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FEB 10 2017
EL DORADO COUNTY
DEVELOPMENT SERVICES DEPT

Letter No.: EEO 2016-0632

June 6, 2016

VIA FIRST-CLASS MAIL

Chuck Centers
Starbuck Road 56, LLC
2625 Sheridan Way
Sacramento, CA 95821

Subject: Facility Improvement Letter (FIL), Cameron Ranch
Assessor's Parcel No. 102-110-14,24 & 102-421-01 (Cameron Park)

Dear Mr. Centers:

This letter is in response to your request dated May 5, 2016 and is valid for a period of three years. If facility improvement plans for your project are not submitted to El Dorado Irrigation District (EID or District) within three years of the date of this letter, a new Facility Improvement Letter will be required.

Design drawings for your project must be in conformance with the District's *Water, Sewer and Recycled Water Design and Construction Standards*.

This project is a 48-lot multi-family subdivision on 5.6 acres. Water service, sewer service and fire hydrants are requested. The property is within the District boundary.

This letter is not a commitment to serve, but does address the location and approximate capacity of existing facilities that may be available to serve your project.

Water Supply

As of January 1, 2015, there were 5,094 equivalent dwelling units (EDUs) of water supply available in the Western/Eastern Water Supply Region. The project currently has 14.75 of installed/uninstalled water EDUs. Your project as proposed on this date would require an additional 21.25 EDUs of water supply.

Water Facilities

A 6-inch water line exists in Camare Drive (see enclosed System Map). The Cameron Park Fire Department has determined that the minimum fire flow required for this project 1,000 GPM for a two-hour duration while maintaining a 20-psi residual pressure. In order to provide a 1,000 GPM fire flow and receive service, you must construct a water line extension looping the 6-inch

waterline in Camarc Drive to the 6-inch water line located near the intersection of Dunbar Road and Hastings Drive. The hydraulic grade line for the existing water distribution facilities is 1602 feet above mean sea level at static conditions and 1,555 feet above mean sea level during fire flow and maximum demands.

The flow predicted above was developed using a computer model and is not an actual field flow test.

Sewer Facilities

There is a 6-inch sewer line that traverses through the property to be developed. This line has capacity to serve the additional 21.25 EDUs requested at this time. In order to receive service from this line, an extension of facilities of adequate size must be constructed. Your project as proposed on this date would require a total of 36 EDUs of sewer service, the property already has 8.75 EDUs uninstalled.

Easement Requirements

Proposed water lines, sewer lines and related facilities must be located within an easement accessible by conventional maintenance vehicles. When the water lines or sewer lines are within streets, they shall be located within the paved section of the roadway. No structures will be permitted within the easements of any existing or proposed facilities. The District must have unobstructed access to these easements at all times, and generally does not allow water or sewer facilities along lot lines.

Easements for any new District facilities constructed by this project must be granted to the District prior to District approval of water and/or sewer improvement plans, whether on site or off site. In addition, due to either nonexistent or prescriptive easements for some older facilities, any existing on-site District facilities that will remain in place after the development of this property must also have an easement granted to the District.

Environmental

The County is the lead agency for environmental review of this project per Section 15051 of the California Environmental Quality Act Guidelines (CEQA). The County's environmental document should include a review of both off-site and on-site water and sewer facilities that may be constructed by this project. You may be requested to submit a copy of the County's environmental document to the District if your project involves significant off-site facilities. If the County's environmental document does not address all water and sewer facilities and they are not exempt from environmental review, a supplemental environmental document will be required. This document would be prepared by a consultant. It could require several months to prepare and you would be responsible for its cost.



Summary

Service to this proposed development is contingent upon the following:

- The availability of uncommitted water supplies at the time service is requested;
- Approval of the County's environmental document by the District (if requested);
- Executed grant documents for all required easements;
- Approval of an extension of facilities application by the District;
- Approval of facility improvement plans by the District;
- Construction by the developer of all on-site and off-site proposed water and sewer facilities;
- Acceptance of these facilities by the District; and
- Payment of all District connection costs.

Services shall be provided in accordance with El Dorado Irrigation District Board Policies and Administrative Regulations, as amended from time-to-time. As they relate to conditions of and fees for extension of service, District Administrative Regulations will apply as of the date of a fully executed Extension of Facilities Agreement.

If you have any questions, please contact me at (530) 642-4054.

Sincerely,

A handwritten signature in blue ink, appearing to read 'M. Brink', is written over a horizontal line.

Michael J. Brink, P.E.
Supervising Civil Engineer

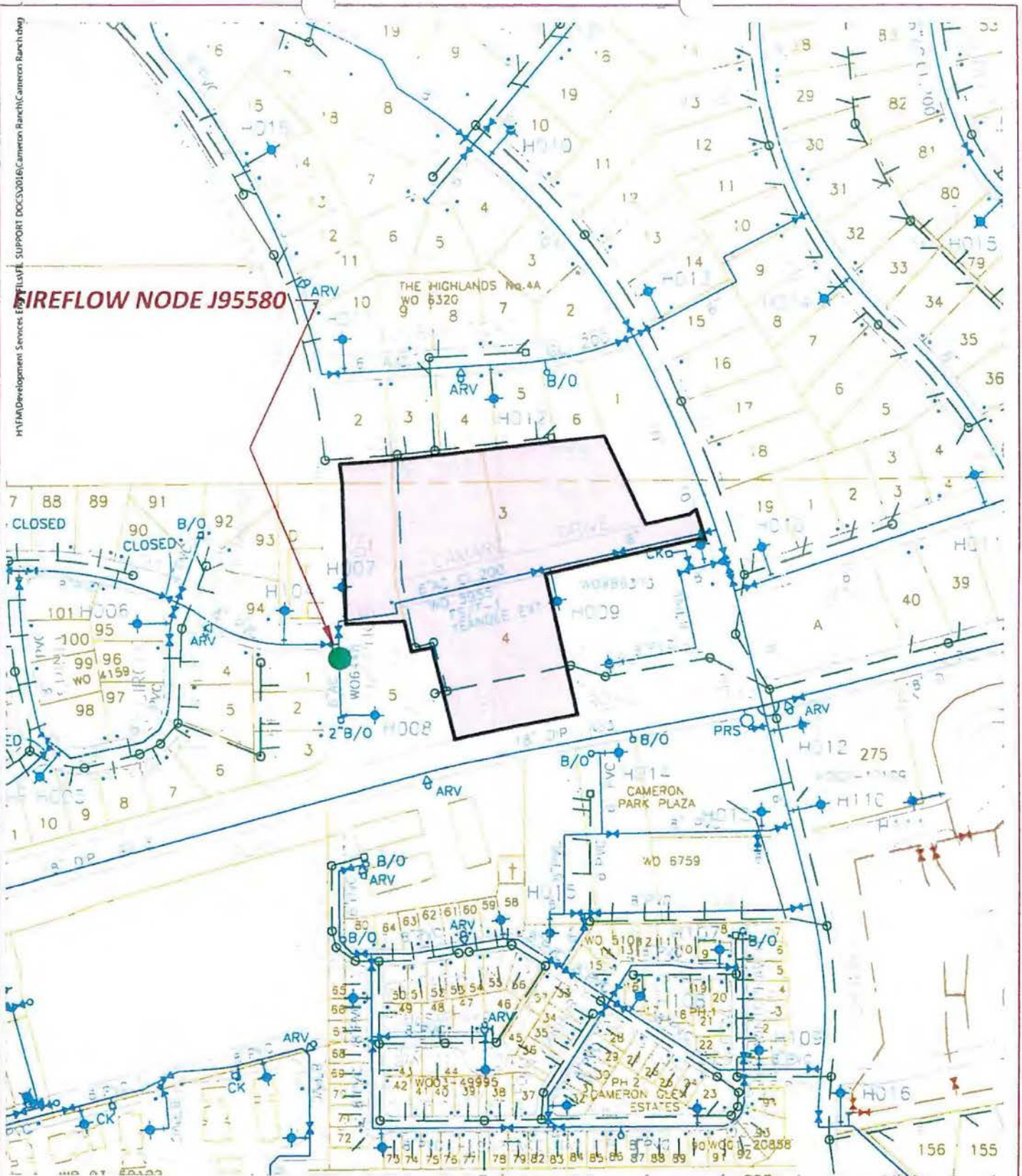
MB/MM:at

Enclosures: System Map

cc w/ System Map:

Michael Smith – Battalion Chief/Fire Marshal
Cameron Park Fire Department
Via email – mike.smith@fire.ca.gov

Roger Trout, Director
El Dorado County Development Services Department
Via email - roger.trout@edcgov.us



FIREFLOW NODE J95580

El Dorado Irrigation District
System Map

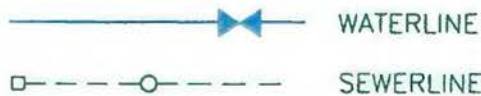
DATE: June 3, 2016

WARNING: For schematic purposes only.
Exact pipe location must be
field verified.

Cameron Ranch



Scale: 1" = 250'



APN: 102-110-14,24+
102-421-01



June 13, 2016

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FEB 10 2017

**EL DORADO COUNTY
DEVELOPMENT SERVICES DEPT**

Mr. Charles L. Centers
Starbuck Road 56, LLC
2625 Sheridan Way
Sacramento, CA 95821

SUBJECT: Air Quality Assessment for the 42-Unit Cameron Park Single Family Residential Project (APN: 102-421-011, 102-110-13, 102-110-141, and a portion of 102-110-11)

Dear Mr. Centers:

RCH Group (RCH) has conducted an assessment of air quality (i.e., criteria pollutants) and greenhouse gas (GHG) emissions relative to the construction and operation of the 42-unit single family residential project to be constructed on the above referenced lots in Cameron Park (bounded by Green Valley, Hastings, and Starbuck Roads). The project will include 5.6 acres total.

RCH reviewed the assessment information contained in the El Dorado County Air Quality Management District's (EDCAQMD) *Guide to Air Quality Assessment*. The *Guide* indicates that criteria pollutant significance thresholds for either construction or operations are:

Reactive Organic Gases (ROG) = 82 pounds per day (lbs/day)
Nitrogen Oxides (NOx) = 82 lbs/day

With regard to GHG emissions, the EDCAQMD currently does not have adopted GHG thresholds of significance for CEQA review projects. Based upon consultation with the EDCAQMD, the Sacramento Metropolitan Air Quality Management District (SMAQMD) recently adopted (2014) GHG significance threshold of 1,100 metric tons of carbon dioxide equivalent (CO₂e) per year (applicable to both project construction and operations) will be used to assess the level of impact. The EDCAQMD was part of the regional team of air districts which helped develop the recently adopted SMAQMD thresholds.

RCH used the California Emissions Estimator Model (CalEEMod) Version 2013.2.2 to estimate emissions from project construction and operations. CalEEMod was developed in collaboration with the air districts of California and is an accurate and comprehensive tool for quantifying air quality impacts from land use projects throughout California. Project construction was assumed to begin in early 2017 and would be completed after approximately 15 months (Based on a CalEEMod default construction schedule).

When using the default values provided by CalEEMod for the construction schedule, construction-related ROG emissions exceeded the EDCAQMD 82 lbs/day significance threshold during architectural coating. The remaining construction- and operation-related emissions were well below the EDCAQMD significance threshold, as shown below in **Table 1**.

When we adjusted the construction schedule for the architectural coating phase from four weeks to six, all of the emissions were below the EDCAQMD significance thresholds, as shown below in **Table 2**.

Table 1: Cameron Park Single Family Residential Project - CalEEMod Default Construction Schedule

	EDCAQMD Criteria (lbs/day)	Maximum Daily Project Emission Estimates (CalEEMod) (lbs/day)	Significant?
Construction NOx	82	51.8	No
Construction ROG	82	118.6	Yes
Operations NOx	82	4.2	No
Operations ROG	82	68.2	No

Source: CalEEMod Version 2013.2.2

Table 2: Cameron Park Single Family Residential Project – CalEEMod Six-Week Coating Phase

	EDCAQMD Criteria (lbs/day)	Maximum Daily Project Emission Estimates (CalEEMod) (lbs/day)	Significant?
Construction NOx	82	51.8	No
Construction ROG	82	79.1	No
Operations NOx	82	4.2	No
Operations ROG	82	68.2	No

Source: CalEEMod Version 2013.2.2

Therefore, in order for your project to remain below the EDCAQMD ROG significance threshold, the architectural coating phase should occur over a six-week period or greater.

Your project will also need to commit to control dust so that dust is not visible beyond the boundaries of the project site. According to the *Guide*, fugitive dust (PM10) would then have a less-than-significant effect on air quality (see Section 4.4.3. of the *Guide* -- Mitigating Fugitive Dust).

“To qualify for the screening presumption that fugitive dust emissions from project construction are not significant, a project must commit to implement fugitive dust control measures sufficient to prevent visible dust beyond the project property lines.”

However, fugitive dust emissions and emission controls will be addressed when the required EDCAQMD Fugitive Dust Plan Application is completed and filed for the project.

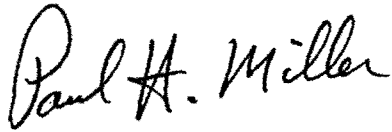
GHG emissions were estimated using CalEEMod, supplemented with emission factors from the Pacific Gas and Electric Company (PG&E) for indirect emissions associated with energy usage. Project operations would generate approximately 583 metric tons per year of CO₂e (including emissions from vehicle trips, heating/cooling, water usage, waste generation, and indirect emissions from the use of electricity). Construction of the project would generate approximately 357 metric tons of CO₂e in 2017 and 51 metric tons of CO₂e in 2018. Both construction and operational GHG emissions would be below the GHG significance threshold of 1,100 metric tons of CO₂e per year, thus a less-than-significant impact.

In addition, Asbestos is of special concern in El Dorado County because Naturally Occurring Asbestos (NOA) is often found in the Sierra Foothills and airborne asbestos fibers pose a serious health threat if adequate control techniques are not carried out when the material is disturbed. Review of the El Dorado

County *NOA Review Map* indicates the project is not located in or near a known NOA area and therefore, would be considered a less-than-significant impact.

Please present this letter to the County Planning staff or EDCAQMD personnel as needed. If there are any questions please contact me at (916) 782-4427.

Sincerely,

A handwritten signature in black ink that reads "Paul H. Miller". The signature is written in a cursive style with a large initial "P" and "M".

Paul Miller
Managing Principal, Air Quality Specialist

Attachments: CalEEMod Output Files

cc: Jim Fisher, REY Engineers

CalEEMod Output Files

Annual Emissions (31 pages)

Summer Emissions (25 pages)

Winter Emissions (six-week coating phase) (25 pages)

Winter Emissions (four-week coating phase) (25 pages)

**Cameron Park Single Family Residential
El Dorado-Mountain County County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	42.00	Dwelling Unit	5.60	75,600.00	120

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	70
Climate Zone	1			Operational Year	2019
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	307	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - PG&E, November 2015
 Land Use - 42 SF units on a 5.6-acre site
 Demolition -
 Energy Use - PG&E, November 2015
 Area Mitigation -
 Construction Phase - Increase Coating phase from 20 to 30 days

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	PhaseEndDate	4/6/2018	4/5/2018
tblLandUse	LotAcreage	13.64	5.60
tblProjectCharacteristics	CO2IntensityFactor	641.35	307
tblProjectCharacteristics	OperationalYear	2014	2019

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2017	0.4377	3.8662	2.8831	3.9900e-003	0.1764	0.2431	0.4195	0.0886	0.2275	0.3161	0.0000	355.4524	355.4524	0.0867	0.0000	357.2734
2018	1.1918	0.4379	0.3689	5.8000e-004	2.9500e-003	0.0266	0.0295	7.9000e-004	0.0249	0.0257	0.0000	50.7339	50.7339	0.0126	0.0000	50.9985
Total	1.6295	4.3041	3.2520	4.5700e-003	0.1793	0.2697	0.4490	0.0894	0.2524	0.3418	0.0000	406.1862	406.1862	0.0993	0.0000	408.2719

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2017	0.4377	3.8662	2.8831	3.9900e-003	0.1764	0.2431	0.4195	0.0886	0.2275	0.3161	0.0000	355.4520	355.4520	0.0867	0.0000	357.2730
2018	1.1918	0.4379	0.3688	5.8000e-004	2.9500e-003	0.0266	0.0295	7.9000e-004	0.0249	0.0257	0.0000	50.7338	50.7338	0.0126	0.0000	50.9985
Total	1.6295	4.3041	3.2520	4.5700e-003	0.1793	0.2697	0.4490	0.0894	0.2524	0.3418	0.0000	406.1858	406.1858	0.0993	0.0000	408.2714

	ROG	NOx	CO	SO2	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

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	3.0585	0.0394	3.5599	1.2800e-003		0.4578	0.4578		0.4578	0.4578	43.3842	18.7041	62.0883	0.0405	3.4100e-003	63.9975
Energy	4.0400e-003	0.0345	0.0147	2.2000e-004		2.7900e-003	2.7900e-003		2.7900e-003	2.7900e-003	0.0000	82.3399	82.3399	4.7700e-003	1.5600e-003	82.9239
Mobile	0.2331	0.5193	2.3244	5.8500e-003	0.4225	6.7700e-003	0.4293	0.1131	6.2400e-003	0.1194	0.0000	416.2336	416.2336	0.0170	0.0000	416.5914
Waste						0.0000	0.0000		0.0000	0.0000	6.0897	0.0000	6.0897	0.3599	0.0000	13.6475
Water						0.0000	0.0000		0.0000	0.0000	0.8682	2.9027	3.7709	0.0894	2.1600e-003	6.3195
Total	3.2956	0.5931	5.8990	7.3500e-003	0.4225	0.4674	0.8899	0.1131	0.4668	0.5800	50.3421	520.1804	570.5225	0.5117	7.1300e-003	583.4797

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	3.0585	0.0394	3.5599	1.2800e-003		0.4578	0.4578		0.4578	0.4578	43.3842	18.7041	62.0883	0.0405	3.4100e-003	63.9975
Energy	4.0400e-003	0.0345	0.0147	2.2000e-004		2.7900e-003	2.7900e-003		2.7900e-003	2.7900e-003	0.0000	82.3399	82.3399	4.7700e-003	1.5600e-003	82.9239
Mobile	0.2331	0.5193	2.3244	5.8500e-003	0.4225	6.7700e-003	0.4293	0.1131	6.2400e-003	0.1194	0.0000	416.2336	416.2336	0.0170	0.0000	416.5914
Waste						0.0000	0.0000		0.0000	0.0000	6.0897	0.0000	6.0897	0.3599	0.0000	13.6475
Water						0.0000	0.0000		0.0000	0.0000	0.8682	2.9027	3.7709	0.0894	2.1600e-003	6.3181
Total	3.2956	0.5931	5.8990	7.3500e-003	0.4225	0.4674	0.8899	0.1131	0.4668	0.5800	50.3421	520.1804	570.5225	0.5117	7.1300e-003	583.4783

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2017	1/27/2017	5	20	
2	Site Preparation	Site Preparation	1/28/2017	2/10/2017	5	10	
3	Grading	Grading	2/11/2017	3/10/2017	5	20	
4	Building Construction	Building Construction	3/11/2017	1/26/2018	5	230	
5	Paving	Paving	1/27/2018	2/23/2018	5	20	
6	Architectural Coating	Architectural Coating	2/24/2018	4/5/2018	5	30	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 0

Residential Indoor: 153,090; Residential Outdoor: 51,030; 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
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	3	8.00	162	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	1	8.00	162	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
Paving	Pavers	2	8.00	125	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	174	0.41
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Paving Equipment	2	8.00	130	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	20.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	15.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	3.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 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					
Fugitive Dust					2.2500e-003	0.0000	2.2500e-003	3.4000e-004	0.0000	3.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0405	0.4270	0.3389	4.0000e-004		0.0213	0.0213		0.0198	0.0198	0.0000	36.6182	36.6182	0.0101	0.0000	36.8292
Total	0.0405	0.4270	0.3389	4.0000e-004	2.2500e-003	0.0213	0.0235	3.4000e-004	0.0198	0.0201	0.0000	36.6182	36.6182	0.0101	0.0000	36.8292

3.2 Demolition - 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	tons/yr										MT/yr					
Hauling	3.0000e-004	2.4700e-003	7.1500e-003	1.0000e-005	1.6000e-004	2.0000e-005	1.8000e-004	4.0000e-005	2.0000e-005	6.0000e-005	0.0000	0.5053	0.5053	0.0000	0.0000	0.5054
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	5.1000e-004	6.3000e-004	6.4200e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0293	1.0293	5.0000e-005	0.0000	1.0304
Total	8.1000e-004	3.1000e-003	0.0136	2.0000e-005	1.3400e-003	3.0000e-005	1.3700e-003	3.5000e-004	3.0000e-005	3.8000e-004	0.0000	1.5346	1.5346	5.0000e-005	0.0000	1.5358

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					2.2500e-003	0.0000	2.2500e-003	3.4000e-004	0.0000	3.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0405	0.4270	0.3389	4.0000e-004		0.0213	0.0213		0.0198	0.0198	0.0000	36.6182	36.6182	0.0101	0.0000	36.8291
Total	0.0405	0.4270	0.3389	4.0000e-004	2.2500e-003	0.0213	0.0235	3.4000e-004	0.0198	0.0201	0.0000	36.6182	36.6182	0.0101	0.0000	36.8291

3.2 Demolition - 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	tons/yr										MT/yr					
Hauling	3.0000e-004	2.4700e-003	7.1500e-003	1.0000e-005	1.6000e-004	2.0000e-005	1.8000e-004	4.0000e-005	2.0000e-005	6.0000e-005	0.0000	0.5053	0.5053	0.0000	0.0000	0.5054
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	5.1000e-004	6.3000e-004	6.4200e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0293	1.0293	5.0000e-005	0.0000	1.0304
Total	8.1000e-004	3.1000e-003	0.0136	2.0000e-005	1.3400e-003	3.0000e-005	1.3700e-003	3.5000e-004	3.0000e-005	3.8000e-004	0.0000	1.5346	1.5346	5.0000e-005	0.0000	1.5358

3.3 Site Preparation - 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					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0242	0.2588	0.1970	2.0000e-004		0.0138	0.0138		0.0127	0.0127	0.0000	18.1577	18.1577	5.5600e-003	0.0000	18.2745
Total	0.0242	0.2588	0.1970	2.0000e-004	0.0903	0.0138	0.1041	0.0497	0.0127	0.0623	0.0000	18.1577	18.1577	5.5600e-003	0.0000	18.2745

3.3 Site Preparation - 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	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	3.0000e-004	3.8000e-004	3.8500e-003	1.0000e-005	7.1000e-004	1.0000e-005	7.1000e-004	1.9000e-004	1.0000e-005	1.9000e-004	0.0000	0.6176	0.6176	3.0000e-005	0.0000	0.6183	0.6183
Total	3.0000e-004	3.8000e-004	3.8500e-003	1.0000e-005	7.1000e-004	1.0000e-005	7.1000e-004	1.9000e-004	1.0000e-005	1.9000e-004	0.0000	0.6176	0.6176	3.0000e-005	0.0000	0.6183	0.6183

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					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0242	0.2588	0.1970	2.0000e-004		0.0138	0.0138		0.0127	0.0127	0.0000	18.1577	18.1577	5.5600e-003	0.0000	18.2745
Total	0.0242	0.2588	0.1970	2.0000e-004	0.0903	0.0138	0.1041	0.0497	0.0127	0.0623	0.0000	18.1577	18.1577	5.5600e-003	0.0000	18.2745

3.3 Site Preparation - 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	3.8000e-004	3.8500e-003	1.0000e-005	7.1000e-004	1.0000e-005	7.1000e-004	1.9000e-004	1.0000e-005	1.9000e-004	0.0000	0.6176	0.6176	3.0000e-005	0.0000	0.6183
Total	3.0000e-004	3.8000e-004	3.8500e-003	1.0000e-005	7.1000e-004	1.0000e-005	7.1000e-004	1.9000e-004	1.0000e-005	1.9000e-004	0.0000	0.6176	0.6176	3.0000e-005	0.0000	0.6183

3.4 Grading - 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					
Fugitive Dust					0.0655	0.0000	0.0655	0.0337	0.0000	0.0337	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0346	0.3598	0.2538	3.0000e-004		0.0204	0.0204		0.0188	0.0188	0.0000	27.6117	27.6117	8.4600e-003	0.0000	27.7893
Total	0.0346	0.3598	0.2538	3.0000e-004	0.0655	0.0204	0.0859	0.0337	0.0188	0.0524	0.0000	27.6117	27.6117	8.4600e-003	0.0000	27.7893

3.4 Grading - 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	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	5.1000e-004	6.3000e-004	6.4200e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0293	1.0293	5.0000e-005	0.0000	1.0304	
Total	5.1000e-004	6.3000e-004	6.4200e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0293	1.0293	5.0000e-005	0.0000	1.0304	

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					0.0655	0.0000	0.0655	0.0337	0.0000	0.0337	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0346	0.3598	0.2538	3.0000e-004		0.0204	0.0204		0.0188	0.0188	0.0000	27.6117	27.6117	8.4600e-003	0.0000	27.7893
Total	0.0346	0.3598	0.2538	3.0000e-004	0.0655	0.0204	0.0859	0.0337	0.0188	0.0524	0.0000	27.6117	27.6117	8.4600e-003	0.0000	27.7893

3.4 Grading - 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	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	5.1000e-004	6.3000e-004	6.4200e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0293	1.0293	5.0000e-005	0.0000	1.0304
Total	5.1000e-004	6.3000e-004	6.4200e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0293	1.0293	5.0000e-005	0.0000	1.0304

3.5 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	0.3258	2.7726	1.9036	2.8100e-003		0.1870	0.1870		0.1757	0.1757	0.0000	251.4531	251.4531	0.0619	0.0000	252.7527
Total	0.3258	2.7726	1.9036	2.8100e-003		0.1870	0.1870		0.1757	0.1757	0.0000	251.4531	251.4531	0.0619	0.0000	252.7527

3.5 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	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	5.7500e-003	0.0374	0.0987	9.0000e-005	2.6200e-003	5.1000e-004	3.1300e-003	7.5000e-004	4.7000e-004	1.2100e-003	0.0000	7.6222	7.6222	6.0000e-005	0.0000	7.6235	
Worker	5.3200e-003	6.5700e-003	0.0674	1.5000e-004	0.0124	1.0000e-004	0.0125	3.3000e-003	9.0000e-005	3.3900e-003	0.0000	10.8080	10.8080	5.6000e-004	0.0000	10.8197	
Total	0.0111	0.0440	0.1660	2.4000e-004	0.0150	6.1000e-004	0.0156	4.0500e-003	5.6000e-004	4.6000e-003	0.0000	18.4302	18.4302	6.2000e-004	0.0000	18.4431	

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	0.3258	2.7726	1.9036	2.8100e-003		0.1870	0.1870		0.1757	0.1757	0.0000	251.4528	251.4528	0.0619	0.0000	252.7524
Total	0.3258	2.7726	1.9036	2.8100e-003		0.1870	0.1870		0.1757	0.1757	0.0000	251.4528	251.4528	0.0619	0.0000	252.7524

3.5 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	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	5.7500e-003	0.0374	0.0987	9.0000e-005	2.6200e-003	5.1000e-004	3.1300e-003	7.5000e-004	4.7000e-004	1.2100e-003	0.0000	7.6222	7.6222	6.0000e-005	0.0000	7.6235
Worker	5.3200e-003	6.5700e-003	0.0674	1.5000e-004	0.0124	1.0000e-004	0.0125	3.3000e-003	9.0000e-005	3.3900e-003	0.0000	10.8080	10.8080	5.6000e-004	0.0000	10.8197
Total	0.0111	0.0440	0.1660	2.4000e-004	0.0150	6.1000e-004	0.0156	4.0500e-003	5.6000e-004	4.6000e-003	0.0000	18.4302	18.4302	6.2000e-004	0.0000	18.4431

3.5 Building Construction - 2018

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	0.0267	0.2326	0.1753	2.7000e-004		0.0149	0.0149		0.0141	0.0141	0.0000	23.6770	23.6770	5.7900e-003	0.0000	23.7987
Total	0.0267	0.2326	0.1753	2.7000e-004		0.0149	0.0149		0.0141	0.0141	0.0000	23.6770	23.6770	5.7900e-003	0.0000	23.7987

3.5 Building Construction - 2018

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	4.8000e-004	3.3200e-003	8.7200e-003	1.0000e-005	2.5000e-004	4.0000e-005	2.9000e-004	7.0000e-005	4.0000e-005	1.1000e-004	0.0000	0.7181	0.7181	1.0000e-005	0.0000	0.7182
Worker	4.4000e-004	5.6000e-004	5.6600e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9903	0.9903	5.0000e-005	0.0000	0.9913
Total	9.2000e-004	3.8800e-003	0.0144	2.0000e-005	1.4300e-003	5.0000e-005	1.4800e-003	3.8000e-004	5.0000e-005	4.3000e-004	0.0000	1.7084	1.7084	6.0000e-005	0.0000	1.7095

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	0.0267	0.2326	0.1753	2.7000e-004		0.0149	0.0149		0.0141	0.0141	0.0000	23.6769	23.6769	5.7900e-003	0.0000	23.7986
Total	0.0267	0.2326	0.1753	2.7000e-004		0.0149	0.0149		0.0141	0.0141	0.0000	23.6769	23.6769	5.7900e-003	0.0000	23.7986

3.5 Building Construction - 2018

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	4.8000e-004	3.3200e-003	8.7200e-003	1.0000e-005	2.5000e-004	4.0000e-005	2.9000e-004	7.0000e-005	4.0000e-005	1.1000e-004	0.0000	0.7181	0.7181	1.0000e-005	0.0000	0.7182
Worker	4.4000e-004	5.6000e-004	5.6600e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9903	0.9903	5.0000e-005	0.0000	0.9913
Total	9.2000e-004	3.8800e-003	0.0144	2.0000e-005	1.4300e-003	5.0000e-005	1.4800e-003	3.8000e-004	5.0000e-005	4.3000e-004	0.0000	1.7084	1.7084	6.0000e-005	0.0000	1.7095

3.6 Paving - 2018

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	0.0161	0.1716	0.1449	2.2000e-004		9.3900e-003	9.3900e-003		8.6400e-003	8.6400e-003	0.0000	20.3687	20.3687	6.3400e-003	0.0000	20.5019
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0161	0.1716	0.1449	2.2000e-004		9.3900e-003	9.3900e-003		8.6400e-003	8.6400e-003	0.0000	20.3687	20.3687	6.3400e-003	0.0000	20.5019

3.6 Paving - 2018

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	4.4000e-004	5.6000e-004	5.6600e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9903	0.9903	5.0000e-005	0.0000	0.9913	0.9913
Total	4.4000e-004	5.6000e-004	5.6600e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9903	0.9903	5.0000e-005	0.0000	0.9913	0.9913

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	0.0161	0.1716	0.1449	2.2000e-004		9.3900e-003	9.3900e-003		8.6400e-003	8.6400e-003	0.0000	20.3687	20.3687	6.3400e-003	0.0000	20.5019	20.5019
Paving	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	0.0161	0.1716	0.1449	2.2000e-004		9.3900e-003	9.3900e-003		8.6400e-003	8.6400e-003	0.0000	20.3687	20.3687	6.3400e-003	0.0000	20.5019	20.5019

3.6 Paving - 2018

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	4.4000e-004	5.6000e-004	5.6600e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9903	0.9903	5.0000e-005	0.0000	0.9913
Total	4.4000e-004	5.6000e-004	5.6600e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9903	0.9903	5.0000e-005	0.0000	0.9913

3.7 Architectural Coating - 2018

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	1.1432					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.3300e-003	0.0291	0.0269	4.0000e-005		2.1800e-003	2.1800e-003		2.1800e-003	2.1800e-003	0.0000	3.7022	3.7022	3.5000e-004	0.0000	3.7096
Total	1.1475	0.0291	0.0269	4.0000e-005		2.1800e-003	2.1800e-003		2.1800e-003	2.1800e-003	0.0000	3.7022	3.7022	3.5000e-004	0.0000	3.7096

3.7 Architectural Coating - 2018

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	1.3000e-004	1.6000e-004	1.6400e-003	0.0000	3.4000e-004	0.0000	3.5000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2872	0.2872	1.0000e-005	0.0000	0.2875	
Total	1.3000e-004	1.6000e-004	1.6400e-003	0.0000	3.4000e-004	0.0000	3.5000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2872	0.2872	1.0000e-005	0.0000	0.2875	

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	1.1432					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.3300e-003	0.0291	0.0269	4.0000e-005		2.1800e-003	2.1800e-003		2.1800e-003	2.1800e-003	0.0000	3.7022	3.7022	3.5000e-004	0.0000	3.7096
Total	1.1475	0.0291	0.0269	4.0000e-005		2.1800e-003	2.1800e-003		2.1800e-003	2.1800e-003	0.0000	3.7022	3.7022	3.5000e-004	0.0000	3.7096

3.7 Architectural Coating - 2018

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	1.3000e-004	1.6000e-004	1.6400e-003	0.0000	3.4000e-004	0.0000	3.5000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2872	0.2872	1.0000e-005	0.0000	0.2875
Total	1.3000e-004	1.6000e-004	1.6400e-003	0.0000	3.4000e-004	0.0000	3.5000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2872	0.2872	1.0000e-005	0.0000	0.2875

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	0.2331	0.5193	2.3244	5.8500e-003	0.4225	6.7700e-003	0.4293	0.1131	6.2400e-003	0.1194	0.0000	416.2336	416.2336	0.0170	0.0000	416.5914
Unmitigated	0.2331	0.5193	2.3244	5.8500e-003	0.4225	6.7700e-003	0.4293	0.1131	6.2400e-003	0.1194	0.0000	416.2336	416.2336	0.0170	0.0000	416.5914

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	401.94	423.36	368.34	1,146,390	1,146,390
Total	401.94	423.36	368.34	1,146,390	1,146,390

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	42.60	21.00	36.40	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.456583	0.078851	0.189597	0.160849	0.074758	0.010700	0.011077	0.000966	0.001372	0.000777	0.008826	0.000741	0.004904

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	42.3750	42.3750	4.0000e-003	8.3000e-004	42.7157
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	42.3750	42.3750	4.0000e-003	8.3000e-004	42.7157
NaturalGas Mitigated	4.0400e-003	0.0345	0.0147	2.2000e-004		2.7900e-003	2.7900e-003		2.7900e-003	2.7900e-003	0.0000	39.9649	39.9649	7.7000e-004	7.3000e-004	40.2082
NaturalGas Unmitigated	4.0400e-003	0.0345	0.0147	2.2000e-004		2.7900e-003	2.7900e-003		2.7900e-003	2.7900e-003	0.0000	39.9649	39.9649	7.7000e-004	7.3000e-004	40.2082

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	748915	4.0400e-003	0.0345	0.0147	2.2000e-004		2.7900e-003	2.7900e-003		2.7900e-003	2.7900e-003	0.0000	39.9649	39.9649	7.7000e-004	7.3000e-004	40.2082
Total		4.0400e-003	0.0345	0.0147	2.2000e-004		2.7900e-003	2.7900e-003		2.7900e-003	2.7900e-003	0.0000	39.9649	39.9649	7.7000e-004	7.3000e-004	40.2082

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	748915	4.0400e-003	0.0345	0.0147	2.2000e-004		2.7900e-003	2.7900e-003		2.7900e-003	2.7900e-003	0.0000	39.9649	39.9649	7.7000e-004	7.3000e-004	40.2082
Total		4.0400e-003	0.0345	0.0147	2.2000e-004		2.7900e-003	2.7900e-003		2.7900e-003	2.7900e-003	0.0000	39.9649	39.9649	7.7000e-004	7.3000e-004	40.2082

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	304302	42.3750	4.0000e-003	8.3000e-004	42.7157
Total		42.3750	4.0000e-003	8.3000e-004	42.7157

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	304302	42.3750	4.0000e-003	8.3000e-004	42.7157
Total		42.3750	4.0000e-003	8.3000e-004	42.7157

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	3.0585	0.0394	3.5599	1.2800e-003		0.4578	0.4578		0.4578	0.4578	43.3842	18.7041	62.0883	0.0405	3.4100e-003	63.9975
Unmitigated	3.0585	0.0394	3.5599	1.2800e-003		0.4578	0.4578		0.4578	0.4578	43.3842	18.7041	62.0883	0.0405	3.4100e-003	63.9975

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	0.1183					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2953					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	2.6353	0.0358	3.2465	1.2700e-003		0.4561	0.4561		0.4561	0.4561	43.3842	18.1947	61.5789	0.0400	3.4100e-003	63.4776
Landscaping	9.5900e-003	3.6300e-003	0.3134	2.0000e-005		1.7200e-003	1.7200e-003		1.7200e-003	1.7200e-003	0.0000	0.5094	0.5094	5.0000e-004	0.0000	0.5199
Total	3.0585	0.0394	3.5599	1.2900e-003		0.4578	0.4578		0.4578	0.4578	43.3842	18.7041	62.0883	0.0405	3.4100e-003	63.9975

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	0.1183					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2953					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	2.6353	0.0358	3.2465	1.2700e-003		0.4561	0.4561		0.4561	0.4561	43.3842	18.1947	61.5789	0.0400	3.4100e-003	63.4776
Landscaping	9.5900e-003	3.6300e-003	0.3134	2.0000e-005		1.7200e-003	1.7200e-003		1.7200e-003	1.7200e-003	0.0000	0.5094	0.5094	5.0000e-004	0.0000	0.5199
Total	3.0585	0.0394	3.5599	1.2900e-003		0.4578	0.4578		0.4578	0.4578	43.3842	18.7041	62.0883	0.0405	3.4100e-003	63.9975

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	3.7709	0.0894	2.1600e-003	6.3181
Unmitigated	3.7709	0.0894	2.1600e-003	6.3195

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	2.73647 / 1.72517	3.7709	0.0894	2.1600e-003	6.3195
Total		3.7709	0.0894	2.1600e-003	6.3195

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	2.73647 / 1.72517	3.7709	0.0894	2.1600e-003	6.3181
Total		3.7709	0.0894	2.1600e-003	6.3181

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	6.0897	0.3599	0.0000	13.6475
Unmitigated	6.0897	0.3599	0.0000	13.6475

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	30	6.0897	0.3599	0.0000	13.6475
Total		6.0897	0.3599	0.0000	13.6475

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	30	6.0897	0.3599	0.0000	13.6475
Total		6.0897	0.3599	0.0000	13.6475

9.0 Operational Offroad

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

**Cameron Park Single Family Residential
El Dorado-Mountain County County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	42.00	Dwelling Unit	5.60	75,600.00	120

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	70
Climate Zone	1			Operational Year	2019
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	307	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

- Project Characteristics - PG&E, November 2015
- Land Use - 42 SF units on a 5.6-acre site
- Demolition -
- Energy Use - PG&E, November 2015
- Area Mitigation -
- Construction Phase - Increase Coating phase from 20 to 30 days

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	PhaseEndDate	4/6/2018	4/5/2018
tblLandUse	LotAcreage	13.64	5.60
tblProjectCharacteristics	CO2IntensityFactor	641.35	307
tblProjectCharacteristics	OperationalYear	2014	2019

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					
2017	4.9090	51.8189	40.2426	0.0421	18.2141	2.7554	20.9695	9.9699	2.5349	12.5048	0.0000	4,216.535 1	4,216.535 1	1.2336	0.0000	4,242.440 0
2018	79.1504	23.6206	18.8515	0.0292	0.1492	1.4993	1.6484	0.0401	1.4094	1.4494	0.0000	2,808.994 9	2,808.994 9	0.7043	0.0000	2,823.785 8
Total	84.0593	75.4395	59.0941	0.0713	18.3633	4.2546	22.6179	10.0100	3.9443	13.9543	0.0000	7,025.530 1	7,025.530 1	1.9379	0.0000	7,066.225 8

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					
2017	4.9090	51.8189	40.2426	0.0421	18.2141	2.7554	20.9695	9.9699	2.5349	12.5048	0.0000	4,216.535 1	4,216.535 1	1.2336	0.0000	4,242.440 0
2018	79.1504	23.6206	18.8515	0.0292	0.1492	1.4993	1.6484	0.0401	1.4094	1.4494	0.0000	2,808.994 9	2,808.994 9	0.7043	0.0000	2,823.785 8
Total	84.0593	75.4395	59.0941	0.0713	18.3633	4.2546	22.6179	10.0100	3.9443	13.9543	0.0000	7,025.530 1	7,025.530 1	1.9379	0.0000	7,066.225 8

	ROG	NOx	CO	SO2	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

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	66.6490	0.9124	82.6641	0.0311		11.1437	11.1437		11.1433	11.1433	1,166.4127	495.4157	1,661.8284	1.0825	0.0918	1,713.0031
Energy	0.0221	0.1891	0.0805	1.2100e-003		0.0153	0.0153		0.0153	0.0153		241.3907	241.3907	4.6300e-003	4.4300e-003	242.8598
Mobile	1.5204	2.7666	14.0717	0.0367	2.5613	0.0394	2.6006	0.6836	0.0363	0.7198		2,870.5398	2,870.5398	0.1093		2,872.8344
Total	68.1916	3.8681	96.8163	0.0690	2.5613	11.1983	13.7596	0.6836	11.1949	11.8785	1,166.4127	3,607.3461	4,773.7588	1.1964	0.0962	4,828.6973

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	66.6490	0.9124	82.6641	0.0311		11.1437	11.1437		11.1433	11.1433	1,166.4127	495.4157	1,661.8284	1.0825	0.0918	1,713.0031
Energy	0.0221	0.1891	0.0805	1.2100e-003		0.0153	0.0153		0.0153	0.0153		241.3907	241.3907	4.6300e-003	4.4300e-003	242.8598
Mobile	1.5204	2.7666	14.0717	0.0367	2.5613	0.0394	2.6006	0.6836	0.0363	0.7198		2,870.5398	2,870.5398	0.1093		2,872.8344
Total	68.1916	3.8681	96.8163	0.0690	2.5613	11.1983	13.7596	0.6836	11.1949	11.8785	1,166.4127	3,607.3461	4,773.7588	1.1964	0.0962	4,828.6973

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2017	1/27/2017	5	20	
2	Site Preparation	Site Preparation	1/28/2017	2/10/2017	5	10	
3	Grading	Grading	2/11/2017	3/10/2017	5	20	
4	Building Construction	Building Construction	3/11/2017	1/26/2018	5	230	
5	Paving	Paving	1/27/2018	2/23/2018	5	20	
6	Architectural Coating	Architectural Coating	2/24/2018	4/5/2018	5	30	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 0

Residential Indoor: 153,090; Residential Outdoor: 51,030; 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
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	3	8.00	162	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	1	8.00	162	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
Paving	Pavers	2	8.00	125	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	174	0.41
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Paving Equipment	2	8.00	130	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	20.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	15.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	3.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 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					
Fugitive Dust					0.2250	0.0000	0.2250	0.0341	0.0000	0.0341			0.0000			0.0000
Off-Road	4.0482	42.6971	33.8934	0.0399		2.1252	2.1252		1.9797	1.9797		4,036.4674	4,036.4674	1.1073		4,059.7211
Total	4.0482	42.6971	33.8934	0.0399	0.2250	2.1252	2.3502	0.0341	1.9797	2.0138		4,036.4674	4,036.4674	1.1073		4,059.7211

3.2 Demolition - 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	0.0278	0.2261	0.6530	5.7000e-004	0.0166	2.3100e-003	0.0189	4.4900e-003	2.1200e-003	6.6100e-003		55.7712	55.7712	3.4000e-004		55.7783
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	0.0590	0.0546	0.7046	1.5700e-003	0.1232	9.4000e-004	0.1242	0.0327	8.7000e-004	0.0336		124.2966	124.2966	5.8600e-003		124.4196
Total	0.0868	0.2806	1.3576	2.1400e-003	0.1398	3.2500e-003	0.1430	0.0372	2.9900e-003	0.0402		180.0678	180.0678	6.2000e-003		180.1978

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					0.2250	0.0000	0.2250	0.0341	0.0000	0.0341			0.0000			0.0000
Off-Road	4.0482	42.6971	33.8934	0.0399		2.1252	2.1252		1.9797	1.9797	0.0000	4,036.4674	4,036.4674	1.1073		4,059.7211
Total	4.0482	42.6971	33.8934	0.0399	0.2250	2.1252	2.3502	0.0341	1.9797	2.0138	0.0000	4,036.4674	4,036.4674	1.1073		4,059.7211

3.2 Demolition - 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	0.0278	0.2261	0.6530	5.7000e-004	0.0166	2.3100e-003	0.0189	4.4900e-003	2.1200e-003	6.6100e-003		55.7712	55.7712	3.4000e-004			55.7783
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	0.0590	0.0546	0.7046	1.5700e-003	0.1232	9.4000e-004	0.1242	0.0327	8.7000e-004	0.0336		124.2966	124.2966	5.8600e-003			124.4196
Total	0.0868	0.2806	1.3576	2.1400e-003	0.1398	3.2500e-003	0.1430	0.0372	2.9900e-003	0.0402		180.0678	180.0678	6.2000e-003			180.1978

3.3 Site Preparation - 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						
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000				0.0000
Off-Road	4.8382	51.7535	39.3970	0.0391		2.7542	2.7542		2.5339	2.5339		4,003.0859	4,003.0859	1.2265			4,028.8432
Total	4.8382	51.7535	39.3970	0.0391	18.0663	2.7542	20.8205	9.9307	2.5339	12.4646		4,003.0859	4,003.0859	1.2265			4,028.8432

3.3 Site Preparation - 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	0.0708	0.0655	0.8456	1.8900e-003	0.1479	1.1300e-003	0.1490	0.0392	1.0400e-003	0.0403		149.1559	149.1559	7.0300e-003			149.3035
Total	0.0708	0.0655	0.8456	1.8900e-003	0.1479	1.1300e-003	0.1490	0.0392	1.0400e-003	0.0403		149.1559	149.1559	7.0300e-003			149.3035

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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000	
Off-Road	4.8382	51.7535	39.3970	0.0391		2.7542	2.7542		2.5339	2.5339	0.0000	4,003.0859	4,003.0859	1.2265			4,028.8432
Total	4.8382	51.7535	39.3970	0.0391	18.0663	2.7542	20.8205	9.9307	2.5339	12.4646	0.0000	4,003.0859	4,003.0859	1.2265			4,028.8432

3.3 Site Preparation - 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	0.0708	0.0655	0.8456	1.8900e-003	0.1479	1.1300e-003	0.1490	0.0392	1.0400e-003	0.0403		149.1559	149.1559	7.0300e-003		149.3035
Total	0.0708	0.0655	0.8456	1.8900e-003	0.1479	1.1300e-003	0.1490	0.0392	1.0400e-003	0.0403		149.1559	149.1559	7.0300e-003		149.3035

3.4 Grading - 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					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	3.4555	35.9825	25.3812	0.0297		2.0388	2.0388		1.8757	1.8757		3,043.6667	3,043.6667	0.9326		3,063.2507
Total	3.4555	35.9825	25.3812	0.0297	6.5523	2.0388	8.5912	3.3675	1.8757	5.2432		3,043.6667	3,043.6667	0.9326		3,063.2507

3.4 Grading - 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	0.0590	0.0546	0.7046	1.5700e-003	0.1232	9.4000e-004	0.1242	0.0327	8.7000e-004	0.0336		124.2966	124.2966	5.8600e-003			124.4196
Total	0.0590	0.0546	0.7046	1.5700e-003	0.1232	9.4000e-004	0.1242	0.0327	8.7000e-004	0.0336		124.2966	124.2966	5.8600e-003			124.4196

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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	3.4555	35.9825	25.3812	0.0297		2.0388	2.0388		1.8757	1.8757	0.0000	3,043.6667	3,043.6667	0.9326		3,063.2507
Total	3.4555	35.9825	25.3812	0.0297	6.5523	2.0388	8.5912	3.3675	1.8757	5.2432	0.0000	3,043.6667	3,043.6667	0.9326		3,063.2507

3.4 Grading - 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	0.0590	0.0546	0.7046	1.5700e-003	0.1232	9.4000e-004	0.1242	0.0327	8.7000e-004	0.0336		124.2966	124.2966	5.8600e-003			124.4196
Total	0.0590	0.0546	0.7046	1.5700e-003	0.1232	9.4000e-004	0.1242	0.0327	8.7000e-004	0.0336		124.2966	124.2966	5.8600e-003			124.4196

3.5 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	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497			2,653.4490
Total	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497			2,653.4490

3.5 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	0.0488	0.3338	0.7570	8.2000e-004	0.0259	4.7800e-003	0.0307	7.3600e-003	4.4000e-003	0.0118		80.3204	80.3204	6.2000e-004		80.3333
Worker	0.0590	0.0546	0.7046	1.5700e-003	0.1232	9.4000e-004	0.1242	0.0327	8.7000e-004	0.0336		124.2966	124.2966	5.8600e-003		124.4196
Total	0.1078	0.3883	1.4616	2.3900e-003	0.1491	5.7200e-003	0.1549	0.0400	5.2700e-003	0.0453		204.6170	204.6170	6.4800e-003		204.7529

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	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730	0.0000	2,639.8053	2,639.8053	0.6497		2,653.4490
Total	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730	0.0000	2,639.8053	2,639.8053	0.6497		2,653.4490

3.5 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	0.0488	0.3338	0.7570	8.2000e-004	0.0259	4.7800e-003	0.0307	7.3600e-003	4.4000e-003	0.0118		80.3204	80.3204	6.2000e-004			80.3333
Worker	0.0590	0.0546	0.7046	1.5700e-003	0.1232	9.4000e-004	0.1242	0.0327	8.7000e-004	0.0336		124.2966	124.2966	5.8600e-003			124.4196
Total	0.1078	0.3883	1.4616	2.3900e-003	0.1491	5.7200e-003	0.1549	0.0400	5.2700e-003	0.0453		204.6170	204.6170	6.4800e-003			204.7529

3.5 Building Construction - 2018

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	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048		2,609.9390	2,609.9390	0.6387			2,623.3517
Total	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048		2,609.9390	2,609.9390	0.6387			2,623.3517

3.5 Building Construction - 2018

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	0.0430	0.3111	0.6928	8.3000e-004	0.0259	4.0900e-003	0.0300	7.3700e-003	3.7600e-003	0.0111		79.4530	79.4530	5.8000e-004			79.4651
Worker	0.0519	0.0487	0.6261	1.5700e-003	0.1232	9.1000e-004	0.1241	0.0327	8.4000e-004	0.0335		119.6030	119.6030	5.3500e-003			119.7152
Total	0.0949	0.3598	1.3188	2.4000e-003	0.1492	5.0000e-003	0.1542	0.0401	4.6000e-003	0.0447		199.0560	199.0560	5.9300e-003			199.1804

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	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048	0.0000	2,609.9389	2,609.9389	0.6387			2,623.3517
Total	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048	0.0000	2,609.9389	2,609.9389	0.6387			2,623.3517

3.5 Building Construction - 2018

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	0.0430	0.3111	0.6928	8.3000e-004	0.0259	4.0900e-003	0.0300	7.3700e-003	3.7600e-003	0.0111		79.4530	79.4530	5.8000e-004			79.4651
Worker	0.0519	0.0487	0.6261	1.5700e-003	0.1232	9.1000e-004	0.1241	0.0327	8.4000e-004	0.0335		119.6030	119.6030	5.3500e-003			119.7152
Total	0.0949	0.3598	1.3188	2.4000e-003	0.1492	5.0000e-003	0.1542	0.0401	4.6000e-003	0.0447		199.0560	199.0560	5.9300e-003			199.1804

3.6 Paving - 2018

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	1.6114	17.1628	14.4944	0.0223		0.9386	0.9386		0.8635	0.8635		2,245.2695	2,245.2695	0.6990			2,259.9481
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.6114	17.1628	14.4944	0.0223		0.9386	0.9386		0.8635	0.8635		2,245.2695	2,245.2695	0.6990			2,259.9481

3.6 Paving - 2018

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	0.0519	0.0487	0.6261	1.5700e-003	0.1232	9.1000e-004	0.1241	0.0327	8.4000e-004	0.0335		119.6030	119.6030	5.3500e-003			119.7152
Total	0.0519	0.0487	0.6261	1.5700e-003	0.1232	9.1000e-004	0.1241	0.0327	8.4000e-004	0.0335		119.6030	119.6030	5.3500e-003			119.7152

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	1.6114	17.1628	14.4944	0.0223		0.9386	0.9386		0.8635	0.8635	0.0000	2,245.2695	2,245.2695	0.6990			2,259.9481
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.6114	17.1628	14.4944	0.0223		0.9386	0.9386		0.8635	0.8635	0.0000	2,245.2695	2,245.2695	0.6990			2,259.9481

3.6 Paving - 2018

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	0.0519	0.0487	0.6261	1.5700e-003	0.1232	9.1000e-004	0.1241	0.0327	8.4000e-004	0.0335		119.6030	119.6030	5.3500e-003			119.7152
Total	0.0519	0.0487	0.6261	1.5700e-003	0.1232	9.1000e-004	0.1241	0.0327	8.4000e-004	0.0335		119.6030	119.6030	5.3500e-003			119.7152

3.7 Architectural Coating - 2018

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	78.8414					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267			282.0102
Total	79.1400	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267			282.0102

3.7 Architectural Coating - 2018

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	0.0104	9.7300e-003	0.1252	3.1000e-004	0.0246	1.8000e-004	0.0248	6.5400e-003	1.7000e-004	6.7100e-003		23.9206	23.9206	1.0700e-003			23.9431
Total	0.0104	9.7300e-003	0.1252	3.1000e-004	0.0246	1.8000e-004	0.0248	6.5400e-003	1.7000e-004	6.7100e-003		23.9206	23.9206	1.0700e-003			23.9431

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	78.8414					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267			282.0102
Total	79.1400	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267			282.0102

3.7 Architectural Coating - 2018

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	0.0104	9.7300e-003	0.1252	3.1000e-004	0.0246	1.8000e-004	0.0248	6.5400e-003	1.7000e-004	6.7100e-003		23.9206	23.9206	1.0700e-003		23.9431
Total	0.0104	9.7300e-003	0.1252	3.1000e-004	0.0246	1.8000e-004	0.0248	6.5400e-003	1.7000e-004	6.7100e-003		23.9206	23.9206	1.0700e-003		23.9431

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	1.5204	2.7666	14.0717	0.0367	2.5613	0.0394	2.6006	0.6836	0.0363	0.7198		2,870.5398	2,870.5398	0.1093		2,872.8344
Unmitigated	1.5204	2.7666	14.0717	0.0367	2.5613	0.0394	2.6006	0.6836	0.0363	0.7198		2,870.5398	2,870.5398	0.1093		2,872.8344

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	401.94	423.36	368.34	1,146,390	1,146,390
Total	401.94	423.36	368.34	1,146,390	1,146,390

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	42.60	21.00	36.40	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.456583	0.078851	0.189597	0.160849	0.074758	0.010700	0.011077	0.000966	0.001372	0.000777	0.008826	0.000741	0.004904

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					
Natural Gas Mitigated	0.0221	0.1891	0.0805	1.2100e-003		0.0153	0.0153		0.0153	0.0153		241.3907	241.3907	4.6300e-003	4.4300e-003	242.8598
Natural Gas Unmitigated	0.0221	0.1891	0.0805	1.2100e-003		0.0153	0.0153		0.0153	0.0153		241.3907	241.3907	4.6300e-003	4.4300e-003	242.8598

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	2051.82	0.0221	0.1891	0.0805	1.2100e-003		0.0153	0.0153		0.0153	0.0153		241.3907	241.3907	4.6300e-003	4.4300e-003	242.8598
Total		0.0221	0.1891	0.0805	1.2100e-003		0.0153	0.0153		0.0153	0.0153		241.3907	241.3907	4.6300e-003	4.4300e-003	242.8598

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	2.05182	0.0221	0.1891	0.0805	1.2100e-003		0.0153	0.0153		0.0153	0.0153		241.3907	241.3907	4.6300e-003	4.4300e-003	242.8598
Total		0.0221	0.1891	0.0805	1.2100e-003		0.0153	0.0153		0.0153	0.0153		241.3907	241.3907	4.6300e-003	4.4300e-003	242.8598

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	66.6490	0.9124	82.6641	0.0311		11.1437	11.1437		11.1433	11.1433	1,166.4127	495.4157	1,661.8284	1.0825	0.0918	1,713.0031
Unmitigated	66.6490	0.9124	82.6641	0.0311		11.1437	11.1437		11.1433	11.1433	1,166.4127	495.4157	1,661.8284	1.0825	0.0918	1,713.0031

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	0.6480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.6178					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	64.2766	0.8721	79.1819	0.0309		11.1246	11.1246		11.1242	11.1242	1,166.4127	489.1765	1,655.5892	1.0764	0.0918	1,706.6353
Landscaping	0.1066	0.0403	3.4822	1.8000e-004		0.0191	0.0191		0.0191	0.0191		6.2392	6.2392	6.1200e-003		6.3678
Total	66.6490	0.9124	82.6641	0.0311		11.1437	11.1437		11.1433	11.1433	1,166.4127	495.4157	1,661.8284	1.0825	0.0918	1,713.0031

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					
Consumer Products	1.6178					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	64.2766	0.8721	79.1819	0.0309		11.1246	11.1246		11.1242	11.1242	1,166.4127	489.1765	1,655.5892	1.0764	0.0918	1,706.6353
Landscaping	0.1066	0.0403	3.4822	1.8000e-004		0.0191	0.0191		0.0191	0.0191		6.2392	6.2392	6.1200e-003		6.3678
Architectural Coating	0.6480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	66.6490	0.9124	82.6641	0.0311		11.1437	11.1437		11.1433	11.1433	1,166.4127	495.4157	1,661.8284	1.0825	0.0918	1,713.0031

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

Cameron Park Single Family Residential
El Dorado-Mountain County County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	42.00	Dwelling Unit	5.60	75,600.00	120

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	70
Climate Zone	1			Operational Year	2019
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	307	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - PG&E, November 2015
 Land Use - 42 SF units on a 5.6-acre site
 Demolition -
 Energy Use - PG&E, November 2015
 Area Mitigation -
 Construction Phase - Increase Coating phase from 20 to 30 days

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	PhaseEndDate	4/6/2018	4/5/2018
tblLandUse	LotAcreage	13.64	5.60
tblProjectCharacteristics	CO2IntensityFactor	641.35	307
tblProjectCharacteristics	OperationalYear	2014	2019

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					
2017	4.9021	51.8346	40.1844	0.0419	18.2141	2.7554	20.9695	9.9699	2.5349	12.5048	0.0000	4,202.8634	4,202.8634	1.2336	0.0000	4,228.7682
2018	79.1492	23.6577	19.1267	0.0290	0.1492	1.4993	1.6485	0.0401	1.4094	1.4495	0.0000	2,795.2806	2,795.2806	0.7043	0.0000	2,810.0715
Total	84.0513	75.4923	59.3110	0.0709	18.3633	4.2547	22.6180	10.0100	3.9444	13.9543	0.0000	6,998.1439	6,998.1439	1.9379	0.0000	7,038.8397

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					
2017	4.9021	51.8346	40.1844	0.0419	18.2141	2.7554	20.9695	9.9699	2.5349	12.5048	0.0000	4,202.8634	4,202.8634	1.2336	0.0000	4,228.7682
2018	79.1492	23.6577	19.1267	0.0290	0.1492	1.4993	1.6485	0.0401	1.4094	1.4495	0.0000	2,795.2806	2,795.2806	0.7043	0.0000	2,810.0715
Total	84.0513	75.4923	59.3110	0.0709	18.3633	4.2547	22.6180	10.0100	3.9444	13.9543	0.0000	6,998.1439	6,998.1439	1.9379	0.0000	7,038.8397

	ROG	NOx	CO	SO2	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

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	66.6490	0.9124	82.6641	0.0311		11.1437	11.1437		11.1433	11.1433	1,166.4127	495.4157	1,661.8284	1.0825	0.0918	1,713.0031
Energy	0.0221	0.1891	0.0805	1.2100e-003		0.0153	0.0153		0.0153	0.0153		241.3907	241.3907	4.6300e-003	4.4300e-003	242.8598
Mobile	1.4138	3.1355	14.1406	0.0334	2.5613	0.0394	2.6007	0.6836	0.0364	0.7199		2,620.1869	2,620.1869	0.1093		2,622.4819
Total	68.0850	4.2370	96.8851	0.0657	2.5613	11.1984	13.7597	0.6836	11.1950	11.8785	1,166.4127	3,356.9933	4,523.4059	1.1965	0.0962	4,578.3448

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	66.6490	0.9124	82.6641	0.0311		11.1437	11.1437		11.1433	11.1433	1,166.4127	495.4157	1,661.8284	1.0825	0.0918	1,713.0031
Energy	0.0221	0.1891	0.0805	1.2100e-003		0.0153	0.0153		0.0153	0.0153		241.3907	241.3907	4.6300e-003	4.4300e-003	242.8598
Mobile	1.4138	3.1355	14.1406	0.0334	2.5613	0.0394	2.6007	0.6836	0.0364	0.7199		2,620.1869	2,620.1869	0.1093		2,622.4819
Total	68.0850	4.2370	96.8851	0.0657	2.5613	11.1984	13.7597	0.6836	11.1950	11.8785	1,166.4127	3,356.9933	4,523.4059	1.1965	0.0962	4,578.3448

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2017	1/27/2017	5	20	
2	Site Preparation	Site Preparation	1/28/2017	2/10/2017	5	10	
3	Grading	Grading	2/11/2017	3/10/2017	5	20	
4	Building Construction	Building Construction	3/11/2017	1/26/2018	5	230	
5	Paving	Paving	1/27/2018	2/23/2018	5	20	
6	Architectural Coating	Architectural Coating	2/24/2018	4/5/2018	5	30	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 0

Residential Indoor: 153,090; Residential Outdoor: 51,030; 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
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	3	8.00	162	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	1	8.00	162	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
Paving	Pavers	2	8.00	125	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	174	0.41
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Paving Equipment	2	8.00	130	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	20.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	15.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	3.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 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					
Fugitive Dust					0.2250	0.0000	0.2250	0.0341	0.0000	0.0341			0.0000			0.0000
Off-Road	4.0482	42.6971	33.8934	0.0399		2.1252	2.1252		1.9797	1.9797		4,036.4674	4,036.4674	1.1073		4,059.7211
Total	4.0482	42.6971	33.8934	0.0399	0.2250	2.1252	2.3502	0.0341	1.9797	2.0138		4,036.4674	4,036.4674	1.1073		4,059.7211

3.2 Demolition - 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	0.0315	0.2532	0.7676	5.7000e-004	0.0166	2.3200e-003	0.0189	4.4900e-003	2.1300e-003	6.6200e-003		55.5974	55.5974	3.5000e-004			55.6046
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0533	0.0676	0.6561	1.4000e-003	0.1232	9.4000e-004	0.1242	0.0327	8.7000e-004	0.0336		110.7987	110.7987	5.8600e-003			110.9216
Total	0.0847	0.3209	1.4237	1.9700e-003	0.1398	3.2600e-003	0.1431	0.0372	3.0000e-003	0.0402		166.3960	166.3960	6.2100e-003			166.5262

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					0.2250	0.0000	0.2250	0.0341	0.0000	0.0341			0.0000			0.0000
Off-Road	4.0482	42.6971	33.8934	0.0399		2.1252	2.1252		1.9797	1.9797	0.0000	4,036.4674	4,036.4674	1.1073		4,059.7211
Total	4.0482	42.6971	33.8934	0.0399	0.2250	2.1252	2.3502	0.0341	1.9797	2.0138	0.0000	4,036.4674	4,036.4674	1.1073		4,059.7211

3.2 Demolition - 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	0.0315	0.2532	0.7676	5.7000e-004	0.0166	2.3200e-003	0.0189	4.4900e-003	2.1300e-003	6.6200e-003		55.5974	55.5974	3.5000e-004			55.6046
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0533	0.0676	0.6561	1.4000e-003	0.1232	9.4000e-004	0.1242	0.0327	8.7000e-004	0.0336		110.7987	110.7987	5.8600e-003			110.9216
Total	0.0847	0.3209	1.4237	1.9700e-003	0.1398	3.2600e-003	0.1431	0.0372	3.0000e-003	0.0402		166.3960	166.3960	6.2100e-003			166.5262

3.3 Site Preparation - 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						
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000				0.0000
Off-Road	4.8382	51.7535	39.3970	0.0391		2.7542	2.7542		2.5339	2.5339		4,003.0859	4,003.0859	1.2265			4,028.8432
Total	4.8382	51.7535	39.3970	0.0391	18.0663	2.7542	20.8205	9.9307	2.5339	12.4646		4,003.0859	4,003.0859	1.2265			4,028.8432

3.3 Site Preparation - 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	0.0639	0.0812	0.7873	1.6800e-003	0.1479	1.1300e-003	0.1490	0.0392	1.0400e-003	0.0403		132.9584	132.9584	7.0300e-003			133.1059
Total	0.0639	0.0812	0.7873	1.6800e-003	0.1479	1.1300e-003	0.1490	0.0392	1.0400e-003	0.0403		132.9584	132.9584	7.0300e-003			133.1059

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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000	
Off-Road	4.8382	51.7535	39.3970	0.0391		2.7542	2.7542		2.5339	2.5339	0.0000	4,003.0859	4,003.0859	1.2265			4,028.8432
Total	4.8382	51.7535	39.3970	0.0391	18.0663	2.7542	20.8205	9.9307	2.5339	12.4646	0.0000	4,003.0859	4,003.0859	1.2265			4,028.8432

3.3 Site Preparation - 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	0.0639	0.0812	0.7873	1.6800e-003	0.1479	1.1300e-003	0.1490	0.0392	1.0400e-003	0.0403		132.9584	132.9584	7.0300e-003			133.1059
Total	0.0639	0.0812	0.7873	1.6800e-003	0.1479	1.1300e-003	0.1490	0.0392	1.0400e-003	0.0403		132.9584	132.9584	7.0300e-003			133.1059

3.4 Grading - 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						
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000				0.0000
Off-Road	3.4555	35.9825	25.3812	0.0297		2.0388	2.0388		1.8757	1.8757		3,043.6667	3,043.6667	0.9326			3,063.2507
Total	3.4555	35.9825	25.3812	0.0297	6.5523	2.0388	8.5912	3.3675	1.8757	5.2432		3,043.6667	3,043.6667	0.9326			3,063.2507

3.4 Grading - 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	0.0533	0.0676	0.6561	1.4000e-003	0.1232	9.4000e-004	0.1242	0.0327	8.7000e-004	0.0336		110.7987	110.7987	5.8600e-003			110.9216
Total	0.0533	0.0676	0.6561	1.4000e-003	0.1232	9.4000e-004	0.1242	0.0327	8.7000e-004	0.0336		110.7987	110.7987	5.8600e-003			110.9216

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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	3.4555	35.9825	25.3812	0.0297		2.0388	2.0388		1.8757	1.8757	0.0000	3,043.6667	3,043.6667	0.9326		3,063.2507
Total	3.4555	35.9825	25.3812	0.0297	6.5523	2.0388	8.5912	3.3675	1.8757	5.2432	0.0000	3,043.6667	3,043.6667	0.9326		3,063.2507

3.4 Grading - 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	0.0533	0.0676	0.6561	1.4000e-003	0.1232	9.4000e-004	0.1242	0.0327	8.7000e-004	0.0336		110.7987	110.7987	5.8600e-003			110.9216
Total	0.0533	0.0676	0.6561	1.4000e-003	0.1232	9.4000e-004	0.1242	0.0327	8.7000e-004	0.0336		110.7987	110.7987	5.8600e-003			110.9216

3.5 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	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497			2,653.4490
Total	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497			2,653.4490

3.5 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	0.0610	0.3613	1.0906	8.2000e-004	0.0259	4.8700e-003	0.0308	7.3600e-003	4.4800e-003	0.0118		79.6041	79.6041	6.4000e-004			79.6175
Worker	0.0533	0.0676	0.6561	1.4000e-003	0.1232	9.4000e-004	0.1242	0.0327	8.7000e-004	0.0336		110.7987	110.7987	5.8600e-003			110.9216
Total	0.1143	0.4290	1.7467	2.2200e-003	0.1491	5.8100e-003	0.1550	0.0400	5.3500e-003	0.0454		190.4028	190.4028	6.5000e-003			190.5392

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	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730	0.0000	2,639.8053	2,639.8053	0.6497			2,653.4490
Total	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730	0.0000	2,639.8053	2,639.8053	0.6497			2,653.4490

3.5 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	0.0610	0.3613	1.0906	8.2000e-004	0.0259	4.8700e-003	0.0308	7.3600e-003	4.4800e-003	0.0118		79.6041	79.6041	6.4000e-004			79.6175
Worker	0.0533	0.0676	0.6561	1.4000e-003	0.1232	9.4000e-004	0.1242	0.0327	8.7000e-004	0.0336		110.7987	110.7987	5.8600e-003			110.9216
Total	0.1143	0.4290	1.7467	2.2200e-003	0.1491	5.8100e-003	0.1550	0.0400	5.3500e-003	0.0454		190.4028	190.4028	6.5000e-003			190.5392

3.5 Building Construction - 2018

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	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048		2,609.9390	2,609.9390	0.6387			2,623.3517
Total	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048		2,609.9390	2,609.9390	0.6387			2,623.3517

3.5 Building Construction - 2018

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	0.0533	0.3366	1.0177	8.2000e-004	0.0259	4.1500e-003	0.0301	7.3700e-003	3.8200e-003	0.0112		78.7466	78.7466	6.0000e-004			78.7592
Worker	0.0462	0.0603	0.5763	1.4000e-003	0.1232	9.1000e-004	0.1241	0.0327	8.4000e-004	0.0335		106.5950	106.5950	5.3500e-003			106.7073
Total	0.0995	0.3969	1.5940	2.2200e-003	0.1492	5.0600e-003	0.1542	0.0401	4.6600e-003	0.0447		185.3416	185.3416	5.9500e-003			185.4664

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	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048	0.0000	2,609.9389	2,609.9389	0.6387			2,623.3517
Total	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048	0.0000	2,609.9389	2,609.9389	0.6387			2,623.3517

3.5 Building Construction - 2018

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	0.0533	0.3366	1.0177	8.2000e-004	0.0259	4.1500e-003	0.0301	7.3700e-003	3.8200e-003	0.0112		78.7466	78.7466	6.0000e-004			78.7592
Worker	0.0462	0.0603	0.5763	1.4000e-003	0.1232	9.1000e-004	0.1241	0.0327	8.4000e-004	0.0335		106.5950	106.5950	5.3500e-003			106.7073
Total	0.0995	0.3969	1.5940	2.2200e-003	0.1492	5.0600e-003	0.1542	0.0401	4.6600e-003	0.0447		185.3416	185.3416	5.9500e-003			185.4664

3.6 Paving - 2018

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	1.6114	17.1628	14.4944	0.0223		0.9386	0.9386		0.8635	0.8635		2,245.2695	2,245.2695	0.6990			2,259.9481
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.6114	17.1628	14.4944	0.0223		0.9386	0.9386		0.8635	0.8635		2,245.2695	2,245.2695	0.6990			2,259.9481

3.6 Paving - 2018

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	0.0462	0.0603	0.5763	1.4000e-003	0.1232	9.1000e-004	0.1241	0.0327	8.4000e-004	0.0335		106.5950	106.5950	5.3500e-003			106.7073
Total	0.0462	0.0603	0.5763	1.4000e-003	0.1232	9.1000e-004	0.1241	0.0327	8.4000e-004	0.0335		106.5950	106.5950	5.3500e-003			106.7073

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	1.6114	17.1628	14.4944	0.0223		0.9386	0.9386		0.8635	0.8635	0.0000	2,245.2695	2,245.2695	0.6990		2,259.9481
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.6114	17.1628	14.4944	0.0223		0.9386	0.9386		0.8635	0.8635	0.0000	2,245.2695	2,245.2695	0.6990		2,259.9481

3.6 Paving - 2018

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	0.0462	0.0603	0.5763	1.4000e-003	0.1232	9.1000e-004	0.1241	0.0327	8.4000e-004	0.0335		106.5950	106.5950	5.3500e-003			106.7073
Total	0.0462	0.0603	0.5763	1.4000e-003	0.1232	9.1000e-004	0.1241	0.0327	8.4000e-004	0.0335		106.5950	106.5950	5.3500e-003			106.7073

3.7 Architectural Coating - 2018

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	78.8414					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267			282.0102
Total	79.1400	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267			282.0102

3.7 Architectural Coating - 2018

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	9.2400e-003	0.0121	0.1153	2.8000e-004	0.0246	1.8000e-004	0.0248	6.5400e-003	1.7000e-004	6.7100e-003		21.3190	21.3190	1.0700e-003			21.3415
Total	9.2400e-003	0.0121	0.1153	2.8000e-004	0.0246	1.8000e-004	0.0248	6.5400e-003	1.7000e-004	6.7100e-003		21.3190	21.3190	1.0700e-003			21.3415

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	78.8414					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267			282.0102
Total	79.1400	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267			282.0102

3.7 Architectural Coating - 2018

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	9.2400e-003	0.0121	0.1153	2.8000e-004	0.0246	1.8000e-004	0.0248	6.5400e-003	1.7000e-004	6.7100e-003		21.3190	21.3190	1.0700e-003			21.3415
Total	9.2400e-003	0.0121	0.1153	2.8000e-004	0.0246	1.8000e-004	0.0248	6.5400e-003	1.7000e-004	6.7100e-003		21.3190	21.3190	1.0700e-003			21.3415

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	1.4138	3.1355	14.1406	0.0334	2.5613	0.0394	2.6007	0.6836	0.0364	0.7199		2,620.1869	2,620.1869	0.1093		2,622.4819
Unmitigated	1.4138	3.1355	14.1406	0.0334	2.5613	0.0394	2.6007	0.6836	0.0364	0.7199		2,620.1869	2,620.1869	0.1093		2,622.4819

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	401.94	423.36	368.34	1,146,390	1,146,390
Total	401.94	423.36	368.34	1,146,390	1,146,390

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	42.60	21.00	36.40	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.456583	0.078851	0.189597	0.160849	0.074758	0.010700	0.011077	0.000966	0.001372	0.000777	0.008826	0.000741	0.004904

5.0 Energy Detail

5.1 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	0.0221	0.1891	0.0805	1.2100e-003		0.0153	0.0153		0.0153	0.0153		241.3907	241.3907	4.6300e-003	4.4300e-003	242.8598
NaturalGas Unmitigated	0.0221	0.1891	0.0805	1.2100e-003		0.0153	0.0153		0.0153	0.0153		241.3907	241.3907	4.6300e-003	4.4300e-003	242.8598

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	2051.82	0.0221	0.1891	0.0805	1.2100e-003		0.0153	0.0153		0.0153	0.0153		241.3907	241.3907	4.6300e-003	4.4300e-003	242.8598
Total		0.0221	0.1891	0.0805	1.2100e-003		0.0153	0.0153		0.0153	0.0153		241.3907	241.3907	4.6300e-003	4.4300e-003	242.8598

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	2.05182	0.0221	0.1891	0.0805	1.2100e-003		0.0153	0.0153		0.0153	0.0153		241.3907	241.3907	4.6300e-003	4.4300e-003	242.8598
Total		0.0221	0.1891	0.0805	1.2100e-003		0.0153	0.0153		0.0153	0.0153		241.3907	241.3907	4.6300e-003	4.4300e-003	242.8598

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	66.6490	0.9124	82.6641	0.0311		11.1437	11.1437		11.1433	11.1433	1,166.4127	495.4157	1,661.8284	1.0825	0.0918	1,713.0031
Unmitigated	66.6490	0.9124	82.6641	0.0311		11.1437	11.1437		11.1433	11.1433	1,166.4127	495.4157	1,661.8284	1.0825	0.0918	1,713.0031

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	0.6480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.6178					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	64.2766	0.8721	79.1819	0.0309		11.1246	11.1246		11.1242	11.1242	1,166.4127	489.1765	1,655.5892	1.0764	0.0918	1,706.6353
Landscaping	0.1066	0.0403	3.4822	1.8000e-004		0.0191	0.0191		0.0191	0.0191		6.2392	6.2392	6.1200e-003		6.3678
Total	66.6490	0.9124	82.6641	0.0311		11.1437	11.1437		11.1433	11.1433	1,166.4127	495.4157	1,661.8284	1.0825	0.0918	1,713.0031

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					
Consumer Products	1.6178					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	64.2766	0.8721	79.1819	0.0309		11.1246	11.1246		11.1242	11.1242	1,166.4127	489.1765	1,655.5892	1.0764	0.0918	1,706.6353
Landscaping	0.1066	0.0403	3.4822	1.8000e-004		0.0191	0.0191		0.0191	0.0191		6.2392	6.2392	6.1200e-003		6.3678
Architectural Coating	0.6480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	66.6490	0.9124	82.6641	0.0311		11.1437	11.1437		11.1433	11.1433	1,166.4127	495.4157	1,661.8284	1.0825	0.0918	1,713.0031

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

Cameron Park Single Family Residential
El Dorado-Mountain County County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	42.00	Dwelling Unit	5.60	75,600.00	120

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	70
Climate Zone	1			Operational Year	2019
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	307	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - PG&E, November 2015

Land Use - 42 SF units on a 5.6-acre site

Construction Phase -

Demolition -

Energy Use - PG&E, November 2015

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblLandUse	LotAcreage	13.64	5.60
tblProjectCharacteristics	CO2IntensityFactor	641.35	307
tblProjectCharacteristics	OperationalYear	2014	2019

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					
2017	4.9021	51.8346	40.1844	0.0419	18.2141	2.7554	20.9695	9.9699	2.5349	12.5048	0.0000	4,202.8634	4,202.8634	1.2336	0.0000	4,228.7682
2018	118.5699	23.6577	19.1267	0.0290	0.1492	1.4993	1.6485	0.0401	1.4094	1.4495	0.0000	2,795.2806	2,795.2806	0.7043	0.0000	2,810.0715
Total	123.4720	75.4923	59.3110	0.0709	18.3633	4.2547	22.6180	10.0100	3.9444	13.9543	0.0000	6,998.1439	6,998.1439	1.9379	0.0000	7,038.8397

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					
2017	4.9021	51.8346	40.1844	0.0419	18.2141	2.7554	20.9695	9.9699	2.5349	12.5048	0.0000	4,202.8634	4,202.8634	1.2336	0.0000	4,228.7682
2018	118.5699	23.6577	19.1267	0.0290	0.1492	1.4993	1.6485	0.0401	1.4094	1.4495	0.0000	2,795.2806	2,795.2806	0.7043	0.0000	2,810.0715
Total	123.4720	75.4923	59.3110	0.0709	18.3633	4.2547	22.6180	10.0100	3.9444	13.9543	0.0000	6,998.1439	6,998.1439	1.9379	0.0000	7,038.8397

	ROG	NOx	CO	SO2	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

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	66.6490	0.9124	82.6641	0.0311		11.1437	11.1437		11.1433	11.1433	1,166.4127	495.4157	1,661.8284	1.0825	0.0918	1,713.0031
Energy	0.0221	0.1891	0.0805	1.2100e-003		0.0153	0.0153		0.0153	0.0153		241.3907	241.3907	4.6300e-003	4.4300e-003	242.8598
Mobile	1.4138	3.1355	14.1406	0.0334	2.5613	0.0394	2.6007	0.6836	0.0364	0.7199		2,620.1869	2,620.1869	0.1093		2,622.4819
Total	68.0850	4.2370	96.8851	0.0657	2.5613	11.1984	13.7597	0.6836	11.1950	11.8785	1,166.4127	3,356.9933	4,523.4059	1.1965	0.0962	4,578.3448

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	66.6490	0.9124	82.6641	0.0311		11.1437	11.1437		11.1433	11.1433	1,166.4127	495.4157	1,661.8284	1.0825	0.0918	1,713.0031
Energy	0.0221	0.1891	0.0805	1.2100e-003		0.0153	0.0153		0.0153	0.0153		241.3907	241.3907	4.6300e-003	4.4300e-003	242.8598
Mobile	1.4138	3.1355	14.1406	0.0334	2.5613	0.0394	2.6007	0.6836	0.0364	0.7199		2,620.1869	2,620.1869	0.1093		2,622.4819
Total	68.0850	4.2370	96.8851	0.0657	2.5613	11.1984	13.7597	0.6836	11.1950	11.8785	1,166.4127	3,356.9933	4,523.4059	1.1965	0.0962	4,578.3448

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2017	1/27/2017	5	20	
2	Site Preparation	Site Preparation	1/28/2017	2/10/2017	5	10	
3	Grading	Grading	2/11/2017	3/10/2017	5	20	
4	Building Construction	Building Construction	3/11/2017	1/26/2018	5	230	
5	Paving	Paving	1/27/2018	2/23/2018	5	20	
6	Architectural Coating	Architectural Coating	2/24/2018	3/23/2018	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 0

Residential Indoor: 153,090; Residential Outdoor: 51,030; 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
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
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
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	20.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	15.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	3.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 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					
Fugitive Dust					0.2250	0.0000	0.2250	0.0341	0.0000	0.0341			0.0000			0.0000
Off-Road	4.0482	42.6971	33.8934	0.0399		2.1252	2.1252		1.9797	1.9797		4,036.4674	4,036.4674	1.1073		4,059.7211
Total	4.0482	42.6971	33.8934	0.0399	0.2250	2.1252	2.3502	0.0341	1.9797	2.0138		4,036.4674	4,036.4674	1.1073		4,059.7211

3.2 Demolition - 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	0.0315	0.2532	0.7676	5.7000e-004	0.0166	2.3200e-003	0.0189	4.4900e-003	2.1300e-003	6.6200e-003		55.5974	55.5974	3.5000e-004			55.6046
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0533	0.0676	0.6561	1.4000e-003	0.1232	9.4000e-004	0.1242	0.0327	8.7000e-004	0.0336		110.7987	110.7987	5.8600e-003			110.9216
Total	0.0847	0.3209	1.4237	1.9700e-003	0.1398	3.2600e-003	0.1431	0.0372	3.0000e-003	0.0402		166.3960	166.3960	6.2100e-003			166.5262

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					0.2250	0.0000	0.2250	0.0341	0.0000	0.0341			0.0000			0.0000	
Off-Road	4.0482	42.6971	33.8934	0.0399		2.1252	2.1252		1.9797	1.9797	0.0000	4,036.4674	4,036.4674	1.1073			4,059.7211
Total	4.0482	42.6971	33.8934	0.0399	0.2250	2.1252	2.3502	0.0341	1.9797	2.0138	0.0000	4,036.4674	4,036.4674	1.1073			4,059.7211

3.2 Demolition - 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	0.0315	0.2532	0.7676	5.7000e-004	0.0166	2.3200e-003	0.0189	4.4900e-003	2.1300e-003	6.6200e-003		55.5974	55.5974	3.5000e-004			55.6046
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0533	0.0676	0.6561	1.4000e-003	0.1232	9.4000e-004	0.1242	0.0327	8.7000e-004	0.0336		110.7987	110.7987	5.8600e-003			110.9216
Total	0.0847	0.3209	1.4237	1.9700e-003	0.1398	3.2600e-003	0.1431	0.0372	3.0000e-003	0.0402		166.3960	166.3960	6.2100e-003			166.5262

3.3 Site Preparation - 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					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.8382	51.7535	39.3970	0.0391		2.7542	2.7542		2.5339	2.5339		4,003.0859	4,003.0859	1.2265		4,028.8432
Total	4.8382	51.7535	39.3970	0.0391	18.0663	2.7542	20.8205	9.9307	2.5339	12.4646		4,003.0859	4,003.0859	1.2265		4,028.8432

3.3 Site Preparation - 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	0.0639	0.0812	0.7873	1.6800e-003	0.1479	1.1300e-003	0.1490	0.0392	1.0400e-003	0.0403		132.9584	132.9584	7.0300e-003		133.1059
Total	0.0639	0.0812	0.7873	1.6800e-003	0.1479	1.1300e-003	0.1490	0.0392	1.0400e-003	0.0403		132.9584	132.9584	7.0300e-003		133.1059

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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.8382	51.7535	39.3970	0.0391		2.7542	2.7542		2.5339	2.5339	0.0000	4,003.0859	4,003.0859	1.2265		4,028.8432
Total	4.8382	51.7535	39.3970	0.0391	18.0663	2.7542	20.8205	9.9307	2.5339	12.4646	0.0000	4,003.0859	4,003.0859	1.2265		4,028.8432

3.3 Site Preparation - 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	0.0639	0.0812	0.7873	1.6800e-003	0.1479	1.1300e-003	0.1490	0.0392	1.0400e-003	0.0403		132.9584	132.9584	7.0300e-003			133.1059
Total	0.0639	0.0812	0.7873	1.6800e-003	0.1479	1.1300e-003	0.1490	0.0392	1.0400e-003	0.0403		132.9584	132.9584	7.0300e-003			133.1059

3.4 Grading - 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					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	3.4555	35.9825	25.3812	0.0297		2.0388	2.0388		1.8757	1.8757		3,043.6667	3,043.6667	0.9326		3,063.2507
Total	3.4555	35.9825	25.3812	0.0297	6.5523	2.0388	8.5912	3.3675	1.8757	5.2432		3,043.6667	3,043.6667	0.9326		3,063.2507

3.4 Grading - 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	0.0533	0.0676	0.6561	1.4000e-003	0.1232	9.4000e-004	0.1242	0.0327	8.7000e-004	0.0336		110.7987	110.7987	5.8600e-003			110.9216
Total	0.0533	0.0676	0.6561	1.4000e-003	0.1232	9.4000e-004	0.1242	0.0327	8.7000e-004	0.0336		110.7987	110.7987	5.8600e-003			110.9216

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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000				0.0000
Off-Road	3.4555	35.9825	25.3812	0.0297		2.0388	2.0388		1.8757	1.8757	0.0000	3,043.6667	3,043.6667	0.9326			3,063.2507
Total	3.4555	35.9825	25.3812	0.0297	6.5523	2.0388	8.5912	3.3675	1.8757	5.2432	0.0000	3,043.6667	3,043.6667	0.9326			3,063.2507

3.4 Grading - 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	0.0533	0.0676	0.6561	1.4000e-003	0.1232	9.4000e-004	0.1242	0.0327	8.7000e-004	0.0336		110.7987	110.7987	5.8600e-003			110.9216
Total	0.0533	0.0676	0.6561	1.4000e-003	0.1232	9.4000e-004	0.1242	0.0327	8.7000e-004	0.0336		110.7987	110.7987	5.8600e-003			110.9216

3.5 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	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497			2,653.4490
Total	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497			2,653.4490

3.5 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	0.0610	0.3613	1.0906	8.2000e-004	0.0259	4.8700e-003	0.0308	7.3600e-003	4.4800e-003	0.0118		79.6041	79.6041	6.4000e-004			79.6175
Worker	0.0533	0.0676	0.6561	1.4000e-003	0.1232	9.4000e-004	0.1242	0.0327	8.7000e-004	0.0336		110.7987	110.7987	5.8600e-003			110.9216
Total	0.1143	0.4290	1.7467	2.2200e-003	0.1491	5.8100e-003	0.1550	0.0400	5.3500e-003	0.0454		190.4028	190.4028	6.5000e-003			190.5392

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	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730	0.0000	2,639.8053	2,639.8053	0.6497			2,653.4490
Total	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730	0.0000	2,639.8053	2,639.8053	0.6497			2,653.4490

3.5 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	0.0610	0.3613	1.0906	8.2000e-004	0.0259	4.8700e-003	0.0308	7.3600e-003	4.4800e-003	0.0118		79.6041	79.6041	6.4000e-004			79.6175
Worker	0.0533	0.0676	0.6561	1.4000e-003	0.1232	9.4000e-004	0.1242	0.0327	8.7000e-004	0.0336		110.7987	110.7987	5.8600e-003			110.9216
Total	0.1143	0.4290	1.7467	2.2200e-003	0.1491	5.8100e-003	0.1550	0.0400	5.3500e-003	0.0454		190.4028	190.4028	6.5000e-003			190.5392

3.5 Building Construction - 2018

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	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048		2,609.9390	2,609.9390	0.6387			2,623.3517
Total	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048		2,609.9390	2,609.9390	0.6387			2,623.3517

3.5 Building Construction - 2018

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	0.0533	0.3366	1.0177	8.2000e-004	0.0259	4.1500e-003	0.0301	7.3700e-003	3.8200e-003	0.0112		78.7466	78.7466	6.0000e-004			78.7592
Worker	0.0462	0.0603	0.5763	1.4000e-003	0.1232	9.1000e-004	0.1241	0.0327	8.4000e-004	0.0335		106.5950	106.5950	5.3500e-003			106.7073
Total	0.0995	0.3969	1.5940	2.2200e-003	0.1492	5.0600e-003	0.1542	0.0401	4.6600e-003	0.0447		185.3416	185.3416	5.9500e-003			185.4664

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	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048	0.0000	2,609.9389	2,609.9389	0.6387			2,623.3517
Total	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048	0.0000	2,609.9389	2,609.9389	0.6387			2,623.3517

3.5 Building Construction - 2018

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	0.0533	0.3366	1.0177	8.2000e-004	0.0259	4.1500e-003	0.0301	7.3700e-003	3.8200e-003	0.0112		78.7466	78.7466	6.0000e-004			78.7592
Worker	0.0462	0.0603	0.5763	1.4000e-003	0.1232	9.1000e-004	0.1241	0.0327	8.4000e-004	0.0335		106.5950	106.5950	5.3500e-003			106.7073
Total	0.0995	0.3969	1.5940	2.2200e-003	0.1492	5.0600e-003	0.1542	0.0401	4.6600e-003	0.0447		185.3416	185.3416	5.9500e-003			185.4664

3.6 Paving - 2018

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	1.6114	17.1628	14.4944	0.0223		0.9386	0.9386		0.8635	0.8635		2,245.2695	2,245.2695	0.6990			2,259.9481
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.6114	17.1628	14.4944	0.0223		0.9386	0.9386		0.8635	0.8635		2,245.2695	2,245.2695	0.6990			2,259.9481

3.6 Paving - 2018

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	0.0462	0.0603	0.5763	1.4000e-003	0.1232	9.1000e-004	0.1241	0.0327	8.4000e-004	0.0335		106.5950	106.5950	5.3500e-003			106.7073
Total	0.0462	0.0603	0.5763	1.4000e-003	0.1232	9.1000e-004	0.1241	0.0327	8.4000e-004	0.0335		106.5950	106.5950	5.3500e-003			106.7073

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	1.6114	17.1628	14.4944	0.0223		0.9386	0.9386		0.8635	0.8635	0.0000	2,245.2695	2,245.2695	0.6990			2,259.9481
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.6114	17.1628	14.4944	0.0223		0.9386	0.9386		0.8635	0.8635	0.0000	2,245.2695	2,245.2695	0.6990			2,259.9481

3.6 Paving - 2018

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	0.0462	0.0603	0.5763	1.4000e-003	0.1232	9.1000e-004	0.1241	0.0327	8.4000e-004	0.0335		106.5950	106.5950	5.3500e-003		106.7073
Total	0.0462	0.0603	0.5763	1.4000e-003	0.1232	9.1000e-004	0.1241	0.0327	8.4000e-004	0.0335		106.5950	106.5950	5.3500e-003		106.7073

3.7 Architectural Coating - 2018

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	118.2620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.0102
Total	118.5607	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.0102

3.7 Architectural Coating - 2018

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	9.2400e-003	0.0121	0.1153	2.8000e-004	0.0246	1.8000e-004	0.0248	6.5400e-003	1.7000e-004	6.7100e-003		21.3190	21.3190	1.0700e-003		21.3415
Total	9.2400e-003	0.0121	0.1153	2.8000e-004	0.0246	1.8000e-004	0.0248	6.5400e-003	1.7000e-004	6.7100e-003		21.3190	21.3190	1.0700e-003		21.3415

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	118.2620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.0102
Total	118.5607	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.0102

3.7 Architectural Coating - 2018

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	9.2400e-003	0.0121	0.1153	2.8000e-004	0.0246	1.8000e-004	0.0248	6.5400e-003	1.7000e-004	6.7100e-003		21.3190	21.3190	1.0700e-003		21.3415
Total	9.2400e-003	0.0121	0.1153	2.8000e-004	0.0246	1.8000e-004	0.0248	6.5400e-003	1.7000e-004	6.7100e-003		21.3190	21.3190	1.0700e-003		21.3415

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	1.4138	3.1355	14.1406	0.0334	2.5613	0.0394	2.6007	0.6836	0.0364	0.7199		2,620.1869	2,620.1869	0.1093		2,622.4819
Unmitigated	1.4138	3.1355	14.1406	0.0334	2.5613	0.0394	2.6007	0.6836	0.0364	0.7199		2,620.1869	2,620.1869	0.1093		2,622.4819

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	401.94	423.36	368.34	1,146,390	1,146,390
Total	401.94	423.36	368.34	1,146,390	1,146,390

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	42.60	21.00	36.40	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.456583	0.078851	0.189597	0.160849	0.074758	0.010700	0.011077	0.000966	0.001372	0.000777	0.008826	0.000741	0.004904

5.0 Energy Detail

5.1 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	0.0221	0.1891	0.0805	1.2100e-003		0.0153	0.0153		0.0153	0.0153		241.3907	241.3907	4.6300e-003	4.4300e-003	242.8598
NaturalGas Unmitigated	0.0221	0.1891	0.0805	1.2100e-003		0.0153	0.0153		0.0153	0.0153		241.3907	241.3907	4.6300e-003	4.4300e-003	242.8598

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	2051.82	0.0221	0.1891	0.0805	1.2100e-003		0.0153	0.0153		0.0153	0.0153		241.3907	241.3907	4.6300e-003	4.4300e-003	242.8598
Total		0.0221	0.1891	0.0805	1.2100e-003		0.0153	0.0153		0.0153	0.0153		241.3907	241.3907	4.6300e-003	4.4300e-003	242.8598

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	2.05182	0.0221	0.1891	0.0805	1.2100e-003		0.0153	0.0153		0.0153	0.0153		241.3907	241.3907	4.6300e-003	4.4300e-003	242.8598
Total		0.0221	0.1891	0.0805	1.2100e-003		0.0153	0.0153		0.0153	0.0153		241.3907	241.3907	4.6300e-003	4.4300e-003	242.8598

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	66.6490	0.9124	82.6641	0.0311		11.1437	11.1437		11.1433	11.1433	1,166.4127	495.4157	1,661.8284	1.0825	0.0918	1,713.0031
Unmitigated	66.6490	0.9124	82.6641	0.0311		11.1437	11.1437		11.1433	11.1433	1,166.4127	495.4157	1,661.8284	1.0825	0.0918	1,713.0031

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	0.6480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.6178					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	64.2766	0.8721	79.1819	0.0309		11.1246	11.1246		11.1242	11.1242	1,166.4127	489.1765	1,655.5892	1.0764	0.0918	1,706.6353
Landscaping	0.1066	0.0403	3.4822	1.8000e-004		0.0191	0.0191		0.0191	0.0191		6.2392	6.2392	6.1200e-003		6.3678
Total	66.6490	0.9124	82.6641	0.0311		11.1437	11.1437		11.1433	11.1433	1,166.4127	495.4157	1,661.8284	1.0825	0.0918	1,713.0031

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					
Consumer Products	1.6178					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	64.2766	0.8721	79.1819	0.0309		11.1246	11.1246		11.1242	11.1242	1,166.4127	489.1765	1,655.5892	1.0764	0.0918	1,706.6353
Landscaping	0.1066	0.0403	3.4822	1.8000e-004		0.0191	0.0191		0.0191	0.0191		6.2392	6.2392	6.1200e-003		6.3678
Architectural Coating	0.6480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	66.6490	0.9124	82.6641	0.0311		11.1437	11.1437		11.1433	11.1433	1,166.4127	495.4157	1,661.8284	1.0825	0.0918	1,713.0031

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