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August 31, 2017

Mr. Gregg Haggart
The Gildred Companies
550 West C Street, Suite 1820
San Diego, CA 92101

RE: Gildred Tentative Parcel Map (TPM 21176) Greenhouse Gas and Air Quality Screening Letter – San Diego County

The purpose of this combined air quality and greenhouse gas screening letter is to identify potential air quality (AQ) or greenhouse gas (GHG) impacts, if any, which may be created from the construction of a 4-unit residential tentative parcel map. The project, "Gildred Tentative Parcel Map" proposes to subdivide a 53-acre site into four (4) lots approximately 10 acres in size. The project is located north of Highland Trails Drive and east of Highland Valley Road within an unincorporated area of the County of San Diego near Ramona.

The project proposes preliminary grading for roads, as required by the County of San Diego for a tentative parcel map submission. Gildred Highland will not be phased; the proponent does not plan to construct homes as part of the project. When homes are built on the site, they will be developed on an individual lot basis. Owners will be responsible for pad grading, home construction, and associated water well and septic system facilities. For purposes of this worst-case Air Quality and Greenhouse Gas screening assessment, a typical full build out construction scenario will be assumed. Additionally, the project may require blasting during the grading phase of the project and rock breaking to balance the earthwork.

The worst case grading and construction scenario analyzed within this report is as follows:

1. The project does not include any demolition as there are no existing structures onsite to be removed. The project would begin by bringing in, at most, two 40-yard dumpster per lot to be used to collect construction debris and haul it to a recycling facility. Based on this assumption there will be 8 round trips hauling the material to the nearest available facility which could potentially be the Miramar facility.
2. Grading of all roads and pads will begin concurrently and earthwork quantities would be expected to be fully balanced. Also, no stockpiling will be necessary.
3. During the grading process, it's assumed that some blasting will be required. Based on discussion with the project applicant and engineer, it's estimated that each blast could utilize

as much as 4,000 pounds (lbs) of Ammonium Nitrate (ANFO) based blasting material. Also, it's assumed that no more than 16,000 lbs of blasting material will be utilized for the entire project. One rock drill would be necessary to conduct this work. Also, any mechanical breaking of rocks will utilize a hoe ram attached to an excavator. based on the quantities assumed, blast areas would be as large as 2,500 square-foot (ft²) per blast.

4. Construction of all 4 houses could take roughly 5 months to construct, if done at the same time.

The proposed project would start construction in 2018. The earliest construction may start would be at the first quarter of 2018. The proposed construction schedule and construction equipment list is identified in Table 1 below.

Table 1: Proposed Construction Phase and Duration

Equipment Identification	Proposed Start	Proposed Completion	Quantity
Site Preparation	1/4/2018	1/10/2018	
Rubber Tired Dozers			1
Tractors/Loaders/Backhoes			1
Grading	1/11/2018	3/7/2018	
Bore/Drill Rigs			1
Excavators			1
Graders			1
Rubber Tired Dozers			1
Tractors/Loaders/Backhoes			1
Paving	3/8/2018	3/16/2018	
Pavers			1
Paving Equipment			1
Rollers			1
Building Construction	3/17/2018	8/3/2018	
Cranes			1
Forklifts			1
Generator Sets			1
Tractors/Loaders/Backhoes			1
Welders			1
Architectural Coating	5/1/2018	8/3/2018	
This equipment list is based upon equipment inventory and estimates within California Emissions Estimator Model (CalEEMod) Version 2016.3.1.			

Air Quality

Air quality screening criteria for the County of San Diego have been established by the San Diego Air Pollution Control District (SDAPCD) within in Rule 20.2. These screening criteria can be used to demonstrate that a project's total emissions would not result in a significant impact as defined by CEQA. These screening thresholds for construction are shown in Table 2 below.

Table 2: County of San Diego Air Quality Construction Thresholds

Pollutant	Total Emissions (Pounds per Day)
Respirable Particulate Matter (PM ₁₀ / PM _{2.5})	150 / 55
Nitrogen Oxide (NO _x)	250
Sulfur Oxide (SO _x)	250
Carbon Monoxide (CO)	550
Reactive Organic Gases (ROG) SCAQMD	75

The air quality and GHG emissions were calculated using the latest California Emissions Estimator Model (CalEEMod) Version 2016.3.1 air quality and GHG model, which was developed by BREEZE Software for South Coast Air Quality Management District (SCAQMD) in 2016. The County of San Diego recognizes the CalEEMod Version 2016.3.1 as an acceptable model for projects of this nature. Additionally, blasting-related emissions are estimated outside of CalEEMod and incorporated into subsequent tables presenting the project's total construction-related emissions. The construction emissions as calculated in CalEEMod Version 2016 are reported in pounds/day and are shown in Table 3 on the following page. The CalEEMod modeling results are provided in ***Attachment A***.

Blasting operations usually require a chemical material that is capable of extremely rapid combustion resulting in an explosion or detonation. These materials are usually mixtures of several ingredients but are often oxygen deficient as combustion reactions takes place which causes a formation of carbon monoxide (CO) and also to a lesser extent nitrogen oxides NO_x. For ammonium nitrate and fuel oil (ANFO) mixtures it is expected that carbon monoxide would be generated in quantities of 67 lbs per every ton of explosives and nitrogen oxides would be generated at 17 lbs per the same quantity (EPA, 1995) and are shown below.

$$CO(lb / Blast / Day) = 67lb / TonMaterial * (TonMaterial / Day)$$

$$NOx(lb / Blast / Day) = 17lb / TonMaterial * (TonMaterial / Day)$$

Particulate matter from blasting can be estimated using Table 11.9-1 of the aforementioned EPA-AP 42 document. PM10 is estimated using the equation:

$$PM_{10}(lb/Blast) = 0.000014 * (BlastArea(ft^2)) * 0.52$$

.Based upon the findings in Table 3, the proposed project's construction activities would not create emissions in excess of SDAPCDs thresholds. Therefore, no mitigation measures would be required.

Table 3: Expected Daily Construction Emissions Summary Lb/Day

Year	ROG	NO _x	CO	SO ₂	PM ₁₀ (Dust)	PM ₁₀ (Exhaust)	PM ₁₀ (Total)	PM _{2.5} (Dust)	PM _{2.5} (Exhaust)	PM _{2.5} (Total)
2018 Construction (lb/day)	7.062	24.541	10.696	0.024	17.305	1.142	18.102	4.535	1.057	5.268
2018 Blasting (lb/day)		34	134		0.0182					
Total	7.062	58.541	144.696	0.024	17.3232	1.142	18.102	4.535	1.057	5.268
Significance Threshold (lb/day)	75	250	550	250	-	-	100	-	-	55
SCAQMD Impact?	No	No	No	No	-	-	No	-	-	No
Expected Construction emissions are based upon CalEEMod Version 2016 modeling assumptions for equipment and durations. Blasting CO (lb/day) = 67lb/Ton CO * 2TonANFO/Day = 134 lb/Day Blasting NOx (lb/day) = 17lb/TonNOx * 2TonANFO/Day = 34 lb/Day PM10 (lb/day) = 0.000014 * 2,500 SquareFeet * 0.52 = 0.0182 CalEEMod Daily Summer and Winter output is attached to this letter.										

It should be noted that neither CO nor NOx would be considered a significant source of GHG and are not further analyzed as part of this study, Also, per the sourced documentation, ANFO blasting does not generate N₂O

Greenhouse Gas

Projects that exceed the California Air Pollution Control Officers Association (CAPCOA) screening threshold of 900 metric tons of carbon dioxide equivalent (MT CO₂e) (California Air Pollution Control Officers Association, 2008), may need further analysis to address potential GHG impacts. Currently the County does not have a design standard though is working on a Climate Action

Plan (CAP) which will further define these thresholds once adopted. For purposes of this analysis however the 900 MT CO₂e CAPCOA Screening threshold was utilized.

Utilizing CALEEMOD Version 2016.3.1, we find that construction of the project will produce approximately 116 metric tons of CO₂e over the construction life of the project which includes any rock drilling that may be necessary if blasting is required. The CalEEMod modeling results are provided in **Attachment A**. Based on this assessment the project construction would not exceed the 900 MT CO₂e screening threshold for construction and would not require mitigation to comply. A summary of the annual GHG emissions in terms of metric tons (MT) is shown in Table 4 below.

Table 4: Expected Annual Construction CO₂e Emissions Summary

Activity	Bio-CO ₂	NBio-CO ₂	Total CO ₂	CH ₄	NO ₂	CO ₂ e (MT)
Construction	0.00	115.095	115.095	0.03	0.00	115.714
Total MT/Year	0.00	115.095	115.095	0.03	0.00	115.714
Expected Construction emissions are based upon CalEEMod modeling assumptions (Table 1 above)						

Conclusion

Based on this combined AQ and GHG screening analysis, the proposed project would not generate any significant air quality impacts nor would the project generate GHG emissions in excess CAPCOA's screening thresholds of 900 MT CO₂e. Based on this, less than significant AQ and GHG impacts would be expected. As such the proposed project would not generate significant impacts under CEQA.

Sincerely Ldn Consulting,

Jeremy Loudon

Sources:

California Air Pollution Control Officers Association. (2008). *CAPCOA*. Retrieved from <http://www.capcoa.org/wp-content/uploads/downloads/2010/05/CAPCOA-White-Paper.pdf>

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EPA, U. (1995). *EPA-AP 42, Fifth Edition Compilation of Air Pollutant Emission Factors*. US EPA.
Retrieved from www.epa.gov/ttn/chief/ap42/ch13/final/c13s03.pdf

Attachment A: CalEEMod Model Results

Gildred Highlands 4-Unit SF - San Diego County, Summer

Gildred Highlands 4-Unit SF
San Diego County, Summer**1.0 Project Characteristics**

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	4.00	Dwelling Unit	53.00	20,000.00	11

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2019
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Gildred Highlands 4-Unit SF - San Diego County, Summer

Project Characteristics -

Land Use - Project Site is 53 acres

Construction Phase - Lots will be sold of for individual home development. Dates would be considered typical as if the homes were developed simultaneously by a developer.

Off-road Equipment -

Off-road Equipment - ce

Off-road Equipment - CE

Off-road Equipment - Bore Drill Rigs will be utilized for blasting operations if needed. Grading equipment would be worst case. A hoe-ram would be utilized on a backhoe as needed.

Off-road Equipment - ce

Off-road Equipment - CE

Trips and VMT - waste will be hauled to miramar 27 miles away.

Demolition -

Grading - 53 acre site

Architectural Coating - Rule 67 Compliant Paint

Area Coating - Rule 67 Compliant Paints

Gildred Highlands 4-Unit SF - San Diego County, Summer

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	150.00
tblAreaCoating	Area_EF_Residential_Exterior	250	150
tblAreaCoating	Area_EF_Residential_Interior	250	150
tblConstructionPhase	NumDays	75.00	69.00
tblConstructionPhase	NumDays	1,110.00	100.00
tblConstructionPhase	NumDays	110.00	40.00
tblConstructionPhase	NumDays	75.00	8.00
tblConstructionPhase	NumDays	40.00	5.00
tblGrading	AcresOfGrading	20.00	53.00
tblGrading	AcresOfGrading	0.00	53.00
tblLandUse	BuildingSpaceSquareFeet	7,200.00	20,000.00
tblLandUse	LandUseSquareFeet	7,200.00	20,000.00
tblLandUse	LotAcreage	1.30	53.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	UsageHours	7.00	1.00
tblOffRoadEquipment	UsageHours	8.00	3.00
tblProjectCharacteristics	OperationalYear	2018	2019

Gildred Highlands 4-Unit SF - San Diego County, Summer

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					
2018	7.0621	24.5406	10.6959	0.0236	17.3045	1.1420	18.1016	4.5349	1.0573	5.2683	0.0000	2,361.744 7	2,361.744 7	0.6664	0.0000	2,378.404 8
Maximum	7.0621	24.5406	10.6959	0.0236	17.3045	1.1420	18.1016	4.5349	1.0573	5.2683	0.0000	2,361.744 7	2,361.744 7	0.6664	0.0000	2,378.404 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					
2018	7.0621	24.5406	10.6959	0.0236	17.3045	1.1420	18.1016	4.5349	1.0573	5.2683	0.0000	2,361.744 7	2,361.744 7	0.6664	0.0000	2,378.404 8
Maximum	7.0621	24.5406	10.6959	0.0236	17.3045	1.1420	18.1016	4.5349	1.0573	5.2683	0.0000	2,361.744 7	2,361.744 7	0.6664	0.0000	2,378.404 8

Gildred Highlands 4-Unit SF - San Diego County, Summer

[illegible]

Gildred Highlands 4-Unit SF - San Diego County, Summer

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	6.6626	0.1234	7.8881	0.0137		1.0613	1.0613		1.0613	1.0613	111.0869	47.1824	158.2694	0.1031	8.7400e-003	163.4507
Energy	3.3700e-003	0.0288	0.0122	1.8000e-004		2.3300e-003	2.3300e-003		2.3300e-003	2.3300e-003		36.7350	36.7350	7.0000e-004	6.7000e-004	36.9533
Mobile	0.0824	0.3386	0.9658	3.0300e-003	0.2401	3.3000e-003	0.2434	0.0642	3.1100e-003	0.0673		307.3275	307.3275	0.0167		307.7457
Total	6.7484	0.4907	8.8661	0.0169	0.2401	1.0669	1.3070	0.0642	1.0667	1.1309	111.0869	391.2449	502.3318	0.1205	9.4100e-003	508.1496

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	6.6626	0.1234	7.8881	0.0137		1.0613	1.0613		1.0613	1.0613	111.0869	47.1824	158.2694	0.1031	8.7400e-003	163.4507
Energy	3.3700e-003	0.0288	0.0122	1.8000e-004		2.3300e-003	2.3300e-003		2.3300e-003	2.3300e-003		36.7350	36.7350	7.0000e-004	6.7000e-004	36.9533
Mobile	0.0824	0.3386	0.9658	3.0300e-003	0.2401	3.3000e-003	0.2434	0.0642	3.1100e-003	0.0673		307.3275	307.3275	0.0167		307.7457
Total	6.7484	0.4907	8.8661	0.0169	0.2401	1.0669	1.3070	0.0642	1.0667	1.1309	111.0869	391.2449	502.3318	0.1205	9.4100e-003	508.1496

Gildred Highlands 4-Unit SF - San Diego County, Summer

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/3/2018	1/9/2018	5	5	
2	Grading	Grading	1/10/2018	3/6/2018	5	40	
3	Paving	Paving	3/7/2018	3/16/2018	5	8	
4	Building Construction	Building Construction	3/17/2018	8/3/2018	5	100	
5	Architectural Coating	Architectural Coating	5/1/2018	8/3/2018	5	69	

Acres of Grading (Site Preparation Phase): 53

Acres of Grading (Grading Phase): 53

Acres of Paving: 0

Residential Indoor: 40,500; Residential Outdoor: 13,500; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Gildred Highlands 4-Unit SF - San Diego County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Bore/Drill Rigs	1	2.00	221	0.50
Grading	Crushing/Proc. Equipment	1	2.00	85	0.78
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Building Construction	Cranes	1	1.00	231	0.29
Building Construction	Forklifts	1	3.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	1.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Gildred Highlands 4-Unit SF - San Diego County, Summer

3.2 Site Preparation - 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					
Fugitive Dust					17.2634	0.0000	17.2634	4.5240	0.0000	4.5240			0.0000			0.0000
Off-Road	1.4322	15.1897	6.7132	0.0116		0.7969	0.7969		0.7331	0.7331		1,172.949 3	1,172.949 3	0.3652		1,182.078 2
Total	1.4322	15.1897	6.7132	0.0116	17.2634	0.7969	18.0603	4.5240	0.7331	5.2571		1,172.949 3	1,172.949 3	0.3652		1,182.078 2

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	0.0213	0.0153	0.1712	4.5000e-004	0.0411	3.0000e-004	0.0414	0.0109	2.7000e-004	0.0112		44.8612	44.8612	1.5400e-003		44.8996
Total	0.0213	0.0153	0.1712	4.5000e-004	0.0411	3.0000e-004	0.0414	0.0109	2.7000e-004	0.0112		44.8612	44.8612	1.5400e-003		44.8996

Gildred Highlands 4-Unit SF - San Diego County, Summer

3.2 Site Preparation - 2018**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					17.2634	0.0000	17.2634	4.5240	0.0000	4.5240			0.0000			0.0000
Off-Road	1.4322	15.1897	6.7132	0.0116		0.7969	0.7969		0.7331	0.7331	0.0000	1,172.949 3	1,172.949 3	0.3652		1,182.078 2
Total	1.4322	15.1897	6.7132	0.0116	17.2634	0.7969	18.0603	4.5240	0.7331	5.2571	0.0000	1,172.949 3	1,172.949 3	0.3652		1,182.078 2

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0213	0.0153	0.1712	4.5000e-004	0.0411	3.0000e-004	0.0414	0.0109	2.7000e-004	0.0112		44.8612	44.8612	1.5400e-003		44.8996
Total	0.0213	0.0153	0.1712	4.5000e-004	0.0411	3.0000e-004	0.0414	0.0109	2.7000e-004	0.0112		44.8612	44.8612	1.5400e-003		44.8996

Gildred Highlands 4-Unit SF - San Diego County, Summer

3.3 Grading - 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					
Fugitive Dust					7.4273	0.0000	7.4273	3.4620	0.0000	3.4620			0.0000			0.0000
Off-Road	2.1968	24.5008	10.2509	0.0224		1.1412	1.1412		1.0566	1.0566		2,245.1055	2,245.1055	0.6624		2,261.6659
Total	2.1968	24.5008	10.2509	0.0224	7.4273	1.1412	8.5685	3.4620	1.0566	4.5185		2,245.1055	2,245.1055	0.6624		2,261.6659

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	0.0553	0.0399	0.4450	1.1700e-003	0.1068	7.7000e-004	0.1076	0.0283	7.1000e-004	0.0290		116.6392	116.6392	3.9900e-003		116.7390
Total	0.0553	0.0399	0.4450	1.1700e-003	0.1068	7.7000e-004	0.1076	0.0283	7.1000e-004	0.0290		116.6392	116.6392	3.9900e-003		116.7390

Gildred Highlands 4-Unit SF - San Diego County, Summer

3.3 Grading - 2018**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					7.4273	0.0000	7.4273	3.4620	0.0000	3.4620			0.0000			0.0000
Off-Road	2.1968	24.5008	10.2509	0.0224		1.1412	1.1412		1.0566	1.0566	0.0000	2,245.105 5	2,245.105 5	0.6624		2,261.665 9
Total	2.1968	24.5008	10.2509	0.0224	7.4273	1.1412	8.5685	3.4620	1.0566	4.5185	0.0000	2,245.105 5	2,245.105 5	0.6624		2,261.665 9

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	0.0553	0.0399	0.4450	1.1700e-003	0.1068	7.7000e-004	0.1076	0.0283	7.1000e-004	0.0290		116.6392	116.6392	3.9900e-003		116.7390
Total	0.0553	0.0399	0.4450	1.1700e-003	0.1068	7.7000e-004	0.1076	0.0283	7.1000e-004	0.0290		116.6392	116.6392	3.9900e-003		116.7390

Gildred Highlands 4-Unit SF - San Diego County, Summer

3.4 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	0.8219	8.7605	7.3982	0.0114		0.4781	0.4781		0.4398	0.4398		1,147.044 4	1,147.044 4	0.3571		1,155.971 6
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8219	8.7605	7.3982	0.0114		0.4781	0.4781		0.4398	0.4398		1,147.044 4	1,147.044 4	0.3571		1,155.971 6

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	0.0341	0.0245	0.2739	7.2000e-004	0.0657	4.7000e-004	0.0662	0.0174	4.4000e-004	0.0179		71.7780	71.7780	2.4600e-003		71.8394
Total	0.0341	0.0245	0.2739	7.2000e-004	0.0657	4.7000e-004	0.0662	0.0174	4.4000e-004	0.0179		71.7780	71.7780	2.4600e-003		71.8394

Gildred Highlands 4-Unit SF - San Diego County, Summer

3.4 Paving - 2018**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8219	8.7605	7.3982	0.0114		0.4781	0.4781		0.4398	0.4398	0.0000	1,147.044 4	1,147.044 4	0.3571		1,155.971 6
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8219	8.7605	7.3982	0.0114		0.4781	0.4781		0.4398	0.4398	0.0000	1,147.044 4	1,147.044 4	0.3571		1,155.971 6

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	0.0341	0.0245	0.2739	7.2000e-004	0.0657	4.7000e-004	0.0662	0.0174	4.4000e-004	0.0179		71.7780	71.7780	2.4600e-003		71.8394
Total	0.0341	0.0245	0.2739	7.2000e-004	0.0657	4.7000e-004	0.0662	0.0174	4.4000e-004	0.0179		71.7780	71.7780	2.4600e-003		71.8394

Gildred Highlands 4-Unit SF - San Diego County, Summer

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	1.3181	9.5394	8.4203	0.0132		0.6226	0.6226		0.6028	0.6028		1,234.4363	1,234.4363	0.2105		1,239.6986
Total	1.3181	9.5394	8.4203	0.0132		0.6226	0.6226		0.6028	0.6028		1,234.4363	1,234.4363	0.2105		1,239.6986

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	4.2600e-003	3.0700e-003	0.0342	9.0000e-005	8.2100e-003	6.0000e-005	8.2700e-003	2.1800e-003	5.0000e-005	2.2300e-003		8.9723	8.9723	3.1000e-004		8.9799
Total	4.2600e-003	3.0700e-003	0.0342	9.0000e-005	8.2100e-003	6.0000e-005	8.2700e-003	2.1800e-003	5.0000e-005	2.2300e-003		8.9723	8.9723	3.1000e-004		8.9799

Gildred Highlands 4-Unit SF - San Diego County, Summer

3.5 Building Construction - 2018**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	1.3181	9.5394	8.4203	0.0132		0.6226	0.6226		0.6028	0.6028	0.0000	1,234.436 3	1,234.436 3	0.2105		1,239.698 6
Total	1.3181	9.5394	8.4203	0.0132		0.6226	0.6226		0.6028	0.6028	0.0000	1,234.436 3	1,234.436 3	0.2105		1,239.698 6

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	4.2600e-003	3.0700e-003	0.0342	9.0000e-005	8.2100e-003	6.0000e-005	8.2700e-003	2.1800e-003	5.0000e-005	2.2300e-003		8.9723	8.9723	3.1000e-004		8.9799
Total	4.2600e-003	3.0700e-003	0.0342	9.0000e-005	8.2100e-003	6.0000e-005	8.2700e-003	2.1800e-003	5.0000e-005	2.2300e-003		8.9723	8.9723	3.1000e-004		8.9799

Gildred Highlands 4-Unit SF - San Diego County, Summer

3.6 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	5.4411					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		282.1171
Total	5.7397	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171

Unmitigated Construction Off-Site

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

Gildred Highlands 4-Unit SF - San Diego County, Summer

3.6 Architectural Coating - 2018**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	5.4411					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		282.1171
Total	5.7397	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

Gildred Highlands 4-Unit SF - San Diego County, Summer

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	0.0824	0.3386	0.9658	3.0300e-003	0.2401	3.3000e-003	0.2434	0.0642	3.1100e-003	0.0673		307.3275	307.3275	0.0167		307.7457
Unmitigated	0.0824	0.3386	0.9658	3.0300e-003	0.2401	3.3000e-003	0.2434	0.0642	3.1100e-003	0.0673		307.3275	307.3275	0.0167		307.7457

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	38.08	39.64	34.48	107,898	107,898
Total	38.08	39.64	34.48	107,898	107,898

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	41.60	18.80	39.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.581689	0.044135	0.186694	0.113515	0.018244	0.005600	0.015197	0.022573	0.001888	0.002088	0.006279	0.000742	0.001357

Gildred Highlands 4-Unit SF - San Diego County, Summer

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	3.3700e-003	0.0288	0.0122	1.8000e-004		2.3300e-003	2.3300e-003		2.3300e-003	2.3300e-003		36.7350	36.7350	7.0000e-004	6.7000e-004	36.9533
NaturalGas Unmitigated	3.3700e-003	0.0288	0.0122	1.8000e-004		2.3300e-003	2.3300e-003		2.3300e-003	2.3300e-003		36.7350	36.7350	7.0000e-004	6.7000e-004	36.9533

Gildred Highlands 4-Unit SF - San Diego County, Summer

5.2 Energy by Land Use - NaturalGas**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	312.247	3.3700e-003	0.0288	0.0122	1.8000e-004		2.3300e-003	2.3300e-003		2.3300e-003	2.3300e-003		36.7350	36.7350	7.0000e-004	6.7000e-004	36.9533
Total		3.3700e-003	0.0288	0.0122	1.8000e-004		2.3300e-003	2.3300e-003		2.3300e-003	2.3300e-003		36.7350	36.7350	7.0000e-004	6.7000e-004	36.9533

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	0.312247	3.3700e-003	0.0288	0.0122	1.8000e-004		2.3300e-003	2.3300e-003		2.3300e-003	2.3300e-003		36.7350	36.7350	7.0000e-004	6.7000e-004	36.9533
Total		3.3700e-003	0.0288	0.0122	1.8000e-004		2.3300e-003	2.3300e-003		2.3300e-003	2.3300e-003		36.7350	36.7350	7.0000e-004	6.7000e-004	36.9533

6.0 Area Detail**6.1 Mitigation Measures Area**

Gildred Highlands 4-Unit SF - San Diego County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.6626	0.1234	7.8881	0.0137		1.0613	1.0613		1.0613	1.0613	111.0869	47.1824	158.2694	0.1031	8.7400e-003	163.4507
Unmitigated	6.6626	0.1234	7.8881	0.0137		1.0613	1.0613		1.0613	1.0613	111.0869	47.1824	158.2694	0.1031	8.7400e-003	163.4507

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	0.1029					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4280					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	6.1216	0.1196	7.5564	0.0137		1.0595	1.0595		1.0595	1.0595	111.0869	46.5882	157.6752	0.1025	8.7400e-003	162.8419
Landscaping	0.0102	3.8400e-003	0.3316	2.0000e-005		1.8200e-003	1.8200e-003		1.8200e-003	1.8200e-003		0.5942	0.5942	5.8000e-004		0.6088
Total	6.6626	0.1234	7.8881	0.0137		1.0613	1.0613		1.0613	1.0613	111.0869	47.1825	158.2694	0.1031	8.7400e-003	163.4507

Gildred Highlands 4-Unit SF - San Diego County, Summer

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1029					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4280					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	6.1216	0.1196	7.5564	0.0137		1.0595	1.0595		1.0595	1.0595	111.0869	46.5882	157.6752	0.1025	8.7400e-003	162.8419
Landscaping	0.0102	3.8400e-003	0.3316	2.0000e-005		1.8200e-003	1.8200e-003		1.8200e-003	1.8200e-003		0.5942	0.5942	5.8000e-004		0.6088
Total	6.6626	0.1234	7.8881	0.0137		1.0613	1.0613		1.0613	1.0613	111.0869	47.1825	158.2694	0.1031	8.7400e-003	163.4507

7.0 Water Detail**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

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

Gildred Highlands 4-Unit SF - San Diego County, Summer

Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Gildred Highlands 4-Unit SF - San Diego County, Winter

Gildred Highlands 4-Unit SF
San Diego County, Winter**1.0 Project Characteristics**

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	4.00	Dwelling Unit	53.00	20,000.00	11

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2019
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Gildred Highlands 4-Unit SF - San Diego County, Winter

Project Characteristics -

Land Use - Project Site is 53 acres

Construction Phase - Lots will be sold of for individual home development. Dates would be considered typical as if the homes were developed simultaneously by a developer.

Off-road Equipment -

Off-road Equipment - ce

Off-road Equipment - CE

Off-road Equipment - Bore Drill Rigs will be utilized for blasting operations if needed. Grading equipment would be worst case. A hoe-ram would be utilized on a backhoe as needed.

Off-road Equipment - ce

Off-road Equipment - CE

Trips and VMT - waste will be hauled to miramar 27 miles away.

Demolition -

Grading - 53 acre site

Architectural Coating - Rule 67 Compliant Paint

Area Coating - Rule 67 Compliant Paints

Gildred Highlands 4-Unit SF - San Diego County, Winter

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	150.00
tblAreaCoating	Area_EF_Residential_Exterior	250	150
tblAreaCoating	Area_EF_Residential_Interior	250	150
tblConstructionPhase	NumDays	75.00	69.00
tblConstructionPhase	NumDays	1,110.00	100.00
tblConstructionPhase	NumDays	110.00	40.00
tblConstructionPhase	NumDays	75.00	8.00
tblConstructionPhase	NumDays	40.00	5.00
tblGrading	AcresOfGrading	20.00	53.00
tblGrading	AcresOfGrading	0.00	53.00
tblLandUse	BuildingSpaceSquareFeet	7,200.00	20,000.00
tblLandUse	LandUseSquareFeet	7,200.00	20,000.00
tblLandUse	LotAcreage	1.30	53.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	UsageHours	7.00	1.00
tblOffRoadEquipment	UsageHours	8.00	3.00
tblProjectCharacteristics	OperationalYear	2018	2019

Gildred Highlands 4-Unit SF - San Diego County, Winter

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					
2018	7.0627	24.5455	10.6730	0.0235	17.3045	1.1420	18.1016	4.5349	1.0573	5.2683	0.0000	2,354.608 1	2,354.608 1	0.6662	0.0000	2,371.263 3
Maximum	7.0627	24.5455	10.6730	0.0235	17.3045	1.1420	18.1016	4.5349	1.0573	5.2683	0.0000	2,354.608 1	2,354.608 1	0.6662	0.0000	2,371.263 3

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	7.0627	24.5455	10.6730	0.0235	17.3045	1.1420	18.1016	4.5349	1.0573	5.2683	0.0000	2,354.608 1	2,354.608 1	0.6662	0.0000	2,371.263 3
Maximum	7.0627	24.5455	10.6730	0.0235	17.3045	1.1420	18.1016	4.5349	1.0573	5.2683	0.0000	2,354.608 1	2,354.608 1	0.6662	0.0000	2,371.263 3

Gildred Highlands 4-Unit SF - San Diego County, Winter

[illegible]

Gildred Highlands 4-Unit SF - San Diego County, Winter

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	6.6626	0.1234	7.8881	0.0137		1.0613	1.0613		1.0613	1.0613	111.0869	47.1824	158.2694	0.1031	8.7400e-003	163.4507
Energy	3.3700e-003	0.0288	0.0122	1.8000e-004		2.3300e-003	2.3300e-003		2.3300e-003	2.3300e-003		36.7350	36.7350	7.0000e-004	6.7000e-004	36.9533
Mobile	0.0804	0.3497	0.9521	2.8700e-003	0.2401	3.3300e-003	0.2434	0.0642	3.1300e-003	0.0673		291.3863	291.3863	0.0168		291.8055
Total	6.7464	0.5018	8.8524	0.0168	0.2401	1.0670	1.3070	0.0642	1.0668	1.1309	111.0869	375.3037	486.3906	0.1206	9.4100e-003	492.2094

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	6.6626	0.1234	7.8881	0.0137		1.0613	1.0613		1.0613	1.0613	111.0869	47.1824	158.2694	0.1031	8.7400e-003	163.4507
Energy	3.3700e-003	0.0288	0.0122	1.8000e-004		2.3300e-003	2.3300e-003		2.3300e-003	2.3300e-003		36.7350	36.7350	7.0000e-004	6.7000e-004	36.9533
Mobile	0.0804	0.3497	0.9521	2.8700e-003	0.2401	3.3300e-003	0.2434	0.0642	3.1300e-003	0.0673		291.3863	291.3863	0.0168		291.8055
Total	6.7464	0.5018	8.8524	0.0168	0.2401	1.0670	1.3070	0.0642	1.0668	1.1309	111.0869	375.3037	486.3906	0.1206	9.4100e-003	492.2094

Gildred Highlands 4-Unit SF - San Diego County, Winter

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/3/2018	1/9/2018	5	5	
2	Grading	Grading	1/10/2018	3/6/2018	5	40	
3	Paving	Paving	3/7/2018	3/16/2018	5	8	
4	Building Construction	Building Construction	3/17/2018	8/3/2018	5	100	
5	Architectural Coating	Architectural Coating	5/1/2018	8/3/2018	5	69	

Acres of Grading (Site Preparation Phase): 53

Acres of Grading (Grading Phase): 53

Acres of Paving: 0

Residential Indoor: 40,500; Residential Outdoor: 13,500; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Gildred Highlands 4-Unit SF - San Diego County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Bore/Drill Rigs	1	2.00	221	0.50
Grading	Crushing/Proc. Equipment	1	2.00	85	0.78
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Building Construction	Cranes	1	1.00	231	0.29
Building Construction	Forklifts	1	3.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	1.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Gildred Highlands 4-Unit SF - San Diego County, Winter

3.2 Site Preparation - 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					
Fugitive Dust					17.2634	0.0000	17.2634	4.5240	0.0000	4.5240			0.0000			0.0000
Off-Road	1.4322	15.1897	6.7132	0.0116		0.7969	0.7969		0.7331	0.7331		1,172.949 3	1,172.949 3	0.3652		1,182.078 2
Total	1.4322	15.1897	6.7132	0.0116	17.2634	0.7969	18.0603	4.5240	0.7331	5.2571		1,172.949 3	1,172.949 3	0.3652		1,182.078 2

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	0.0240	0.0172	0.1624	4.2000e-004	0.0411	3.0000e-004	0.0414	0.0109	2.7000e-004	0.0112		42.1164	42.1164	1.4600e-003		42.1529
Total	0.0240	0.0172	0.1624	4.2000e-004	0.0411	3.0000e-004	0.0414	0.0109	2.7000e-004	0.0112		42.1164	42.1164	1.4600e-003		42.1529

Gildred Highlands 4-Unit SF - San Diego County, Winter

3.2 Site Preparation - 2018**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					17.2634	0.0000	17.2634	4.5240	0.0000	4.5240			0.0000			0.0000
Off-Road	1.4322	15.1897	6.7132	0.0116		0.7969	0.7969		0.7331	0.7331	0.0000	1,172.949 3	1,172.949 3	0.3652		1,182.078 2
Total	1.4322	15.1897	6.7132	0.0116	17.2634	0.7969	18.0603	4.5240	0.7331	5.2571	0.0000	1,172.949 3	1,172.949 3	0.3652		1,182.078 2

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0240	0.0172	0.1624	4.2000e-004	0.0411	3.0000e-004	0.0414	0.0109	2.7000e-004	0.0112		42.1164	42.1164	1.4600e-003		42.1529
Total	0.0240	0.0172	0.1624	4.2000e-004	0.0411	3.0000e-004	0.0414	0.0109	2.7000e-004	0.0112		42.1164	42.1164	1.4600e-003		42.1529

Gildred Highlands 4-Unit SF - San Diego County, Winter

3.3 Grading - 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					
Fugitive Dust					7.4273	0.0000	7.4273	3.4620	0.0000	3.4620			0.0000			0.0000
Off-Road	2.1968	24.5008	10.2509	0.0224		1.1412	1.1412		1.0566	1.0566		2,245.1055	2,245.1055	0.6624		2,261.6659
Total	2.1968	24.5008	10.2509	0.0224	7.4273	1.1412	8.5685	3.4620	1.0566	4.5185		2,245.1055	2,245.1055	0.6624		2,261.6659

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0625	0.0448	0.4221	1.1000e-003	0.1068	7.7000e-004	0.1076	0.0283	7.1000e-004	0.0290		109.5026	109.5026	3.7900e-003		109.5974
Total	0.0625	0.0448	0.4221	1.1000e-003	0.1068	7.7000e-004	0.1076	0.0283	7.1000e-004	0.0290		109.5026	109.5026	3.7900e-003		109.5974

Gildred Highlands 4-Unit SF - San Diego County, Winter

3.3 Grading - 2018**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					7.4273	0.0000	7.4273	3.4620	0.0000	3.4620			0.0000			0.0000
Off-Road	2.1968	24.5008	10.2509	0.0224		1.1412	1.1412		1.0566	1.0566	0.0000	2,245.105 5	2,245.105 5	0.6624		2,261.665 9
Total	2.1968	24.5008	10.2509	0.0224	7.4273	1.1412	8.5685	3.4620	1.0566	4.5185	0.0000	2,245.105 5	2,245.105 5	0.6624		2,261.665 9

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0625	0.0448	0.4221	1.1000e-003	0.1068	7.7000e-004	0.1076	0.0283	7.1000e-004	0.0290		109.5026	109.5026	3.7900e-003		109.5974
Total	0.0625	0.0448	0.4221	1.1000e-003	0.1068	7.7000e-004	0.1076	0.0283	7.1000e-004	0.0290		109.5026	109.5026	3.7900e-003		109.5974

Gildred Highlands 4-Unit SF - San Diego County, Winter

3.4 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	0.8219	8.7605	7.3982	0.0114		0.4781	0.4781		0.4398	0.4398		1,147.044 4	1,147.044 4	0.3571		1,155.971 6
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8219	8.7605	7.3982	0.0114		0.4781	0.4781		0.4398	0.4398		1,147.044 4	1,147.044 4	0.3571		1,155.971 6

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	0.0385	0.0275	0.2598	6.8000e-004	0.0657	4.7000e-004	0.0662	0.0174	4.4000e-004	0.0179		67.3862	67.3862	2.3400e-003		67.4446
Total	0.0385	0.0275	0.2598	6.8000e-004	0.0657	4.7000e-004	0.0662	0.0174	4.4000e-004	0.0179		67.3862	67.3862	2.3400e-003		67.4446

Gildred Highlands 4-Unit SF - San Diego County, Winter

3.4 Paving - 2018**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8219	8.7605	7.3982	0.0114		0.4781	0.4781		0.4398	0.4398	0.0000	1,147.044 4	1,147.044 4	0.3571		1,155.971 6
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8219	8.7605	7.3982	0.0114		0.4781	0.4781		0.4398	0.4398	0.0000	1,147.044 4	1,147.044 4	0.3571		1,155.971 6

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	0.0385	0.0275	0.2598	6.8000e-004	0.0657	4.7000e-004	0.0662	0.0174	4.4000e-004	0.0179		67.3862	67.3862	2.3400e-003		67.4446
Total	0.0385	0.0275	0.2598	6.8000e-004	0.0657	4.7000e-004	0.0662	0.0174	4.4000e-004	0.0179		67.3862	67.3862	2.3400e-003		67.4446

Gildred Highlands 4-Unit SF - San Diego County, Winter

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	1.3181	9.5394	8.4203	0.0132		0.6226	0.6226		0.6028	0.6028		1,234.4363	1,234.4363	0.2105		1,239.6986
Total	1.3181	9.5394	8.4203	0.0132		0.6226	0.6226		0.6028	0.6028		1,234.4363	1,234.4363	0.2105		1,239.6986

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	4.8100e-003	3.4400e-003	0.0325	8.0000e-005	8.2100e-003	6.0000e-005	8.2700e-003	2.1800e-003	5.0000e-005	2.2300e-003		8.4233	8.4233	2.9000e-004		8.4306
Total	4.8100e-003	3.4400e-003	0.0325	8.0000e-005	8.2100e-003	6.0000e-005	8.2700e-003	2.1800e-003	5.0000e-005	2.2300e-003		8.4233	8.4233	2.9000e-004		8.4306

Gildred Highlands 4-Unit SF - San Diego County, Winter

3.5 Building Construction - 2018**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	1.3181	9.5394	8.4203	0.0132		0.6226	0.6226		0.6028	0.6028	0.0000	1,234.436 3	1,234.436 3	0.2105		1,239.698 6
Total	1.3181	9.5394	8.4203	0.0132		0.6226	0.6226		0.6028	0.6028	0.0000	1,234.436 3	1,234.436 3	0.2105		1,239.698 6

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	4.8100e-003	3.4400e-003	0.0325	8.0000e-005	8.2100e-003	6.0000e-005	8.2700e-003	2.1800e-003	5.0000e-005	2.2300e-003		8.4233	8.4233	2.9000e-004		8.4306
Total	4.8100e-003	3.4400e-003	0.0325	8.0000e-005	8.2100e-003	6.0000e-005	8.2700e-003	2.1800e-003	5.0000e-005	2.2300e-003		8.4233	8.4233	2.9000e-004		8.4306

Gildred Highlands 4-Unit SF - San Diego County, Winter

3.6 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	5.4411					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		282.1171
Total	5.7397	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171

Unmitigated Construction Off-Site

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

Gildred Highlands 4-Unit SF - San Diego County, Winter

3.6 Architectural Coating - 2018**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	5.4411					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		282.1171
Total	5.7397	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

Gildred Highlands 4-Unit SF - San Diego County, Winter

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	0.0804	0.3497	0.9521	2.8700e-003	0.2401	3.3300e-003	0.2434	0.0642	3.1300e-003	0.0673		291.3863	291.3863	0.0168		291.8055
Unmitigated	0.0804	0.3497	0.9521	2.8700e-003	0.2401	3.3300e-003	0.2434	0.0642	3.1300e-003	0.0673		291.3863	291.3863	0.0168		291.8055

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	38.08	39.64	34.48	107,898	107,898
Total	38.08	39.64	34.48	107,898	107,898

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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	41.60	18.80	39.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.581689	0.044135	0.186694	0.113515	0.018244	0.005600	0.015197	0.022573	0.001888	0.002088	0.006279	0.000742	0.001357

Gildred Highlands 4-Unit SF - San Diego County, Winter

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	3.3700e-003	0.0288	0.0122	1.8000e-004		2.3300e-003	2.3300e-003		2.3300e-003	2.3300e-003		36.7350	36.7350	7.0000e-004	6.7000e-004	36.9533
NaturalGas Unmitigated	3.3700e-003	0.0288	0.0122	1.8000e-004		2.3300e-003	2.3300e-003		2.3300e-003	2.3300e-003		36.7350	36.7350	7.0000e-004	6.7000e-004	36.9533

Gildred Highlands 4-Unit SF - San Diego County, Winter

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	312.247	3.3700e-003	0.0288	0.0122	1.8000e-004		2.3300e-003	2.3300e-003		2.3300e-003	2.3300e-003		36.7350	36.7350	7.0000e-004	6.7000e-004	36.9533
Total		3.3700e-003	0.0288	0.0122	1.8000e-004		2.3300e-003	2.3300e-003		2.3300e-003	2.3300e-003		36.7350	36.7350	7.0000e-004	6.7000e-004	36.9533

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	0.312247	3.3700e-003	0.0288	0.0122	1.8000e-004		2.3300e-003	2.3300e-003		2.3300e-003	2.3300e-003		36.7350	36.7350	7.0000e-004	6.7000e-004	36.9533
Total		3.3700e-003	0.0288	0.0122	1.8000e-004		2.3300e-003	2.3300e-003		2.3300e-003	2.3300e-003		36.7350	36.7350	7.0000e-004	6.7000e-004	36.9533

6.0 Area Detail**6.1 Mitigation Measures Area**

Gildred Highlands 4-Unit SF - San Diego County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.6626	0.1234	7.8881	0.0137		1.0613	1.0613		1.0613	1.0613	111.0869	47.1824	158.2694	0.1031	8.7400e-003	163.4507
Unmitigated	6.6626	0.1234	7.8881	0.0137		1.0613	1.0613		1.0613	1.0613	111.0869	47.1824	158.2694	0.1031	8.7400e-003	163.4507

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	0.1029					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4280					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	6.1216	0.1196	7.5564	0.0137		1.0595	1.0595		1.0595	1.0595	111.0869	46.5882	157.6752	0.1025	8.7400e-003	162.8419
Landscaping	0.0102	3.8400e-003	0.3316	2.0000e-005		1.8200e-003	1.8200e-003		1.8200e-003	1.8200e-003		0.5942	0.5942	5.8000e-004		0.6088
Total	6.6626	0.1234	7.8881	0.0137		1.0613	1.0613		1.0613	1.0613	111.0869	47.1825	158.2694	0.1031	8.7400e-003	163.4507

Gildred Highlands 4-Unit SF - San Diego County, Winter

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1029					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4280					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	6.1216	0.1196	7.5564	0.0137		1.0595	1.0595		1.0595	1.0595	111.0869	46.5882	157.6752	0.1025	8.7400e-003	162.8419
Landscaping	0.0102	3.8400e-003	0.3316	2.0000e-005		1.8200e-003	1.8200e-003		1.8200e-003	1.8200e-003		0.5942	0.5942	5.8000e-004		0.6088
Total	6.6626	0.1234	7.8881	0.0137		1.0613	1.0613		1.0613	1.0613	111.0869	47.1825	158.2694	0.1031	8.7400e-003	163.4507

7.0 Water Detail**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

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

Gildred Highlands 4-Unit SF - San Diego County, Winter

Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Gildred Highlands 4-Unit SF - San Diego County, Annual

Gildred Highlands 4-Unit SF
San Diego County, Annual**1.0 Project Characteristics**

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	4.00	Dwelling Unit	53.00	20,000.00	11

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2019
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Gildred Highlands 4-Unit SF - San Diego County, Annual

Project Characteristics -

Land Use - Project Site is 53 acres

Construction Phase - Lots will be sold of for individual home development. Dates would be considered typical as if the homes were developed simultaneously by a developer.

Off-road Equipment -

Off-road Equipment - ce

Off-road Equipment - CE

Off-road Equipment - Bore Drill Rigs will be utilized for blasting operations if needed. Grading equipment would be worst case. A hoe-ram would be utilized on a backhoe as needed.

Off-road Equipment - ce

Off-road Equipment - CE

Trips and VMT - waste will be hauled to miramar 27 miles away.

Demolition -

Grading - 53 acre site

Architectural Coating - Rule 67 Compliant Paint

Area Coating - Rule 67 Compliant Paints

Gildred Highlands 4-Unit SF - San Diego County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	150.00
tblAreaCoating	Area_EF_Residential_Exterior	250	150
tblAreaCoating	Area_EF_Residential_Interior	250	150
tblConstructionPhase	NumDays	75.00	69.00
tblConstructionPhase	NumDays	1,110.00	100.00
tblConstructionPhase	NumDays	110.00	40.00
tblConstructionPhase	NumDays	75.00	8.00
tblConstructionPhase	NumDays	40.00	5.00
tblGrading	AcresOfGrading	20.00	53.00
tblGrading	AcresOfGrading	0.00	53.00
tblLandUse	BuildingSpaceSquareFeet	7,200.00	20,000.00
tblLandUse	LandUseSquareFeet	7,200.00	20,000.00
tblLandUse	LotAcreage	1.30	53.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	UsageHours	7.00	1.00
tblOffRoadEquipment	UsageHours	8.00	3.00
tblProjectCharacteristics	OperationalYear	2018	2019

Gildred Highlands 4-Unit SF - San Diego County, Annual

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					
2018	0.3163	1.1104	0.7479	1.3100e-003	0.1946	0.0631	0.2576	0.0813	0.0601	0.1414	0.0000	115.0948	115.0948	0.0246	0.0000	115.7104
Maximum	0.3163	1.1104	0.7479	1.3100e-003	0.1946	0.0631	0.2576	0.0813	0.0601	0.1414	0.0000	115.0948	115.0948	0.0246	0.0000	115.7104

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					
2018	0.3163	1.1104	0.7479	1.3100e-003	0.1946	0.0631	0.2576	0.0813	0.0601	0.1414	0.0000	115.0947	115.0947	0.0246	0.0000	115.7102
Maximum	0.3163	1.1104	0.7479	1.3100e-003	0.1946	0.0631	0.2576	0.0813	0.0601	0.1414	0.0000	115.0947	115.0947	0.0246	0.0000	115.7102

Gildred Highlands 4-Unit SF - San Diego County, Annual

	ROG	NOx	CO	SO2	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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
2	10-10-2017	1-9-2018	0.0417	0.0417
3	1-10-2018	4-9-2018	0.6637	0.6637
4	4-10-2018	7-9-2018	0.5467	0.5467
5	7-10-2018	9-30-2018	0.1662	0.1662
		Highest	0.6637	0.6637

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.3488	5.2500e-003	0.3397	5.6000e-004		0.0436	0.0436		0.0436	0.0436	4.1318	1.7813	5.9132	3.8600e-003	3.2000e-004	6.1065
Energy	6.1000e-004	5.2500e-003	2.2300e-003	3.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004	0.0000	17.4080	17.4080	5.7000e-004	2.1000e-004	17.4837
Mobile	0.0136	0.0608	0.1633	5.0000e-004	0.0407	5.7000e-004	0.0413	0.0109	5.4000e-004	0.0114	0.0000	46.2825	46.2825	2.6100e-003	0.0000	46.3479
Waste						0.0000	0.0000		0.0000	0.0000	0.9155	0.0000	0.9155	0.0541	0.0000	2.2681
Water						0.0000	0.0000		0.0000	0.0000	0.0827	1.7056	1.7883	8.5600e-003	2.1000e-004	2.0663
Total	0.3630	0.0713	0.5051	1.0900e-003	0.0407	0.0446	0.0853	0.0109	0.0446	0.0555	5.1300	67.1775	72.3075	0.0697	7.4000e-004	74.2724

Gildred Highlands 4-Unit SF - San Diego County, Annual

2.2 Overall Operational**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.3488	5.2500e-003	0.3397	5.6000e-004		0.0436	0.0436		0.0436	0.0436	4.1318	1.7813	5.9132	3.8600e-003	3.2000e-004	6.1065
Energy	6.1000e-004	5.2500e-003	2.2300e-003	3.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004	0.0000	17.4080	17.4080	5.7000e-004	2.1000e-004	17.4837
Mobile	0.0136	0.0608	0.1633	5.0000e-004	0.0407	5.7000e-004	0.0413	0.0109	5.4000e-004	0.0114	0.0000	46.2825	46.2825	2.6100e-003	0.0000	46.3479
Waste						0.0000	0.0000		0.0000	0.0000	0.9155	0.0000	0.9155	0.0541	0.0000	2.2681
Water						0.0000	0.0000		0.0000	0.0000	0.0827	1.7056	1.7883	8.5600e-003	2.1000e-004	2.0663
Total	0.3630	0.0713	0.5051	1.0900e-003	0.0407	0.0446	0.0853	0.0109	0.0446	0.0555	5.1300	67.1775	72.3075	0.0697	7.4000e-004	74.2724

	ROG	NOx	CO	SO2	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**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/3/2018	1/9/2018	5	5	
2	Grading	Grading	1/10/2018	3/6/2018	5	40	
3	Paving	Paving	3/7/2018	3/16/2018	5	8	
4	Building Construction	Building Construction	3/17/2018	8/3/2018	5	100	
5	Architectural Coating	Architectural Coating	5/1/2018	8/3/2018	5	69	

Acres of Grading (Site Preparation Phase): 53

Acres of Grading (Grading Phase): 53

Acres of Paving: 0

Residential Indoor: 40,500; Residential Outdoor: 13,500; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Bore/Drill Rigs	1	2.00	221	0.50
Grading	Crushing/Proc. Equipment	1	2.00	85	0.78
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Building Construction	Cranes	1	1.00	231	0.29
Building Construction	Forklifts	1	3.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	1.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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3.2 Site Preparation - 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					
Fugitive Dust					0.0432	0.0000	0.0432	0.0113	0.0000	0.0113	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.5800e-003	0.0380	0.0168	3.0000e-005		1.9900e-003	1.9900e-003		1.8300e-003	1.8300e-003	0.0000	2.6602	2.6602	8.3000e-004	0.0000	2.6809
Total	3.5800e-003	0.0380	0.0168	3.0000e-005	0.0432	1.9900e-003	0.0452	0.0113	1.8300e-003	0.0131	0.0000	2.6602	2.6602	8.3000e-004	0.0000	2.6809

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	4.0000e-005	4.1000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0965	0.0965	0.0000	0.0000	0.0966
Total	5.0000e-005	4.0000e-005	4.1000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0965	0.0965	0.0000	0.0000	0.0966

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3.2 Site Preparation - 2018**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					0.0432	0.0000	0.0432	0.0113	0.0000	0.0113	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.5800e-003	0.0380	0.0168	3.0000e-005		1.9900e-003	1.9900e-003		1.8300e-003	1.8300e-003	0.0000	2.6602	2.6602	8.3000e-004	0.0000	2.6809
Total	3.5800e-003	0.0380	0.0168	3.0000e-005	0.0432	1.9900e-003	0.0452	0.0113	1.8300e-003	0.0131	0.0000	2.6602	2.6602	8.3000e-004	0.0000	2.6809

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	5.0000e-005	4.0000e-005	4.1000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0965	0.0965	0.0000	0.0000	0.0966
Total	5.0000e-005	4.0000e-005	4.1000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0965	0.0965	0.0000	0.0000	0.0966

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3.3 Grading - 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					
Fugitive Dust					0.1485	0.0000	0.1485	0.0692	0.0000	0.0692	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0439	0.4900	0.2050	4.5000e-004		0.0228	0.0228		0.0211	0.0211	0.0000	40.7345	40.7345	0.0120	0.0000	41.0350
Total	0.0439	0.4900	0.2050	4.5000e-004	0.1485	0.0228	0.1714	0.0692	0.0211	0.0904	0.0000	40.7345	40.7345	0.0120	0.0000	41.0350

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1100e-003	8.8000e-004	8.4400e-003	2.0000e-005	2.0800e-003	2.0000e-005	2.1000e-003	5.5000e-004	1.0000e-005	5.7000e-004	0.0000	2.0066	2.0066	7.0000e-005	0.0000	2.0084
Total	1.1100e-003	8.8000e-004	8.4400e-003	2.0000e-005	2.0800e-003	2.0000e-005	2.1000e-003	5.5000e-004	1.0000e-005	5.7000e-004	0.0000	2.0066	2.0066	7.0000e-005	0.0000	2.0084

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3.3 Grading - 2018**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					0.1485	0.0000	0.1485	0.0692	0.0000	0.0692	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0439	0.4900	0.2050	4.5000e-004		0.0228	0.0228		0.0211	0.0211	0.0000	40.7345	40.7345	0.0120	0.0000	41.0349
Total	0.0439	0.4900	0.2050	4.5000e-004	0.1485	0.0228	0.1714	0.0692	0.0211	0.0904	0.0000	40.7345	40.7345	0.0120	0.0000	41.0349

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	1.1100e-003	8.8000e-004	8.4400e-003	2.0000e-005	2.0800e-003	2.0000e-005	2.1000e-003	5.5000e-004	1.0000e-005	5.7000e-004	0.0000	2.0066	2.0066	7.0000e-005	0.0000	2.0084
Total	1.1100e-003	8.8000e-004	8.4400e-003	2.0000e-005	2.0800e-003	2.0000e-005	2.1000e-003	5.5000e-004	1.0000e-005	5.7000e-004	0.0000	2.0066	2.0066	7.0000e-005	0.0000	2.0084

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3.4 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	3.2900e-003	0.0350	0.0296	5.0000e-005		1.9100e-003	1.9100e-003		1.7600e-003	1.7600e-003	0.0000	4.1623	4.1623	1.3000e-003	0.0000	4.1947
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.2900e-003	0.0350	0.0296	5.0000e-005		1.9100e-003	1.9100e-003		1.7600e-003	1.7600e-003	0.0000	4.1623	4.1623	1.3000e-003	0.0000	4.1947

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	1.1000e-004	1.0400e-003	0.0000	2.6000e-004	0.0000	2.6000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2470	0.2470	1.0000e-005	0.0000	0.2472
Total	1.4000e-004	1.1000e-004	1.0400e-003	0.0000	2.6000e-004	0.0000	2.6000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2470	0.2470	1.0000e-005	0.0000	0.2472

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3.4 Paving - 2018**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	3.2900e-003	0.0350	0.0296	5.0000e-005		1.9100e-003	1.9100e-003		1.7600e-003	1.7600e-003	0.0000	4.1623	4.1623	1.3000e-003	0.0000	4.1947
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.2900e-003	0.0350	0.0296	5.0000e-005		1.9100e-003	1.9100e-003		1.7600e-003	1.7600e-003	0.0000	4.1623	4.1623	1.3000e-003	0.0000	4.1947

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	1.4000e-004	1.1000e-004	1.0400e-003	0.0000	2.6000e-004	0.0000	2.6000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2470	0.2470	1.0000e-005	0.0000	0.2472
Total	1.4000e-004	1.1000e-004	1.0400e-003	0.0000	2.6000e-004	0.0000	2.6000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2470	0.2470	1.0000e-005	0.0000	0.2472

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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	0.0659	0.4770	0.4210	6.6000e-004		0.0311	0.0311		0.0301	0.0301	0.0000	55.9931	55.9931	9.5500e-003	0.0000	56.2318
Total	0.0659	0.4770	0.4210	6.6000e-004		0.0311	0.0311		0.0301	0.0301	0.0000	55.9931	55.9931	9.5500e-003	0.0000	56.2318

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.7000e-004	1.6200e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3859	0.3859	1.0000e-005	0.0000	0.3862
Total	2.1000e-004	1.7000e-004	1.6200e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3859	0.3859	1.0000e-005	0.0000	0.3862

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3.5 Building Construction - 2018**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	0.0659	0.4770	0.4210	6.6000e-004		0.0311	0.0311		0.0301	0.0301	0.0000	55.9930	55.9930	9.5500e-003	0.0000	56.2317
Total	0.0659	0.4770	0.4210	6.6000e-004		0.0311	0.0311		0.0301	0.0301	0.0000	55.9930	55.9930	9.5500e-003	0.0000	56.2317

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.7000e-004	1.6200e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3859	0.3859	1.0000e-005	0.0000	0.3862
Total	2.1000e-004	1.7000e-004	1.6200e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3859	0.3859	1.0000e-005	0.0000	0.3862

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3.6 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	0.1877					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0103	0.0692	0.0640	1.0000e-004		5.1900e-003	5.1900e-003		5.1900e-003	5.1900e-003	0.0000	8.8087	8.8087	8.4000e-004	0.0000	8.8297
Total	0.1980	0.0692	0.0640	1.0000e-004		5.1900e-003	5.1900e-003		5.1900e-003	5.1900e-003	0.0000	8.8087	8.8087	8.4000e-004	0.0000	8.8297

Unmitigated Construction Off-Site

[illegible]

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3.6 Architectural Coating - 2018**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1877					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0103	0.0692	0.0640	1.0000e-004		5.1900e-003	5.1900e-003		5.1900e-003	5.1900e-003	0.0000	8.8087	8.8087	8.4000e-004	0.0000	8.8297
Total	0.1980	0.0692	0.0640	1.0000e-004		5.1900e-003	5.1900e-003		5.1900e-003	5.1900e-003	0.0000	8.8087	8.8087	8.4000e-004	0.0000	8.8297

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

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4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0136	0.0608	0.1633	5.0000e-004	0.0407	5.7000e-004	0.0413	0.0109	5.4000e-004	0.0114	0.0000	46.2825	46.2825	2.6100e-003	0.0000	46.3479
Unmitigated	0.0136	0.0608	0.1633	5.0000e-004	0.0407	5.7000e-004	0.0413	0.0109	5.4000e-004	0.0114	0.0000	46.2825	46.2825	2.6100e-003	0.0000	46.3479

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	38.08	39.64	34.48	107,898	107,898
Total	38.08	39.64	34.48	107,898	107,898

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	41.60	18.80	39.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.581689	0.044135	0.186694	0.113515	0.018244	0.005600	0.015197	0.022573	0.001888	0.002088	0.006279	0.000742	0.001357

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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	11.3261	11.3261	4.6000e-004	9.0000e-005	11.3656
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	11.3261	11.3261	4.6000e-004	9.0000e-005	11.3656
NaturalGas Mitigated	6.1000e-004	5.2500e-003	2.2300e-003	3.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004	0.0000	6.0819	6.0819	1.2000e-004	1.1000e-004	6.1180
NaturalGas Unmitigated	6.1000e-004	5.2500e-003	2.2300e-003	3.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004	0.0000	6.0819	6.0819	1.2000e-004	1.1000e-004	6.1180

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5.2 Energy by Land Use - NaturalGas**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	113970	6.1000e-004	5.2500e-003	2.2300e-003	3.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004	0.0000	6.0819	6.0819	1.2000e-004	1.1000e-004	6.1180
Total		6.1000e-004	5.2500e-003	2.2300e-003	3.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004	0.0000	6.0819	6.0819	1.2000e-004	1.1000e-004	6.1180

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	113970	6.1000e-004	5.2500e-003	2.2300e-003	3.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004	0.0000	6.0819	6.0819	1.2000e-004	1.1000e-004	6.1180
Total		6.1000e-004	5.2500e-003	2.2300e-003	3.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004	0.0000	6.0819	6.0819	1.2000e-004	1.1000e-004	6.1180

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5.3 Energy by Land Use - Electricity**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	34656.7	11.3261	4.6000e-004	9.0000e-005	11.3656
Total		11.3261	4.6000e-004	9.0000e-005	11.3656

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	34656.7	11.3261	4.6000e-004	9.0000e-005	11.3656
Total		11.3261	4.6000e-004	9.0000e-005	11.3656

6.0 Area Detail**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3488	5.2500e-003	0.3397	5.6000e-004		0.0436	0.0436		0.0436	0.0436	4.1318	1.7813	5.9132	3.8600e-003	3.2000e-004	6.1065
Unmitigated	0.3488	5.2500e-003	0.3397	5.6000e-004		0.0436	0.0436		0.0436	0.0436	4.1318	1.7813	5.9132	3.8600e-003	3.2000e-004	6.1065

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	0.0188					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0781					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.2510	4.9000e-003	0.3098	5.6000e-004		0.0434	0.0434		0.0434	0.0434	4.1318	1.7328	5.8647	3.8100e-003	3.2000e-004	6.0568
Landscaping	9.1000e-004	3.5000e-004	0.0299	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0485	0.0485	5.0000e-005	0.0000	0.0497
Total	0.3488	5.2500e-003	0.3397	5.6000e-004		0.0436	0.0436		0.0436	0.0436	4.1318	1.7814	5.9132	3.8600e-003	3.2000e-004	6.1066

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6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0188					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0781					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.2510	4.9000e-003	0.3098	5.6000e-004		0.0434	0.0434		0.0434	0.0434	4.1318	1.7328	5.8647	3.8100e-003	3.2000e-004	6.0568
Landscaping	9.1000e-004	3.5000e-004	0.0299	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0485	0.0485	5.0000e-005	0.0000	0.0497
Total	0.3488	5.2500e-003	0.3397	5.6000e-004		0.0436	0.0436		0.0436	0.0436	4.1318	1.7814	5.9132	3.8600e-003	3.2000e-004	6.1066

7.0 Water Detail**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1.7883	8.5600e-003	2.1000e-004	2.0663
Unmitigated	1.7883	8.5600e-003	2.1000e-004	2.0663

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	0.260616 / 0.164301	1.7883	8.5600e-003	2.1000e-004	2.0663
Total		1.7883	8.5600e-003	2.1000e-004	2.0663

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7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	0.260616 / 0.164301	1.7883	8.5600e-003	2.1000e-004	2.0663
Total		1.7883	8.5600e-003	2.1000e-004	2.0663

8.0 Waste Detail**8.1 Mitigation Measures Waste****Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.9155	0.0541	0.0000	2.2681
Unmitigated	0.9155	0.0541	0.0000	2.2681

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8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	4.51	0.9155	0.0541	0.0000	2.2681
Total		0.9155	0.0541	0.0000	2.2681

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	4.51	0.9155	0.0541	0.0000	2.2681
Total		0.9155	0.0541	0.0000	2.2681

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation
