0.05	2,000.00	0
Single Family Housing	550.00	Dwelling Unit	30.00	990,000.00	1100
User Defined Residential	70.00	Dwelling Unit	0.00	0.00	70
Strip Mall	20.00	1000sqft	1.00	20,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	65
Climate Zone	6			Operational Year	2018
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	590.31	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 - lot acreage, sq ft, and population per Project Description

Construction Phase - phases and schedule per applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Trips and VMT - vendor trips added to represent water trucks, worker trips modified to match applicant estimates

Grading - project site size

Vehicle Trips - per project traffic study

Woodstoves - per Project Description

Consumer Products - consumer products emissions to be calculated by hand, off-model. The model applies the emission factor to all land uses, even parking and paving, which should not generate any consumer product emissions

Water And Wastewater - all wastewater treated at WWTP

Land Use Change -

Construction Off-road Equipment Mitigation - 20% NOx reduction for construction fleet applied using oxidation catalyst. basic construction emission control practices implemented per SMAQMD CEQA Handbook

Mobile Land Use Mitigation -

Energy Mitigation - 30% above 2013 Title 24. CEC estimated that 2013 Title 24 would result in 25% energy savings over 2008 Title 24. 30% above 2013 Title 24 is calculated as:

$$1 - [(1-.25) * (1-0.3)] \times 100 = 47.5\% \text{ improvement over 2008 Title 24}$$

Table Name	Column Name	Default Value	New Value
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
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tblFireplaces	FireplaceWoodMass	3,078.40	0.00
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tblGrading	AcresOfGrading	308.00	48.00
tblGrading	AcresOfGrading	10.00	0.00
tblLandUse	LotAcreage	178.57	30.00
tblLandUse	LotAcreage	0.46	1.00
tblLandUse	Population	1,573.00	1,100.00
tblLandUse	Population	200.00	70.00
tblOffRoadEquipment	HorsePower	80.00	97.00
tblOffRoadEquipment	LoadFactor	0.38	0.37
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
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tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	16.40	0.00

tblWoodstoves	NumberCatalytic	2.00	0.00
tblWoodstoves	NumberNoncatalytic	16.40	0.00
tblWoodstoves	NumberNoncatalytic	2.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	8.6124	0.0538	4.6377	2.4000e-004		0.0354	0.0354		0.0353	0.0353	0.0000	152.4488	152.4488	0.0102	2.6600e-003	153.4874
Energy	0.0954	0.8148	0.3467	5.2000e-003		0.0659	0.0659		0.0659	0.0659	0.0000	2,042.704 3	2,042.704 3	0.0721	0.0285	2,053.044 1
Mobile	10.0278	10.3102	40.4255	0.0848	5.4533	0.1394	5.5926	1.4634	0.1283	1.5917	0.0000	6,389.665 4	6,389.665 4	0.2413	0.0000	6,394.733 2
Waste						0.0000	0.0000		0.0000	0.0000	49.7166	0.0000	49.7166	2.9382	0.0000	111.4180
Water						0.0000	0.0000		0.0000	0.0000	7.6028	48.2945	55.8973	0.0285	0.0170	61.7742
Total	18.7355	11.1789	45.4099	0.0902	5.4533	0.2407	5.6939	1.4634	0.2295	1.6929	57.3193	8,633.113 1	8,690.432 4	3.2903	0.0482	8,774.456 9

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	8.6124	0.0538	4.6377	2.4000e-004		0.0354	0.0354		0.0353	0.0353	0.0000	152.4488	152.4488	0.0102	2.6600e-003	153.4874
Energy	0.0584	0.4992	0.2124	3.1900e-003		0.0404	0.0404		0.0404	0.0404	0.0000	1,626.1527	1,626.1527	0.0626	0.0213	1,634.0545
Mobile	9.4656	9.7462	38.7950	0.0794	5.0909	0.1308	5.2217	1.3662	0.1204	1.4866	0.0000	5,979.9204	5,979.9204	0.2272	0.0000	5,984.6920
Waste						0.0000	0.0000		0.0000	0.0000	49.7166	0.0000	49.7166	2.9382	0.0000	111.4180
Water						0.0000	0.0000		0.0000	0.0000	7.6028	48.2945	55.8973	0.0284	0.0170	61.7621
Total	18.1364	10.2992	43.6451	0.0828	5.0909	0.2066	5.2975	1.3662	0.1961	1.5622	57.3193	7,806.8164	7,864.1357	3.2666	0.0409	7,945.4140

	ROG	NOx	CO	SO2	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	3.20	7.87	3.89	8.24	6.64	14.17	6.96	6.64	14.56	7.72	0.00	9.57	9.51	0.72	15.06	9.45

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	5/1/2014	5/14/2014	5	10	
2	Grading	Grading	5/15/2014	7/31/2014	5	56	
3	UPRR Underpass	Trenching	7/1/2014	1/30/2015	5	154	
4	Paving 40th Extension	Paving	7/1/2014	11/28/2014	5	109	
5	Utilities/Trenching	Trenching	8/1/2014	9/30/2014	5	43	
6	Paving Onsite	Paving	10/1/2014	11/28/2014	5	43	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 48

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Crawler Tractors	2	8.00	208	0.43
Grading	Crawler Tractors	2	8.00	208	0.43
Grading	Graders	1	8.00	174	0.41
Grading	Rollers	3	8.00	97	0.37
Grading	Scrapers	4	8.00	361	0.48
UPRR Underpass	Air Compressors	1	8.00	78	0.48
UPRR Underpass	Cranes	1	3.00	226	0.29
UPRR Underpass	Dumpers/Tenders	2	8.00	16	0.38
UPRR Underpass	Excavators	1	8.00	162	0.38
UPRR Underpass	Tractors/Loaders/Backhoes	1	5.00	97	0.37
Paving 40th Extension	Dumpers/Tenders	4	8.00	16	0.38
Paving 40th Extension	Pavers	1	8.00	125	0.42
Paving 40th Extension	Paving Equipment	1	8.00	130	0.36
Paving 40th Extension	Rollers	1	8.00	80	0.38
Utilities/Trenching	Dumpers/Tenders	2	8.00	16	0.38
Utilities/Trenching	Excavators	2	8.00	162	0.38
Utilities/Trenching	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Utilities/Trenching	Trenchers	1	8.00	80	0.50
Paving Onsite	Dumpers/Tenders	8	8.00	16	0.38
Paving Onsite	Pavers	2	8.00	125	0.42
Paving Onsite	Paving Equipment	2	8.00	130	0.36
Paving Onsite	Rollers	2	8.00	80	0.38

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
Site Preparation	2	5.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	10	25.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
UPRR Underpass	6	20.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving 40th Extension	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Utilities/Trenching	6	15.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving Onsite	14	27.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Oxidation Catalyst for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.1600e-003	0.0984	0.0290	8.0000e-005		3.8000e-003	3.8000e-003		3.5000e-003	3.5000e-003	0.0000	7.4133	7.4133	2.1900e-003	0.0000	7.4593
Total	7.1600e-003	0.0984	0.0290	8.0000e-005	0.0000	3.8000e-003	3.8000e-003	0.0000	3.5000e-003	3.5000e-003	0.0000	7.4133	7.4133	2.1900e-003	0.0000	7.4593

3.2 Site Preparation - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-004	1.2600e-003	1.9200e-003	0.0000	6.0000e-005	2.0000e-005	9.0000e-005	2.0000e-005	2.0000e-005	4.0000e-005	0.0000	0.2204	0.2204	0.0000	0.0000	0.2205
Worker	4.8000e-004	1.5000e-004	1.5300e-003	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1906	0.1906	1.0000e-005	0.0000	0.1908
Total	8.8000e-004	1.4100e-003	3.4500e-003	0.0000	2.6000e-004	2.0000e-005	2.9000e-004	7.0000e-005	2.0000e-005	9.0000e-005	0.0000	0.4110	0.4110	1.0000e-005	0.0000	0.4113

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.1600e-003	0.0836	0.0290	8.0000e-005		3.8000e-003	3.8000e-003		3.5000e-003	3.5000e-003	0.0000	7.4133	7.4133	2.1900e-003	0.0000	7.4593
Total	7.1600e-003	0.0836	0.0290	8.0000e-005	0.0000	3.8000e-003	3.8000e-003	0.0000	3.5000e-003	3.5000e-003	0.0000	7.4133	7.4133	2.1900e-003	0.0000	7.4593

3.2 Site Preparation - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-004	1.2600e-003	1.9200e-003	0.0000	6.0000e-005	2.0000e-005	9.0000e-005	2.0000e-005	2.0000e-005	4.0000e-005	0.0000	0.2204	0.2204	0.0000	0.0000	0.2205
Worker	4.8000e-004	1.5000e-004	1.5300e-003	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1906	0.1906	1.0000e-005	0.0000	0.1908
Total	8.8000e-004	1.4100e-003	3.4500e-003	0.0000	2.6000e-004	2.0000e-005	2.9000e-004	7.0000e-005	2.0000e-005	9.0000e-005	0.0000	0.4110	0.4110	1.0000e-005	0.0000	0.4113

3.3 Grading - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0255	0.0000	0.0255	2.7500e-003	0.0000	2.7500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2708	3.3308	1.8384	2.5400e-003		0.1499	0.1499		0.1379	0.1379	0.0000	244.0582	244.0582	0.0721	0.0000	245.5728
Total	0.2708	3.3308	1.8384	2.5400e-003	0.0255	0.1499	0.1753	2.7500e-003	0.1379	0.1406	0.0000	244.0582	244.0582	0.0721	0.0000	245.5728

3.3 Grading - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2300e-003	7.0700e-003	0.0108	1.0000e-005	3.6000e-004	1.3000e-004	4.9000e-004	1.0000e-004	1.2000e-004	2.3000e-004	0.0000	1.2344	1.2344	1.0000e-005	0.0000	1.2347	
Worker	0.0134	4.2500e-003	0.0429	7.0000e-005	5.5300e-003	5.0000e-005	5.5800e-003	1.4700e-003	4.0000e-005	1.5200e-003	0.0000	5.3366	5.3366	3.4000e-004	0.0000	5.3436	
Total	0.0156	0.0113	0.0536	8.0000e-005	5.8900e-003	1.8000e-004	6.0700e-003	1.5700e-003	1.6000e-004	1.7500e-003	0.0000	6.5710	6.5710	3.5000e-004	0.0000	6.5783	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0115	0.0000	0.0115	1.2400e-003	0.0000	1.2400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2708	2.6922	1.8384	2.5400e-003		0.1499	0.1499		0.1379	0.1379	0.0000	244.0579	244.0579	0.0721	0.0000	245.5725
Total	0.2708	2.6922	1.8384	2.5400e-003	0.0115	0.1499	0.1613	1.2400e-003	0.1379	0.1391	0.0000	244.0579	244.0579	0.0721	0.0000	245.5725

3.3 Grading - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2300e-003	7.0700e-003	0.0108	1.0000e-005	3.6000e-004	1.3000e-004	4.9000e-004	1.0000e-004	1.2000e-004	2.3000e-004	0.0000	1.2344	1.2344	1.0000e-005	0.0000	1.2347
Worker	0.0134	4.2500e-003	0.0429	7.0000e-005	5.5300e-003	5.0000e-005	5.5800e-003	1.4700e-003	4.0000e-005	1.5200e-003	0.0000	5.3366	5.3366	3.4000e-004	0.0000	5.3436
Total	0.0156	0.0113	0.0536	8.0000e-005	5.8900e-003	1.8000e-004	6.0700e-003	1.5700e-003	1.6000e-004	1.7500e-003	0.0000	6.5710	6.5710	3.5000e-004	0.0000	6.5783

3.4 UPRR Underpass - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1113	1.0115	0.6065	9.8000e-004		0.0626	0.0626		0.0595	0.0595	0.0000	89.1937	89.1937	0.0216	0.0000	89.6467
Total	0.1113	1.0115	0.6065	9.8000e-004		0.0626	0.0626		0.0595	0.0595	0.0000	89.1937	89.1937	0.0216	0.0000	89.6467

3.4 UPRR Underpass - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.2500e-003	0.0167	0.0254	3.0000e-005	8.5000e-004	3.2000e-004	1.1600e-003	2.4000e-004	2.9000e-004	5.3000e-004	0.0000	2.9097	2.9097	3.0000e-005	0.0000	2.9103	
Worker	0.0252	8.0200e-003	0.0809	1.3000e-004	0.0104	9.0000e-005	0.0105	2.7700e-003	8.0000e-005	2.8600e-003	0.0000	10.0632	10.0632	6.3000e-004	0.0000	10.0765	
Total	0.0305	0.0247	0.1062	1.6000e-004	0.0113	4.1000e-004	0.0117	3.0100e-003	3.7000e-004	3.3900e-003	0.0000	12.9729	12.9729	6.6000e-004	0.0000	12.9868	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1113	0.8092	0.6065	9.8000e-004		0.0626	0.0626		0.0595	0.0595	0.0000	89.1936	89.1936	0.0216	0.0000	89.6466
Total	0.1113	0.8092	0.6065	9.8000e-004		0.0626	0.0626		0.0595	0.0595	0.0000	89.1936	89.1936	0.0216	0.0000	89.6466

3.4 UPRR Underpass - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.2500e-003	0.0167	0.0254	3.0000e-005	8.5000e-004	3.2000e-004	1.1600e-003	2.4000e-004	2.9000e-004	5.3000e-004	0.0000	2.9097	2.9097	3.0000e-005	0.0000	2.9103	
Worker	0.0252	8.0200e-003	0.0809	1.3000e-004	0.0104	9.0000e-005	0.0105	2.7700e-003	8.0000e-005	2.8600e-003	0.0000	10.0632	10.0632	6.3000e-004	0.0000	10.0765	
Total	0.0305	0.0247	0.1062	1.6000e-004	0.0113	4.1000e-004	0.0117	3.0100e-003	3.7000e-004	3.3900e-003	0.0000	12.9729	12.9729	6.6000e-004	0.0000	12.9868	

3.4 UPRR Underpass - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Off-Road	0.0177	0.1615	0.1006	1.6000e-004		9.8300e-003	9.8300e-003		9.3400e-003	9.3400e-003	0.0000	14.7641	14.7641	3.5500e-003	0.0000	14.8386	
Total	0.0177	0.1615	0.1006	1.6000e-004		9.8300e-003	9.8300e-003		9.3400e-003	9.3400e-003	0.0000	14.7641	14.7641	3.5500e-003	0.0000	14.8386	

3.4 UPRR Underpass - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.3000e-004	2.3800e-003	3.7900e-003	1.0000e-005	1.4000e-004	4.0000e-005	1.8000e-004	4.0000e-005	4.0000e-005	8.0000e-005	0.0000	0.4785	0.4785	0.0000	0.0000	0.4786
Worker	3.8000e-003	1.1800e-003	0.0118	2.0000e-005	1.7400e-003	1.0000e-005	1.7500e-003	4.6000e-004	1.0000e-005	4.8000e-004	0.0000	1.6175	1.6175	9.0000e-005	0.0000	1.6195
Total	4.5300e-003	3.5600e-003	0.0156	3.0000e-005	1.8800e-003	5.0000e-005	1.9300e-003	5.0000e-004	5.0000e-005	5.6000e-004	0.0000	2.0960	2.0960	9.0000e-005	0.0000	2.0981

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0177	0.1292	0.1006	1.6000e-004		9.8300e-003	9.8300e-003		9.3400e-003	9.3400e-003	0.0000	14.7641	14.7641	3.5500e-003	0.0000	14.8386
Total	0.0177	0.1292	0.1006	1.6000e-004		9.8300e-003	9.8300e-003		9.3400e-003	9.3400e-003	0.0000	14.7641	14.7641	3.5500e-003	0.0000	14.8386

3.4 UPRR Underpass - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.3000e-004	2.3800e-003	3.7900e-003	1.0000e-005	1.4000e-004	4.0000e-005	1.8000e-004	4.0000e-005	4.0000e-005	8.0000e-005	0.0000	0.4785	0.4785	0.0000	0.0000	0.4786
Worker	3.8000e-003	1.1800e-003	0.0118	2.0000e-005	1.7400e-003	1.0000e-005	1.7500e-003	4.6000e-004	1.0000e-005	4.8000e-004	0.0000	1.6175	1.6175	9.0000e-005	0.0000	1.6195
Total	4.5300e-003	3.5600e-003	0.0156	3.0000e-005	1.8800e-003	5.0000e-005	1.9300e-003	5.0000e-004	5.0000e-005	5.6000e-004	0.0000	2.0960	2.0960	9.0000e-005	0.0000	2.0981

3.5 Paving 40th Extension - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0808	0.8145	0.4631	7.7000e-004		0.0443	0.0443		0.0411	0.0411	0.0000	70.4793	70.4793	0.0186	0.0000	70.8699
Paving	0.0158					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0966	0.8145	0.4631	7.7000e-004		0.0443	0.0443		0.0411	0.0411	0.0000	70.4793	70.4793	0.0186	0.0000	70.8699

3.5 Paving 40th Extension - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0188	5.9600e-003	0.0601	9.0000e-005	7.7500e-003	7.0000e-005	7.8200e-003	2.0600e-003	6.0000e-005	2.1200e-003	0.0000	7.4788	7.4788	4.7000e-004	0.0000	7.4887
Total	0.0188	5.9600e-003	0.0601	9.0000e-005	7.7500e-003	7.0000e-005	7.8200e-003	2.0600e-003	6.0000e-005	2.1200e-003	0.0000	7.4788	7.4788	4.7000e-004	0.0000	7.4887

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0808	0.6516	0.4631	7.7000e-004		0.0443	0.0443		0.0411	0.0411	0.0000	70.4792	70.4792	0.0186	0.0000	70.8699
Paving	0.0158					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0966	0.6516	0.4631	7.7000e-004		0.0443	0.0443		0.0411	0.0411	0.0000	70.4792	70.4792	0.0186	0.0000	70.8699

3.5 Paving 40th Extension - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0188	5.9600e-003	0.0601	9.0000e-005	7.7500e-003	7.0000e-005	7.8200e-003	2.0600e-003	6.0000e-005	2.1200e-003	0.0000	7.4788	7.4788	4.7000e-004	0.0000	7.4887	
Total	0.0188	5.9600e-003	0.0601	9.0000e-005	7.7500e-003	7.0000e-005	7.8200e-003	2.0600e-003	6.0000e-005	2.1200e-003	0.0000	7.4788	7.4788	4.7000e-004	0.0000	7.4887	

3.6 Utilities/Trenching - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0398	0.4043	0.2579	3.8000e-004		0.0246	0.0246		0.0227	0.0227	0.0000	36.2786	36.2786	0.0103	0.0000	36.4945
Total	0.0398	0.4043	0.2579	3.8000e-004		0.0246	0.0246		0.0227	0.0227	0.0000	36.2786	36.2786	0.0103	0.0000	36.4945

3.6 Utilities/Trenching - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7100e-003	5.4300e-003	8.2700e-003	1.0000e-005	2.8000e-004	1.0000e-004	3.8000e-004	8.0000e-005	9.0000e-005	1.7000e-004	0.0000	0.9479	0.9479	1.0000e-005	0.0000	0.9481	
Worker	6.1700e-003	1.9600e-003	0.0198	3.0000e-005	2.5500e-003	2.0000e-005	2.5700e-003	6.8000e-004	2.0000e-005	7.0000e-004	0.0000	2.4586	2.4586	1.5000e-004	0.0000	2.4619	
Total	7.8800e-003	7.3900e-003	0.0280	4.0000e-005	2.8300e-003	1.2000e-004	2.9500e-003	7.6000e-004	1.1000e-004	8.7000e-004	0.0000	3.4065	3.4065	1.6000e-004	0.0000	3.4099	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0398	0.3234	0.2579	3.8000e-004		0.0246	0.0246		0.0227	0.0227	0.0000	36.2785	36.2785	0.0103	0.0000	36.4945
Total	0.0398	0.3234	0.2579	3.8000e-004		0.0246	0.0246		0.0227	0.0227	0.0000	36.2785	36.2785	0.0103	0.0000	36.4945

3.6 Utilities/Trenching - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7100e-003	5.4300e-003	8.2700e-003	1.0000e-005	2.8000e-004	1.0000e-004	3.8000e-004	8.0000e-005	9.0000e-005	1.7000e-004	0.0000	0.9479	0.9479	1.0000e-005	0.0000	0.9481
Worker	6.1700e-003	1.9600e-003	0.0198	3.0000e-005	2.5500e-003	2.0000e-005	2.5700e-003	6.8000e-004	2.0000e-005	7.0000e-004	0.0000	2.4586	2.4586	1.5000e-004	0.0000	2.4619
Total	7.8800e-003	7.3900e-003	0.0280	4.0000e-005	2.8300e-003	1.2000e-004	2.9500e-003	7.6000e-004	1.1000e-004	8.7000e-004	0.0000	3.4065	3.4065	1.6000e-004	0.0000	3.4099

3.7 Paving Onsite - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0638	0.6426	0.3654	6.1000e-004		0.0349	0.0349		0.0324	0.0324	0.0000	55.6075	55.6075	0.0147	0.0000	55.9157
Paving	0.0158					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0796	0.6426	0.3654	6.1000e-004		0.0349	0.0349		0.0324	0.0324	0.0000	55.6075	55.6075	0.0147	0.0000	55.9157

3.7 Paving Onsite - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0111	3.5300e-003	0.0356	6.0000e-005	4.5800e-003	4.0000e-005	4.6300e-003	1.2200e-003	4.0000e-005	1.2600e-003	0.0000	4.4255	4.4255	2.8000e-004	0.0000	4.4314
Total	0.0111	3.5300e-003	0.0356	6.0000e-005	4.5800e-003	4.0000e-005	4.6300e-003	1.2200e-003	4.0000e-005	1.2600e-003	0.0000	4.4255	4.4255	2.8000e-004	0.0000	4.4314

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0638	0.5141	0.3654	6.1000e-004		0.0349	0.0349		0.0324	0.0324	0.0000	55.6075	55.6075	0.0147	0.0000	55.9157
Paving	0.0158					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0796	0.5141	0.3654	6.1000e-004		0.0349	0.0349		0.0324	0.0324	0.0000	55.6075	55.6075	0.0147	0.0000	55.9157

3.7 Paving Onsite - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0111	3.5300e-003	0.0356	6.0000e-005	4.5800e-003	4.0000e-005	4.6300e-003	1.2200e-003	4.0000e-005	1.2600e-003	0.0000	4.4255	4.4255	2.8000e-004	0.0000	4.4314	
Total	0.0111	3.5300e-003	0.0356	6.0000e-005	4.5800e-003	4.0000e-005	4.6300e-003	1.2200e-003	4.0000e-005	1.2600e-003	0.0000	4.4255	4.4255	2.8000e-004	0.0000	4.4314	

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	9.4656	9.7462	38.7950	0.0794	5.0909	0.1308	5.2217	1.3662	0.1204	1.4866	0.0000	5,979.9204	5,979.9204	0.2272	0.0000	5,984.6920
Unmitigated	10.0278	10.3102	40.4255	0.0848	5.4533	0.1394	5.5926	1.4634	0.1283	1.5917	0.0000	6,389.6654	6,389.6654	0.2413	0.0000	6,394.7332

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	6.36	6.36	6.36	13,578	12,675
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Recreational Swimming Pool	82.00	82.00	82.00	148,197	138,350
Single Family Housing	5,263.50	5,544.00	4823.50	14,480,474	13,518,316
User Defined Residential	507.50	507.50	507.50		
Total	5,859.36	6,139.86	5,419.36	14,642,249	13,669,342

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9
Single Family Housing	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3
User Defined Residential	10.80	7.30	7.50	32.90	18.00	49.10	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.462115	0.061823	0.181510	0.153742	0.057112	0.007288	0.019722	0.042680	0.001823	0.001665	0.006988	0.000686	0.002845

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

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
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,048.0082	1,048.0082	0.0515	0.0107	1,052.3915
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,099.0468	1,099.0468	0.0540	0.0112	1,103.6436
NaturalGas Mitigated	0.0584	0.4992	0.2124	3.1900e-003		0.0404	0.0404		0.0404	0.0404	0.0000	578.1445	578.1445	0.0111	0.0106	581.6630
NaturalGas Unmitigated	0.0954	0.8148	0.3467	5.2000e-003		0.0659	0.0659		0.0659	0.0659	0.0000	943.6575	943.6575	0.0181	0.0173	949.4004

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	tons/yr										MT/yr						
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other 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	0.0000
Parking Lot	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	0.0000
Recreational Swimming Pool	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	0.0000
Single Family Housing	1.76835e+007	0.0954	0.8148	0.3467	5.2000e-003		0.0659	0.0659		0.0659	0.0659	0.0000	943.6575	943.6575	0.0181	0.0173	949.4004	
User Defined Residential	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		0.0954	0.8148	0.3467	5.2000e-003		0.0659	0.0659		0.0659	0.0659	0.0000	943.6575	943.6575	0.0181	0.0173	949.4004	

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	tons/yr										MT/yr						
Other 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	0.0000
Parking Lot	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	0.0000
Recreational Swimming Pool	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	0.0000
Single Family Housing	1.0834e+007	0.0584	0.4992	0.2124	3.1900e-003		0.0404	0.0404		0.0404	0.0404	0.0000	578.1445	578.1445	0.0111	0.0106	581.6630	
User Defined Residential	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	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0584	0.4992	0.2124	3.1900e-003		0.0404	0.0404		0.0404	0.0404	0.0000	578.1445	578.1445	0.0111	0.0106	581.6630	

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	14080	3.7701	1.9000e-004	4.0000e-005	3.7858
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	4.09052e+006	1,095.2768	0.0538	0.0111	1,099.8578
User Defined Residential	0	0.0000	0.0000	0.0000	0.0000
Total		1,099.0468	0.0540	0.0112	1,103.6436

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	14080	3.7701	1.9000e-004	4.0000e-005	3.7858
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	3.8999e+006	1,044.2381	0.0513	0.0106	1,048.6057
User Defined Residential	0	0.0000	0.0000	0.0000	0.0000
Total		1,048.0082	0.0515	0.0107	1,052.3915

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	8.6124	0.0538	4.6377	2.4000e-004		0.0354	0.0354		0.0353	0.0353	0.0000	152.4488	152.4488	0.0102	2.6600e-003	153.4874
Unmitigated	8.6124	0.0538	4.6377	2.4000e-004		0.0354	0.0354		0.0353	0.0353	0.0000	152.4488	152.4488	0.0102	2.6600e-003	153.4874

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.7690					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.6858					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0146	0.0000	8.0000e-004	0.0000		0.0101	0.0101		0.0100	0.0100	0.0000	144.9276	144.9276	2.7800e-003	2.6600e-003	145.8096
Landscaping	0.1430	0.0538	4.6369	2.4000e-004		0.0253	0.0253		0.0253	0.0253	0.0000	7.5212	7.5212	7.4600e-003	0.0000	7.6778
Total	8.6124	0.0538	4.6377	2.4000e-004		0.0354	0.0354		0.0353	0.0353	0.0000	152.4488	152.4488	0.0102	2.6600e-003	153.4874

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.7690					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.6858					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0146	0.0000	8.0000e-004	0.0000		0.0101	0.0101		0.0100	0.0100	0.0000	144.9276	144.9276	2.7800e-003	2.6600e-003	145.8096
Landscaping	0.1430	0.0538	4.6369	2.4000e-004		0.0253	0.0253		0.0253	0.0253	0.0000	7.5212	7.5212	7.4600e-003	0.0000	7.6778
Total	8.6124	0.0538	4.6377	2.4000e-004		0.0354	0.0354		0.0353	0.0353	0.0000	152.4488	152.4488	0.0102	2.6600e-003	153.4874

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	55.8973	0.0284	0.0170	61.7621
Unmitigated	55.8973	0.0285	0.0170	61.7742

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 4.76593	4.4664	2.2000e-004	5.0000e-005	4.4851
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0.118286 / 0.0724981	0.2812	1.6000e-004	9.0000e-005	0.3134
Single Family Housing	21.3705 / 13.4727	51.1497	0.0282	0.0169	56.9757
User Defined Residential	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		55.8973	0.0286	0.0170	61.7742

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 4.76593	4.4664	2.2000e-004	5.0000e-005	4.4851
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0.118286 / 0.0724981	0.2812	1.6000e-004	9.0000e-005	0.3133
Single Family Housing	21.3705 / 13.4727	51.1497	0.0280	0.0169	56.9636
User Defined Residential	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		55.8973	0.0284	0.0170	61.7621

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	49.7166	2.9382	0.0000	111.4180
Unmitigated	49.7166	2.9382	0.0000	111.4180

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.34	0.0690	4.0800e-003	0.0000	0.1547
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	11.4	2.3141	0.1368	0.0000	5.1860
Single Family Housing	233.18	47.3334	2.7973	0.0000	106.0773
User Defined Residential	0	0.0000	0.0000	0.0000	0.0000
Total		49.7166	2.9382	0.0000	111.4180

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.34	0.0690	4.0800e-003	0.0000	0.1547
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	11.4	2.3141	0.1368	0.0000	5.1860
Single Family Housing	233.18	47.3334	2.7973	0.0000	106.0773
User Defined Residential	0	0.0000	0.0000	0.0000	0.0000
Total		49.7166	2.9382	0.0000	111.4180

9.0 Operational Offroad

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

ALTERNATIVE 4

Building Construction Phase A

- ◆ **Winter**
- ◆ **Annual**

McKinley Village Bldg Phase A
Sacramento Valley Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Recreational Swimming Pool	2.50	1000sqft	0.06	2,500.00	0
Single Family Housing	16.00	Dwelling Unit	1.50	28,800.00	46

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	65
Climate Zone	6			Operational Year	2018
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	590.31	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 - city's population per household (per census) is 2.0; lot acreage reflects minor portion of site for construction model homes; swimming pool land use used to represent the rec center/deli/cafe buildings.

Construction Phase - per applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Trips and VMT - applicant construction data

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Exterior	19,440.00	133,650.00
tblArchitecturalCoating	ConstArea_Residential_Interior	58,320.00	400,950.00
tblAreaCoating	Area_Residential_Exterior	19440	133650
tblAreaCoating	Area_Residential_Interior	58320	400950
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstructionPhase	NumDays	10.00	109.00
tblConstructionPhase	NumDays	200.00	109.00
tblConstructionPhase	PhaseEndDate	9/30/2015	4/30/2015
tblConstructionPhase	PhaseStartDate	5/1/2015	12/1/2014
tblFireplaces	NumberGas	8.80	60.50
tblFireplaces	NumberNoFireplace	1.60	11.00
tblFireplaces	NumberWood	5.60	38.50

tblLandUse	LotAcreage	5.19	1.50
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	3.00
tblOffRoadEquipment	UsageHours	6.00	3.00
tblOffRoadEquipment	UsageHours	6.00	3.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	OperationalYear	2014	2018
tblSolidWaste	SolidWasteGenerationRate	16.35	111.97
tblTripsAndVMT	VendorTripNumber	2.00	5.00
tblTripsAndVMT	WorkerTripNumber	7.00	15.00
tblTripsAndVMT	WorkerTripNumber	1.00	8.00
tblWater	IndoorWaterUseRate	1,042,464.41	7,166,942.82
tblWater	OutdoorWaterUseRate	657,205.82	4,518,290.04
tblWoodstoves	NumberCatalytic	0.80	5.50
tblWoodstoves	NumberNoncatalytic	0.80	5.50

2.0 Emissions Summary

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	170.7673	2.2994	208.7107	0.0811		29.1430	29.1430		29.1422	29.1422	3,054.8904	1,283.5539	4,338.4442	2.8215	0.2403	4,472.1860
Energy	0.0152	0.1299	0.0553	8.3000e-004		0.0105	0.0105		0.0105	0.0105		165.8109	165.8109	3.1800e-003	3.0400e-003	166.8200
Mobile	2.5351	2.4242	10.3416	0.0186	1.2644	0.0313	1.2957	0.3382	0.0288	0.3670		1,543.3631	1,543.3631	0.0597		1,544.6160
Total	173.3176	4.8535	219.1075	0.1005	1.2644	29.1849	30.4493	0.3382	29.1815	29.5197	3,054.8904	2,992.7278	6,047.6182	2.8844	0.2433	6,183.6220

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	170.7673	2.2994	208.7107	0.0811		29.1430	29.1430		29.1422	29.1422	3,054.8904	1,283.5539	4,338.4442	2.8215	0.2403	4,472.1860
Energy	0.0152	0.1299	0.0553	8.3000e-004		0.0105	0.0105		0.0105	0.0105		165.8109	165.8109	3.1800e-003	3.0400e-003	166.8200
Mobile	2.5351	2.4242	10.3416	0.0186	1.2644	0.0313	1.2957	0.3382	0.0288	0.3670		1,543.3631	1,543.3631	0.0597		1,544.6160
Total	173.3176	4.8535	219.1075	0.1005	1.2644	29.1849	30.4493	0.3382	29.1815	29.5197	3,054.8904	2,992.7278	6,047.6182	2.8844	0.2433	6,183.6220

	ROG	NOx	CO	SO2	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	Building Construction	Building Construction	12/1/2014	4/30/2015	5	109	
2	Architectural Coating	Architectural Coating	12/1/2014	4/30/2015	5	109	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 400,950; Residential Outdoor: 133,650; Non-Residential Indoor: 3,750; Non-Residential Outdoor: 1,250 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	3.00	226	0.29
Building Construction	Forklifts	1	3.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	2	3.00	97	0.37
Building Construction	Welders	1	4.00	46	0.45
Architectural Coating	Air Compressors	4	8.00	78	0.48
Architectural Coating	Cement and Mortar Mixers	1	6.00	9	0.56
Architectural Coating	Pressure Washers	1	4.00	13	0.30

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
Building Construction	7	15.00	5.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	6	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Oxidation Catalyst for Construction Equipment

Clean Paved Roads

3.2 Building Construction - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.5840	19.1173	12.2728	0.0195		1.3623	1.3623		1.3278	1.3278		1,883.2630	1,883.2630	0.3314		1,890.2219
Total	2.5840	19.1173	12.2728	0.0195		1.3623	1.3623		1.3278	1.3278		1,883.2630	1,883.2630	0.3314		1,890.2219

3.2 Building Construction - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.2255	0.6426	1.1759	1.1900e-003	0.0332	0.0121	0.0453	9.4600e-003	0.0111	0.0206		120.9596	120.9596	1.2200e-003			120.9851
Worker	0.3312	0.1019	0.9617	1.3900e-003	0.1232	1.0600e-003	0.1243	0.0327	9.6000e-004	0.0336		122.4607	122.4607	7.9200e-003			122.6271
Total	0.5567	0.7445	2.1377	2.5800e-003	0.1564	0.0132	0.1696	0.0421	0.0121	0.0542		243.4203	243.4203	9.1400e-003			243.6122

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.5840	15.2938	12.2728	0.0195		1.3623	1.3623		1.3278	1.3278	0.0000	1,883.2630	1,883.2630	0.3314			1,890.2219
Total	2.5840	15.2938	12.2728	0.0195		1.3623	1.3623		1.3278	1.3278	0.0000	1,883.2630	1,883.2630	0.3314			1,890.2219

3.2 Building Construction - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.2255	0.6426	1.1759	1.1900e-003	0.0332	0.0121	0.0453	9.4600e-003	0.0111	0.0206		120.9596	120.9596	1.2200e-003			120.9851
Worker	0.3312	0.1019	0.9617	1.3900e-003	0.1232	1.0600e-003	0.1243	0.0327	9.6000e-004	0.0336		122.4607	122.4607	7.9200e-003			122.6271
Total	0.5567	0.7445	2.1377	2.5800e-003	0.1564	0.0132	0.1696	0.0421	0.0121	0.0542		243.4203	243.4203	9.1400e-003			243.6122

3.2 Building Construction - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.3796	18.0449	12.1351	0.0195		1.2569	1.2569		1.2235	1.2235		1,877.6940	1,877.6940	0.3129			1,884.2644
Total	2.3796	18.0449	12.1351	0.0195		1.2569	1.2569		1.2235	1.2235		1,877.6940	1,877.6940	0.3129			1,884.2644

3.2 Building Construction - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.1887	0.5501	1.0741	1.1900e-003	0.0332	9.2100e-003	0.0424	9.4600e-003	8.4600e-003	0.0179		119.3411	119.3411	1.0500e-003			119.3632
Worker	0.2998	0.0897	0.8405	1.3900e-003	0.1232	9.7000e-004	0.1242	0.0327	8.9000e-004	0.0336		118.0936	118.0936	7.1000e-003			118.2428
Total	0.4885	0.6397	1.9146	2.5800e-003	0.1564	0.0102	0.1666	0.0421	9.3500e-003	0.0515		237.4347	237.4347	8.1500e-003			237.6060

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.3796	14.4360	12.1351	0.0195		1.2569	1.2569		1.2235	1.2235	0.0000	1,877.6940	1,877.6940	0.3129			1,884.2644
Total	2.3796	14.4360	12.1351	0.0195		1.2569	1.2569		1.2235	1.2235	0.0000	1,877.6940	1,877.6940	0.3129			1,884.2644

3.2 Building Construction - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.1887	0.5501	1.0741	1.1900e-003	0.0332	9.2100e-003	0.0424	9.4600e-003	8.4600e-003	0.0179		119.3411	119.3411	1.0500e-003			119.3632
Worker	0.2998	0.0897	0.8405	1.3900e-003	0.1232	9.7000e-004	0.1242	0.0327	8.9000e-004	0.0336		118.0936	118.0936	7.1000e-003			118.2428
Total	0.4885	0.6397	1.9146	2.5800e-003	0.1564	0.0102	0.1666	0.0421	9.3500e-003	0.0515		237.4347	237.4347	8.1500e-003			237.6060

3.3 Architectural Coating - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	57.3634					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Off-Road	2.4512	15.2766	10.6076	0.0167		1.3295	1.3295		1.3295	1.3295		1,558.4885	1,558.4885	0.2204			1,563.1159
Total	59.8146	15.2766	10.6076	0.0167		1.3295	1.3295		1.3295	1.3295		1,558.4885	1,558.4885	0.2204			1,563.1159

3.3 Architectural Coating - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.1767	0.0544	0.5129	7.4000e-004	0.0657	5.6000e-004	0.0663	0.0174	5.1000e-004	0.0179		65.3124	65.3124	4.2200e-003			65.4011
Total	0.1767	0.0544	0.5129	7.4000e-004	0.0657	5.6000e-004	0.0663	0.0174	5.1000e-004	0.0179		65.3124	65.3124	4.2200e-003			65.4011

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	57.3634					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Off-Road	2.4512	12.2212	10.6076	0.0167		1.3295	1.3295		1.3295	1.3295	0.0000	1,558.4885	1,558.4885	0.2204			1,563.1159
Total	59.8146	12.2212	10.6076	0.0167		1.3295	1.3295		1.3295	1.3295	0.0000	1,558.4885	1,558.4885	0.2204			1,563.1159

3.3 Architectural Coating - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1767	0.0544	0.5129	7.4000e-004	0.0657	5.6000e-004	0.0663	0.0174	5.1000e-004	0.0179		65.3124	65.3124	4.2200e-003		65.4011
Total	0.1767	0.0544	0.5129	7.4000e-004	0.0657	5.6000e-004	0.0663	0.0174	5.1000e-004	0.0179		65.3124	65.3124	4.2200e-003		65.4011

3.3 Architectural Coating - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	57.3634					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	2.2384	14.1631	10.4997	0.0167		1.1991	1.1991		1.1991	1.1991		1,558.4886	1,558.4886	0.2017		1,562.7242
Total	59.6019	14.1631	10.4997	0.0167		1.1991	1.1991		1.1991	1.1991		1,558.4886	1,558.4886	0.2017		1,562.7242

3.3 Architectural Coating - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.1599	0.0478	0.4483	7.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.7000e-004	0.0179		62.9833	62.9833	3.7900e-003			63.0629
Total	0.1599	0.0478	0.4483	7.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.7000e-004	0.0179		62.9833	62.9833	3.7900e-003			63.0629

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	57.3634					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	2.2384	11.3305	10.4997	0.0167		1.1991	1.1991		1.1991	1.1991	0.0000	1,558.4886	1,558.4886	0.2017			1,562.7242
Total	59.6019	11.3305	10.4997	0.0167		1.1991	1.1991		1.1991	1.1991	0.0000	1,558.4886	1,558.4886	0.2017			1,562.7242

3.3 Architectural Coating - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1599	0.0478	0.4483	7.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.7000e-004	0.0179		62.9833	62.9833	3.7900e-003		63.0629
Total	0.1599	0.0478	0.4483	7.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.7000e-004	0.0179		62.9833	62.9833	3.7900e-003		63.0629

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					
Mitigated	2.5351	2.4242	10.3416	0.0186	1.2644	0.0313	1.2957	0.3382	0.0288	0.3670		1,543.3631	1,543.3631	0.0597		1,544.6160
Unmitigated	2.5351	2.4242	10.3416	0.0186	1.2644	0.0313	1.2957	0.3382	0.0288	0.3670		1,543.3631	1,543.3631	0.0597		1,544.6160

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Recreational Swimming Pool	82.33	52.18	66.83	136,998	136,998
Single Family Housing	153.12	161.28	140.32	421,250	421,250
Total	235.45	213.46	207.15	558,248	558,248

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
Recreational Swimming Pool	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9
Single Family Housing	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.462115	0.061823	0.181510	0.153742	0.057112	0.007288	0.019722	0.042680	0.001823	0.001665	0.006988	0.000686	0.002845

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0152	0.1299	0.0553	8.3000e-004		0.0105	0.0105		0.0105	0.0105		165.8109	165.8109	3.1800e-003	3.0400e-003	166.8200
NaturalGas Unmitigated	0.0152	0.1299	0.0553	8.3000e-004		0.0105	0.0105		0.0105	0.0105		165.8109	165.8109	3.1800e-003	3.0400e-003	166.8200

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Recreational Swimming Pool	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
Single Family Housing	1409.39	0.0152	0.1299	0.0553	8.3000e-004		0.0105	0.0105		0.0105	0.0105		165.8109	165.8109	3.1800e-003	3.0400e-003	166.8200
Total		0.0152	0.1299	0.0553	8.3000e-004		0.0105	0.0105		0.0105	0.0105		165.8109	165.8109	3.1800e-003	3.0400e-003	166.8200

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	1.40939	0.0152	0.1299	0.0553	8.3000e-004		0.0105	0.0105		0.0105	0.0105		165.8109	165.8109	3.1800e-003	3.0400e-003	166.8200
Recreational Swimming Pool	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		0.0152	0.1299	0.0553	8.3000e-004		0.0105	0.0105		0.0105	0.0105		165.8109	165.8109	3.1800e-003	3.0400e-003	166.8200

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					
Mitigated	170.7673	2.2994	208.7107	0.0811		29.1430	29.1430		29.1422	29.1422	3,054.8904	1,283.5539	4,338.4442	2.8215	0.2403	4,472.1860
Unmitigated	170.7673	2.2994	208.7107	0.0811		29.1430	29.1430		29.1422	29.1422	3,054.8904	1,283.5539	4,338.4442	2.8215	0.2403	4,472.1860

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.7131					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6698					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	168.3435	2.2840	207.3811	0.0810		29.1358	29.1358		29.1349	29.1349	3,054.8904	1,281.1765	4,336.0669	2.8192	0.2403	4,469.7591
Landscaping	0.0410	0.0154	1.3296	7.0000e-005		7.2600e-003	7.2600e-003		7.2600e-003	7.2600e-003		2.3774	2.3774	2.3600e-003		2.4269
Total	170.7673	2.2994	208.7107	0.0811		29.1430	29.1430		29.1422	29.1422	3,054.8904	1,283.5539	4,338.4442	2.8215	0.2403	4,472.1860

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.7131					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6698					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	168.3435	2.2840	207.3811	0.0810		29.1358	29.1358		29.1349	29.1349	3,054.8904	1,281.1765	4,336.0669	2.8192	0.2403	4,469.7591
Landscaping	0.0410	0.0154	1.3296	7.0000e-005		7.2600e-003	7.2600e-003		7.2600e-003	7.2600e-003		2.3774	2.3774	2.3600e-003		2.4269
Total	170.7673	2.2994	208.7107	0.0811		29.1430	29.1430		29.1422	29.1422	3,054.8904	1,283.5539	4,338.4442	2.8215	0.2403	4,472.1860

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 Vegetation

McKinley Village Bldg Phase A Sacramento Valley Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Recreational Swimming Pool	2.50	1000sqft	0.06	2,500.00	0
Single Family Housing	16.00	Dwelling Unit	1.50	28,800.00	46

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	65
Climate Zone	6			Operational Year	2018
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	590.31	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 - city's population per household (per census) is 2.0; lot acreage reflects minor portion of site for construction model homes; swimming pool land use used to represent the rec center/deli/cafe buildings.

Construction Phase - per applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Trips and VMT - applicant construction data

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstructionPhase	NumDays	10.00	109.00
tblConstructionPhase	NumDays	300.00	109.00
tblConstructionPhase	PhaseEndDate	9/30/2015	4/30/2015
tblConstructionPhase	PhaseStartDate	5/1/2015	12/1/2014
tblLandUse	LotAcreage	5.19	1.50
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00

tblOffRoadEquipment	PhaseName		Architectural Coating
tblOffRoadEquipment	PhaseName		Architectural Coating
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	3.00
tblOffRoadEquipment	UsageHours	8.00	3.00
tblOffRoadEquipment	UsageHours	7.00	3.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	VendorTripNumber	12.00	5.00
tblTripsAndVMT	WorkerTripNumber	41.00	15.00

2.0 Emissions Summary

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	7.3406	0.0950	8.6223	3.3300e-003		1.1952	1.1952		1.1952	1.1952	113.6254	47.8469	161.4723	0.1051	8.9400e-003	166.4489
Energy	2.7700e-003	0.0237	0.0101	1.5000e-004		1.9200e-003	1.9200e-003		1.9200e-003	1.9200e-003	0.0000	59.3145	59.3145	2.0900e-003	8.3000e-004	59.6148
Mobile	0.3839	0.3949	1.5569	3.2400e-003	0.2079	5.3200e-003	0.2132	0.0558	4.9000e-003	0.0607	0.0000	243.8307	243.8307	9.2300e-003	0.0000	244.0245
Waste						0.0000	0.0000		0.0000	0.0000	25.6215	0.0000	25.6215	1.5142	0.0000	57.4195
Water						0.0000	0.0000		0.0000	0.0000	2.3207	14.9173	17.2380	0.2391	5.7800e-003	24.0505
Total	7.7273	0.5136	10.1893	6.7200e-003	0.2079	1.2025	1.4104	0.0558	1.2020	1.2578	141.5675	365.9094	507.4769	1.8697	0.0156	551.5582

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	7.3406	0.0950	8.6223	3.3300e-003		1.1952	1.1952		1.1952	1.1952	113.6254	47.8469	161.4723	0.1051	8.9400e-003	166.4489
Energy	2.7700e-003	0.0237	0.0101	1.5000e-004		1.9200e-003	1.9200e-003		1.9200e-003	1.9200e-003	0.0000	59.3145	59.3145	2.0900e-003	8.3000e-004	59.6148
Mobile	0.3839	0.3949	1.5569	3.2400e-003	0.2079	5.3200e-003	0.2132	0.0558	4.9000e-003	0.0607	0.0000	243.8307	243.8307	9.2300e-003	0.0000	244.0245
Waste						0.0000	0.0000		0.0000	0.0000	25.6215	0.0000	25.6215	1.5142	0.0000	57.4195
Water						0.0000	0.0000		0.0000	0.0000	2.3207	14.9173	17.2380	0.2390	5.7700e-003	24.0468
Total	7.7273	0.5136	10.1893	6.7200e-003	0.2079	1.2025	1.4104	0.0558	1.2020	1.2578	141.5675	365.9094	507.4769	1.8696	0.0155	551.5545

	ROG	NOx	CO	SO2	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	0.06	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	Building Construction	Building Construction	12/1/2014	4/30/2015	5	109	
2	Architectural Coating	Architectural Coating	12/1/2014	4/30/2015	5	109	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 400,950; Residential Outdoor: 133,650; Non-Residential Indoor: 3,750; Non-Residential Outdoor: 1,250 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	3.00	226	0.29
Building Construction	Forklifts	1	3.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	2	3.00	97	0.37
Building Construction	Welders	1	4.00	46	0.45
Architectural Coating	Air Compressors	4	8.00	78	0.48
Architectural Coating	Cement and Mortar Mixers	1	6.00	9	0.56
Architectural Coating	Pressure Washers	1	4.00	13	0.30

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
Building Construction	28	15.00	5.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	24	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Oxidation Catalyst for Construction Equipment

3.2 Building Construction - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0297	0.2199	0.1411	2.2000e-004		0.0157	0.0157		0.0153	0.0153	0.0000	19.6474	19.6474	3.4600e-003	0.0000	19.7200
Total	0.0297	0.2199	0.1411	2.2000e-004		0.0157	0.0157		0.0153	0.0153	0.0000	19.6474	19.6474	3.4600e-003	0.0000	19.7200

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2900e-003	7.2600e-003	0.0111	1.0000e-005	3.7000e-004	1.4000e-004	5.1000e-004	1.1000e-004	1.3000e-004	2.3000e-004	0.0000	1.2675	1.2675	1.0000e-005	0.0000	1.2678
Worker	3.3000e-003	1.0500e-003	0.0106	2.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.3151	1.3151	8.0000e-005	0.0000	1.3168
Total	5.5900e-003	8.3100e-003	0.0216	3.0000e-005	1.7300e-003	1.5000e-004	1.8800e-003	4.7000e-004	1.4000e-004	6.0000e-004	0.0000	2.5826	2.5826	9.0000e-005	0.0000	2.5846

3.2 Building Construction - 2014

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0297	0.1759	0.1411	2.2000e-004		0.0157	0.0157		0.0153	0.0153	0.0000	19.6474	19.6474	3.4600e-003	0.0000	19.7200
Total	0.0297	0.1759	0.1411	2.2000e-004		0.0157	0.0157		0.0153	0.0153	0.0000	19.6474	19.6474	3.4600e-003	0.0000	19.7200

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2900e-003	7.2600e-003	0.0111	1.0000e-005	3.7000e-004	1.4000e-004	5.1000e-004	1.1000e-004	1.3000e-004	2.3000e-004	0.0000	1.2675	1.2675	1.0000e-005	0.0000	1.2678
Worker	3.3000e-003	1.0500e-003	0.0106	2.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.3151	1.3151	8.0000e-005	0.0000	1.3168
Total	5.5900e-003	8.3100e-003	0.0216	3.0000e-005	1.7300e-003	1.5000e-004	1.8800e-003	4.7000e-004	1.4000e-004	6.0000e-004	0.0000	2.5826	2.5826	9.0000e-005	0.0000	2.5846

3.2 Building Construction - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1023	0.7759	0.5218	8.4000e-004		0.0541	0.0541		0.0526	0.0526	0.0000	73.2469	73.2469	0.0122	0.0000	73.5032
Total	0.1023	0.7759	0.5218	8.4000e-004		0.0541	0.0541		0.0526	0.0526	0.0000	73.2469	73.2469	0.0122	0.0000	73.5032

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.1700e-003	0.0233	0.0371	5.0000e-005	1.3800e-003	3.9000e-004	1.7700e-003	4.0000e-004	3.6000e-004	7.6000e-004	0.0000	4.6761	4.6761	4.0000e-005	0.0000	4.6769
Worker	0.0112	3.4500e-003	0.0347	6.0000e-005	5.0900e-003	4.0000e-005	5.1400e-003	1.3600e-003	4.0000e-005	1.3900e-003	0.0000	4.7423	4.7423	2.8000e-004	0.0000	4.7481
Total	0.0183	0.0267	0.0717	1.1000e-004	6.4700e-003	4.3000e-004	6.9100e-003	1.7600e-003	4.0000e-004	2.1500e-003	0.0000	9.4184	9.4184	3.2000e-004	0.0000	9.4250

3.2 Building Construction - 2015

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1023	0.6208	0.5218	8.4000e-004		0.0541	0.0541		0.0526	0.0526	0.0000	73.2468	73.2468	0.0122	0.0000	73.5031
Total	0.1023	0.6208	0.5218	8.4000e-004		0.0541	0.0541		0.0526	0.0526	0.0000	73.2468	73.2468	0.0122	0.0000	73.5031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.1700e-003	0.0233	0.0371	5.0000e-005	1.3800e-003	3.9000e-004	1.7700e-003	4.0000e-004	3.6000e-004	7.6000e-004	0.0000	4.6761	4.6761	4.0000e-005	0.0000	4.6769
Worker	0.0112	3.4500e-003	0.0347	6.0000e-005	5.0900e-003	4.0000e-005	5.1400e-003	1.3600e-003	4.0000e-005	1.3900e-003	0.0000	4.7423	4.7423	2.8000e-004	0.0000	4.7481
Total	0.0183	0.0267	0.0717	1.1000e-004	6.4700e-003	4.3000e-004	6.9100e-003	1.7600e-003	4.0000e-004	2.1500e-003	0.0000	9.4184	9.4184	3.2000e-004	0.0000	9.4250

3.3 Architectural Coating - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6597					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0282	0.1757	0.1220	1.9000e-004		0.0153	0.0153		0.0153	0.0153	0.0000	16.2591	16.2591	2.3000e-003	0.0000	16.3074
Total	0.6879	0.1757	0.1220	1.9000e-004		0.0153	0.0153		0.0153	0.0153	0.0000	16.2591	16.2591	2.3000e-003	0.0000	16.3074

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7600e-003	5.6000e-004	5.6300e-003	1.0000e-005	7.3000e-004	1.0000e-005	7.3000e-004	1.9000e-004	1.0000e-005	2.0000e-004	0.0000	0.7014	0.7014	4.0000e-005	0.0000	0.7023
Total	1.7600e-003	5.6000e-004	5.6300e-003	1.0000e-005	7.3000e-004	1.0000e-005	7.3000e-004	1.9000e-004	1.0000e-005	2.0000e-004	0.0000	0.7014	0.7014	4.0000e-005	0.0000	0.7023

3.3 Architectural Coating - 2014

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6597					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0282	0.1405	0.1220	1.9000e-004		0.0153	0.0153		0.0153	0.0153	0.0000	16.2591	16.2591	2.3000e-003	0.0000	16.3074
Total	0.6879	0.1405	0.1220	1.9000e-004		0.0153	0.0153		0.0153	0.0153	0.0000	16.2591	16.2591	2.3000e-003	0.0000	16.3074

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7600e-003	5.6000e-004	5.6300e-003	1.0000e-005	7.3000e-004	1.0000e-005	7.3000e-004	1.9000e-004	1.0000e-005	2.0000e-004	0.0000	0.7014	0.7014	4.0000e-005	0.0000	0.7023
Total	1.7600e-003	5.6000e-004	5.6300e-003	1.0000e-005	7.3000e-004	1.0000e-005	7.3000e-004	1.9000e-004	1.0000e-005	2.0000e-004	0.0000	0.7014	0.7014	4.0000e-005	0.0000	0.7023

3.3 Architectural Coating - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.4666					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0963	0.6090	0.4515	7.2000e-004		0.0516	0.0516		0.0516	0.0516	0.0000	60.7950	60.7950	7.8700e-003	0.0000	60.9602
Total	2.5629	0.6090	0.4515	7.2000e-004		0.0516	0.0516		0.0516	0.0516	0.0000	60.7950	60.7950	7.8700e-003	0.0000	60.9602

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.9500e-003	1.8400e-003	0.0185	3.0000e-005	2.7200e-003	2.0000e-005	2.7400e-003	7.2000e-004	2.0000e-005	7.4000e-004	0.0000	2.5292	2.5292	1.5000e-004	0.0000	2.5323
Total	5.9500e-003	1.8400e-003	0.0185	3.0000e-005	2.7200e-003	2.0000e-005	2.7400e-003	7.2000e-004	2.0000e-005	7.4000e-004	0.0000	2.5292	2.5292	1.5000e-004	0.0000	2.5323

3.3 Architectural Coating - 2015

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.4666					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0963	0.4872	0.4515	7.2000e-004		0.0516	0.0516		0.0516	0.0516	0.0000	60.7949	60.7949	7.8700e-003	0.0000	60.9602
Total	2.5629	0.4872	0.4515	7.2000e-004		0.0516	0.0516		0.0516	0.0516	0.0000	60.7949	60.7949	7.8700e-003	0.0000	60.9602

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.9500e-003	1.8400e-003	0.0185	3.0000e-005	2.7200e-003	2.0000e-005	2.7400e-003	7.2000e-004	2.0000e-005	7.4000e-004	0.0000	2.5292	2.5292	1.5000e-004	0.0000	2.5323
Total	5.9500e-003	1.8400e-003	0.0185	3.0000e-005	2.7200e-003	2.0000e-005	2.7400e-003	7.2000e-004	2.0000e-005	7.4000e-004	0.0000	2.5292	2.5292	1.5000e-004	0.0000	2.5323

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3839	0.3949	1.5569	3.2400e-003	0.2079	5.3200e-003	0.2132	0.0558	4.9000e-003	0.0607	0.0000	243.8307	243.8307	9.2300e-003	0.0000	244.0245
Unmitigated	0.3839	0.3949	1.5569	3.2400e-003	0.2079	5.3200e-003	0.2132	0.0558	4.9000e-003	0.0607	0.0000	243.8307	243.8307	9.2300e-003	0.0000	244.0245

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Recreational Swimming Pool	82.33	52.18	66.83	136,998	136,998
Single Family Housing	153.12	161.28	140.32	421,250	421,250
Total	235.45	213.46	207.15	558,248	558,248

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
Recreational Swimming Pool	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9
Single Family Housing	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.462115	0.061823	0.181510	0.153742	0.057112	0.007288	0.019722	0.042680	0.001823	0.001665	0.006988	0.000686	0.002845

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	31.8626	31.8626	1.5700e-003	3.2000e-004	31.9959
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	31.8626	31.8626	1.5700e-003	3.2000e-004	31.9959
NaturalGas Mitigated	2.7700e-003	0.0237	0.0101	1.5000e-004		1.9200e-003	1.9200e-003		1.9200e-003	1.9200e-003	0.0000	27.4519	27.4519	5.3000e-004	5.0000e-004	27.6189
NaturalGas Unmitigated	2.7700e-003	0.0237	0.0101	1.5000e-004		1.9200e-003	1.9200e-003		1.9200e-003	1.9200e-003	0.0000	27.4519	27.4519	5.3000e-004	5.0000e-004	27.6189

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	tons/yr										MT/yr						
Recreational Swimming Pool	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	0.0000
Single Family Housing	514428	2.7700e-003	0.0237	0.0101	1.5000e-004		1.9200e-003	1.9200e-003		1.9200e-003	1.9200e-003	0.0000	27.4519	27.4519	5.3000e-004	5.0000e-004	27.6189	
Total		2.7700e-003	0.0237	0.0101	1.5000e-004		1.9200e-003	1.9200e-003		1.9200e-003	1.9200e-003	0.0000	27.4519	27.4519	5.3000e-004	5.0000e-004	27.6189	

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	tons/yr										MT/yr						
Recreational Swimming Pool	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	0.0000
Single Family Housing	514428	2.7700e-003	0.0237	0.0101	1.5000e-004		1.9200e-003	1.9200e-003		1.9200e-003	1.9200e-003	0.0000	27.4519	27.4519	5.3000e-004	5.0000e-004	27.6189	
Total		2.7700e-003	0.0237	0.0101	1.5000e-004		1.9200e-003	1.9200e-003		1.9200e-003	1.9200e-003	0.0000	27.4519	27.4519	5.3000e-004	5.0000e-004	27.6189	

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	118997	31.8626	1.5700e-003	3.2000e-004	31.9959
Total		31.8626	1.5700e-003	3.2000e-004	31.9959

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	118997	31.8626	1.5700e-003	3.2000e-004	31.9959
Total		31.8626	1.5700e-003	3.2000e-004	31.9959

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	7.3406	0.0950	8.6223	3.3300e-003		1.1952	1.1952		1.1952	1.1952	113.6254	47.8469	161.4723	0.1051	8.9400e-003	166.4489
Unmitigated	7.3406	0.0950	8.6223	3.3300e-003		1.1952	1.1952		1.1952	1.1952	113.6254	47.8469	161.4723	0.1051	8.9400e-003	166.4489

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3126					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1222					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	6.9021	0.0936	8.5026	3.3200e-003		1.1946	1.1946		1.1945	1.1945	113.6254	47.6528	161.2782	0.1049	8.9400e-003	166.2508
Landscaping	3.6900e-003	1.3900e-003	0.1197	1.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	0.1941	0.1941	1.9000e-004	0.0000	0.1982
Total	7.3406	0.0950	8.6223	3.3300e-003		1.1952	1.1952		1.1952	1.1952	113.6254	47.8469	161.4723	0.1051	8.9400e-003	166.4489

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3126					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1222					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	6.9021	0.0936	8.5026	3.3200e-003		1.1946	1.1946		1.1945	1.1945	113.6254	47.6528	161.2782	0.1049	8.9400e-003	166.2508
Landscaping	3.6900e-003	1.3900e-003	0.1197	1.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	0.1941	0.1941	1.9000e-004	0.0000	0.1982
Total	7.3406	0.0950	8.6223	3.3300e-003		1.1952	1.1952		1.1952	1.1952	113.6254	47.8469	161.4723	0.1051	8.9400e-003	166.4489

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	17.2380	0.2390	5.7700e-003	24.0468
Unmitigated	17.2380	0.2391	5.7800e-003	24.0505

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Recreational Swimming Pool	0.147858 / 0.0906226	0.3461	4.8300e-003	1.2000e-004	0.4838
Single Family Housing	7.16694 / 4.51829	16.8919	0.2343	5.6600e-003	23.5667
Total		17.2380	0.2391	5.7800e-003	24.0505

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Recreational Swimming Pool	0.147858 / 0.0906226	0.3461	4.8300e-003	1.2000e-004	0.4837
Single Family Housing	7.16694 / 4.51829	16.8919	0.2342	5.6500e-003	23.5631
Total		17.2380	0.2390	5.7700e-003	24.0468

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	25.6215	1.5142	0.0000	57.4195
Unmitigated	25.6215	1.5142	0.0000	57.4195

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Recreational Swimming Pool	14.25	2.8926	0.1710	0.0000	6.4826
Single Family Housing	111.97	22.7289	1.3432	0.0000	50.9369
Total		25.6215	1.5142	0.0000	57.4195

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Recreational Swimming Pool	14.25	2.8926	0.1710	0.0000	6.4826
Single Family Housing	111.97	22.7289	1.3432	0.0000	50.9369
Total		25.6215	1.5142	0.0000	57.4195

9.0 Operational Offroad

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

ALTERNATIVE 4

Building Construction Phase 1

- ◆ **Winter**
- ◆ **Annual**

McKinley Village Bldg Phase 1 Sacramento Valley Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	178.00	Dwelling Unit	17.00	320,400.00	356

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	65
Climate Zone	6			Operational Year	2018
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - city's population per household (per census) is 2.0; lot acreage reflects 1/3 of overall site size

Construction Phase - per applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Trips and VMT - applicant construction data

Construction Off-road Equipment Mitigation -

Grading -

Architectural Coating -

Vehicle Trips -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Exterior	216,270.00	114,210.00
tblArchitecturalCoating	ConstArea_Residential_Interior	648,810.00	342,630.00
tblAreaCoating	Area_Nonresidential_Interior	0	3750
tblAreaCoating	Area_Residential_Exterior	216270	133650
tblAreaCoating	Area_Residential_Interior	648810	400950
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	15.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstructionPhase	NumDays	20.00	131.00
tblConstructionPhase	NumDays	300.00	131.00
tblConstructionPhase	PhaseEndDate	5/2/2016	10/31/2015
tblConstructionPhase	PhaseEndDate	10/30/2015	10/31/2015
tblConstructionPhase	PhaseStartDate	11/1/2015	5/1/2015
tblLandUse	LotAcreage	57.79	17.00

tblLandUse	Population	509.00	356.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	15.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	5.00
tblOffRoadEquipment	UsageHours	8.00	5.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	OperationalYear	2014	2018
tblSolidWaste	SolidWasteGenerationRate	126.54	111.97
tblTripsAndVMT	VendorTripNumber	19.00	20.00
tblTripsAndVMT	WorkerTripNumber	64.00	55.00
tblTripsAndVMT	WorkerTripNumber	13.00	12.00
tblWater	IndoorWaterUseRate	11,597,416.56	7,166,942.82
tblWater	OutdoorWaterUseRate	7,311,414.79	4,518,290.04

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	281.4318	3.8675	350.3693	0.1319		47.2277	47.2277		47.2263	47.2263	4,943.3681	2,099.6188	7,042.9869	4.5881	0.3888	7,259.8755
Energy	0.1691	1.4450	0.6149	9.2200e-003		0.1168	0.1168		0.1168	0.1168		1,844.6463	1,844.6463	0.0354	0.0338	1,855.8725
Mobile	20.7818	19.7954	81.4193	0.1542	10.5458	0.2587	10.8045	2.8208	0.2382	3.0590		12,818.7362	12,818.7362	0.4904		12,829.0340
Total	302.3827	25.1079	432.4035	0.2953	10.5458	47.6033	58.1491	2.8208	47.5813	50.4021	4,943.3681	16,763.0012	21,706.3693	5.1138	0.4227	21,944.7820

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	281.4318	3.8675	350.3693	0.1319		47.2277	47.2277		47.2263	47.2263	4,943.3681	2,099.6188	7,042.9869	4.5881	0.3888	7,259.8755
Energy	0.1691	1.4450	0.6149	9.2200e-003		0.1168	0.1168		0.1168	0.1168		1,844.6463	1,844.6463	0.0354	0.0338	1,855.8725
Mobile	20.7818	19.7954	81.4193	0.1542	10.5458	0.2587	10.8045	2.8208	0.2382	3.0590		12,818.7362	12,818.7362	0.4904		12,829.0340
Total	302.3827	25.1079	432.4035	0.2953	10.5458	47.6033	58.1491	2.8208	47.5813	50.4021	4,943.3681	16,763.0012	21,706.3693	5.1138	0.4227	21,944.7820

	ROG	NOx	CO	SO2	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	Building Construction	Building Construction	5/1/2015	10/31/2015	5	131	
2	Architectural Coating	Architectural Coating	5/1/2015	10/31/2015	5	131	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 342,630; Residential Outdoor: 114,210; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	5.00	226	0.29
Building Construction	Forklifts	4	5.00	89	0.20
Building Construction	Generator Sets	6	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	4	4.00	97	0.37
Building Construction	Welders	4	4.00	46	0.45
Architectural Coating	Air Compressors	15	8.00	78	0.48
Architectural Coating	Cement and Mortar Mixers	7	6.00	9	0.56
Architectural Coating	Pressure Washers	4	6.00	13	0.30

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
Building Construction	19	55.00	20.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	26	12.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Oxidation Catalyst for Construction Equipment

Clean Paved Roads

3.2 Building Construction - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	7.3223	52.6545	37.0346	0.0582		3.8203	3.8203		3.7224	3.7224		5,579.2766	5,579.2766	0.9197		5,598.5907
Total	7.3223	52.6545	37.0346	0.0582		3.8203	3.8203		3.7224	3.7224		5,579.2766	5,579.2766	0.9197		5,598.5907

3.2 Building Construction - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.7549	2.2002	4.2963	4.7500e-003	0.1326	0.0368	0.1695	0.0378	0.0338	0.0717		477.3644	477.3644	4.2100e-003			477.4528
Worker	1.0992	0.3287	3.0818	5.0800e-003	0.4518	3.5700e-003	0.4554	0.1198	3.2600e-003	0.1231		433.0100	433.0100	0.0261			433.5571
Total	1.8541	2.5289	7.3780	9.8300e-003	0.5845	0.0404	0.6249	0.1577	0.0371	0.1948		910.3744	910.3744	0.0303			911.0099

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	7.3223	42.1236	37.0346	0.0582		3.8203	3.8203		3.7224	3.7224	0.0000	5,579.2766	5,579.2766	0.9197			5,598.5907
Total	7.3223	42.1236	37.0346	0.0582		3.8203	3.8203		3.7224	3.7224	0.0000	5,579.2766	5,579.2766	0.9197			5,598.5907

3.2 Building Construction - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.7549	2.2002	4.2963	4.7500e-003	0.1326	0.0368	0.1695	0.0378	0.0338	0.0717		477.3644	477.3644	4.2100e-003			477.4528
Worker	1.0992	0.3287	3.0818	5.0800e-003	0.4518	3.5700e-003	0.4554	0.1198	3.2600e-003	0.1231		433.0100	433.0100	0.0261			433.5571
Total	1.8541	2.5289	7.3780	9.8300e-003	0.5845	0.0404	0.6249	0.1577	0.0371	0.1948		910.3744	910.3744	0.0303			911.0099

3.3 Architectural Coating - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	40.4094					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	8.5955	54.4125	40.4085	0.0648		4.5552	4.5552		4.5552	4.5552		6,011.4421	6,011.4421	0.7743			6,027.7029
Total	49.0049	54.4125	40.4085	0.0648		4.5552	4.5552		4.5552	4.5552		6,011.4421	6,011.4421	0.7743			6,027.7029

3.3 Architectural Coating - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2398	0.0717	0.6724	1.1100e-003	0.0986	7.8000e-004	0.0994	0.0262	7.1000e-004	0.0269		94.4749	94.4749	5.6800e-003		94.5943
Total	0.2398	0.0717	0.6724	1.1100e-003	0.0986	7.8000e-004	0.0994	0.0262	7.1000e-004	0.0269		94.4749	94.4749	5.6800e-003		94.5943

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	40.4094					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	8.5955	43.5300	40.4085	0.0648		4.5552	4.5552		4.5552	4.5552	0.0000	6,011.4421	6,011.4421	0.7743		6,027.7029
Total	49.0049	43.5300	40.4085	0.0648		4.5552	4.5552		4.5552	4.5552	0.0000	6,011.4421	6,011.4421	0.7743		6,027.7029

3.3 Architectural Coating - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2398	0.0717	0.6724	1.1100e-003	0.0986	7.8000e-004	0.0994	0.0262	7.1000e-004	0.0269		94.4749	94.4749	5.6800e-003		94.5943
Total	0.2398	0.0717	0.6724	1.1100e-003	0.0986	7.8000e-004	0.0994	0.0262	7.1000e-004	0.0269		94.4749	94.4749	5.6800e-003		94.5943

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					
Mitigated	20.7818	19.7954	81.4193	0.1542	10.5458	0.2587	10.8045	2.8208	0.2382	3.0590		12,818.73 62	12,818.73 62	0.4904		12,829.03 40
Unmitigated	20.7818	19.7954	81.4193	0.1542	10.5458	0.2587	10.8045	2.8208	0.2382	3.0590		12,818.73 62	12,818.73 62	0.4904		12,829.03 40

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	1,703.46	1,794.24	1561.06	4,686,408	4,686,408
Total	1,703.46	1,794.24	1,561.06	4,686,408	4,686,408

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
Single Family Housing	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.462115	0.061823	0.181510	0.153742	0.057112	0.007288	0.019722	0.042680	0.001823	0.001665	0.006988	0.000686	0.002845

5.0 Energy Detail

4.4 Fleet Mix

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					
NaturalGas Mitigated	0.1691	1.4450	0.6149	9.2200e-003		0.1168	0.1168		0.1168	0.1168		1,844.6463	1,844.6463	0.0354	0.0338	1,855,8725
NaturalGas Unmitigated	0.1691	1.4450	0.6149	9.2200e-003		0.1168	0.1168		0.1168	0.1168		1,844.6463	1,844.6463	0.0354	0.0338	1,855,8725

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	15679.5	0.1691	1.4450	0.6149	9.2200e-003		0.1168	0.1168		0.1168	0.1168		1,844.6463	1,844.6463	0.0354	0.0338	1,855.8725
Total		0.1691	1.4450	0.6149	9.2200e-003		0.1168	0.1168		0.1168	0.1168		1,844.6463	1,844.6463	0.0354	0.0338	1,855.8725

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	15.6795	0.1691	1.4450	0.6149	9.2200e-003		0.1168	0.1168		0.1168	0.1168		1,844.6463	1,844.6463	0.0354	0.0338	1,855.8725
Total		0.1691	1.4450	0.6149	9.2200e-003		0.1168	0.1168		0.1168	0.1168		1,844.6463	1,844.6463	0.0354	0.0338	1,855.8725

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					
Mitigated	281.4318	3.8675	350.3693	0.1319		47.2277	47.2277		47.2263	47.2263	4,943.3681	2,099.6188	7,042.9869	4.5881	0.3888	7,259.8755
Unmitigated	281.4318	3.8675	350.3693	0.1319		47.2277	47.2277		47.2263	47.2263	4,943.3681	2,099.6188	7,042.9869	4.5881	0.3888	7,259.8755

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.7091					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.8566					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	272.4103	3.6959	335.5802	0.1311		47.1470	47.1470		47.1456	47.1456	4,943.3681	2,073.1765	7,016.5445	4.5619	0.3888	7,232.8829
Landscaping	0.4559	0.1717	14.7891	7.8000e-004		0.0807	0.0807		0.0807	0.0807		26.4423	26.4423	0.0262		26.9926
Total	281.4318	3.8675	350.3693	0.1319		47.2277	47.2277		47.2263	47.2263	4,943.3681	2,099.6188	7,042.9869	4.5881	0.3888	7,259.8755

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.7091					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.8566					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	272.4103	3.6959	335.5802	0.1311		47.1470	47.1470		47.1456	47.1456	4,943.3681	2,073.1765	7,016.5445	4.5619	0.3888	7,232.8829
Landscaping	0.4559	0.1717	14.7891	7.8000e-004		0.0807	0.0807		0.0807	0.0807		26.4423	26.4423	0.0262		26.9926
Total	281.4318	3.8675	350.3693	0.1319		47.2277	47.2277		47.2263	47.2263	4,943.3681	2,099.6188	7,042.9869	4.5881	0.3888	7,259.8755

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 Vegetation

McKinley Village Bldg Phase 1

Sacramento Valley Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	178.00	Dwelling Unit	17.00	320,400.00	356

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	65
Climate Zone	6			Operational Year	2018
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - city's population per household (per census) is 2.0; lot acreage reflects 1/3 of overall site size

Construction Phase - per applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Trips and VMT - applicant construction data

Construction Off-road Equipment Mitigation -

Grading -

Architectural Coating -

Vehicle Trips -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Exterior	216,270.00	114,210.00
tblArchitecturalCoating	ConstArea_Residential_Interior	648,810.00	342,630.00
tblAreaCoating	Area_Nonresidential_Interior	0	3750
tblAreaCoating	Area_Residential_Exterior	216270	133650
tblAreaCoating	Area_Residential_Interior	648810	400950
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	15.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstructionPhase	NumDays	20.00	131.00
tblConstructionPhase	NumDays	300.00	131.00
tblConstructionPhase	PhaseEndDate	5/2/2016	10/31/2015
tblConstructionPhase	PhaseEndDate	10/30/2015	10/31/2015
tblConstructionPhase	PhaseStartDate	11/1/2015	5/1/2015
tblLandUse	LotAcreage	57.79	17.00

tblLandUse	Population	509.00	356.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	15.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	5.00
tblOffRoadEquipment	UsageHours	8.00	5.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	OperationalYear	2014	2018
tblSolidWaste	SolidWasteGenerationRate	126.54	111.97
tblTripsAndVMT	VendorTripNumber	19.00	20.00
tblTripsAndVMT	WorkerTripNumber	64.00	55.00
tblTripsAndVMT	WorkerTripNumber	13.00	12.00
tblWater	IndoorWaterUseRate	11,597,416.56	7,166,942.82
tblWater	OutdoorWaterUseRate	7,311,414.79	4,518,290.04

2.0 Emissions Summary

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	12.7731	0.1670	15.0898	5.4400e-003		1.9403	1.9403		1.9402	1.9402	183.8665	79.2698	263.1363	0.1718	0.0145	271.2279
Energy	0.0309	0.2637	0.1122	1.6800e-003		0.0213	0.0213		0.0213	0.0213	0.0000	659.8733	659.8733	0.0233	9.2000e-003	663.2145
Mobile	3.1633	3.2462	12.4705	0.0270	1.7454	0.0443	1.7897	0.4684	0.0408	0.5092	0.0000	2,038.5099	2,038.5099	0.0764	0.0000	2,040.1139
Waste						0.0000	0.0000		0.0000	0.0000	22.7289	0.0000	22.7289	1.3432	0.0000	50.9369
Water						0.0000	0.0000		0.0000	0.0000	2.2737	14.6182	16.8919	0.2343	5.6600e-003	23.5667
Total	15.9673	3.6769	27.6726	0.0342	1.7454	2.0059	3.7513	0.4684	2.0023	2.4707	208.8691	2,792.2712	3,001.1403	1.8490	0.0293	3,049.0599

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	12.7731	0.1670	15.0898	5.4400e-003		1.9403	1.9403		1.9402	1.9402	183.8665	79.2698	263.1363	0.1718	0.0145	271.2279
Energy	0.0309	0.2637	0.1122	1.6800e-003		0.0213	0.0213		0.0213	0.0213	0.0000	659.8733	659.8733	0.0233	9.2000e-003	663.2145
Mobile	3.1633	3.2462	12.4705	0.0270	1.7454	0.0443	1.7897	0.4684	0.0408	0.5092	0.0000	2,038.5099	2,038.5099	0.0764	0.0000	2,040.1139
Waste						0.0000	0.0000		0.0000	0.0000	22.7289	0.0000	22.7289	1.3432	0.0000	50.9369
Water						0.0000	0.0000		0.0000	0.0000	2.2737	14.6182	16.8919	0.2342	5.6500e-003	23.5631
Total	15.9673	3.6769	27.6726	0.0342	1.7454	2.0059	3.7513	0.4684	2.0023	2.4707	208.8691	2,792.2712	3,001.1403	1.8489	0.0293	3,049.0563

	ROG	NOx	CO	SO2	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	0.03	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	Building Construction	Building Construction	5/1/2015	10/31/2015	5	131	
2	Architectural Coating	Architectural Coating	5/1/2015	10/31/2015	5	131	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 342,630; Residential Outdoor: 114,210; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	5.00	226	0.29
Building Construction	Forklifts	4	5.00	89	0.20
Building Construction	Generator Sets	6	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	4	4.00	97	0.37
Building Construction	Welders	4	4.00	46	0.45
Architectural Coating	Air Compressors	15	8.00	78	0.48
Architectural Coating	Cement and Mortar Mixers	7	6.00	9	0.56
Architectural Coating	Pressure Washers	4	6.00	13	0.30

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
Building Construction	19	55.00	20.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	26	12.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Oxidation Catalyst for Construction Equipment

Clean Paved Roads

3.2 Building Construction - 2015**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.4796	3.4489	2.4258	3.8100e-003		0.2502	0.2502		0.2438	0.2438	0.0000	331.5240	331.5240	0.0547	0.0000	332.6716
Total	0.4796	3.4489	2.4258	3.8100e-003		0.2502	0.2502		0.2438	0.2438	0.0000	331.5240	331.5240	0.0547	0.0000	332.6716

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0437	0.1417	0.2258	3.1000e-004	8.4100e-003	2.3900e-003	0.0108	2.4100e-003	2.2000e-003	4.6100e-003	0.0000	28.4915	28.4915	2.5000e-004	0.0000	28.4967
Worker	0.0623	0.0192	0.1935	3.4000e-004	0.0285	2.3000e-004	0.0287	7.5700e-003	2.1000e-004	7.7800e-003	0.0000	26.4869	26.4869	1.5500e-003	0.0000	26.5194
Total	0.1060	0.1609	0.4194	6.5000e-004	0.0369	2.6200e-003	0.0395	9.9800e-003	2.4100e-003	0.0124	0.0000	54.9784	54.9784	1.8000e-003	0.0000	55.0161

3.2 Building Construction - 2015

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.4796	2.7591	2.4258	3.8100e-003		0.2502	0.2502		0.2438	0.2438	0.0000	331.5236	331.5236	0.0547	0.0000	332.6712
Total	0.4796	2.7591	2.4258	3.8100e-003		0.2502	0.2502		0.2438	0.2438	0.0000	331.5236	331.5236	0.0547	0.0000	332.6712

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0437	0.1417	0.2258	3.1000e-004	8.4100e-003	2.3900e-003	0.0108	2.4100e-003	2.2000e-003	4.6100e-003	0.0000	28.4915	28.4915	2.5000e-004	0.0000	28.4967
Worker	0.0623	0.0192	0.1935	3.4000e-004	0.0285	2.3000e-004	0.0287	7.5700e-003	2.1000e-004	7.7800e-003	0.0000	26.4869	26.4869	1.5500e-003	0.0000	26.5194
Total	0.1060	0.1609	0.4194	6.5000e-004	0.0369	2.6200e-003	0.0395	9.9800e-003	2.4100e-003	0.0124	0.0000	54.9784	54.9784	1.8000e-003	0.0000	55.0161

3.3 Architectural Coating - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.6468					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5630	3.5640	2.6468	4.2500e-003		0.2984	0.2984		0.2984	0.2984	0.0000	357.2035	357.2035	0.0460	0.0000	358.1697
Total	3.2098	3.5640	2.6468	4.2500e-003		0.2984	0.2984		0.2984	0.2984	0.0000	357.2035	357.2035	0.0460	0.0000	358.1697

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0136	4.2000e-003	0.0422	7.0000e-005	6.2100e-003	5.0000e-005	6.2600e-003	1.6500e-003	5.0000e-005	1.7000e-003	0.0000	5.7790	5.7790	3.4000e-004	0.0000	5.7861
Total	0.0136	4.2000e-003	0.0422	7.0000e-005	6.2100e-003	5.0000e-005	6.2600e-003	1.6500e-003	5.0000e-005	1.7000e-003	0.0000	5.7790	5.7790	3.4000e-004	0.0000	5.7861

3.3 Architectural Coating - 2015

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.6468					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5630	2.8512	2.6468	4.2500e-003		0.2984	0.2984		0.2984	0.2984	0.0000	357.2031	357.2031	0.0460	0.0000	358.1693
Total	3.2098	2.8512	2.6468	4.2500e-003		0.2984	0.2984		0.2984	0.2984	0.0000	357.2031	357.2031	0.0460	0.0000	358.1693

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0136	4.2000e-003	0.0422	7.0000e-005	6.2100e-003	5.0000e-005	6.2600e-003	1.6500e-003	5.0000e-005	1.7000e-003	0.0000	5.7790	5.7790	3.4000e-004	0.0000	5.7861
Total	0.0136	4.2000e-003	0.0422	7.0000e-005	6.2100e-003	5.0000e-005	6.2600e-003	1.6500e-003	5.0000e-005	1.7000e-003	0.0000	5.7790	5.7790	3.4000e-004	0.0000	5.7861

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.1633	3.2462	12.4705	0.0270	1.7454	0.0443	1.7897	0.4684	0.0408	0.5092	0.0000	2,038.5099	2,038.5099	0.0764	0.0000	2,040.1139
Unmitigated	3.1633	3.2462	12.4705	0.0270	1.7454	0.0443	1.7897	0.4684	0.0408	0.5092	0.0000	2,038.5099	2,038.5099	0.0764	0.0000	2,040.1139

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	1,703.46	1,794.24	1561.06	4,686,408	4,686,408
Total	1,703.46	1,794.24	1,561.06	4,686,408	4,686,408

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
Single Family Housing	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.462115	0.061823	0.181510	0.153742	0.057112	0.007288	0.019722	0.042680	0.001823	0.001665	0.006988	0.000686	0.002845

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	354.4714	354.4714	0.0174	3.6000e-003	355.9540
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	354.4714	354.4714	0.0174	3.6000e-003	355.9540
NaturalGas Mitigated	0.0309	0.2637	0.1122	1.6800e-003		0.0213	0.0213		0.0213	0.0213	0.0000	305.4019	305.4019	5.8500e-003	5.6000e-003	307.2605
NaturalGas Unmitigated	0.0309	0.2637	0.1122	1.6800e-003		0.0213	0.0213		0.0213	0.0213	0.0000	305.4019	305.4019	5.8500e-003	5.6000e-003	307.2605

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	5.72302e+006	0.0309	0.2637	0.1122	1.6800e-003		0.0213	0.0213		0.0213	0.0213	0.0000	305.4019	305.4019	5.8500e-003	5.6000e-003	307.2605
Total		0.0309	0.2637	0.1122	1.6800e-003		0.0213	0.0213		0.0213	0.0213	0.0000	305.4019	305.4019	5.8500e-003	5.6000e-003	307.2605

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	5.72302e+006	0.0309	0.2637	0.1122	1.6800e-003		0.0213	0.0213		0.0213	0.0213	0.0000	305.4019	305.4019	5.8500e-003	5.6000e-003	307.2605
Total		0.0309	0.2637	0.1122	1.6800e-003		0.0213	0.0213		0.0213	0.0213	0.0000	305.4019	305.4019	5.8500e-003	5.6000e-003	307.2605

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	1.32384e+006	354.4714	0.0174	3.6000e-003	355.9540
Total		354.4714	0.0174	3.6000e-003	355.9540

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	1.32384e+006	354.4714	0.0174	3.6000e-003	355.9540
Total		354.4714	0.0174	3.6000e-003	355.9540

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	12.7731	0.1670	15.0898	5.4400e-003		1.9403	1.9403		1.9402	1.9402	183.8665	79.2698	263.1363	0.1718	0.0145	271.2279
Unmitigated	12.7731	0.1670	15.0898	5.4400e-003		1.9403	1.9403		1.9402	1.9402	183.8665	79.2698	263.1363	0.1718	0.0145	271.2279

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3119					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.2513					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	11.1688	0.1515	13.7588	5.3700e-003		1.9330	1.9330		1.9330	1.9330	183.8665	77.1109	260.9774	0.1697	0.0145	269.0240
Landscaping	0.0410	0.0155	1.3310	7.0000e-005		7.2600e-003	7.2600e-003		7.2600e-003	7.2600e-003	0.0000	2.1589	2.1589	2.1400e-003	0.0000	2.2039
Total	12.7731	0.1670	15.0898	5.4400e-003		1.9403	1.9403		1.9402	1.9402	183.8665	79.2699	263.1363	0.1718	0.0145	271.2279

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3119					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.2513					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	11.1688	0.1515	13.7588	5.3700e-003		1.9330	1.9330		1.9330	1.9330	183.8665	77.1109	260.9774	0.1697	0.0145	269.0240
Landscaping	0.0410	0.0155	1.3310	7.0000e-005		7.2600e-003	7.2600e-003		7.2600e-003	7.2600e-003	0.0000	2.1589	2.1589	2.1400e-003	0.0000	2.2039
Total	12.7731	0.1670	15.0898	5.4400e-003		1.9403	1.9403		1.9402	1.9402	183.8665	79.2699	263.1363	0.1718	0.0145	271.2279

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	16.8919	0.2342	5.6500e-003	23.5631
Unmitigated	16.8919	0.2343	5.6600e-003	23.5667

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	7.16694 / 4.51829	16.8919	0.2343	5.6600e-003	23.5667
Total		16.8919	0.2343	5.6600e-003	23.5667

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	7.16694 / 4.51829	16.8919	0.2342	5.6500e-003	23.5631
Total		16.8919	0.2342	5.6500e-003	23.5631

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	22.7289	1.3432	0.0000	50.9369
Unmitigated	22.7289	1.3432	0.0000	50.9369

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	111.97	22.7289	1.3432	0.0000	50.9369
Total		22.7289	1.3432	0.0000	50.9369

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	111.97	22.7289	1.3432	0.0000	50.9369
Total		22.7289	1.3432	0.0000	50.9369

9.0 Operational Offroad

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

ALTERNATIVE 4

Building Construction Phase 2

- ◆ **Winter**
- ◆ **Annual**

McKinley Village Bldg Phase 2 Sacramento Valley Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	178.00	Dwelling Unit	17.00	320,400.00	356

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	65
Climate Zone	6			Operational Year	2018
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	590.31	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 - city's population per household (per census) is 2.0; lot acreage reflects 1/3 of overall site size

Construction Phase - per applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Trips and VMT - applicant construction data

Construction Off-road Equipment Mitigation -

Architectural Coating -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Exterior	216,270.00	132,435.00

tblArchitecturalCoating	ConstArea_Residential_Interior	648,810.00	397,305.00
tblAreaCoating	Area_Nonresidential_Interior	0	3750
tblAreaCoating	Area_Residential_Exterior	216270	133650
tblAreaCoating	Area_Residential_Interior	648810	400950
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	15.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstructionPhase	NumDays	20.00	260.00
tblConstructionPhase	NumDays	300.00	260.00
tblConstructionPhase	PhaseEndDate	10/27/2017	10/30/2016
tblConstructionPhase	PhaseEndDate	10/28/2016	10/30/2016
tblConstructionPhase	PhaseStartDate	10/31/2016	11/1/2015
tblFireplaces	NumberGas	97.90	60.50
tblFireplaces	NumberNoFireplace	17.80	11.00
tblFireplaces	NumberWood	62.30	38.50

tblLandUse	LotAcreage	57.79	17.00
tblLandUse	Population	509.00	356.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	15.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	5.00
tblOffRoadEquipment	UsageHours	8.00	5.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	OperationalYear	2014	2018
tblSolidWaste	SolidWasteGenerationRate	126.54	111.97
tblTripsAndVMT	VendorTripNumber	19.00	20.00
tblTripsAndVMT	WorkerTripNumber	64.00	55.00
tblTripsAndVMT	WorkerTripNumber	13.00	12.00
tblWater	IndoorWaterUseRate	11,597,416.56	7,166,942.82
tblWater	OutdoorWaterUseRate	7,311,414.79	4,518,290.04
tblWoodstoves	NumberCatalytic	8.90	5.50
tblWoodstoves	NumberNoncatalytic	8.90	5.50

2.0 Emissions Summary

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	177.3650	2.4556	222.1701	0.0818		29.2165	29.2165		29.2156	29.2156	3,054.8904	1,307.6188	4,362.5092	2.8454	0.2403	4,496.7517
Energy	0.1691	1.4450	0.6149	9.2200e-003		0.1168	0.1168		0.1168	0.1168		1,844.6463	1,844.6463	0.0354	0.0338	1,855.8725
Mobile	20.7818	19.7954	81.4193	0.1542	10.5458	0.2587	10.8045	2.8208	0.2382	3.0590		12,818.7362	12,818.7362	0.4904		12,829.0340
Total	198.3159	23.6959	304.2043	0.2452	10.5458	29.5921	40.1379	2.8208	29.5706	32.3914	3,054.8904	15,971.0012	19,025.8916	3.3711	0.2741	19,181.6582

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	177.3650	2.4556	222.1701	0.0818		29.2165	29.2165		29.2156	29.2156	3,054.8904	1,307.6188	4,362.5092	2.8454	0.2403	4,496.7517
Energy	0.1691	1.4450	0.6149	9.2200e-003		0.1168	0.1168		0.1168	0.1168		1,844.6463	1,844.6463	0.0354	0.0338	1,855.8725
Mobile	20.7818	19.7954	81.4193	0.1542	10.5458	0.2587	10.8045	2.8208	0.2382	3.0590		12,818.7362	12,818.7362	0.4904		12,829.0340
Total	198.3159	23.6959	304.2043	0.2452	10.5458	29.5921	40.1379	2.8208	29.5706	32.3914	3,054.8904	15,971.0012	19,025.8916	3.3711	0.2741	19,181.6582

	ROG	NOx	CO	SO2	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	Building Construction	Building Construction	11/1/2015	10/30/2016	5	260	
2	Architectural Coating	Architectural Coating	11/1/2015	10/30/2016	5	260	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 397,305; Residential Outdoor: 132,435; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	5.00	226	0.29
Building Construction	Forklifts	4	5.00	89	0.20
Building Construction	Generator Sets	6	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	4	6.00	97	0.37
Building Construction	Welders	4	4.00	46	0.45
Architectural Coating	Air Compressors	15	8.00	78	0.48
Architectural Coating	Cement and Mortar Mixers	7	6.00	9	0.56
Architectural Coating	Pressure Washers	4	6.00	13	0.30

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
Building Construction	19	55.00	20.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	26	12.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Oxidation Catalyst for Construction Equipment

Clean Paved Roads

3.2 Building Construction - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	7.6826	56.0867	39.4602	0.0613		4.0890	4.0890		3.9696	3.9696		5,906.7642	5,906.7642	1.0175		5,928.1315
Total	7.6826	56.0867	39.4602	0.0613		4.0890	4.0890		3.9696	3.9696		5,906.7642	5,906.7642	1.0175		5,928.1315

3.2 Building Construction - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.7549	2.2002	4.2963	4.7500e-003	0.1326	0.0368	0.1695	0.0378	0.0338	0.0717		477.3644	477.3644	4.2100e-003			477.4528
Worker	1.0992	0.3287	3.0818	5.0800e-003	0.4518	3.5700e-003	0.4554	0.1198	3.2600e-003	0.1231		433.0100	433.0100	0.0261			433.5571
Total	1.8541	2.5289	7.3780	9.8300e-003	0.5845	0.0404	0.6249	0.1577	0.0371	0.1948		910.3744	910.3744	0.0303			911.0099

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	7.6826	44.8693	39.4602	0.0613		4.0890	4.0890		3.9696	3.9696	0.0000	5,906.7642	5,906.7642	1.0175			5,928.1315
Total	7.6826	44.8693	39.4602	0.0613		4.0890	4.0890		3.9696	3.9696	0.0000	5,906.7642	5,906.7642	1.0175			5,928.1315

3.2 Building Construction - 2015**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.7549	2.2002	4.2963	4.7500e-003	0.1326	0.0368	0.1695	0.0378	0.0338	0.0717		477.3644	477.3644	4.2100e-003		477.4528
Worker	1.0992	0.3287	3.0818	5.0800e-003	0.4518	3.5700e-003	0.4554	0.1198	3.2600e-003	0.1231		433.0100	433.0100	0.0261		433.5571
Total	1.8541	2.5289	7.3780	9.8300e-003	0.5845	0.0404	0.6249	0.1577	0.0371	0.1948		910.3744	910.3744	0.0303		911.0099

3.2 Building Construction - 2016**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	6.9985	52.5933	39.0189	0.0613		3.7188	3.7188		3.6066	3.6066		5,887.3963	5,887.3963	0.9659		5,907.6806
Total	6.9985	52.5933	39.0189	0.0613		3.7188	3.7188		3.6066	3.6066		5,887.3963	5,887.3963	0.9659		5,907.6806

3.2 Building Construction - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.6277	1.9126	3.9556	4.7300e-003	0.1326	0.0309	0.1635	0.0378	0.0284	0.0662		471.4021	471.4021	3.8200e-003			471.4823
Worker	1.0000	0.2915	2.7189	5.0900e-003	0.4518	3.3900e-003	0.4552	0.1198	3.1000e-003	0.1229		417.9986	417.9986	0.0237			418.4954
Total	1.6277	2.2041	6.6744	9.8200e-003	0.5845	0.0343	0.6187	0.1577	0.0315	0.1891		889.4007	889.4007	0.0275			889.9778

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	6.9985	42.0746	39.0189	0.0613		3.7188	3.7188		3.6066	3.6066	0.0000	5,887.3963	5,887.3963	0.9659			5,907.6806
Total	6.9985	42.0746	39.0189	0.0613		3.7188	3.7188		3.6066	3.6066	0.0000	5,887.3963	5,887.3963	0.9659			5,907.6806

3.2 Building Construction - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.6277	1.9126	3.9556	4.7300e-003	0.1326	0.0309	0.1635	0.0378	0.0284	0.0662		471.4021	471.4021	3.8200e-003			471.4823
Worker	1.0000	0.2915	2.7189	5.0900e-003	0.4518	3.3900e-003	0.4552	0.1198	3.1000e-003	0.1229		417.9986	417.9986	0.0237			418.4954
Total	1.6277	2.2041	6.6744	9.8200e-003	0.5845	0.0343	0.6187	0.1577	0.0315	0.1891		889.4007	889.4007	0.0275			889.9778

3.3 Architectural Coating - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	23.6091					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	8.5955	54.4125	40.4085	0.0648		4.5552	4.5552		4.5552	4.5552		6,011.4421	6,011.4421	0.7743			6,027.7029
Total	32.2046	54.4125	40.4085	0.0648		4.5552	4.5552		4.5552	4.5552		6,011.4421	6,011.4421	0.7743			6,027.7029

3.3 Architectural Coating - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.2398	0.0717	0.6724	1.1100e-003	0.0986	7.8000e-004	0.0994	0.0262	7.1000e-004	0.0269		94.4749	94.4749	5.6800e-003			94.5943
Total	0.2398	0.0717	0.6724	1.1100e-003	0.0986	7.8000e-004	0.0994	0.0262	7.1000e-004	0.0269		94.4749	94.4749	5.6800e-003			94.5943

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	23.6091					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Off-Road	8.5955	43.5300	40.4085	0.0648		4.5552	4.5552		4.5552	4.5552	0.0000	6,011.4421	6,011.4421	0.7743			6,027.7029
Total	32.2046	43.5300	40.4085	0.0648		4.5552	4.5552		4.5552	4.5552	0.0000	6,011.4421	6,011.4421	0.7743			6,027.7029

3.3 Architectural Coating - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2398	0.0717	0.6724	1.1100e-003	0.0986	7.8000e-004	0.0994	0.0262	7.1000e-004	0.0269		94.4749	94.4749	5.6800e-003		94.5943
Total	0.2398	0.0717	0.6724	1.1100e-003	0.0986	7.8000e-004	0.0994	0.0262	7.1000e-004	0.0269		94.4749	94.4749	5.6800e-003		94.5943

3.3 Architectural Coating - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	23.6091					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	7.8268	50.4099	40.0447	0.0648		4.0647	4.0647		4.0647	4.0647		6,011.442 1	6,011.442 1	0.7046		6,026.238 2
Total	31.4359	50.4099	40.0447	0.0648		4.0647	4.0647		4.0647	4.0647		6,011.442 1	6,011.442 1	0.7046		6,026.238 2

3.3 Architectural Coating - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2182	0.0636	0.5932	1.1100e-003	0.0986	7.4000e-004	0.0993	0.0262	6.8000e-004	0.0268		91.1997	91.1997	5.1600e-003		91.3081
Total	0.2182	0.0636	0.5932	1.1100e-003	0.0986	7.4000e-004	0.0993	0.0262	6.8000e-004	0.0268		91.1997	91.1997	5.1600e-003		91.3081

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	23.6091					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	7.8268	40.3279	40.0447	0.0648		4.0647	4.0647		4.0647	4.0647	0.0000	6,011.442 1	6,011.442 1	0.7046		6,026.238 2
Total	31.4359	40.3279	40.0447	0.0648		4.0647	4.0647		4.0647	4.0647	0.0000	6,011.442 1	6,011.442 1	0.7046		6,026.238 2

3.3 Architectural Coating - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.2182	0.0636	0.5932	1.1100e-003	0.0986	7.4000e-004	0.0993	0.0262	6.8000e-004	0.0268		91.1997	91.1997	5.1600e-003			91.3081
Total	0.2182	0.0636	0.5932	1.1100e-003	0.0986	7.4000e-004	0.0993	0.0262	6.8000e-004	0.0268		91.1997	91.1997	5.1600e-003			91.3081

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					
Mitigated	20.7818	19.7954	81.4193	0.1542	10.5458	0.2587	10.8045	2.8208	0.2382	3.0590		12,818.73 62	12,818.73 62	0.4904		12,829.03 40
Unmitigated	20.7818	19.7954	81.4193	0.1542	10.5458	0.2587	10.8045	2.8208	0.2382	3.0590		12,818.73 62	12,818.73 62	0.4904		12,829.03 40

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	1,703.46	1,794.24	1561.06	4,686,408	4,686,408
Total	1,703.46	1,794.24	1,561.06	4,686,408	4,686,408

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
Single Family Housing	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.462115	0.061823	0.181510	0.153742	0.057112	0.007288	0.019722	0.042680	0.001823	0.001665	0.006988	0.000686	0.002845

5.0 Energy Detail

4.4 Fleet Mix

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					
NaturalGas Mitigated	0.1691	1.4450	0.6149	9.2200e-003		0.1168	0.1168		0.1168	0.1168		1,844.6463	1,844.6463	0.0354	0.0338	1,855,8725
NaturalGas Unmitigated	0.1691	1.4450	0.6149	9.2200e-003		0.1168	0.1168		0.1168	0.1168		1,844.6463	1,844.6463	0.0354	0.0338	1,855,8725

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	15679.5	0.1691	1.4450	0.6149	9.2200e-003		0.1168	0.1168		0.1168	0.1168		1,844.6463	1,844.6463	0.0354	0.0338	1,855.8725
Total		0.1691	1.4450	0.6149	9.2200e-003		0.1168	0.1168		0.1168	0.1168		1,844.6463	1,844.6463	0.0354	0.0338	1,855.8725

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	15.6795	0.1691	1.4450	0.6149	9.2200e-003		0.1168	0.1168		0.1168	0.1168		1,844.6463	1,844.6463	0.0354	0.0338	1,855.8725
Total		0.1691	1.4450	0.6149	9.2200e-003		0.1168	0.1168		0.1168	0.1168		1,844.6463	1,844.6463	0.0354	0.0338	1,855.8725

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					
Mitigated	177.3650	2.4556	222.1701	0.0818		29.2165	29.2165		29.2156	29.2156	3,054.8904	1,307.6188	4,362.5092	2.8454	0.2403	4,496.7517
Unmitigated	177.3650	2.4556	222.1701	0.0818		29.2165	29.2165		29.2156	29.2156	3,054.8904	1,307.6188	4,362.5092	2.8454	0.2403	4,496.7517

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.7091					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.8566					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	168.3435	2.2840	207.3811	0.0810		29.1358	29.1358		29.1349	29.1349	3,054.8904	1,281.1765	4,336.0669	2.8192	0.2403	4,469.7591
Landscaping	0.4559	0.1717	14.7891	7.8000e-004		0.0807	0.0807		0.0807	0.0807		26.4423	26.4423	0.0262		26.9926
Total	177.3650	2.4556	222.1701	0.0818		29.2165	29.2165		29.2157	29.2157	3,054.8904	1,307.6188	4,362.5092	2.8454	0.2403	4,496.7517

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.7091					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.8566					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	168.3435	2.2840	207.3811	0.0810		29.1358	29.1358		29.1349	29.1349	3,054.8904	1,281.1765	4,336.0669	2.8192	0.2403	4,469.7591
Landscaping	0.4559	0.1717	14.7891	7.8000e-004		0.0807	0.0807		0.0807	0.0807		26.4423	26.4423	0.0262		26.9926
Total	177.3650	2.4556	222.1701	0.0818		29.2165	29.2165		29.2157	29.2157	3,054.8904	1,307.6188	4,362.5092	2.8454	0.2403	4,496.7517

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 Vegetation

McKinley Village Bldg Phase 2 Sacramento Valley Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	178.00	Dwelling Unit	17.00	320,400.00	356

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	65
Climate Zone	6			Operational Year	2018
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - city's population per household (per census) is 2.0; lot acreage reflects 1/3 of overall site size

Construction Phase - per applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Trips and VMT - applicant construction data

Construction Off-road Equipment Mitigation -

Architectural Coating -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Exterior	216,270.00	132,435.00

tblArchitecturalCoating	ConstArea_Residential_Interior	648,810.00	397,305.00
tblAreaCoating	Area_Nonresidential_Interior	0	3750
tblAreaCoating	Area_Residential_Exterior	216270	133650
tblAreaCoating	Area_Residential_Interior	648810	400950
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	15.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstructionPhase	NumDays	20.00	260.00
tblConstructionPhase	NumDays	300.00	260.00
tblConstructionPhase	PhaseEndDate	10/27/2017	10/30/2016
tblConstructionPhase	PhaseEndDate	10/28/2016	10/30/2016
tblConstructionPhase	PhaseStartDate	10/31/2016	11/1/2015
tblFireplaces	NumberGas	97.90	60.50
tblFireplaces	NumberNoFireplace	17.80	11.00
tblFireplaces	NumberWood	62.30	38.50

tblLandUse	LotAcreage	57.79	17.00
tblLandUse	Population	509.00	356.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	15.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	5.00
tblOffRoadEquipment	UsageHours	8.00	5.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	OperationalYear	2014	2018
tblSolidWaste	SolidWasteGenerationRate	126.54	111.97
tblTripsAndVMT	VendorTripNumber	19.00	20.00
tblTripsAndVMT	WorkerTripNumber	64.00	55.00
tblTripsAndVMT	WorkerTripNumber	13.00	12.00
tblWater	IndoorWaterUseRate	11,597,416.56	7,166,942.82
tblWater	OutdoorWaterUseRate	7,311,414.79	4,518,290.04
tblWoodstoves	NumberCatalytic	8.90	5.50
tblWoodstoves	NumberNoncatalytic	8.90	5.50

2.0 Emissions Summary

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	8.5063	0.1091	9.8336	3.3900e-003		1.2018	1.2018		1.2018	1.2018	113.6254	49.8117	163.4371	0.1070	8.9400e-003	168.4546
Energy	0.0309	0.2637	0.1122	1.6800e-003		0.0213	0.0213		0.0213	0.0213	0.0000	659.8733	659.8733	0.0233	9.2000e-003	663.2145
Mobile	3.1633	3.2462	12.4705	0.0270	1.7454	0.0443	1.7897	0.4684	0.0408	0.5092	0.0000	2,038.5099	2,038.5099	0.0764	0.0000	2,040.1139
Waste						0.0000	0.0000		0.0000	0.0000	22.7289	0.0000	22.7289	1.3432	0.0000	50.9369
Water						0.0000	0.0000		0.0000	0.0000	2.2737	14.6182	16.8919	0.2343	5.6600e-003	23.5667
Total	11.7005	3.6190	22.4164	0.0321	1.7454	1.2675	3.0128	0.4684	1.2639	1.7323	138.6280	2,762.8131	2,901.4411	1.7841	0.0238	2,946.2867

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	8.5063	0.1091	9.8336	3.3900e-003		1.2018	1.2018		1.2018	1.2018	113.6254	49.8117	163.4371	0.1070	8.9400e-003	168.4546
Energy	0.0309	0.2637	0.1122	1.6800e-003		0.0213	0.0213		0.0213	0.0213	0.0000	659.8733	659.8733	0.0233	9.2000e-003	663.2145
Mobile	3.1633	3.2462	12.4705	0.0270	1.7454	0.0443	1.7897	0.4684	0.0408	0.5092	0.0000	2,038.5099	2,038.5099	0.0764	0.0000	2,040.1139
Waste						0.0000	0.0000		0.0000	0.0000	22.7289	0.0000	22.7289	1.3432	0.0000	50.9369
Water						0.0000	0.0000		0.0000	0.0000	2.2737	14.6182	16.8919	0.2342	5.6500e-003	23.5631
Total	11.7005	3.6190	22.4164	0.0321	1.7454	1.2675	3.0128	0.4684	1.2639	1.7323	138.6280	2,762.8131	2,901.4411	1.7841	0.0238	2,946.2831

	ROG	NOx	CO	SO2	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	0.04	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	Building Construction	Building Construction	11/1/2015	10/30/2016	5	260	
2	Architectural Coating	Architectural Coating	11/1/2015	10/30/2016	5	260	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 397,305; Residential Outdoor: 132,435; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	5.00	226	0.29
Building Construction	Forklifts	4	5.00	89	0.20
Building Construction	Generator Sets	6	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	4	6.00	97	0.37
Building Construction	Welders	4	4.00	46	0.45
Architectural Coating	Air Compressors	15	8.00	78	0.48
Architectural Coating	Cement and Mortar Mixers	7	6.00	9	0.56
Architectural Coating	Pressure Washers	4	6.00	13	0.30

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
Building Construction	19	55.00	20.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	26	12.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Oxidation Catalyst for Construction Equipment

Clean Paved Roads

3.2 Building Construction - 2015**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1690	1.2339	0.8681	1.3500e-003		0.0900	0.0900		0.0873	0.0873	0.0000	117.8876	117.8876	0.0203	0.0000	118.3140
Total	0.1690	1.2339	0.8681	1.3500e-003		0.0900	0.0900		0.0873	0.0873	0.0000	117.8876	117.8876	0.0203	0.0000	118.3140

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0147	0.0476	0.0758	1.0000e-004	2.8200e-003	8.0000e-004	3.6300e-003	8.1000e-004	7.4000e-004	1.5500e-003	0.0000	9.5697	9.5697	8.0000e-005	0.0000	9.5714
Worker	0.0209	6.4600e-003	0.0650	1.1000e-004	9.5600e-003	8.0000e-005	9.6300e-003	2.5400e-003	7.0000e-005	2.6100e-003	0.0000	8.8964	8.8964	5.2000e-004	0.0000	8.9073
Total	0.0356	0.0541	0.1409	2.1000e-004	0.0124	8.8000e-004	0.0133	3.3500e-003	8.1000e-004	4.1600e-003	0.0000	18.4660	18.4660	6.0000e-004	0.0000	18.4787

3.2 Building Construction - 2015

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1690	0.9871	0.8681	1.3500e-003		0.0900	0.0900		0.0873	0.0873	0.0000	117.8874	117.8874	0.0203	0.0000	118.3139
Total	0.1690	0.9871	0.8681	1.3500e-003		0.0900	0.0900		0.0873	0.0873	0.0000	117.8874	117.8874	0.0203	0.0000	118.3139

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0147	0.0476	0.0758	1.0000e-004	2.8200e-003	8.0000e-004	3.6300e-003	8.1000e-004	7.4000e-004	1.5500e-003	0.0000	9.5697	9.5697	8.0000e-005	0.0000	9.5714
Worker	0.0209	6.4600e-003	0.0650	1.1000e-004	9.5600e-003	8.0000e-005	9.6300e-003	2.5400e-003	7.0000e-005	2.6100e-003	0.0000	8.8964	8.8964	5.2000e-004	0.0000	8.9073
Total	0.0356	0.0541	0.1409	2.1000e-004	0.0124	8.8000e-004	0.0133	3.3500e-003	8.1000e-004	4.1600e-003	0.0000	18.4660	18.4660	6.0000e-004	0.0000	18.4787

3.2 Building Construction - 2016**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.7558	5.6801	4.2140	6.6200e-003		0.4016	0.4016		0.3895	0.3895	0.0000	576.8233	576.8233	0.0946	0.0000	578.8106
Total	0.7558	5.6801	4.2140	6.6200e-003		0.4016	0.4016		0.3895	0.3895	0.0000	576.8233	576.8233	0.0946	0.0000	578.8106

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0600	0.2031	0.3367	5.1000e-004	0.0139	3.3100e-003	0.0172	3.9700e-003	3.0400e-003	7.0100e-003	0.0000	46.3928	46.3928	3.7000e-004	0.0000	46.4006
Worker	0.0934	0.0281	0.2827	5.7000e-004	0.0469	3.7000e-004	0.0473	0.0125	3.4000e-004	0.0128	0.0000	42.1611	42.1611	2.3200e-003	0.0000	42.2097
Total	0.1534	0.2313	0.6194	1.0800e-003	0.0608	3.6800e-003	0.0644	0.0165	3.3800e-003	0.0198	0.0000	88.5539	88.5539	2.6900e-003	0.0000	88.6103

3.2 Building Construction - 2016

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.7558	4.5441	4.2140	6.6200e-003		0.4016	0.4016		0.3895	0.3895	0.0000	576.8226	576.8226	0.0946	0.0000	578.8099
Total	0.7558	4.5441	4.2140	6.6200e-003		0.4016	0.4016		0.3895	0.3895	0.0000	576.8226	576.8226	0.0946	0.0000	578.8099

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0600	0.2031	0.3367	5.1000e-004	0.0139	3.3100e-003	0.0172	3.9700e-003	3.0400e-003	7.0100e-003	0.0000	46.3928	46.3928	3.7000e-004	0.0000	46.4006
Worker	0.0934	0.0281	0.2827	5.7000e-004	0.0469	3.7000e-004	0.0473	0.0125	3.4000e-004	0.0128	0.0000	42.1611	42.1611	2.3200e-003	0.0000	42.2097
Total	0.1534	0.2313	0.6194	1.0800e-003	0.0608	3.6800e-003	0.0644	0.0165	3.3800e-003	0.0198	0.0000	88.5539	88.5539	2.6900e-003	0.0000	88.6103

3.3 Architectural Coating - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5194					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1891	1.1971	0.8890	1.4300e-003		0.1002	0.1002		0.1002	0.1002	0.0000	119.9768	119.9768	0.0155	0.0000	120.3013
Total	0.7085	1.1971	0.8890	1.4300e-003		0.1002	0.1002		0.1002	0.1002	0.0000	119.9768	119.9768	0.0155	0.0000	120.3013

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5700e-003	1.4100e-003	0.0142	3.0000e-005	2.0800e-003	2.0000e-005	2.1000e-003	5.5000e-004	2.0000e-005	5.7000e-004	0.0000	1.9410	1.9410	1.1000e-004	0.0000	1.9434
Total	4.5700e-003	1.4100e-003	0.0142	3.0000e-005	2.0800e-003	2.0000e-005	2.1000e-003	5.5000e-004	2.0000e-005	5.7000e-004	0.0000	1.9410	1.9410	1.1000e-004	0.0000	1.9434

3.3 Architectural Coating - 2015

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5194					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1891	0.9577	0.8890	1.4300e-003		0.1002	0.1002		0.1002	0.1002	0.0000	119.9766	119.9766	0.0155	0.0000	120.3011
Total	0.7085	0.9577	0.8890	1.4300e-003		0.1002	0.1002		0.1002	0.1002	0.0000	119.9766	119.9766	0.0155	0.0000	120.3011

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5700e-003	1.4100e-003	0.0142	3.0000e-005	2.0800e-003	2.0000e-005	2.1000e-003	5.5000e-004	2.0000e-005	5.7000e-004	0.0000	1.9410	1.9410	1.1000e-004	0.0000	1.9434
Total	4.5700e-003	1.4100e-003	0.0142	3.0000e-005	2.0800e-003	2.0000e-005	2.1000e-003	5.5000e-004	2.0000e-005	5.7000e-004	0.0000	1.9410	1.9410	1.1000e-004	0.0000	1.9434

3.3 Architectural Coating - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.5498					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.8453	5.4443	4.3248	7.0000e-003		0.4390	0.4390		0.4390	0.4390	0.0000	588.9768	588.9768	0.0690	0.0000	590.4264
Total	3.3951	5.4443	4.3248	7.0000e-003		0.4390	0.4390		0.4390	0.4390	0.0000	588.9768	588.9768	0.0690	0.0000	590.4264

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0204	6.1400e-003	0.0617	1.2000e-004	0.0102	8.0000e-005	0.0103	2.7200e-003	7.0000e-005	2.8000e-003	0.0000	9.1988	9.1988	5.1000e-004	0.0000	9.2094
Total	0.0204	6.1400e-003	0.0617	1.2000e-004	0.0102	8.0000e-005	0.0103	2.7200e-003	7.0000e-005	2.8000e-003	0.0000	9.1988	9.1988	5.1000e-004	0.0000	9.2094

3.3 Architectural Coating - 2016

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.5498					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.8453	4.3554	4.3248	7.0000e-003		0.4390	0.4390		0.4390	0.4390	0.0000	588.9761	588.9761	0.0690	0.0000	590.4257
Total	3.3951	4.3554	4.3248	7.0000e-003		0.4390	0.4390		0.4390	0.4390	0.0000	588.9761	588.9761	0.0690	0.0000	590.4257

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0204	6.1400e-003	0.0617	1.2000e-004	0.0102	8.0000e-005	0.0103	2.7200e-003	7.0000e-005	2.8000e-003	0.0000	9.1988	9.1988	5.1000e-004	0.0000	9.2094
Total	0.0204	6.1400e-003	0.0617	1.2000e-004	0.0102	8.0000e-005	0.0103	2.7200e-003	7.0000e-005	2.8000e-003	0.0000	9.1988	9.1988	5.1000e-004	0.0000	9.2094

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.1633	3.2462	12.4705	0.0270	1.7454	0.0443	1.7897	0.4684	0.0408	0.5092	0.0000	2,038.5099	2,038.5099	0.0764	0.0000	2,040.1139
Unmitigated	3.1633	3.2462	12.4705	0.0270	1.7454	0.0443	1.7897	0.4684	0.0408	0.5092	0.0000	2,038.5099	2,038.5099	0.0764	0.0000	2,040.1139

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	1,703.46	1,794.24	1561.06	4,686,408	4,686,408
Total	1,703.46	1,794.24	1,561.06	4,686,408	4,686,408

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
Single Family Housing	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.462115	0.061823	0.181510	0.153742	0.057112	0.007288	0.019722	0.042680	0.001823	0.001665	0.006988	0.000686	0.002845

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	354.4714	354.4714	0.0174	3.6000e-003	355.9540
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	354.4714	354.4714	0.0174	3.6000e-003	355.9540
NaturalGas Mitigated	0.0309	0.2637	0.1122	1.6800e-003		0.0213	0.0213		0.0213	0.0213	0.0000	305.4019	305.4019	5.8500e-003	5.6000e-003	307.2605
NaturalGas Unmitigated	0.0309	0.2637	0.1122	1.6800e-003		0.0213	0.0213		0.0213	0.0213	0.0000	305.4019	305.4019	5.8500e-003	5.6000e-003	307.2605

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	5.72302e+006	0.0309	0.2637	0.1122	1.6800e-003		0.0213	0.0213		0.0213	0.0213	0.0000	305.4019	305.4019	5.8500e-003	5.6000e-003	307.2605
Total		0.0309	0.2637	0.1122	1.6800e-003		0.0213	0.0213		0.0213	0.0213	0.0000	305.4019	305.4019	5.8500e-003	5.6000e-003	307.2605

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	5.72302e+006	0.0309	0.2637	0.1122	1.6800e-003		0.0213	0.0213		0.0213	0.0213	0.0000	305.4019	305.4019	5.8500e-003	5.6000e-003	307.2605
Total		0.0309	0.2637	0.1122	1.6800e-003		0.0213	0.0213		0.0213	0.0213	0.0000	305.4019	305.4019	5.8500e-003	5.6000e-003	307.2605

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	1.32384e+006	354.4714	0.0174	3.6000e-003	355.9540
Total		354.4714	0.0174	3.6000e-003	355.9540

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	1.32384e+006	354.4714	0.0174	3.6000e-003	355.9540
Total		354.4714	0.0174	3.6000e-003	355.9540

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	8.5063	0.1091	9.8336	3.3900e-003		1.2018	1.2018		1.2018	1.2018	113.6254	49.8117	163.4371	0.1070	8.9400e-003	168.4546
Unmitigated	8.5063	0.1091	9.8336	3.3900e-003		1.2018	1.2018		1.2018	1.2018	113.6254	49.8117	163.4371	0.1070	8.9400e-003	168.4546

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3119					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.2513					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	6.9021	0.0936	8.5026	3.3200e-003		1.1946	1.1946		1.1945	1.1945	113.6254	47.6528	161.2782	0.1049	8.9400e-003	166.2508
Landscaping	0.0410	0.0155	1.3310	7.0000e-005		7.2600e-003	7.2600e-003		7.2600e-003	7.2600e-003	0.0000	2.1589	2.1589	2.1400e-003	0.0000	2.2039
Total	8.5063	0.1091	9.8336	3.3900e-003		1.2018	1.2018		1.2018	1.2018	113.6254	49.8117	163.4371	0.1070	8.9400e-003	168.4547

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3119					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.2513					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	6.9021	0.0936	8.5026	3.3200e-003		1.1946	1.1946		1.1945	1.1945	113.6254	47.6528	161.2782	0.1049	8.9400e-003	166.2508
Landscaping	0.0410	0.0155	1.3310	7.0000e-005		7.2600e-003	7.2600e-003		7.2600e-003	7.2600e-003	0.0000	2.1589	2.1589	2.1400e-003	0.0000	2.2039
Total	8.5063	0.1091	9.8336	3.3900e-003		1.2018	1.2018		1.2018	1.2018	113.6254	49.8117	163.4371	0.1070	8.9400e-003	168.4547

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	16.8919	0.2342	5.6500e-003	23.5631
Unmitigated	16.8919	0.2343	5.6600e-003	23.5667

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	7.16694 / 4.51829	16.8919	0.2343	5.6600e-003	23.5667
Total		16.8919	0.2343	5.6600e-003	23.5667

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	7.16694 / 4.51829	16.8919	0.2342	5.6500e-003	23.5631
Total		16.8919	0.2342	5.6500e-003	23.5631

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	22.7289	1.3432	0.0000	50.9369
Unmitigated	22.7289	1.3432	0.0000	50.9369

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	111.97	22.7289	1.3432	0.0000	50.9369
Total		22.7289	1.3432	0.0000	50.9369

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	111.97	22.7289	1.3432	0.0000	50.9369
Total		22.7289	1.3432	0.0000	50.9369

9.0 Operational Offroad

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

ALTERNATIVE 4

Building Construction Phase 3

- ◆ **Winter**
- ◆ **Annual**

McKinley Village Bldg Phase 3 Sacramento Valley Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	178.00	Dwelling Unit	17.00	320,400.00	356

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	65
Climate Zone	6			Operational Year	2018
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	590.31	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 - city's population per household (per census) is 2.0; lot acreage reflects 1/3 of overall site size

Construction Phase - per applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Trips and VMT - applicant construction data

Architectural Coating -

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Interior	0	3750

tblAreaCoating	Area_Residential_Exterior	216270	133650
tblAreaCoating	Area_Residential_Interior	648810	400950
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	15.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstructionPhase	NumDays	20.00	283.00
tblConstructionPhase	NumDays	300.00	283.00
tblConstructionPhase	PhaseEndDate	1/1/2019	11/30/2017
tblConstructionPhase	PhaseStartDate	12/1/2017	11/1/2016
tblFireplaces	NumberGas	97.90	60.50
tblFireplaces	NumberNoFireplace	17.80	11.00
tblFireplaces	NumberWood	62.30	38.50
tblLandUse	LotAcreage	57.79	17.00
tblLandUse	Population	509.00	356.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	15.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	5.00
tblOffRoadEquipment	UsageHours	8.00	5.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	OperationalYear	2014	2018
tblSolidWaste	SolidWasteGenerationRate	126.54	111.97
tblTripsAndVMT	VendorTripNumber	19.00	20.00
tblTripsAndVMT	WorkerTripNumber	64.00	55.00
tblTripsAndVMT	WorkerTripNumber	13.00	12.00
tblWater	IndoorWaterUseRate	11,597,416.56	7,166,942.82
tblWater	OutdoorWaterUseRate	7,311,414.79	4,518,290.04
tblWoodstoves	NumberCatalytic	8.90	5.50
tblWoodstoves	NumberNoncatalytic	8.90	5.50

2.0 Emissions Summary

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	177.3650	2.4556	222.1701	0.0818		29.2165	29.2165		29.2156	29.2156	3,054.890 4	1,307.618 8	4,362.509 2	2.8454	0.2403	4,496.751 7
Energy	0.1691	1.4450	0.6149	9.2200e-003		0.1168	0.1168		0.1168	0.1168		1,844.646 3	1,844.646 3	0.0354	0.0338	1,855.872 5
Mobile	20.7818	19.7954	81.4193	0.1542	10.5458	0.2587	10.8045	2.8208	0.2382	3.0590		12,818.73 62	12,818.73 62	0.4904		12,829.03 40
Total	198.3159	23.6959	304.2043	0.2452	10.5458	29.5921	40.1379	2.8208	29.5706	32.3914	3,054.890 4	15,971.00 12	19,025.89 16	3.3711	0.2741	19,181.65 82

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	177.3650	2.4556	222.1701	0.0818		29.2165	29.2165		29.2156	29.2156	3,054.890 4	1,307.618 8	4,362.509 2	2.8454	0.2403	4,496.751 7
Energy	0.1691	1.4450	0.6149	9.2200e-003		0.1168	0.1168		0.1168	0.1168		1,844.646 3	1,844.646 3	0.0354	0.0338	1,855.872 5
Mobile	20.7818	19.7954	81.4193	0.1542	10.5458	0.2587	10.8045	2.8208	0.2382	3.0590		12,818.73 62	12,818.73 62	0.4904		12,829.03 40
Total	198.3159	23.6959	304.2043	0.2452	10.5458	29.5921	40.1379	2.8208	29.5706	32.3914	3,054.890 4	15,971.00 12	19,025.89 16	3.3711	0.2741	19,181.65 82

	ROG	NOx	CO	SO2	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	Building Construction	Building Construction	11/1/2016	11/30/2017	5	283	
2	Architectural Coating	Architectural Coating	11/1/2016	11/30/2017	5	283	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 648,810; Residential Outdoor: 216,270; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	5.00	226	0.29
Building Construction	Forklifts	4	5.00	89	0.20
Building Construction	Generator Sets	6	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	4	6.00	97	0.37
Building Construction	Welders	4	4.00	46	0.45
Architectural Coating	Air Compressors	15	8.00	78	0.48
Architectural Coating	Cement and Mortar Mixers	7	6.00	9	0.56
Architectural Coating	Pressure Washers	4	6.00	13	0.30

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
Building Construction	19	55.00	20.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	26	12.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Oxidation Catalyst for Construction Equipment

3.2 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	6.9985	52.5933	39.0189	0.0613		3.7188	3.7188		3.6066	3.6066		5,887.3963	5,887.3963	0.9659		5,907.6806
Total	6.9985	52.5933	39.0189	0.0613		3.7188	3.7188		3.6066	3.6066		5,887.3963	5,887.3963	0.9659		5,907.6806

3.2 Building Construction - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.6277	1.9126	3.9556	4.7300e-003	0.1326	0.0309	0.1635	0.0378	0.0284	0.0662		471.4021	471.4021	3.8200e-003			471.4823
Worker	1.0000	0.2915	2.7189	5.0900e-003	0.4518	3.3900e-003	0.4552	0.1198	3.1000e-003	0.1229		417.9986	417.9986	0.0237			418.4954
Total	1.6277	2.2041	6.6744	9.8200e-003	0.5845	0.0343	0.6187	0.1577	0.0315	0.1891		889.4007	889.4007	0.0275			889.9778

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	6.9985	42.0746	39.0189	0.0613		3.7188	3.7188		3.6066	3.6066	0.0000	5,887.3963	5,887.3963	0.9659			5,907.6806
Total	6.9985	42.0746	39.0189	0.0613		3.7188	3.7188		3.6066	3.6066	0.0000	5,887.3963	5,887.3963	0.9659			5,907.6806

3.2 Building Construction - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.6277	1.9126	3.9556	4.7300e-003	0.1326	0.0309	0.1635	0.0378	0.0284	0.0662		471.4021	471.4021	3.8200e-003			471.4823
Worker	1.0000	0.2915	2.7189	5.0900e-003	0.4518	3.3900e-003	0.4552	0.1198	3.1000e-003	0.1229		417.9986	417.9986	0.0237			418.4954
Total	1.6277	2.2041	6.6744	9.8200e-003	0.5845	0.0343	0.6187	0.1577	0.0315	0.1891		889.4007	889.4007	0.0275			889.9778

3.2 Building Construction - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	6.3050	48.7724	38.4935	0.0613		3.3357	3.3357		3.2335	3.2335		5,859.3684	5,859.3684	0.9152			5,878.5870
Total	6.3050	48.7724	38.4935	0.0613		3.3357	3.3357		3.2335	3.2335		5,859.3684	5,859.3684	0.9152			5,878.5870

3.2 Building Construction - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.5363	1.6851	3.6786	4.7200e-003	0.1327	0.0260	0.1587	0.0378	0.0239	0.0617		463.3159	463.3159	3.5600e-003			463.3906
Worker	0.9052	0.2581	2.3795	5.0800e-003	0.4518	3.2400e-003	0.4551	0.1198	2.9800e-003	0.1228		401.3771	401.3771	0.0214			401.8273
Total	1.4415	1.9432	6.0581	9.8000e-003	0.5845	0.0292	0.6137	0.1577	0.0269	0.1845		864.6930	864.6930	0.0250			865.2179

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	6.3050	39.0179	38.4935	0.0613		3.3357	3.3357		3.2335	3.2335	0.0000	5,859.3684	5,859.3684	0.9152			5,878.5870
Total	6.3050	39.0179	38.4935	0.0613		3.3357	3.3357		3.2335	3.2335	0.0000	5,859.3684	5,859.3684	0.9152			5,878.5870

3.2 Building Construction - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.5363	1.6851	3.6786	4.7200e-003	0.1327	0.0260	0.1587	0.0378	0.0239	0.0617		463.3159	463.3159	3.5600e-003			463.3906
Worker	0.9052	0.2581	2.3795	5.0800e-003	0.4518	3.2400e-003	0.4551	0.1198	2.9800e-003	0.1228		401.3771	401.3771	0.0214			401.8273
Total	1.4415	1.9432	6.0581	9.8000e-003	0.5845	0.0292	0.6137	0.1577	0.0269	0.1845		864.6930	864.6930	0.0250			865.2179

3.3 Architectural Coating - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	35.4209					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	7.8268	50.4099	40.0447	0.0648		4.0647	4.0647		4.0647	4.0647		6,011.442 1	6,011.442 1	0.7046			6,026.238 2
Total	43.2477	50.4099	40.0447	0.0648		4.0647	4.0647		4.0647	4.0647		6,011.442 1	6,011.442 1	0.7046			6,026.238 2

3.3 Architectural Coating - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2182	0.0636	0.5932	1.1100e-003	0.0986	7.4000e-004	0.0993	0.0262	6.8000e-004	0.0268		91.1997	91.1997	5.1600e-003		91.3081
Total	0.2182	0.0636	0.5932	1.1100e-003	0.0986	7.4000e-004	0.0993	0.0262	6.8000e-004	0.0268		91.1997	91.1997	5.1600e-003		91.3081

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	35.4209					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	7.8268	40.3279	40.0447	0.0648		4.0647	4.0647		4.0647	4.0647	0.0000	6,011.442 1	6,011.442 1	0.7046		6,026.238 2
Total	43.2477	40.3279	40.0447	0.0648		4.0647	4.0647		4.0647	4.0647	0.0000	6,011.442 1	6,011.442 1	0.7046		6,026.238 2

3.3 Architectural Coating - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2182	0.0636	0.5932	1.1100e-003	0.0986	7.4000e-004	0.0993	0.0262	6.8000e-004	0.0268		91.1997	91.1997	5.1600e-003		91.3081
Total	0.2182	0.0636	0.5932	1.1100e-003	0.0986	7.4000e-004	0.0993	0.0262	6.8000e-004	0.0268		91.1997	91.1997	5.1600e-003		91.3081

3.3 Architectural Coating - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	35.4209					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	7.0989	46.6351	39.7230	0.0648		3.5953	3.5953		3.5953	3.5953		6,011.4417	6,011.4417	0.6348		6,024.7731
Total	42.5198	46.6351	39.7230	0.0648		3.5953	3.5953		3.5953	3.5953		6,011.4417	6,011.4417	0.6348		6,024.7731

3.3 Architectural Coating - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1975	0.0563	0.5192	1.1100e-003	0.0986	7.1000e-004	0.0993	0.0262	6.5000e-004	0.0268		87.5732	87.5732	4.6800e-003		87.6714
Total	0.1975	0.0563	0.5192	1.1100e-003	0.0986	7.1000e-004	0.0993	0.0262	6.5000e-004	0.0268		87.5732	87.5732	4.6800e-003		87.6714

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	35.4209					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	7.0989	37.3081	39.7230	0.0648		3.5953	3.5953		3.5953	3.5953	0.0000	6,011.4417	6,011.4417	0.6348		6,024.7731
Total	42.5198	37.3081	39.7230	0.0648		3.5953	3.5953		3.5953	3.5953	0.0000	6,011.4417	6,011.4417	0.6348		6,024.7731

3.3 Architectural Coating - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.1975	0.0563	0.5192	1.1100e-003	0.0986	7.1000e-004	0.0993	0.0262	6.5000e-004	0.0268		87.5732	87.5732	4.6800e-003			87.6714
Total	0.1975	0.0563	0.5192	1.1100e-003	0.0986	7.1000e-004	0.0993	0.0262	6.5000e-004	0.0268		87.5732	87.5732	4.6800e-003			87.6714

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					
Mitigated	20.7818	19.7954	81.4193	0.1542	10.5458	0.2587	10.8045	2.8208	0.2382	3.0590		12,818.73 62	12,818.73 62	0.4904		12,829.03 40
Unmitigated	20.7818	19.7954	81.4193	0.1542	10.5458	0.2587	10.8045	2.8208	0.2382	3.0590		12,818.73 62	12,818.73 62	0.4904		12,829.03 40

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	1,703.46	1,794.24	1561.06	4,686,408	4,686,408
Total	1,703.46	1,794.24	1,561.06	4,686,408	4,686,408

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
Single Family Housing	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.462115	0.061823	0.181510	0.153742	0.057112	0.007288	0.019722	0.042680	0.001823	0.001665	0.006988	0.000686	0.002845

5.0 Energy Detail

4.4 Fleet Mix

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					
NaturalGas Mitigated	0.1691	1.4450	0.6149	9.2200e-003		0.1168	0.1168		0.1168	0.1168		1,844.6463	1,844.6463	0.0354	0.0338	1,855,8725
NaturalGas Unmitigated	0.1691	1.4450	0.6149	9.2200e-003		0.1168	0.1168		0.1168	0.1168		1,844.6463	1,844.6463	0.0354	0.0338	1,855,8725

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	15679.5	0.1691	1.4450	0.6149	9.2200e-003		0.1168	0.1168		0.1168	0.1168		1,844.6463	1,844.6463	0.0354	0.0338	1,855.8725
Total		0.1691	1.4450	0.6149	9.2200e-003		0.1168	0.1168		0.1168	0.1168		1,844.6463	1,844.6463	0.0354	0.0338	1,855.8725

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	15.6795	0.1691	1.4450	0.6149	9.2200e-003		0.1168	0.1168		0.1168	0.1168		1,844.6463	1,844.6463	0.0354	0.0338	1,855.8725
Total		0.1691	1.4450	0.6149	9.2200e-003		0.1168	0.1168		0.1168	0.1168		1,844.6463	1,844.6463	0.0354	0.0338	1,855.8725

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					
Mitigated	177.3650	2.4556	222.1701	0.0818		29.2165	29.2165		29.2156	29.2156	3,054.8904	1,307.6188	4,362.5092	2.8454	0.2403	4,496.7517
Unmitigated	177.3650	2.4556	222.1701	0.0818		29.2165	29.2165		29.2156	29.2156	3,054.8904	1,307.6188	4,362.5092	2.8454	0.2403	4,496.7517

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.7091					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.8566					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	168.3435	2.2840	207.3811	0.0810		29.1358	29.1358		29.1349	29.1349	3,054.8904	1,281.1765	4,336.0669	2.8192	0.2403	4,469.7591
Landscaping	0.4559	0.1717	14.7891	7.8000e-004		0.0807	0.0807		0.0807	0.0807		26.4423	26.4423	0.0262		26.9926
Total	177.3650	2.4556	222.1701	0.0818		29.2165	29.2165		29.2157	29.2157	3,054.8904	1,307.6188	4,362.5092	2.8454	0.2403	4,496.7517

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.7091					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.8566					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	168.3435	2.2840	207.3811	0.0810		29.1358	29.1358		29.1349	29.1349	3,054.8904	1,281.1765	4,336.0669	2.8192	0.2403	4,469.7591
Landscaping	0.4559	0.1717	14.7891	7.8000e-004		0.0807	0.0807		0.0807	0.0807		26.4423	26.4423	0.0262		26.9926
Total	177.3650	2.4556	222.1701	0.0818		29.2165	29.2165		29.2157	29.2157	3,054.8904	1,307.6188	4,362.5092	2.8454	0.2403	4,496.7517

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 Vegetation

McKinley Village Bldg Phase 3 Sacramento Valley Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	178.00	Dwelling Unit	17.00	320,400.00	356

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	65
Climate Zone	6			Operational Year	2018
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	590.31	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 - city's population per household (per census) is 2.0; lot acreage reflects 1/3 of overall site size

Construction Phase - per applicant construction data

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Trips and VMT - applicant construction data

Architectural Coating -

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Interior	0	3750

tblAreaCoating	Area_Residential_Exterior	216270	133650
tblAreaCoating	Area_Residential_Interior	648810	400950
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	15.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstructionPhase	NumDays	20.00	283.00
tblConstructionPhase	NumDays	300.00	283.00
tblConstructionPhase	PhaseEndDate	1/1/2019	11/30/2017
tblConstructionPhase	PhaseStartDate	12/1/2017	11/1/2016
tblFireplaces	NumberGas	97.90	60.50
tblFireplaces	NumberNoFireplace	17.80	11.00
tblFireplaces	NumberWood	62.30	38.50
tblLandUse	LotAcreage	57.79	17.00
tblLandUse	Population	509.00	356.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	15.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	5.00
tblOffRoadEquipment	UsageHours	8.00	5.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	OperationalYear	2014	2018
tblSolidWaste	SolidWasteGenerationRate	126.54	111.97
tblTripsAndVMT	VendorTripNumber	19.00	20.00
tblTripsAndVMT	WorkerTripNumber	64.00	55.00
tblTripsAndVMT	WorkerTripNumber	13.00	12.00
tblWater	IndoorWaterUseRate	11,597,416.56	7,166,942.82
tblWater	OutdoorWaterUseRate	7,311,414.79	4,518,290.04
tblWoodstoves	NumberCatalytic	8.90	5.50
tblWoodstoves	NumberNoncatalytic	8.90	5.50

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	8.5063	0.1091	9.8336	3.3900e-003		1.2018	1.2018		1.2018	1.2018	113.6254	49.8117	163.4371	0.1070	8.9400e-003	168.4546
Energy	0.0309	0.2637	0.1122	1.6800e-003		0.0213	0.0213		0.0213	0.0213	0.0000	659.8733	659.8733	0.0233	9.2000e-003	663.2145
Mobile	3.1633	3.2462	12.4705	0.0270	1.7454	0.0443	1.7897	0.4684	0.0408	0.5092	0.0000	2,038.5099	2,038.5099	0.0764	0.0000	2,040.1139
Waste						0.0000	0.0000		0.0000	0.0000	22.7289	0.0000	22.7289	1.3432	0.0000	50.9369
Water						0.0000	0.0000		0.0000	0.0000	2.2737	14.6182	16.8919	0.2343	5.6600e-003	23.5667
Total	11.7005	3.6190	22.4164	0.0321	1.7454	1.2675	3.0128	0.4684	1.2639	1.7323	138.6280	2,762.8131	2,901.4411	1.7841	0.0238	2,946.2867

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	8.5063	0.1091	9.8336	3.3900e-003		1.2018	1.2018		1.2018	1.2018	113.6254	49.8117	163.4371	0.1070	8.9400e-003	168.4546
Energy	0.0309	0.2637	0.1122	1.6800e-003		0.0213	0.0213		0.0213	0.0213	0.0000	659.8733	659.8733	0.0233	9.2000e-003	663.2145
Mobile	3.1633	3.2462	12.4705	0.0270	1.7454	0.0443	1.7897	0.4684	0.0408	0.5092	0.0000	2,038.5099	2,038.5099	0.0764	0.0000	2,040.1139
Waste						0.0000	0.0000		0.0000	0.0000	22.7289	0.0000	22.7289	1.3432	0.0000	50.9369
Water						0.0000	0.0000		0.0000	0.0000	2.2737	14.6182	16.8919	0.2342	5.6500e-003	23.5631
Total	11.7005	3.6190	22.4164	0.0321	1.7454	1.2675	3.0128	0.4684	1.2639	1.7323	138.6280	2,762.8131	2,901.4411	1.7841	0.0238	2,946.2831

	ROG	NOx	CO	SO2	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	0.04	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	Building Construction	Building Construction	11/1/2016	11/30/2017	5	283	
2	Architectural Coating	Architectural Coating	11/1/2016	11/30/2017	5	283	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 648,810; Residential Outdoor: 216,270; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	5.00	226	0.29
Building Construction	Forklifts	4	5.00	89	0.20
Building Construction	Generator Sets	6	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	4	6.00	97	0.37
Building Construction	Welders	4	4.00	46	0.45
Architectural Coating	Air Compressors	15	8.00	78	0.48
Architectural Coating	Cement and Mortar Mixers	7	6.00	9	0.56
Architectural Coating	Pressure Washers	4	6.00	13	0.30

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
Building Construction	19	55.00	20.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	26	12.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Oxidation Catalyst for Construction Equipment

3.2 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1540	1.1571	0.8584	1.3500e-003		0.0818	0.0818		0.0793	0.0793	0.0000	117.5010	117.5010	0.0193	0.0000	117.9059
Total	0.1540	1.1571	0.8584	1.3500e-003		0.0818	0.0818		0.0793	0.0793	0.0000	117.5010	117.5010	0.0193	0.0000	117.9059

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0122	0.0414	0.0686	1.0000e-004	2.8200e-003	6.7000e-004	3.5000e-003	8.1000e-004	6.2000e-004	1.4300e-003	0.0000	9.4504	9.4504	8.0000e-005	0.0000	9.4520
Worker	0.0190	5.7300e-003	0.0576	1.2000e-004	9.5600e-003	7.0000e-005	9.6300e-003	2.5400e-003	7.0000e-005	2.6100e-003	0.0000	8.5884	8.5884	4.7000e-004	0.0000	8.5983
Total	0.0312	0.0471	0.1262	2.2000e-004	0.0124	7.4000e-004	0.0131	3.3500e-003	6.9000e-004	4.0400e-003	0.0000	18.0388	18.0388	5.5000e-004	0.0000	18.0502

3.2 Building Construction - 2016

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1540	0.9256	0.8584	1.3500e-003		0.0818	0.0818		0.0793	0.0793	0.0000	117.5009	117.5009	0.0193	0.0000	117.9057
Total	0.1540	0.9256	0.8584	1.3500e-003		0.0818	0.0818		0.0793	0.0793	0.0000	117.5009	117.5009	0.0193	0.0000	117.9057

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0122	0.0414	0.0686	1.0000e-004	2.8200e-003	6.7000e-004	3.5000e-003	8.1000e-004	6.2000e-004	1.4300e-003	0.0000	9.4504	9.4504	8.0000e-005	0.0000	9.4520
Worker	0.0190	5.7300e-003	0.0576	1.2000e-004	9.5600e-003	7.0000e-005	9.6300e-003	2.5400e-003	7.0000e-005	2.6100e-003	0.0000	8.5884	8.5884	4.7000e-004	0.0000	8.5983
Total	0.0312	0.0471	0.1262	2.2000e-004	0.0124	7.4000e-004	0.0131	3.3500e-003	6.9000e-004	4.0400e-003	0.0000	18.0388	18.0388	5.5000e-004	0.0000	18.0502

3.2 Building Construction - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.7535	5.8283	4.6000	7.3200e-003		0.3986	0.3986		0.3864	0.3864	0.0000	635.2058	635.2058	0.0992	0.0000	637.2893
Total	0.7535	5.8283	4.6000	7.3200e-003		0.3986	0.3986		0.3864	0.3864	0.0000	635.2058	635.2058	0.0992	0.0000	637.2893

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0568	0.1981	0.3415	5.6000e-004	0.0153	3.0800e-003	0.0184	4.3900e-003	2.8300e-003	7.2300e-003	0.0000	50.4532	50.4532	3.8000e-004	0.0000	50.4612
Worker	0.0935	0.0276	0.2752	6.2000e-004	0.0519	3.9000e-004	0.0523	0.0138	3.6000e-004	0.0142	0.0000	44.7979	44.7979	2.3200e-003	0.0000	44.8468
Total	0.1503	0.2256	0.6167	1.1800e-003	0.0672	3.4700e-003	0.0707	0.0182	3.1900e-003	0.0214	0.0000	95.2512	95.2512	2.7000e-003	0.0000	95.3079

3.2 Building Construction - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.7535	4.6626	4.6000	7.3200e-003		0.3986	0.3986		0.3864	0.3864	0.0000	635.2050	635.2050	0.0992	0.0000	637.2885
Total	0.7535	4.6626	4.6000	7.3200e-003		0.3986	0.3986		0.3864	0.3864	0.0000	635.2050	635.2050	0.0992	0.0000	637.2885

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0568	0.1981	0.3415	5.6000e-004	0.0153	3.0800e-003	0.0184	4.3900e-003	2.8300e-003	7.2300e-003	0.0000	50.4532	50.4532	3.8000e-004	0.0000	50.4612
Worker	0.0935	0.0276	0.2752	6.2000e-004	0.0519	3.9000e-004	0.0523	0.0138	3.6000e-004	0.0142	0.0000	44.7979	44.7979	2.3200e-003	0.0000	44.8468
Total	0.1503	0.2256	0.6167	1.1800e-003	0.0672	3.4700e-003	0.0707	0.0182	3.1900e-003	0.0214	0.0000	95.2512	95.2512	2.7000e-003	0.0000	95.3079

3.3 Architectural Coating - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7793					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1722	1.1090	0.8810	1.4300e-003		0.0894	0.0894		0.0894	0.0894	0.0000	119.9768	119.9768	0.0141	0.0000	120.2721
Total	0.9515	1.1090	0.8810	1.4300e-003		0.0894	0.0894		0.0894	0.0894	0.0000	119.9768	119.9768	0.0141	0.0000	120.2721

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1500e-003	1.2500e-003	0.0126	3.0000e-005	2.0800e-003	2.0000e-005	2.1000e-003	5.5000e-004	1.0000e-005	5.7000e-004	0.0000	1.8738	1.8738	1.0000e-004	0.0000	1.8760
Total	4.1500e-003	1.2500e-003	0.0126	3.0000e-005	2.0800e-003	2.0000e-005	2.1000e-003	5.5000e-004	1.0000e-005	5.7000e-004	0.0000	1.8738	1.8738	1.0000e-004	0.0000	1.8760

3.3 Architectural Coating - 2016

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7793					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1722	0.8872	0.8810	1.4300e-003		0.0894	0.0894		0.0894	0.0894	0.0000	119.9766	119.9766	0.0141	0.0000	120.2719
Total	0.9515	0.8872	0.8810	1.4300e-003		0.0894	0.0894		0.0894	0.0894	0.0000	119.9766	119.9766	0.0141	0.0000	120.2719

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1500e-003	1.2500e-003	0.0126	3.0000e-005	2.0800e-003	2.0000e-005	2.1000e-003	5.5000e-004	1.0000e-005	5.7000e-004	0.0000	1.8738	1.8738	1.0000e-004	0.0000	1.8760
Total	4.1500e-003	1.2500e-003	0.0126	3.0000e-005	2.0800e-003	2.0000e-005	2.1000e-003	5.5000e-004	1.0000e-005	5.7000e-004	0.0000	1.8738	1.8738	1.0000e-004	0.0000	1.8760

3.3 Architectural Coating - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.2328					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.8483	5.5729	4.7469	7.7500e-003		0.4296	0.4296		0.4296	0.4296	0.0000	651.6918	651.6918	0.0688	0.0000	653.1371
Total	5.0811	5.5729	4.7469	7.7500e-003		0.4296	0.4296		0.4296	0.4296	0.0000	651.6918	651.6918	0.0688	0.0000	653.1371

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0204	6.0100e-003	0.0600	1.4000e-004	0.0113	8.0000e-005	0.0114	3.0100e-003	8.0000e-005	3.0900e-003	0.0000	9.7741	9.7741	5.1000e-004	0.0000	9.7847
Total	0.0204	6.0100e-003	0.0600	1.4000e-004	0.0113	8.0000e-005	0.0114	3.0100e-003	8.0000e-005	3.0900e-003	0.0000	9.7741	9.7741	5.1000e-004	0.0000	9.7847

3.3 Architectural Coating - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.2328					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.8483	4.4583	4.7469	7.7500e-003		0.4296	0.4296		0.4296	0.4296	0.0000	651.6911	651.6911	0.0688	0.0000	653.1363
Total	5.0811	4.4583	4.7469	7.7500e-003		0.4296	0.4296		0.4296	0.4296	0.0000	651.6911	651.6911	0.0688	0.0000	653.1363

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0204	6.0100e-003	0.0600	1.4000e-004	0.0113	8.0000e-005	0.0114	3.0100e-003	8.0000e-005	3.0900e-003	0.0000	9.7741	9.7741	5.1000e-004	0.0000	9.7847
Total	0.0204	6.0100e-003	0.0600	1.4000e-004	0.0113	8.0000e-005	0.0114	3.0100e-003	8.0000e-005	3.0900e-003	0.0000	9.7741	9.7741	5.1000e-004	0.0000	9.7847

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.1633	3.2462	12.4705	0.0270	1.7454	0.0443	1.7897	0.4684	0.0408	0.5092	0.0000	2,038.5099	2,038.5099	0.0764	0.0000	2,040.1139
Unmitigated	3.1633	3.2462	12.4705	0.0270	1.7454	0.0443	1.7897	0.4684	0.0408	0.5092	0.0000	2,038.5099	2,038.5099	0.0764	0.0000	2,040.1139

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	1,703.46	1,794.24	1561.06	4,686,408	4,686,408
Total	1,703.46	1,794.24	1,561.06	4,686,408	4,686,408

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
Single Family Housing	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.462115	0.061823	0.181510	0.153742	0.057112	0.007288	0.019722	0.042680	0.001823	0.001665	0.006988	0.000686	0.002845

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	354.4714	354.4714	0.0174	3.6000e-003	355.9540
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	354.4714	354.4714	0.0174	3.6000e-003	355.9540
NaturalGas Mitigated	0.0309	0.2637	0.1122	1.6800e-003		0.0213	0.0213		0.0213	0.0213	0.0000	305.4019	305.4019	5.8500e-003	5.6000e-003	307.2605
NaturalGas Unmitigated	0.0309	0.2637	0.1122	1.6800e-003		0.0213	0.0213		0.0213	0.0213	0.0000	305.4019	305.4019	5.8500e-003	5.6000e-003	307.2605

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	5.72302e+006	0.0309	0.2637	0.1122	1.6800e-003		0.0213	0.0213		0.0213	0.0213	0.0000	305.4019	305.4019	5.8500e-003	5.6000e-003	307.2605
Total		0.0309	0.2637	0.1122	1.6800e-003		0.0213	0.0213		0.0213	0.0213	0.0000	305.4019	305.4019	5.8500e-003	5.6000e-003	307.2605

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	5.72302e+006	0.0309	0.2637	0.1122	1.6800e-003		0.0213	0.0213		0.0213	0.0213	0.0000	305.4019	305.4019	5.8500e-003	5.6000e-003	307.2605
Total		0.0309	0.2637	0.1122	1.6800e-003		0.0213	0.0213		0.0213	0.0213	0.0000	305.4019	305.4019	5.8500e-003	5.6000e-003	307.2605

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	1.32384e+006	354.4714	0.0174	3.6000e-003	355.9540
Total		354.4714	0.0174	3.6000e-003	355.9540

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	1.32384e+006	354.4714	0.0174	3.6000e-003	355.9540
Total		354.4714	0.0174	3.6000e-003	355.9540

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	8.5063	0.1091	9.8336	3.3900e-003		1.2018	1.2018		1.2018	1.2018	113.6254	49.8117	163.4371	0.1070	8.9400e-003	168.4546
Unmitigated	8.5063	0.1091	9.8336	3.3900e-003		1.2018	1.2018		1.2018	1.2018	113.6254	49.8117	163.4371	0.1070	8.9400e-003	168.4546

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3119					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.2513					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	6.9021	0.0936	8.5026	3.3200e-003		1.1946	1.1946		1.1945	1.1945	113.6254	47.6528	161.2782	0.1049	8.9400e-003	166.2508
Landscaping	0.0410	0.0155	1.3310	7.0000e-005		7.2600e-003	7.2600e-003		7.2600e-003	7.2600e-003	0.0000	2.1589	2.1589	2.1400e-003	0.0000	2.2039
Total	8.5063	0.1091	9.8336	3.3900e-003		1.2018	1.2018		1.2018	1.2018	113.6254	49.8117	163.4371	0.1070	8.9400e-003	168.4547

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3119					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.2513					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	6.9021	0.0936	8.5026	3.3200e-003		1.1946	1.1946		1.1945	1.1945	113.6254	47.6528	161.2782	0.1049	8.9400e-003	166.2508
Landscaping	0.0410	0.0155	1.3310	7.0000e-005		7.2600e-003	7.2600e-003		7.2600e-003	7.2600e-003	0.0000	2.1589	2.1589	2.1400e-003	0.0000	2.2039
Total	8.5063	0.1091	9.8336	3.3900e-003		1.2018	1.2018		1.2018	1.2018	113.6254	49.8117	163.4371	0.1070	8.9400e-003	168.4547

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	16.8919	0.2342	5.6500e-003	23.5631
Unmitigated	16.8919	0.2343	5.6600e-003	23.5667

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	7.16694 / 4.51829	16.8919	0.2343	5.6600e-003	23.5667
Total		16.8919	0.2343	5.6600e-003	23.5667

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	7.16694 / 4.51829	16.8919	0.2342	5.6500e-003	23.5631
Total		16.8919	0.2342	5.6500e-003	23.5631

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	22.7289	1.3432	0.0000	50.9369
Unmitigated	22.7289	1.3432	0.0000	50.9369

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	111.97	22.7289	1.3432	0.0000	50.9369
Total		22.7289	1.3432	0.0000	50.9369

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	111.97	22.7289	1.3432	0.0000	50.9369
Total		22.7289	1.3432	0.0000	50.9369

9.0 Operational Offroad

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

ALTERNATIVE 4

Building Construction Phase AA

- ◆ **Winter**
- ◆ **Annual**

McKinley Village Bldg Phase AA Alt 4
Sacramento Valley Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Strip Mall	20.00	1000sqft	1.00	20,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	65
Climate Zone	6			Operational Year	2018
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - 20,000 sq ft of commercial in Alt 4 to be constructed simultaneously with Phase A
- Construction Phase - simultaneous with Phase A
- Off-road Equipment - applicant construction data
- Off-road Equipment - CalEEMod defaults used for equipment
- Trips and VMT - applicant construction data
- Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstructionPhase	NumDays	5.00	109.00
tblConstructionPhase	NumDays	100.00	109.00
tblConstructionPhase	PhaseEndDate	9/30/2015	4/30/2015
tblConstructionPhase	PhaseStartDate	5/1/2015	12/1/2014
tblLandUse	LotAcreage	0.46	1.00
tblProjectCharacteristics	OperationalYear	2014	2018

2.0 Emissions Summary

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.5552	2.0000e-005	2.0700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.3800e-003	4.3800e-003	1.0000e-005		4.6300e-003
Energy	3.3400e-003	0.0304	0.0255	1.8000e-004		2.3100e-003	2.3100e-003		2.3100e-003	2.3100e-003		36.4222	36.4222	7.0000e-004	6.7000e-004	36.6439
Mobile	6.3200	6.1494	30.4030	0.0436	2.9038	0.0752	2.9790	0.7767	0.0692	0.8459		3,617.977 1	3,617.977 1	0.1470		3,621.063 3
Total	6.8785	6.1798	30.4306	0.0438	2.9038	0.0776	2.9814	0.7767	0.0716	0.8483		3,654.403 7	3,654.403 7	0.1477	6.7000e-004	3,657.711 9

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.5552	2.0000e-005	2.0700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.3800e-003	4.3800e-003	1.0000e-005		4.6300e-003
Energy	3.3400e-003	0.0304	0.0255	1.8000e-004		2.3100e-003	2.3100e-003		2.3100e-003	2.3100e-003		36.4222	36.4222	7.0000e-004	6.7000e-004	36.6439
Mobile	6.3200	6.1494	30.4030	0.0436	2.9038	0.0752	2.9790	0.7767	0.0692	0.8459		3,617.977 1	3,617.977 1	0.1470		3,621.063 3
Total	6.8785	6.1798	30.4306	0.0438	2.9038	0.0776	2.9814	0.7767	0.0716	0.8483		3,654.403 7	3,654.403 7	0.1477	6.7000e-004	3,657.711 9

	ROG	NOx	CO	SO2	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	Building Construction	Building Construction	12/1/2014	4/30/2015	5	109	
2	Architectural Coating	Architectural Coating	12/1/2014	4/30/2015	5	109	

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: 30,000; Non-Residential Outdoor: 10,000 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	6.00	226	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	7	6.00	3.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Oxidation Catalyst for Construction Equipment

Clean Paved Roads

3.2 Building Construction - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.9077	22.5327	15.3098	0.0220		1.5957	1.5957		1.5432	1.5432		2,064.0797	2,064.0797	0.5005		2,074.5893
Total	3.9077	22.5327	15.3098	0.0220		1.5957	1.5957		1.5432	1.5432		2,064.0797	2,064.0797	0.5005		2,074.5893

3.2 Building Construction - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.1353	0.3856	0.7056	7.2000e-004	0.0199	7.2700e-003	0.0272	5.6700e-003	6.6800e-003	0.0124		72.5757	72.5757	7.3000e-004			72.5911
Worker	0.1325	0.0408	0.3847	5.5000e-004	0.0493	4.2000e-004	0.0497	0.0131	3.8000e-004	0.0135		48.9843	48.9843	3.1700e-003			49.0508
Total	0.2678	0.4263	1.0903	1.2700e-003	0.0692	7.6900e-003	0.0769	0.0187	7.0600e-003	0.0258		121.5600	121.5600	3.9000e-003			121.6419

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	3.9077	18.0262	15.3098	0.0220		1.5957	1.5957		1.5432	1.5432	0.0000	2,064.0797	2,064.0797	0.5005			2,074.5893
Total	3.9077	18.0262	15.3098	0.0220		1.5957	1.5957		1.5432	1.5432	0.0000	2,064.0797	2,064.0797	0.5005			2,074.5893

3.2 Building Construction - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.1353	0.3856	0.7056	7.2000e-004	0.0199	7.2700e-003	0.0272	5.6700e-003	6.6800e-003	0.0124		72.5757	72.5757	7.3000e-004			72.5911
Worker	0.1325	0.0408	0.3847	5.5000e-004	0.0493	4.2000e-004	0.0497	0.0131	3.8000e-004	0.0135		48.9843	48.9843	3.1700e-003			49.0508
Total	0.2678	0.4263	1.0903	1.2700e-003	0.0692	7.6900e-003	0.0769	0.0187	7.0600e-003	0.0258		121.5600	121.5600	3.9000e-003			121.6419

3.2 Building Construction - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	3.6000	21.5642	15.0041	0.0220		1.4851	1.4851		1.4344	1.4344		2,055.6247	2,055.6247	0.4741			2,065.5812
Total	3.6000	21.5642	15.0041	0.0220		1.4851	1.4851		1.4344	1.4344		2,055.6247	2,055.6247	0.4741			2,065.5812

3.2 Building Construction - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.1132	0.3300	0.6444	7.1000e-004	0.0199	5.5200e-003	0.0254	5.6700e-003	5.0700e-003	0.0108		71.6047	71.6047	6.3000e-004			71.6179
Worker	0.1199	0.0359	0.3362	5.5000e-004	0.0493	3.9000e-004	0.0497	0.0131	3.6000e-004	0.0134		47.2375	47.2375	2.8400e-003			47.2971
Total	0.2332	0.3659	0.9806	1.2600e-003	0.0692	5.9100e-003	0.0751	0.0187	5.4300e-003	0.0242		118.8421	118.8421	3.4700e-003			118.9151

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	3.6000	17.2513	15.0041	0.0220		1.4851	1.4851		1.4344	1.4344	0.0000	2,055.6247	2,055.6247	0.4741			2,065.5812
Total	3.6000	17.2513	15.0041	0.0220		1.4851	1.4851		1.4344	1.4344	0.0000	2,055.6247	2,055.6247	0.4741			2,065.5812

3.2 Building Construction - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.1132	0.3300	0.6444	7.1000e-004	0.0199	5.5200e-003	0.0254	5.6700e-003	5.0700e-003	0.0108		71.6047	71.6047	6.3000e-004			71.6179
Worker	0.1199	0.0359	0.3362	5.5000e-004	0.0493	3.9000e-004	0.0497	0.0131	3.6000e-004	0.0134		47.2375	47.2375	2.8400e-003			47.2971
Total	0.2332	0.3659	0.9806	1.2600e-003	0.0692	5.9100e-003	0.0751	0.0187	5.4300e-003	0.0242		118.8421	118.8421	3.4700e-003			118.9151

3.3 Architectural Coating - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	4.2523					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.4462	2.7773	1.9216	2.9700e-003		0.2452	0.2452		0.2452	0.2452		281.4481	281.4481	0.0401			282.2905
Total	4.6985	2.7773	1.9216	2.9700e-003		0.2452	0.2452		0.2452	0.2452		281.4481	281.4481	0.0401			282.2905

3.3 Architectural Coating - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0221	6.7900e-003	0.0641	9.0000e-005	8.2100e-003	7.0000e-005	8.2900e-003	2.1800e-003	6.0000e-005	2.2400e-003		8.1641	8.1641	5.3000e-004			8.1751
Total	0.0221	6.7900e-003	0.0641	9.0000e-005	8.2100e-003	7.0000e-005	8.2900e-003	2.1800e-003	6.0000e-005	2.2400e-003		8.1641	8.1641	5.3000e-004			8.1751

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	4.2523					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.4462	2.2219	1.9216	2.9700e-003		0.2452	0.2452		0.2452	0.2452	0.0000	281.4481	281.4481	0.0401			282.2905
Total	4.6985	2.2219	1.9216	2.9700e-003		0.2452	0.2452		0.2452	0.2452	0.0000	281.4481	281.4481	0.0401			282.2905

3.3 Architectural Coating - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0221	6.7900e-003	0.0641	9.0000e-005	8.2100e-003	7.0000e-005	8.2900e-003	2.1800e-003	6.0000e-005	2.2400e-003		8.1641	8.1641	5.3000e-004			8.1751
Total	0.0221	6.7900e-003	0.0641	9.0000e-005	8.2100e-003	7.0000e-005	8.2900e-003	2.1800e-003	6.0000e-005	2.2400e-003		8.1641	8.1641	5.3000e-004			8.1751

3.3 Architectural Coating - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	4.2523					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Off-Road	0.4066	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209		281.4481	281.4481	0.0367			282.2177
Total	4.6589	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209		281.4481	281.4481	0.0367			282.2177

3.3 Architectural Coating - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0200	5.9800e-003	0.0560	9.0000e-005	8.2100e-003	6.0000e-005	8.2800e-003	2.1800e-003	6.0000e-005	2.2400e-003		7.8729	7.8729	4.7000e-004			7.8829
Total	0.0200	5.9800e-003	0.0560	9.0000e-005	8.2100e-003	6.0000e-005	8.2800e-003	2.1800e-003	6.0000e-005	2.2400e-003		7.8729	7.8729	4.7000e-004			7.8829

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	4.2523					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Off-Road	0.4066	2.0563	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209	0.0000	281.4481	281.4481	0.0367			282.2177
Total	4.6589	2.0563	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209	0.0000	281.4481	281.4481	0.0367			282.2177

3.3 Architectural Coating - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0200	5.9800e-003	0.0560	9.0000e-005	8.2100e-003	6.0000e-005	8.2800e-003	2.1800e-003	6.0000e-005	2.2400e-003		7.8729	7.8729	4.7000e-004			7.8829
Total	0.0200	5.9800e-003	0.0560	9.0000e-005	8.2100e-003	6.0000e-005	8.2800e-003	2.1800e-003	6.0000e-005	2.2400e-003		7.8729	7.8729	4.7000e-004			7.8829

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					
Mitigated	6.3200	6.1494	30.4030	0.0436	2.9038	0.0752	2.9790	0.7767	0.0692	0.8459		3,617.977 1	3,617.977 1	0.1470		3,621.063 3
Unmitigated	6.3200	6.1494	30.4030	0.0436	2.9038	0.0752	2.9790	0.7767	0.0692	0.8459		3,617.977 1	3,617.977 1	0.1470		3,621.063 3

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Strip Mall	886.40	840.80	408.60	1,249,935	1,249,935
Total	886.40	840.80	408.60	1,249,935	1,249,935

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
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.462115	0.061823	0.181510	0.153742	0.057112	0.007288	0.019722	0.042680	0.001823	0.001665	0.006988	0.000686	0.002845

5.0 Energy Detail

4.4 Fleet Mix

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					
NaturalGas Mitigated	3.3400e-003	0.0304	0.0255	1.8000e-004		2.3100e-003	2.3100e-003		2.3100e-003	2.3100e-003		36.4222	36.4222	7.0000e-004	6.7000e-004	36.6439
NaturalGas Unmitigated	3.3400e-003	0.0304	0.0255	1.8000e-004		2.3100e-003	2.3100e-003		2.3100e-003	2.3100e-003		36.4222	36.4222	7.0000e-004	6.7000e-004	36.6439

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
Strip Mall	309.589	3.3400e-003	0.0304	0.0255	1.8000e-004		2.3100e-003	2.3100e-003		2.3100e-003	2.3100e-003			36.4222	36.4222	7.0000e-004	6.7000e-004	36.6439
Total		3.3400e-003	0.0304	0.0255	1.8000e-004		2.3100e-003	2.3100e-003		2.3100e-003	2.3100e-003			36.4222	36.4222	7.0000e-004	6.7000e-004	36.6439

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
Strip Mall	0.309589	3.3400e-003	0.0304	0.0255	1.8000e-004		2.3100e-003	2.3100e-003		2.3100e-003	2.3100e-003			36.4222	36.4222	7.0000e-004	6.7000e-004	36.6439
Total		3.3400e-003	0.0304	0.0255	1.8000e-004		2.3100e-003	2.3100e-003		2.3100e-003	2.3100e-003			36.4222	36.4222	7.0000e-004	6.7000e-004	36.6439

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					
Mitigated	0.5552	2.0000e-005	2.0700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.3800e-003	4.3800e-003	1.0000e-005		4.6300e-003
Unmitigated	0.5552	2.0000e-005	2.0700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.3800e-003	4.3800e-003	1.0000e-005		4.6300e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1270					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4280					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-004	2.0000e-005	2.0700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.3800e-003	4.3800e-003	1.0000e-005		4.6300e-003
Total	0.5552	2.0000e-005	2.0700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.3800e-003	4.3800e-003	1.0000e-005		4.6300e-003

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1270					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4280					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-004	2.0000e-005	2.0700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.3800e-003	4.3800e-003	1.0000e-005		4.6300e-003
Total	0.5552	2.0000e-005	2.0700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.3800e-003	4.3800e-003	1.0000e-005		4.6300e-003

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

McKinley Village Bldg Phase AA Alt 4
Sacramento Valley Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Strip Mall	20.00	1000sqft	1.00	20,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	65
Climate Zone	6			Operational Year	2018
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - 20,000 sq ft of commercial in Alt 4 to be constructed simultaneously with Phase A
- Construction Phase - simultaneous with Phase A
- Off-road Equipment - applicant construction data
- Off-road Equipment - CalEEMod defaults used for equipment
- Trips and VMT - applicant construction data
- Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstructionPhase	NumDays	5.00	109.00
tblConstructionPhase	NumDays	100.00	109.00
tblConstructionPhase	PhaseEndDate	9/30/2015	4/30/2015
tblConstructionPhase	PhaseStartDate	5/1/2015	12/1/2014
tblLandUse	LotAcreage	0.46	1.00
tblProjectCharacteristics	OperationalYear	2014	2018

2.0 Emissions Summary

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1013	0.0000	1.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.6000e-004	3.6000e-004	0.0000	0.0000	3.8000e-004
Energy	6.1000e-004	5.5400e-003	4.6500e-003	3.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004	0.0000	75.4871	75.4871	3.5300e-003	8.2000e-004	75.8143
Mobile	0.9402	0.9780	4.3039	7.4000e-003	0.4655	0.0125	0.4780	0.1249	0.0115	0.1364	0.0000	557.4275	557.4275	0.0222	0.0000	557.8928
Waste						0.0000	0.0000		0.0000	0.0000	4.2628	0.0000	4.2628	0.2519	0.0000	9.5532
Water						0.0000	0.0000		0.0000	0.0000	0.4700	2.9973	3.4673	0.0484	1.1700e-003	4.8469
Total	1.0421	0.9835	4.3088	7.4300e-003	0.4655	0.0129	0.4784	0.1249	0.0119	0.1368	4.7328	635.9122	640.6450	0.3260	1.9900e-003	648.1077

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1013	0.0000	1.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.6000e-004	3.6000e-004	0.0000	0.0000	3.8000e-004
Energy	6.1000e-004	5.5400e-003	4.6500e-003	3.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004	0.0000	75.4871	75.4871	3.5300e-003	8.2000e-004	75.8143
Mobile	0.9402	0.9780	4.3039	7.4000e-003	0.4655	0.0125	0.4780	0.1249	0.0115	0.1364	0.0000	557.4275	557.4275	0.0222	0.0000	557.8928
Waste						0.0000	0.0000		0.0000	0.0000	4.2628	0.0000	4.2628	0.2519	0.0000	9.5532
Water						0.0000	0.0000		0.0000	0.0000	0.4700	2.9973	3.4673	0.0484	1.1700e-003	4.8462
Total	1.0421	0.9835	4.3088	7.4300e-003	0.4655	0.0129	0.4784	0.1249	0.0119	0.1368	4.7328	635.9122	640.6450	0.3260	1.9900e-003	648.1069

	ROG	NOx	CO	SO2	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	Building Construction	Building Construction	12/1/2014	4/30/2015	5	109	
2	Architectural Coating	Architectural Coating	12/1/2014	4/30/2015	5	109	

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: 30,000; Non-Residential Outdoor: 10,000 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	6.00	226	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	7	6.00	3.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Oxidation Catalyst for Construction Equipment

Clean Paved Roads

3.2 Building Construction - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0449	0.2591	0.1761	2.5000e-004		0.0184	0.0184		0.0178	0.0178	0.0000	21.5338	21.5338	5.2200e-003	0.0000	21.6434
Total	0.0449	0.2591	0.1761	2.5000e-004		0.0184	0.0184		0.0178	0.0178	0.0000	21.5338	21.5338	5.2200e-003	0.0000	21.6434

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3700e-003	4.3600e-003	6.6400e-003	1.0000e-005	2.2000e-004	8.0000e-005	3.0000e-004	6.0000e-005	8.0000e-005	1.4000e-004	0.0000	0.7605	0.7605	1.0000e-005	0.0000	0.7607
Worker	1.3200e-003	4.2000e-004	4.2300e-003	1.0000e-005	5.4000e-004	0.0000	5.5000e-004	1.4000e-004	0.0000	1.5000e-004	0.0000	0.5260	0.5260	3.0000e-005	0.0000	0.5267
Total	2.6900e-003	4.7800e-003	0.0109	2.0000e-005	7.6000e-004	8.0000e-005	8.5000e-004	2.0000e-004	8.0000e-005	2.9000e-004	0.0000	1.2865	1.2865	4.0000e-005	0.0000	1.2874

3.2 Building Construction - 2014

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0449	0.2073	0.1761	2.5000e-004		0.0184	0.0184		0.0178	0.0178	0.0000	21.5337	21.5337	5.2200e-003	0.0000	21.6434
Total	0.0449	0.2073	0.1761	2.5000e-004		0.0184	0.0184		0.0178	0.0178	0.0000	21.5337	21.5337	5.2200e-003	0.0000	21.6434

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3700e-003	4.3600e-003	6.6400e-003	1.0000e-005	2.2000e-004	8.0000e-005	3.0000e-004	6.0000e-005	8.0000e-005	1.4000e-004	0.0000	0.7605	0.7605	1.0000e-005	0.0000	0.7607
Worker	1.3200e-003	4.2000e-004	4.2300e-003	1.0000e-005	5.4000e-004	0.0000	5.5000e-004	1.4000e-004	0.0000	1.5000e-004	0.0000	0.5260	0.5260	3.0000e-005	0.0000	0.5267
Total	2.6900e-003	4.7800e-003	0.0109	2.0000e-005	7.6000e-004	8.0000e-005	8.5000e-004	2.0000e-004	8.0000e-005	2.9000e-004	0.0000	1.2865	1.2865	4.0000e-005	0.0000	1.2874

3.2 Building Construction - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1548	0.9273	0.6452	9.4000e-004		0.0639	0.0639		0.0617	0.0617	0.0000	80.1878	80.1878	0.0185	0.0000	80.5761
Total	0.1548	0.9273	0.6452	9.4000e-004		0.0639	0.0639		0.0617	0.0617	0.0000	80.1878	80.1878	0.0185	0.0000	80.5761

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.3000e-003	0.0140	0.0222	3.0000e-005	8.3000e-004	2.4000e-004	1.0600e-003	2.4000e-004	2.2000e-004	4.5000e-004	0.0000	2.8057	2.8057	2.0000e-005	0.0000	2.8062
Worker	4.4600e-003	1.3800e-003	0.0139	2.0000e-005	2.0400e-003	2.0000e-005	2.0500e-003	5.4000e-004	2.0000e-005	5.6000e-004	0.0000	1.8969	1.8969	1.1000e-004	0.0000	1.8992
Total	8.7600e-003	0.0153	0.0361	5.0000e-005	2.8700e-003	2.6000e-004	3.1100e-003	7.8000e-004	2.4000e-004	1.0100e-003	0.0000	4.7026	4.7026	1.3000e-004	0.0000	4.7054

3.2 Building Construction - 2015

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1548	0.7418	0.6452	9.4000e-004		0.0639	0.0639		0.0617	0.0617	0.0000	80.1877	80.1877	0.0185	0.0000	80.5761
Total	0.1548	0.7418	0.6452	9.4000e-004		0.0639	0.0639		0.0617	0.0617	0.0000	80.1877	80.1877	0.0185	0.0000	80.5761

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.3000e-003	0.0140	0.0222	3.0000e-005	8.3000e-004	2.4000e-004	1.0600e-003	2.4000e-004	2.2000e-004	4.5000e-004	0.0000	2.8057	2.8057	2.0000e-005	0.0000	2.8062
Worker	4.4600e-003	1.3800e-003	0.0139	2.0000e-005	2.0400e-003	2.0000e-005	2.0500e-003	5.4000e-004	2.0000e-005	5.6000e-004	0.0000	1.8969	1.8969	1.1000e-004	0.0000	1.8992
Total	8.7600e-003	0.0153	0.0361	5.0000e-005	2.8700e-003	2.6000e-004	3.1100e-003	7.8000e-004	2.4000e-004	1.0100e-003	0.0000	4.7026	4.7026	1.3000e-004	0.0000	4.7054

3.3 Architectural Coating - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0489					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.1300e-003	0.0319	0.0221	3.0000e-005		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003	0.0000	2.9362	2.9362	4.2000e-004	0.0000	2.9450
Total	0.0540	0.0319	0.0221	3.0000e-005		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003	0.0000	2.9362	2.9362	4.2000e-004	0.0000	2.9450

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	7.0000e-005	7.0000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0877	0.0877	1.0000e-005	0.0000	0.0878
Total	2.2000e-004	7.0000e-005	7.0000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0877	0.0877	1.0000e-005	0.0000	0.0878

3.3 Architectural Coating - 2014

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0489					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.1300e-003	0.0256	0.0221	3.0000e-005		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003	0.0000	2.9362	2.9362	4.2000e-004	0.0000	2.9450
Total	0.0540	0.0256	0.0221	3.0000e-005		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003	0.0000	2.9362	2.9362	4.2000e-004	0.0000	2.9450

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	7.0000e-005	7.0000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0877	0.0877	1.0000e-005	0.0000	0.0878
Total	2.2000e-004	7.0000e-005	7.0000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0877	0.0877	1.0000e-005	0.0000	0.0878

3.3 Architectural Coating - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1829					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0175	0.1105	0.0818	1.3000e-004		9.5000e-003	9.5000e-003		9.5000e-003	9.5000e-003	0.0000	10.9790	10.9790	1.4300e-003	0.0000	11.0090
Total	0.2003	0.1105	0.0818	1.3000e-004		9.5000e-003	9.5000e-003		9.5000e-003	9.5000e-003	0.0000	10.9790	10.9790	1.4300e-003	0.0000	11.0090

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.4000e-004	2.3000e-004	2.3100e-003	0.0000	3.4000e-004	0.0000	3.4000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.3162	0.3162	2.0000e-005	0.0000	0.3165
Total	7.4000e-004	2.3000e-004	2.3100e-003	0.0000	3.4000e-004	0.0000	3.4000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.3162	0.3162	2.0000e-005	0.0000	0.3165

3.3 Architectural Coating - 2015

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1829					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0175	0.0884	0.0818	1.3000e-004		9.5000e-003	9.5000e-003		9.5000e-003	9.5000e-003	0.0000	10.9790	10.9790	1.4300e-003	0.0000	11.0090
Total	0.2003	0.0884	0.0818	1.3000e-004		9.5000e-003	9.5000e-003		9.5000e-003	9.5000e-003	0.0000	10.9790	10.9790	1.4300e-003	0.0000	11.0090

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.4000e-004	2.3000e-004	2.3100e-003	0.0000	3.4000e-004	0.0000	3.4000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.3162	0.3162	2.0000e-005	0.0000	0.3165
Total	7.4000e-004	2.3000e-004	2.3100e-003	0.0000	3.4000e-004	0.0000	3.4000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.3162	0.3162	2.0000e-005	0.0000	0.3165

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.9402	0.9780	4.3039	7.4000e-003	0.4655	0.0125	0.4780	0.1249	0.0115	0.1364	0.0000	557.4275	557.4275	0.0222	0.0000	557.8928
Unmitigated	0.9402	0.9780	4.3039	7.4000e-003	0.4655	0.0125	0.4780	0.1249	0.0115	0.1364	0.0000	557.4275	557.4275	0.0222	0.0000	557.8928

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Strip Mall	886.40	840.80	408.60	1,249,935	1,249,935
Total	886.40	840.80	408.60	1,249,935	1,249,935

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
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.462115	0.061823	0.181510	0.153742	0.057112	0.007288	0.019722	0.042680	0.001823	0.001665	0.006988	0.000686	0.002845

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	69.4570	69.4570	3.4100e-003	7.1000e-004	69.7475
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	69.4570	69.4570	3.4100e-003	7.1000e-004	69.7475
NaturalGas Mitigated	6.1000e-004	5.5400e-003	4.6500e-003	3.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004	0.0000	6.0301	6.0301	1.2000e-004	1.1000e-004	6.0668
NaturalGas Unmitigated	6.1000e-004	5.5400e-003	4.6500e-003	3.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004	0.0000	6.0301	6.0301	1.2000e-004	1.1000e-004	6.0668

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Strip Mall	113000	6.1000e-004	5.5400e-003	4.6500e-003	3.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004	0.0000	6.0301	6.0301	1.2000e-004	1.1000e-004	6.0668
Total		6.1000e-004	5.5400e-003	4.6500e-003	3.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004	0.0000	6.0301	6.0301	1.2000e-004	1.1000e-004	6.0668

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Strip Mall	113000	6.1000e-004	5.5400e-003	4.6500e-003	3.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004	0.0000	6.0301	6.0301	1.2000e-004	1.1000e-004	6.0668
Total		6.1000e-004	5.5400e-003	4.6500e-003	3.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004	0.0000	6.0301	6.0301	1.2000e-004	1.1000e-004	6.0668

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Strip Mall	259400	69.4570	3.4100e-003	7.1000e-004	69.7475
Total		69.4570	3.4100e-003	7.1000e-004	69.7475

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Strip Mall	259400	69.4570	3.4100e-003	7.1000e-004	69.7475
Total		69.4570	3.4100e-003	7.1000e-004	69.7475

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1013	0.0000	1.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.6000e-004	3.6000e-004	0.0000	0.0000	3.8000e-004
Unmitigated	0.1013	0.0000	1.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.6000e-004	3.6000e-004	0.0000	0.0000	3.8000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0232					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0781					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	1.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.6000e-004	3.6000e-004	0.0000	0.0000	3.8000e-004
Total	0.1013	0.0000	1.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.6000e-004	3.6000e-004	0.0000	0.0000	3.8000e-004

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0232					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0781					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	1.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.6000e-004	3.6000e-004	0.0000	0.0000	3.8000e-004
Total	0.1013	0.0000	1.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.6000e-004	3.6000e-004	0.0000	0.0000	3.8000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	3.4673	0.0484	1.1700e-003	4.8462
Unmitigated	3.4673	0.0484	1.1700e-003	4.8469

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Strip Mall	1.48145 / 0.907986	3.4673	0.0484	1.1700e-003	4.8469
Total		3.4673	0.0484	1.1700e-003	4.8469

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Strip Mall	1.48145 / 0.907986	3.4673	0.0484	1.1700e-003	4.8462
Total		3.4673	0.0484	1.1700e-003	4.8462

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4.2628	0.2519	0.0000	9.5532
Unmitigated	4.2628	0.2519	0.0000	9.5532

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Strip Mall	21	4.2628	0.2519	0.0000	9.5532
Total		4.2628	0.2519	0.0000	9.5532

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Strip Mall	21	4.2628	0.2519	0.0000	9.5532
Total		4.2628	0.2519	0.0000	9.5532

9.0 Operational Offroad

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

ALTERNATIVE 4

Operational Emissions

- ◆ **Winter**
- ◆ **Summer**

McKinley Village
Sacramento Valley Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	11.70	Acre	11.70	509,652.00	0
Parking Lot	40.00	Space	0.36	16,000.00	0
City Park	4.00	Acre	4.00	174,240.00	0
Recreational Swimming Pool	2.00	1000sqft	0.05	2,000.00	0
Single Family Housing	550.00	Dwelling Unit	30.00	990,000.00	1100
User Defined Residential	70.00	Dwelling Unit	0.00	0.00	70
Strip Mall	20.00	1000sqft	1.00	20,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	65
Climate Zone	6			Operational Year	2018
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	590.31	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 - lot acreage, sq ft, and population per Project Description

Construction Phase - operational modeling only

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Trips and VMT - vendor trips added to represent water trucks, worker trips modified to match applicant estimates

Grading - project site size

Vehicle Trips - per project traffic study

Woodstoves - per Project Description

Consumer Products - consumer products emissions to be calculated by hand, off-model. The model applies the emission factor to all land uses, even parking and paving, which should not generate any consumer product emissions

Water And Wastewater - all wastewater treated at WWTP

Land Use Change -

Construction Off-road Equipment Mitigation - 20% NOx reduction for construction fleet applied using oxidation catalyst. basic construction emission control practices implemented per SMAQMD CEQA Handbook

Mobile Land Use Mitigation -

Energy Mitigation - 30% above 2013 Title 24. CEC estimated that 2013 Title 24 would result in 25% energy savings over 2008 Title 24. 30% above 2013 Title 24 is calculated as:

$1 - [(1-.25) * (1-0.3)] \times 100 = 47.5\%$ improvement over 2008 Title 24

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	302.50	225.00
tblFireplaces	NumberGas	38.50	275.00
tblFireplaces	NumberWood	192.50	0.00
tblFireplaces	NumberWood	24.50	0.00
tblLandUse	LotAcreage	178.57	30.00
tblLandUse	LotAcreage	0.46	1.00
tblLandUse	Population	1,573.00	1,100.00
tblLandUse	Population	200.00	70.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	WorkerTripNumber	10.00	0.00
tblVehicleTrips	WD_TR	32.93	0.00
tblVehicleTrips	WD_TR	9.57	9.30
tblVehicleTrips	WD_TR	44.32	37.00
tblVehicleTrips	WD_TR	0.00	7.25
tblWoodstoves	NumberCatalytic	27.50	0.00
tblWoodstoves	NumberCatalytic	3.50	0.00
tblWoodstoves	NumberNoncatalytic	27.50	0.00
tblWoodstoves	NumberNoncatalytic	3.50	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	52.1646	0.5980	51.5735	2.7000e-003		0.9518	0.9518		0.9447	0.9447	0.0000	10,680.3547	10,680.3547	0.2943	0.1941	10,746.7107
Energy	0.5258	4.4952	1.9254	0.0287		0.3633	0.3633		0.3633	0.3633		5,736.1720	5,736.1720	0.1099	0.1052	5,771.0813
Mobile	71.4737	68.3778	292.9580	0.5229	35.5741	0.8819	36.4561	9.5154	0.8118	10.3272		43,443.9669	43,443.9669	1.6816		43,479.2796
Total	124.1641	73.4710	346.4569	0.5543	35.5741	2.1970	37.7711	9.5154	2.1198	11.6352	0.0000	59,860.4936	59,860.4936	2.0858	0.2993	59,997.0717

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	52.1646	0.5980	51.5735	2.7000e-003		0.9518	0.9518		0.9447	0.9447	0.0000	10,680.3547	10,680.3547	0.2943	0.1941	10,746.7107
Energy	0.3221	2.7537	1.1794	0.0176		0.2226	0.2226		0.2226	0.2226		3,513.9979	3,513.9979	0.0674	0.0644	3,535.3835
Mobile	67.3738	64.6070	282.7569	0.4891	33.1786	0.8273	34.0059	8.8747	0.7615	9.6361		40,623.8601	40,623.8601	1.5826		40,657.0940
Total	119.8605	67.9588	335.5098	0.5094	33.1786	2.0016	35.1802	8.8747	1.9287	10.8034	0.0000	54,818.2127	54,818.2127	1.9442	0.2585	54,939.1882

	ROG	NOx	CO	SO2	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	3.47	7.50	3.16	8.11	6.73	8.89	6.86	6.73	9.01	7.15	0.00	8.42	8.42	6.79	13.61	8.43

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2014	2/11/2014	5	30	

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 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	0	0.00	255	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	4	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.4740	14.1304	9.6904	0.0125		1.1100	1.1100		1.0212	1.0212		1,324.260 3	1,324.260 3	0.3913		1,332.478 3
Total	1.4740	14.1304	9.6904	0.0125	0.0000	1.1100	1.1100	0.0000	1.0212	1.0212		1,324.260 3	1,324.260 3	0.3913		1,332.478 3

Unmitigated Construction Off-Site

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

3.2 Site Preparation - 2014

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.4740	14.1304	9.6904	0.0125		1.1100	1.1100		1.0212	1.0212	0.0000	1,324.260 2	1,324.260 2	0.3913		1,332.478 2
Total	1.4740	14.1304	9.6904	0.0125	0.0000	1.1100	1.1100	0.0000	1.0212	1.0212	0.0000	1,324.260 2	1,324.260 2	0.3913		1,332.478 2

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	67.3738	64.6070	282.7569	0.4891	33.1786	0.8273	34.0059	8.8747	0.7615	9.6361		40,623.8601	40,623.8601	1.5826		40,657.0940
Unmitigated	71.4737	68.3778	292.9580	0.5229	35.5741	0.8819	36.4561	9.5154	0.8118	10.3272		43,443.9669	43,443.9669	1.6816		43,479.2796

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	6.36	6.36	6.36	13,578	12,663
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Recreational Swimming Pool	0.00	41.74	53.46	24,579	22,924
Single Family Housing	5,115.00	5,544.00	4823.50	14,187,391	13,232,020
User Defined Residential	507.50	0.00	0.00		
Strip Mall	740.00	840.80	408.60	1,088,891	1,015,566
Total	6,368.86	6,432.90	5,291.92	15,314,439	14,283,173

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9
Single Family Housing	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3
User Defined Residential	10.80	7.30	7.50	32.90	18.00	49.10	0	0	0
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.462115	0.061823	0.181510	0.153742	0.057112	0.007288	0.019722	0.042680	0.001823	0.001665	0.006988	0.000686	0.002845

5.0 Energy Detail

5.1 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

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					
NaturalGas Mitigated	0.3221	2.7537	1.1794	0.0176		0.2226	0.2226		0.2226	0.2226		3,513.9979	3,513.9979	0.0674	0.0644	3,535.3835
NaturalGas Unmitigated	0.5258	4.4952	1.9254	0.0287		0.3633	0.3633		0.3633	0.3633		5,736.1720	5,736.1720	0.1099	0.1052	5,771.0813

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other 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
Parking Lot	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
Recreational Swimming Pool	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
Single Family Housing	48447.9	0.5225	4.4648	1.8999	0.0285		0.3610	0.3610		0.3610	0.3610		5,699.7497	5,699.7497	0.1093	0.1045	5,734.4374
Strip Mall	309.589	3.3400e-003	0.0304	0.0255	1.8000e-004		2.3100e-003	2.3100e-003		2.3100e-003	2.3100e-003		36.4222	36.4222	7.0000e-004	6.7000e-004	36.6439
User Defined Residential	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
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.5258	4.4952	1.9254	0.0287		0.3633	0.3633		0.3633	0.3633		5,736.1720	5,736.1720	0.1100	0.1052	5,771.0813

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other 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
Parking Lot	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
Recreational Swimming Pool	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
Single Family Housing	29.6822	0.3201	2.7354	1.1640	0.0175		0.2212	0.2212		0.2212	0.2212		3,492.0285	3,492.0285	0.0669	0.0640	3,513.2804
Strip Mall	0.18674	2.0100e-003	0.0183	0.0154	1.1000e-004		1.3900e-003	1.3900e-003		1.3900e-003	1.3900e-003		21.9694	21.9694	4.2000e-004	4.0000e-004	22.1031
User Defined Residential	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
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.3221	2.7537	1.1794	0.0176		0.2226	0.2226		0.2226	0.2226		3,513.9979	3,513.9979	0.0674	0.0644	3,535.3835

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					
Mitigated	52.1646	0.5980	51.5735	2.7000e-003		0.9518	0.9518		0.9447	0.9447	0.0000	10,680.3547	10,680.3547	0.2943	0.1941	10,746.7107
Unmitigated	52.1646	0.5980	51.5735	2.7000e-003		0.9518	0.9518		0.9447	0.9447	0.0000	10,680.3547	10,680.3547	0.2943	0.1941	10,746.7107

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	12.9708					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	36.6345					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.9706	4.0000e-005	0.0529	0.0000		0.6706	0.6706		0.6635	0.6635	0.0000	10,588.2353	10,588.2353	0.2029	0.1941	10,652.6735
Landscaping	1.5887	0.5980	51.5206	2.7000e-003		0.2812	0.2812		0.2812	0.2812		92.1194	92.1194	0.0913		94.0372
Total	52.1646	0.5980	51.5735	2.7000e-003		0.9518	0.9518		0.9447	0.9447	0.0000	10,680.3547	10,680.3547	0.2943	0.1941	10,746.7107

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	12.9708					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	36.6345					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.9706	4.0000e-005	0.0529	0.0000		0.6706	0.6706		0.6635	0.6635	0.0000	10,588.2353	10,588.2353	0.2029	0.1941	10,652.6735
Landscaping	1.5887	0.5980	51.5206	2.7000e-003		0.2812	0.2812		0.2812	0.2812		92.1194	92.1194	0.0913		94.0372
Total	52.1646	0.5980	51.5735	2.7000e-003		0.9518	0.9518		0.9447	0.9447	0.0000	10,680.3547	10,680.3547	0.2943	0.1941	10,746.7107

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 Vegetation

McKinley Village
Sacramento Valley Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	11.70	Acre	11.70	509,652.00	0
Parking Lot	40.00	Space	0.36	16,000.00	0
City Park	4.00	Acre	4.00	174,240.00	0
Recreational Swimming Pool	2.00	1000sqft	0.05	2,000.00	0
Single Family Housing	550.00	Dwelling Unit	30.00	990,000.00	1100
User Defined Residential	70.00	Dwelling Unit	0.00	0.00	70
Strip Mall	20.00	1000sqft	1.00	20,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	65
Climate Zone	6			Operational Year	2018
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - lot acreage, sq ft, and population per Project Description

Construction Phase - operational modeling only

Off-road Equipment - applicant construction data

Off-road Equipment - applicant construction data

Trips and VMT - vendor trips added to represent water trucks, worker trips modified to match applicant estimates

Grading - project site size

Vehicle Trips - per project traffic study

Woodstoves - per Project Description

Consumer Products - consumer products emissions to be calculated by hand, off-model. The model applies the emission factor to all land uses, even parking and paving, which should not generate any consumer product emissions

Water And Wastewater - all wastewater treated at WWTP

Land Use Change -

Construction Off-road Equipment Mitigation - 20% NOx reduction for construction fleet applied using oxidation catalyst. basic construction emission control practices implemented per SMAQMD CEQA Handbook

Mobile Land Use Mitigation -

Energy Mitigation - 30% above 2013 Title 24. CEC estimated that 2013 Title 24 would result in 25% energy savings over 2008 Title 24. 30% above 2013 Title 24 is calculated as:

$1 - [(1-.25) * (1-0.3)] \times 100 = 47.5\%$ improvement over 2008 Title 24

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	302.50	225.00
tblFireplaces	NumberGas	38.50	275.00
tblFireplaces	NumberWood	192.50	0.00
tblFireplaces	NumberWood	24.50	0.00
tblLandUse	LotAcreage	178.57	30.00
tblLandUse	LotAcreage	0.46	1.00
tblLandUse	Population	1,573.00	1,100.00
tblLandUse	Population	200.00	70.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	WorkerTripNumber	10.00	0.00
tblVehicleTrips	WD_TR	32.93	0.00
tblVehicleTrips	WD_TR	9.57	9.30
tblVehicleTrips	WD_TR	44.32	37.00
tblVehicleTrips	WD_TR	0.00	7.25
tblWoodstoves	NumberCatalytic	27.50	0.00
tblWoodstoves	NumberCatalytic	3.50	0.00
tblWoodstoves	NumberNoncatalytic	27.50	0.00
tblWoodstoves	NumberNoncatalytic	3.50	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	52.1646	0.5980	51.5735	2.7000e-003		0.9518	0.9518		0.9447	0.9447	0.0000	10,680.3547	10,680.3547	0.2943	0.1941	10,746.7107
Energy	0.5258	4.4952	1.9254	0.0287		0.3633	0.3633		0.3633	0.3633		5,736.1720	5,736.1720	0.1099	0.1052	5,771.0813
Mobile	65.6903	60.9045	260.4634	0.5727	35.5741	0.8760	36.4501	9.5154	0.8063	10.3217		47,361.9090	47,361.9090	1.6789		47,397.1651
Total	118.3807	65.9977	313.9623	0.6041	35.5741	2.1911	37.7652	9.5154	2.1143	11.6297	0.0000	63,778.4357	63,778.4357	2.0831	0.2993	63,914.9571

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	52.1646	0.5980	51.5735	2.7000e-003		0.9518	0.9518		0.9447	0.9447	0.0000	10,680.3547	10,680.3547	0.2943	0.1941	10,746.7107
Energy	0.3221	2.7537	1.1794	0.0176		0.2226	0.2226		0.2226	0.2226		3,513.9979	3,513.9979	0.0674	0.0644	3,535.3835
Mobile	62.1245	57.5819	248.1209	0.5355	33.1786	0.8214	34.0000	8.8747	0.7560	9.6307		44,283.2796	44,283.2796	1.5799		44,316.4569
Total	114.6113	60.9337	300.8738	0.5557	33.1786	1.9957	35.1743	8.8747	1.9233	10.7979	0.0000	58,477.6322	58,477.6322	1.9415	0.2585	58,598.5511

	ROG	NOx	CO	SO2	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	3.18	7.67	4.17	8.00	6.73	8.92	6.86	6.73	9.04	7.15	0.00	8.31	8.31	6.80	13.61	8.32

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2014	2/11/2014	5	30	

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 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	0	0.00	255	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	4	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.4740	14.1304	9.6904	0.0125		1.1100	1.1100		1.0212	1.0212		1,324.2603	1,324.2603	0.3913		1,332.4783
Total	1.4740	14.1304	9.6904	0.0125	0.0000	1.1100	1.1100	0.0000	1.0212	1.0212		1,324.2603	1,324.2603	0.3913		1,332.4783

Unmitigated Construction Off-Site

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

3.2 Site Preparation - 2014

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.4740	14.1304	9.6904	0.0125		1.1100	1.1100		1.0212	1.0212	0.0000	1,324.260 2	1,324.260 2	0.3913		1,332.478 2
Total	1.4740	14.1304	9.6904	0.0125	0.0000	1.1100	1.1100	0.0000	1.0212	1.0212	0.0000	1,324.260 2	1,324.260 2	0.3913		1,332.478 2

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	62.1245	57.5819	248.1209	0.5355	33.1786	0.8214	34.0000	8.8747	0.7560	9.6307		44,283.2796	44,283.2796	1.5799		44,316.4569
Unmitigated	65.6903	60.9045	260.4634	0.5727	35.5741	0.8760	36.4501	9.5154	0.8063	10.3217		47,361.9090	47,361.9090	1.6789		47,397.1651

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	6.36	6.36	6.36	13,578	12,663
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Recreational Swimming Pool	0.00	41.74	53.46	24,579	22,924
Single Family Housing	5,115.00	5,544.00	4823.50	14,187,391	13,232,020
User Defined Residential	507.50	0.00	0.00		
Strip Mall	740.00	840.80	408.60	1,088,891	1,015,566
Total	6,368.86	6,432.90	5,291.92	15,314,439	14,283,173

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9
Single Family Housing	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3
User Defined Residential	10.80	7.30	7.50	32.90	18.00	49.10	0	0	0
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.462115	0.061823	0.181510	0.153742	0.057112	0.007288	0.019722	0.042680	0.001823	0.001665	0.006988	0.000686	0.002845

5.0 Energy Detail

5.1 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

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
NaturalGas Mitigated	0.3221	2.7537	1.1794	0.0176		0.2226	0.2226		0.2226	0.2226		3,513.9979	3,513.9979	0.0674	0.0644	3,535.3835
NaturalGas Unmitigated	0.5258	4.4952	1.9254	0.0287		0.3633	0.3633		0.3633	0.3633		5,736.1720	5,736.1720	0.1099	0.1052	5,771.0813

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other 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
Parking Lot	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
Recreational Swimming Pool	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
Single Family Housing	48447.9	0.5225	4.4648	1.8999	0.0285		0.3610	0.3610		0.3610	0.3610		5,699.7497	5,699.7497	0.1093	0.1045	5,734.4374
Strip Mall	309.589	3.3400e-003	0.0304	0.0255	1.8000e-004		2.3100e-003	2.3100e-003		2.3100e-003	2.3100e-003		36.4222	36.4222	7.0000e-004	6.7000e-004	36.6439
User Defined Residential	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
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.5258	4.4952	1.9254	0.0287		0.3633	0.3633		0.3633	0.3633		5,736.1720	5,736.1720	0.1100	0.1052	5,771.0813

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
Other 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
Parking Lot	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
Recreational Swimming Pool	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
Single Family Housing	29.6822	0.3201	2.7354	1.1640	0.0175		0.2212	0.2212		0.2212	0.2212		3,492.0285	3,492.0285	0.0669	0.0640	3,513.2804	
Strip Mall	0.18674	2.0100e-003	0.0183	0.0154	1.1000e-004		1.3900e-003	1.3900e-003		1.3900e-003	1.3900e-003		21.9694	21.9694	4.2000e-004	4.0000e-004	22.1031	
User Defined Residential	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	
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	
Total		0.3221	2.7537	1.1794	0.0176		0.2226	0.2226		0.2226	0.2226		3,513.9979	3,513.9979	0.0674	0.0644	3,535.3835	

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					
Mitigated	52.1646	0.5980	51.5735	2.7000e-003		0.9518	0.9518		0.9447	0.9447	0.0000	10,680.3547	10,680.3547	0.2943	0.1941	10,746.7107
Unmitigated	52.1646	0.5980	51.5735	2.7000e-003		0.9518	0.9518		0.9447	0.9447	0.0000	10,680.3547	10,680.3547	0.2943	0.1941	10,746.7107

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	12.9708					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	36.6345					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.9706	4.0000e-005	0.0529	0.0000		0.6706	0.6706		0.6635	0.6635	0.0000	10,588.2353	10,588.2353	0.2029	0.1941	10,652.6735
Landscaping	1.5887	0.5980	51.5206	2.7000e-003		0.2812	0.2812		0.2812	0.2812		92.1194	92.1194	0.0913		94.0372
Total	52.1646	0.5980	51.5735	2.7000e-003		0.9518	0.9518		0.9447	0.9447	0.0000	10,680.3547	10,680.3547	0.2943	0.1941	10,746.7107

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	12.9708					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	36.6345					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.9706	4.0000e-005	0.0529	0.0000		0.6706	0.6706		0.6635	0.6635	0.0000	10,588.2353	10,588.2353	0.2029	0.1941	10,652.6735
Landscaping	1.5887	0.5980	51.5206	2.7000e-003		0.2812	0.2812		0.2812	0.2812		92.1194	92.1194	0.0913		94.0372
Total	52.1646	0.5980	51.5735	2.7000e-003		0.9518	0.9518		0.9447	0.9447	0.0000	10,680.3547	10,680.3547	0.2943	0.1941	10,746.7107

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 Vegetation