

Appendix D

Air Quality/GHG Calculations

Appendix D

Air Quality and Greenhouse Gas Thresholds and Modeling Outputs

Substantial Evidence for Analysis Thresholds

Local Air District Thresholds for Criteria Pollutants and TACs

The following section summarizes the County's thresholds and presents substantial evidence regarding the basis upon which they were developed. It also describes how the thresholds are used to determine whether Project construction and operational emissions would result in either of the following:

- Interfere or impede with attainment of State or federal ambient air quality standards (CAAQS and NAAQS, respectively); or
- Cause increased risk to human health.

Regional Thresholds for Air Basin Attainment of State and Federal Ambient Air Quality Standards

Although SDAPCD has not developed specific thresholds of significance to evaluate construction and operational impacts within CEQA documents, SDAPCD's Regulation II, Rules 20.2 and 20.3 (new source review for non-major and major stationary sources, respectively), outline AQIA Trigger Levels for criteria pollutants for new or modified sources. Based on SDAPCD's AQIA Trigger Levels, as well as EPA rulemaking and CEQA thresholds adopted by the South Coast Air Quality Management District (SCAQMD), the County has established screening level thresholds (SLTs) to assist lead agencies in determining the significance of project-level air quality impacts within the county. Emissions in excess of the County's SLTs, shown in Table C-1, would be expected to have a significant impact on air quality because an exceedance of the SLTs is anticipated to contribute to CAAQS and NAAQS violations in the county.

Table C-1. Applicable San Diego County Screening Level Thresholds

Air Contaminant	Emissions Rate		
	Pounds/Hr	Pounds/Day	Tons/Year
Particulate Matter (PM ₁₀)	—	100	15
Fine Particulate Matter (PM _{2.5}) ^a	—	55	10
Oxides of Nitrogen (NO _x)	25	250	40
Oxides of Sulfur (SO _x)	25	250	40
Carbon Monoxide (CO)	100	550	100
Reactive Organic Compounds (ROG) ^b	—	75	13.7
Notes			
^a The AQIA does not include trigger levels for PM _{2.5} . The County recommends using the EPA's "Proposed Rule to Implement the Fine Particle National Ambient Air Quality Standards" published September 8, 2005 as a threshold of significance. This threshold is also used by the SCAQMD.			
^b The AQIA does not include trigger levels for ROG. The SDAPCD recommends using thresholds established by the SCAQMD, which has similar federal and state attainment status as San Diego.			
Source: SDAPCD Regulation II, Rule 20.2			

Health-Based Thresholds for Project-Generated Pollutants of Human Health Concern

As discussed above, all criteria pollutants are associated with some form of health risk (e.g., asthma, asphyxiation). Adverse health effects associated with criteria pollutant emissions are highly dependent on a multitude of interconnected variables (e.g., cumulative concentrations, local meteorology and atmospheric conditions, as well as the number and character of exposed individuals [e.g., age, gender]). Moreover, ozone precursors (ROG and NO_x) affect air quality on a regional scale. Health effects related to ozone are therefore the product of emissions generated by numerous sources throughout a region. Existing models have limited sensitivity to small changes in criteria pollutant concentrations, and, as such, translating Project-generated criteria pollutants to specific health effects would produce meaningless results. In other words, minor increases in regional air pollution from Project-generated ROG and NO_x would have nominal or negligible impacts on human health.¹

As such, an analysis of impacts on human health associated with Project-generated regional emissions is not included in the Project-level analysis. Increased emissions of ozone precursors (ROG and NO_x) generated by the Project could increase photochemical reactions and the formation of tropospheric ozone, which at certain concentrations, could lead to respiratory symptoms (e.g., coughing), decreased lung function, and inflammation of airways. Although these health effects are associated with ozone, the impacts are a result of cumulative and regional ROG and NO_x emissions, and the incremental contribution of the Project to specific health outcomes from criteria pollutant emissions would be limited and cannot be solely traced to the Project.

Because localized pollutants generated by a Project can directly affect adjacent sensitive receptors, the analysis of Project-related impacts on human health focuses only on those localized pollutants with the greatest potential to result in a significant, material impact on human health. This is consistent with the current state-of-practice and published guidance by the California Air Pollution

¹ As an example, the Bay Area Air Quality Management District's (BAAQMD) Multi-Pollutant Evaluation Method (MPEM) requires a 3 to 5 percent increase in regional ozone precursors to produce a material change in modeled human health impacts. Based on 2008 ROG and NO_x emissions in the Bay Area, a 3 to 5 percent increases equates to over 20,000 pounds per day of ROG and NO_x.

Control Officers Association (2009), Office of Environmental Health Hazard Assessment (2015), and ARB (2005). These pollutants are locally concentrated CO and DPM. SDAPCD thresholds of significance for each pollutant are discussed below.

Localized Carbon Monoxide Concentrations

Heavy traffic congestion can contribute to high levels of CO, and individuals exposed to such hot spots may have a greater likelihood of developing adverse health effects. The County has adopted screening criteria that provide a conservative indication of whether Project-generated traffic would cause a potential CO hot spot. If the screening criteria are not met, a quantitative analysis through site-specific dispersion modeling of Project-related CO concentrations would not be necessary, and the Project would not cause localized violations of CO CAAQS. The County's CO screening criteria are summarized below.

- The Project would not place sensitive receptors within 500 feet of a signalized intersection operating at or below LOS E (peak-hour trips exceeding 3,000 trips).
- The project would not cause road intersections to operate at or below a LOS E (with intersection peak-hour trips exceeding 3,000)

Diesel Particulate Matter

DPM is a form of PM (see above) that is generated by diesel equipment and vehicle exhaust. DPM has been identified as a TAC and is particularly concerning because long-term exposure can lead to cancer, birth defects, and damage to the brain and nervous system.² The County has adopted incremental cancer threshold to evaluate receptor exposure to single sources of DPM emissions. The "substantial" DPM threshold defined by the County is exposure of a sensitive receptor to an individual emissions source resulting in an excess cancer risk level of more than 1 in 10 million or a non-cancer (i.e., chronic or acute) hazard index (HI) greater than 1.0.

Thresholds for Greenhouse Gases

The State CEQA Guidelines provide guidance to lead agencies for determining the significance of project-level GHG emissions. Section 15064.4(b) provides that, when assessing the significance of impacts from GHG emissions, a lead agency should consider all of the following.

- The extent to which the project may increase or reduce GHG emissions as compared with existing conditions.
- Whether the project's GHG emissions exceed a threshold of significance that the lead agency determines applies to the project.

² Other potential TACs that may be of concern for the Project include vehicle emissions-related TACs, such as acetaldehyde, benzene, 1,3-butadiene, ethylbenzene, formaldehyde, and naphthalene. While emissions of these TACs may be generated, DPM is the primary TAC of concern—of all controlled TACs, emissions of DPM are estimated to be responsible for about 70 percent of the total ambient TAC risk. Given the risks associated with DPM, tools and factors for evaluating human health impacts from Project-generated DPM have been developed and are readily available. Conversely, tools and techniques for assessing Project-specific health outcomes as a result of exposure to other TAC (e.g., benzene) remain limited. These limitations impede the ability to evaluate and precisely quantify potential public health risks posed by TAC exposure.

- The extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions.

A number of expert lead agencies throughout the state have drafted and/or adopted varying threshold approaches and guidelines for analyzing GHG emissions in CEQA documents. The different thresholds include (1) compliance with a qualified GHG reduction plan, (2) numeric “bright-line” thresholds, (3) performance-based reductions,³ and (4) efficiency-based thresholds. The California Supreme Court decision⁴ in the *Centers for Biological Diversity et al. vs. California Department of Fish and Wildlife, the Newhall Land and Farming Company* (November 30, 2015, Case No. S217763) (hereafter Newhall Ranch) confirmed that while efforts at framing GHG significance issues have not yet coalesced into any widely accepted set of numerical significance thresholds, a range of alternative approaches do exist, and when an “agency chooses to rely completely on a single quantitative method to justify a no-significance finding, CEQA demands the agency research and document the quantitative parameters essential to that method.”

Consistent with the Newhall Ranch decision, the following sections discuss each of the four existing operational GHG threshold approach options, and analyze their applicability to the proposed project. All options are based on AB 32’s requirement to reduce statewide GHG emissions from both existing and new development to 1990 levels by 2020. Moreover, while the Newhall Ranch holding did not rule on whether a post-2020 climate change analysis is required for CEQA documents, the Court did state that consistency with 2020 goals will become a less definitive guide over time and consistency with long-term emission reduction targets may be needed in the near future. Long-term multi-phase projects should demonstrate “substantial progress” along a trajectory towards post-2020 targets, but most single-phase land use projects can continue to rely on the current 2020 thresholds (Association of Environmental Professionals 2015).

The following discusses each applicable approach and analyzes its specific applicability to the project.

Compliance with a Qualified GHG Reduction Plan. Under this approach, a qualified plan may be used in the cumulative impact analysis for later projects when the analysis “identifies those requirements specified in the plan that apply to the project.” For a GHG reduction plan to be considered a qualified plan, it must meet certain criteria established under Section 15183.5 (b) and 15064.4, also specified above. Consequently, if a project is consistent with a local CAP that was created to meet AB 32’s GHG targets, then the project would be considered consistent with statewide GHG reduction goals for 2020. Additionally, if a CAP was adopted that was consistent with the State’s overall goals for post-2020, including the downward trajectory as clarified in EO B-30-15 and EO S-03-05, and a project is consistent with that CAP, it would be considered consistent with the State’s post-2020 GHG emission strategy. Section 15183.5 also specifies that the project’s CEQA analysis “must identify those requirements specified in the plan that apply to the project, and, if those requirements are not otherwise binding and enforceable, incorporate those requirements as mitigation measures applicable to the project.”

³ Performance-based reductions include the “percent below Business as Usual” threshold approach, which has been used widely in the past. This approach was the subject of the Newhall Ranch case and presently is subject to uncertainty until the issues raised in the Supreme Court ruling are resolved.

⁴ It should be noted that the defendants in the Newhall Ranch case have requested a rehearing from the California Supreme Court on a number of grounds. If the Supreme Court decides to rehear the case, it is possible that the ruling may change.

The County currently does not have a CAP that qualifies for tiering per Section 15183.5 of the State CEQA Guidelines. Therefore, this is not a viable approach for the proposed project. SB 375 allows for certain levels of streamlined GHG review and analysis for certain residential and mixed-use projects that are consistent with relevant SCS; in this case, SANDAG's recently-adopted RTP/SCS. Projects eligible for this streamlining can "tier" off the RTP/SCS EIR for CEQA purposes. However, the project is not a residential or mixed-use project and is therefore not qualified for tiering. Based on the above discussion, compliance with a qualified GHG reduction plan is not a viable approach for analyzing the proposed project.

Numeric Bright-Line. In general, the bright-line thresholds identify the point at which additional analysis and mitigation of project-related GHG emission impacts is necessary. Currently, all bright-line thresholds have been developed for commercial, residential projects, or stationary sources. Commercial and residential bright-line thresholds are typically based on a capture rate and a gap analysis,⁵ which is tied back to AB 32 reduction targets (1990 levels by 2020).⁶ These bright-line thresholds reflect local or regional land use conditions, particularly residential and commercial density and access to transit. For example, the BAAQMD's bright-line threshold captures land use conditions present in the Bay Area at the time of analysis, and does not necessarily reflect conditions in other areas of the state, including within the County, that may display varying land use patterns and density. There is no bright-line thresholds that have been formally adopted in the San Diego region. The County (2015) previously recommended an interim 900 metric ton CO₂e screening level as a theoretical approach to identify projects that require further analysis and potential mitigation. The screening level is based on the CAPCOA white paper (<http://www.capcoa.org/wp-content/uploads/downloads/2010/05/CAPCOA-White-Paper.pdf>) and identifies residential and commercial projects that would result in sufficiently low GHG emissions to be less than cumulatively considerable without mitigation. ~~Some~~ Most of the uses-potential accessory uses, including microbreweries and wineries, would result in emissions similar to commercial and retail uses. Therefore, this is a viable threshold approach to determine significance for the various uses proposed by the ordinance change.

Performance-Based Reductions. Performance-based thresholds are based on a percentage reduction from a projected future condition. For example, reducing future BAU emissions by the AB 32 target of 29% (below 2020 BAU levels) through a combination of state measures, project design features (e.g., renewable energy), or mitigation is a performance-based threshold. The performance-based approach is based on the project's reduction in emissions from an unmitigated condition. Other lead agencies have adopted performance-based targets that are all tied to the AB 32 target of achieving 1990 levels by 2020, but the prescribed percentage reduction can vary depending on the version of the Scoping Plan and targets therein that were used. For example, San Joaquin Valley Air Pollution Control District recommends a 29% reduction, which is based on the 2008 Scoping Plan, while Sacramento Metropolitan Air Quality Management District previously recommended a 21.7% reduction from a projected no action taken (NAT) scenario,⁷ which is based on the 2011 re-adopted Scoping Plan, whose emission targets vary slightly from 2008 to account for revised estimates for future fuel and energy demand.

The County's previously recommended approach was, for projects that exceeded the numeric screening level (described above), to demonstrate that a project's mitigated emissions would reduce

⁵ The gap analysis demonstrates the reductions needed at the residential and commercial land use levels to achieve state targets. Capture is the process of estimating the portion of projects that would result in emissions that exceed a significance threshold and would be subject to mitigation.

⁶ The AB 32 scoping plan identifies specific measures to reduce GHG emissions to 1990 levels by 2020.

⁷ The NAT scenario does not include any state regulations designed to reduce GHG emissions, including improvements to the Title 24 standards, RPS, LCFS, or Pavley Rules.

GHG emissions by at least 16% relative to unmitigated levels. This level was deemed to represent a project's fair share since the project would be reducing potential GHG emissions at the same rate as necessary throughout the state to achieve the AB 32 emissions reduction target. However, with the Newhall Ranch ruling, relating a given project to the achievement of state reduction targets requires adjustments to ARB's statewide BAU model not only to isolate new development emissions but also to consider unique geographic conditions that would be required to use the BAU performance-based methodology. The primary value of a performance-based target, as indicated by the Court, is that it can provide a scenario by which to evaluate the effectiveness of a project's efficiency and conservation measures to reduce GHG emissions. Unfortunately, the County's previous 16% reduction target was based solely on ARB's statewide model and does neither isolates new development emissions nor considers geographic conditions unique to the County as a whole. The County is currently updating its CAP, which will set new reduction targets in light of the recommended in the Newhall Ranch case. In the meantime, a quantitative comparison to the same level of statewide reduction is insufficient and use of a performance-based BAU approach is not a viable option at this point.

Efficiency-Based. Efficiency-based thresholds are quantitative thresholds that are based on a measurement of GHG efficiency for a project and are based on the GHG efficiency needed to achieve reduction targets from the land use sector. Efficiency-based thresholds consider the GHG reduction measures integrated into a project's design and operation (or through mitigation), and is based on the net increase in emissions, but the significance conclusion is not based on the magnitude of the increase in mass emissions, but rather the efficiency of those emissions. Efficiency-based thresholds are typically calculated by dividing emissions associated with residential and commercial uses (also termed the "land use sector" in the Scoping Plan) within the state (or a certain geographic area) by the sum of jobs and residents within the same geography. The sum of jobs and residents is called the "service population," and a project's service population is defined as the people that work and live within the project site. Use of an efficiency-based approach is not a viable in that the number of jobs is difficult to estimate and no residential uses are proposed. Therefore, the efficiency-based methodology is not used for the proposed project analysis.

Compliance with Promulgated Regulatory Programs. Another approach for determining whether a project would result in significant GHG emission impacts is an analysis of whether a proposed project was in compliance with regulatory programs designed to reduce GHG emissions from particular activities. To the extent a project complies with or exceeds those programs adopted by ARB or other state agencies, a lead agency could rely on this compliance to show less-than-significant impacts. However, such analysis is only applicable within the area governed by the regulations. For example, consistency with regulations addressing building efficiency would not suffice to determine that the project would not have significant GHG emissions from transportation. The proposed project's compliance with regulatory programs adopted by ARB or other state agencies is used, in part, for the proposed project's GHG emission analysis. Moreover, a lead agency could assess project-level consistency with AB 32 in whole or part by looking to compliance with regulatory programs designed to implement AB 32. To the extent a project's design features comply with or exceed the regulations outlined in the Scoping Plan and adopted by ARB or other state agencies, a lead agency could appropriately rely on their use as showing compliance with performance-based standards adopted to fulfill the statewide goal for reducing GHG emissions. Additionally, a lead agency could also assess project-level consistency with the targets in the EO's and with current planning for the post-2020 period or substantial progress toward these goals over time. At present, the regulatory framework to achieve the 2030 target is in its infancy and is not

sufficiently robust to support a consistency argument, but consistency with the targets is nevertheless a potential and viable approach for the project.

Threshold Approach

There are multiple potential thresholds and methodologies for evaluating plan- and project-level GHG emissions consistent with CEQA, depending on the circumstances of a given project. While efforts at framing GHG significance issues have not yet coalesced into any widely accepted set of numerical significance thresholds, a range of alternative approaches do exist.

Given the recent legislative attention and judicial action⁸ regarding post-2020 goals and the scientific evidence that additional GHG reductions are needed through 2050 to stabilize CO₂ concentrations, the Association of Environmental Professionals' Climate Change Committee (2015) recommended in its *Beyond 2020* white paper that CEQA analyses for most land use development projects can continue to rely on current thresholds for the immediate future⁹, but that long-term projects should consider "post-2020 emissions consistent with 'substantial progress' along a post-2020 reduction trajectory toward meeting the 2050 target." The *Beyond 2020* white paper further recommends that the "significance determination...should be based on consistency with 'substantial progress' along a post-2020 trajectory." Accordingly, project-related impacts in both near-term 2020 and long-term post-2020 periods are considered in this analysis using the threshold concepts summarized below.

Construction Emissions

Emissions during construction are generally considered short-term. Previous County guidance recommended construction emissions be amortized over the expected (long-term) operational life of a project and added to annual operational emissions. The County's most recent guidance was to assume the operational life was 20 years, unless evidence is provided demonstrating a longer or shorter project life. Therefore, in order to assess construction-related emissions, emissions from construction are amortized over a 20 year period and added to operational emissions in order to make a single significance determination.

Operational Emissions

Based on the available threshold concepts recommended by expert agencies and recognized by the courts, the assessment herein analyses uses a tiered approach in analyzing GHG emissions. GHG emissions are first compared with the County's recommended 900 metric tons CO₂e screening level as the criterion for determining projects that require further analysis and mitigation with regard to GHG emissions and climate change. If emissions exceed this screening level, then further analysis is needed. The County's previously-recommended approach was to demonstrate the project's consistent with the AB 32 reduction target using a performance standard (16% below BAU). However, the County no longer recommends this approach consistent with the direction from recent case law. Accordingly, the County's 900 metric ton CO₂e screening level is conservatively used as definitive bright-line thresholds for defining potentially significant impacts.

⁸ See the California Appellate Court, 4th District ruling in *Sierra Club vs. County of San Diego* (2014) 231 Cal.App.4th 1152.

⁹ With the notable exception of the "percent below Business as Usual" approach with the recent Supreme Court Newhall Ranch ruling as described above.

References Cited

Association of Environmental Professionals' Climate Change Committee. 2015. Beyond 2020: The Challenges of Greenhouse Gas Reduction Planning by Local Governments in California. March.

California Air Resources Board. 2005. Air Quality and Land Use Handbook. April.

California Air Pollution Control Officers Association. 2009. Health Risk Assessments for Proposed Land Use Projects. CAPCOA Guidance Document. Available: <http://www.capcoa.org/>. July.

County of San Diego. 2015. Recommended Approach to Addressing Climate Change in CEQA Documents. January.

Office of Environmental Health Hazard Assessment. 2015. Air Toxics Hot Spots Program Guidance Manual for the Preparation of Health Risk Assessments. March.

CalEEMod Outputs

Aq Store Project

San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Convenience Market (24 Hour)	3.00	1000sqft	0.07	3,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	10			Operational Year	2018

Utility Company San Diego Gas & Electric

CO2 Intensity	648	CH4 Intensity	0.02	N2O Intensity	0.004
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - Adjusted RPS Emission Factor

Land Use - Representative Project; values based on maximum floor areas and acreages allowed under the draft Zoning Ordinance revisions.

Construction Phase -

Vehicle Trips - Trip generation per Chen Ryan; trip length per County's Transportation Impact Fee.

Table Name	Column Name	Default Value	New Value
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.02
tblProjectCharacteristics	CO2IntensityFactor	720.49	648
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblProjectCharacteristics	OperationalYear	2014	2018
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	CC_TL	6.60	9.00
tblVehicleTrips	CNW_TL	6.60	9.00
tblVehicleTrips	CW_TL	14.70	9.00
tblVehicleTrips	ST_TR	863.10	40.00
tblVehicleTrips	SU_TR	758.45	40.00
tblVehicleTrips	WD_TR	737.99	40.00

2.0 Emissions Summary

2.1 Overall Construction

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2017	0.1041	0.6812	0.4430	6.3000e-	2.3600e-	0.0458	0.0482	8.0000e-	0.0422	0.0430	0.0000	58.3548	58.3548	0.0173	0.0000	58.7173
Total	0.1041	0.6812	0.4430	6.3000e-	2.3600e-	0.0458	0.0482	8.0000e-	0.0422	0.0430	0.0000	58.3548	58.3548	0.0173	0.0000	58.7173

2.2 Overall Operational

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0152	0.0000	3.0000e-	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.0000e-	5.0000e-	0.0000	0.0000	6.0000e-
Energy	4.0000e-	3.4000e-	2.9000e-	0.0000		3.0000e-	3.0000e-		3.0000e-	3.0000e-	0.0000	14.1801	14.1801	4.3000e-	9.0000e-	14.2178
Mobile	0.0558	0.0742	0.4079	6.5000e-	0.0420	8.6000e-	0.0429	0.0112	8.0000e-	0.0120	0.0000	47.9654	47.9654	2.2100e-	0.0000	48.0117
Waste						0.0000	0.0000		0.0000	0.0000	1.8310	0.0000	1.8310	0.1082	0.0000	4.1033
Water						0.0000	0.0000		0.0000	0.0000	0.0705	1.2952	1.3657	7.2800e-	1.8000e-	1.5740
Total	0.0710	0.0746	0.4082	6.5000e-	0.0420	8.9000e-	0.0429	0.0112	8.3000e-	0.0121	1.9015	63.4408	65.3423	0.1181	2.7000e-	67.9069

3.0 Construction Detail

Construction Phase

Phase	Phase Name	Phase Type	Start Date	End Date	Num Days	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2017	1/2/2017	5	1	
2	Grading	Grading	1/3/2017	1/4/2017	5	2	
3	Building Construction	Building Construction	1/5/2017	5/24/2017	5	100	
4	Paving	Paving	5/25/2017	5/31/2017	5	5	
5	Architectural Coating	Architectural Coating	6/1/2017	6/7/2017	5	5	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Site Preparation	Graders	1	8.00	174	0.41
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Grading	Rubber Tired Dozers	1	1.00	255	0.40

Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment	Worker Trip	Vendor Trip	Hauling Trip	Worker Trip	Vendor Trip	Hauling Trip	Worker Vehicle	Vendor	Hauling
Site Preparation	2	5.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	1.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.2 Site Preparation - 2017
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-	0.0000	2.7000e-	3.0000e-	0.0000	3.0000e-	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.3000e-	6.3400e-	3.6200e-	0.0000		3.9000e-	3.9000e-		3.5000e-	3.5000e-	0.0000	0.4336	0.4336	1.3000e-	0.0000	0.4364
Total	6.3000e-	6.3400e-	3.6200e-	0.0000	2.7000e-	3.9000e-	6.6000e-	3.0000e-	3.5000e-	3.8000e-	0.0000	0.4336	0.4336	1.3000e-	0.0000	0.4364

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	1.0000e-	2.0000e-	1.4000e-	0.0000	3.0000e-	0.0000	3.0000e-	1.0000e-	0.0000	1.0000e-	0.0000	0.0277	0.0277	0.0000	0.0000	0.0277
Total	1.0000e-	2.0000e-	1.4000e-	0.0000	3.0000e-	0.0000	3.0000e-	1.0000e-	0.0000	1.0000e-	0.0000	0.0277	0.0277	0.0000	0.0000	0.0277

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-	0.0000	2.7000e-	3.0000e-	0.0000	3.0000e-	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.3000e-	6.3400e-	3.6200e-	0.0000		3.9000e-	3.9000e-		3.5000e-	3.5000e-	0.0000	0.4336	0.4336	1.3000e-	0.0000	0.4364
Total	6.3000e-	6.3400e-	3.6200e-	0.0000	2.7000e-	3.9000e-	6.6000e-	3.0000e-	3.5000e-	3.8000e-	0.0000	0.4336	0.4336	1.3000e-	0.0000	0.4364

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
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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	1.0000e-	2.0000e-	1.4000e-	0.0000	3.0000e-	0.0000	3.0000e-	1.0000e-	0.0000	1.0000e-	0.0000	0.0277	0.0277	0.0000	0.0000	0.0277
Total	1.0000e-	2.0000e-	1.4000e-	0.0000	3.0000e-	0.0000	3.0000e-	1.0000e-	0.0000	1.0000e-	0.0000	0.0277	0.0277	0.0000	0.0000	0.0277

3.3 Grading - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.5000e-	0.0000	7.5000e-	4.1000e-	0.0000	4.1000e-	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2000e-	0.0105	8.5800e-	1.0000e-		7.3000e-	7.3000e-		6.9000e-	6.9000e-	0.0000	1.0739	1.0739	2.1000e-	0.0000	1.0784
Total	1.2000e-	0.0105	8.5800e-	1.0000e-	7.5000e-	7.3000e-	1.4800e-	4.1000e-	6.9000e-	1.1000e-	0.0000	1.0739	1.0739	2.1000e-	0.0000	1.0784

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-	6.0000e-	5.7000e-	0.0000	1.2000e-	0.0000	1.3000e-	3.0000e-	0.0000	3.0000e-	0.0000	0.1106	0.1106	1.0000e-	0.0000	0.1108
Total	4.0000e-	6.0000e-	5.7000e-	0.0000	1.2000e-	0.0000	1.3000e-	3.0000e-	0.0000	3.0000e-	0.0000	0.1106	0.1106	1.0000e-	0.0000	0.1108

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.5000e-	0.0000	7.5000e-	4.1000e-	0.0000	4.1000e-	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2000e-	0.0105	8.5800e-	1.0000e-		7.3000e-	7.3000e-		6.9000e-	6.9000e-	0.0000	1.0739	1.0739	2.1000e-	0.0000	1.0784
Total	1.2000e-	0.0105	8.5800e-	1.0000e-	7.5000e-	7.3000e-	1.4800e-	4.1000e-	6.9000e-	1.1000e-	0.0000	1.0739	1.0739	2.1000e-	0.0000	1.0784

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-	6.0000e-	5.7000e-	0.0000	1.2000e-	0.0000	1.3000e-	3.0000e-	0.0000	3.0000e-	0.0000	0.1106	0.1106	1.0000e-	0.0000	0.1108
Total	4.0000e-	6.0000e-	5.7000e-	0.0000	1.2000e-	0.0000	1.3000e-	3.0000e-	0.0000	3.0000e-	0.0000	0.1106	0.1106	1.0000e-	0.0000	0.1108

3.4 Building Construction - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0637	0.6337	0.4020	5.7000e-		0.0428	0.0428		0.0394	0.0394	0.0000	52.5954	52.5954	0.0161	0.0000	52.9339
Total	0.0637	0.6337	0.4020	5.7000e-		0.0428	0.0428		0.0394	0.0394	0.0000	52.5954	52.5954	0.0161	0.0000	52.9339

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	1.8000e-	3.1000e-	2.8300e-	1.0000e-	6.2000e-	0.0000	6.3000e-	1.7000e-	0.0000	1.7000e-	0.0000	0.5532	0.5532	3.0000e-	0.0000	0.5537
Total	1.8000e-	3.1000e-	2.8300e-	1.0000e-	6.2000e-	0.0000	6.3000e-	1.7000e-	0.0000	1.7000e-	0.0000	0.5532	0.5532	3.0000e-	0.0000	0.5537

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0637	0.6337	0.4020	5.7000e-		0.0428	0.0428		0.0394	0.0394	0.0000	52.5954	52.5954	0.0161	0.0000	52.9338
Total	0.0637	0.6337	0.4020	5.7000e-		0.0428	0.0428		0.0394	0.0394	0.0000	52.5954	52.5954	0.0161	0.0000	52.9338

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	1.8000e-	3.1000e-	2.8300e-	1.0000e-	6.2000e-	0.0000	6.3000e-	1.7000e-	0.0000	1.7000e-	0.0000	0.5532	0.5532	3.0000e-	0.0000	0.5537
Total	1.8000e-	3.1000e-	2.8300e-	1.0000e-	6.2000e-	0.0000	6.3000e-	1.7000e-	0.0000	1.7000e-	0.0000	0.5532	0.5532	3.0000e-	0.0000	0.5537

3.5 Paving - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.6000e-	0.0246	0.0181	3.0000e-		1.5000e-	1.5000e-		1.3900e-	1.3900e-	0.0000	2.4243	2.4243	6.7000e-	0.0000	2.4384
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.6000e-	0.0246	0.0181	3.0000e-		1.5000e-	1.5000e-		1.3900e-	1.3900e-	0.0000	2.4243	2.4243	6.7000e-	0.0000	2.4384

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
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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	1.6000e-	2.8000e-	2.5400e-	1.0000e-	5.6000e-	0.0000	5.7000e-	1.5000e-	0.0000	1.5000e-	0.0000	0.4979	0.4979	2.0000e-	0.0000	0.4984
Total	1.6000e-	2.8000e-	2.5400e-	1.0000e-	5.6000e-	0.0000	5.7000e-	1.5000e-	0.0000	1.5000e-	0.0000	0.4979	0.4979	2.0000e-	0.0000	0.4984

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.6000e-	0.0246	0.0181	3.0000e-		1.5000e-	1.5000e-		1.3900e-	1.3900e-	0.0000	2.4243	2.4243	6.7000e-	0.0000	2.4384
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.6000e-	0.0246	0.0181	3.0000e-		1.5000e-	1.5000e-		1.3900e-	1.3900e-	0.0000	2.4243	2.4243	6.7000e-	0.0000	2.4384

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	1.6000e-	2.8000e-	2.5400e-	1.0000e-	5.6000e-	0.0000	5.7000e-	1.5000e-	0.0000	1.5000e-	0.0000	0.4979	0.4979	2.0000e-	0.0000	0.4984
Total	1.6000e-	2.8000e-	2.5400e-	1.0000e-	5.6000e-	0.0000	5.7000e-	1.5000e-	0.0000	1.5000e-	0.0000	0.4979	0.4979	2.0000e-	0.0000	0.4984

3.6 Architectural Coating - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0348					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.3000e-	5.4600e-	4.6700e-	1.0000e-		4.3000e-	4.3000e-		4.3000e-	4.3000e-	0.0000	0.6383	0.6383	7.0000e-	0.0000	0.6397
Total	0.0356	5.4600e-	4.6700e-	1.0000e-		4.3000e-	4.3000e-		4.3000e-	4.3000e-	0.0000	0.6383	0.6383	7.0000e-	0.0000	0.6397

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0348					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.3000e-	5.4600e-	4.6700e-	1.0000e-		4.3000e-	4.3000e-		4.3000e-	4.3000e-	0.0000	0.6383	0.6383	7.0000e-	0.0000	0.6397
Total	0.0356	5.4600e-	4.6700e-	1.0000e-		4.3000e-	4.3000e-		4.3000e-	4.3000e-	0.0000	0.6383	0.6383	7.0000e-	0.0000	0.6397

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0558	0.0742	0.4079	6.5000e-	0.0420	8.6000e-	0.0429	0.0112	8.0000e-	0.0120	0.0000	47.9654	47.9654	2.2100e-	0.0000	48.0117
Unmitigated	0.0558	0.0742	0.4079	6.5000e-	0.0420	8.6000e-	0.0429	0.0112	8.0000e-	0.0120	0.0000	47.9654	47.9654	2.2100e-	0.0000	48.0117

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market (24 Hour)	120.00	120.00	120.00	111,755	111,755
Total	120.00	120.00	120.00	111,755	111,755

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Convenience Market (24 Hour)	9.00	9.00	9.00	0.90	80.10	19.00	24	15	61

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.511819	0.073499	0.191840	0.131575	0.036332	0.005186	0.012677	0.022513	0.001864	0.002072	0.006564	0.000601	0.003458

5.0 Energy Detail

5.2 Energy by Land Use - NaturalGas

	NaturalGa	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Convenience	6960	4.0000e-	3.4000e-	2.9000e-	0.0000		3.0000e-	3.0000e-		3.0000e-	3.0000e-	0.0000	0.3714	0.3714	1.0000e-	1.0000e-	0.3737
Total		4.0000e-	3.4000e-	2.9000e-	0.0000		3.0000e-	3.0000e-		3.0000e-	3.0000e-	0.0000	0.3714	0.3714	1.0000e-	1.0000e-	0.3737

5.3 Energy by Land Use - Electricity

	Electricity	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Convenience	46980	13.8087	4.3000e-	9.0000e-	13.8441
Total		13.8087	4.3000e-	9.0000e-	13.8441

6.0 Area Detail

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural	3.4800e-					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer	0.0117					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	3.0000e-	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.0000e-	5.0000e-	0.0000	0.0000	6.0000e-
Total	0.0152	0.0000	3.0000e-	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.0000e-	5.0000e-	0.0000	0.0000	6.0000e-

7.0 Water Detail

	Indoor/Out	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Convenience	0.222218 /	1.3657	7.2800e-	1.8000e-	1.5741
Total		1.3657	7.2800e-	1.8000e-	1.5741

8.0 Waste Detail

	Waste	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Convenience	9.02	1.8310	0.1082	0.0000	4.1033
Total		1.8310	0.1082	0.0000	4.1033

Aq Store Project

San Diego County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Convenience Market (24 Hour)	3.00	1000sqft	0.07	3,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	10			Operational Year	2018

Utility Company San Diego Gas & Electric

CO2 Intensity	648	CH4 Intensity	0.02	N2O Intensity	0.004
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - Adjusted RPS Emission Factor

Land Use - Representative Project; values based on maximum floor areas and acreages allowed under the draft Zoning Ordinance revisions.

Construction Phase -

Vehicle Trips - Trip generation per Chen Ryan; trip length per County's Transportation Impact Fee.

Table Name	Column Name	Default Value	New Value
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.02
tblProjectCharacteristics	CO2IntensityFactor	720.49	648
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblProjectCharacteristics	OperationalYear	2014	2018
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	CC_TL	6.60	9.00
tblVehicleTrips	CNW_TL	6.60	9.00
tblVehicleTrips	CW_TL	14.70	9.00
tblVehicleTrips	ST_TR	863.10	40.00
tblVehicleTrips	SU_TR	758.45	40.00
tblVehicleTrips	WD_TR	737.99	40.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	14.2373	12.7129	9.1810	0.0140	0.8805	0.8554	1.6080	0.4477	0.7870	1.1415	0.0000	1,312.443	1,312.4435	0.3559	0.0000	1,319.917
Total	14.2373	12.7129	9.1810	0.0140	0.8805	0.8554	1.6080	0.4477	0.7870	1.1415	0.0000	1,312.443	1,312.4435	0.3559	0.0000	1,319.917

2.2 Overall Operational

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0833	0.0000	3.1000e-	0.0000		0.0000	0.0000		0.0000	0.0000		6.6000e-	6.6000e-	0.0000		6.9000e-
Energy	2.1000e-	1.8700e-	1.5700e-	1.0000e-		1.4000e-	1.4000e-		1.4000e-	1.4000e-		2.2434	2.2434	4.0000e-	4.0000e-	2.2570
Mobile	0.3057	0.3878	2.0083	3.7100e-	0.2365	4.7300e-	0.2412	0.0631	4.3600e-	0.0675		302.6236	302.6236	0.0134		302.9043
Total	0.3891	0.3896	2.0102	3.7200e-	0.2365	4.8700e-	0.2413	0.0631	4.5000e-	0.0676		304.8676	304.8676	0.0134	4.0000e-	305.1619

3.0 Construction Detail

Construction Phase

Phase	Phase Name	Phase Type	Start Date	End Date	Num Days	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2017	1/2/2017	5	1	
2	Grading	Grading	1/3/2017	1/4/2017	5	2	
3	Building Construction	Building Construction	1/5/2017	5/24/2017	5	100	
4	Paving	Paving	5/25/2017	5/31/2017	5	5	
5	Architectural Coating	Architectural Coating	6/1/2017	6/7/2017	5	5	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Site Preparation	Graders	1	8.00	174	0.41
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37

Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment	Worker Trip	Vendor Trip	Hauling Trip	Worker Trip	Vendor Trip	Hauling Trip	Worker Vehicle	Vendor	Hauling
Site Preparation	2	5.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	1.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.2 Site Preparation - 2017 Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.2694	12.6852	7.2319	9.3300e-		0.7705	0.7705		0.7089	0.7089		955.8663	955.8663	0.2929		962.0167
Total	1.2694	12.6852	7.2319	9.3300e-	0.5303	0.7705	1.3007	0.0573	0.7089	0.7661		955.8663	955.8663	0.2929		962.0167

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	0.0185	0.0277	0.2993	8.0000e-	0.0639	4.4000e-	0.0643	0.0169	4.1000e-	0.0173		64.3152	64.3152	3.0400e-		64.3790
Total	0.0185	0.0277	0.2993	8.0000e-	0.0639	4.4000e-	0.0643	0.0169	4.1000e-	0.0173		64.3152	64.3152	3.0400e-		64.3790

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.2694	12.6852	7.2319	9.3300e-		0.7705	0.7705		0.7089	0.7089	0.0000	955.8663	955.8663	0.2929		962.0167
Total	1.2694	12.6852	7.2319	9.3300e-	0.5303	0.7705	1.3007	0.0573	0.7089	0.7661	0.0000	955.8663	955.8663	0.2929		962.0167

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	0.0185	0.0277	0.2993	8.0000e-	0.0639	4.4000e-	0.0643	0.0169	4.1000e-	0.0173		64.3152	64.3152	3.0400e-		64.3790
Total	0.0185	0.0277	0.2993	8.0000e-	0.0639	4.4000e-	0.0643	0.0169	4.1000e-	0.0173		64.3152	64.3152	3.0400e-		64.3790

3.3 Grading - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	1.2049	10.4761	8.5825	0.0120		0.7266	0.7266		0.6930	0.6930		1,183.813	1,183.8131	0.2333		1,188.711
Total	1.2049	10.4761	8.5825	0.0120	0.7528	0.7266	1.4794	0.4138	0.6930	1.1068		1,183.813	1,183.8131	0.2333		1,188.711

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	0.0369	0.0555	0.5985	1.6000e-	0.1277	8.9000e-	0.1286	0.0339	8.2000e-	0.0347		128.6303	128.6303	6.0800e-		128.7580
Total	0.0369	0.0555	0.5985	1.6000e-	0.1277	8.9000e-	0.1286	0.0339	8.2000e-	0.0347		128.6303	128.6303	6.0800e-		128.7580

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	1.2049	10.4761	8.5825	0.0120		0.7266	0.7266		0.6930	0.6930	0.0000	1,183.813	1,183.8131	0.2333		1,188.711
Total	1.2049	10.4761	8.5825	0.0120	0.7528	0.7266	1.4794	0.4138	0.6930	1.1068	0.0000	1,183.813	1,183.8131	0.2333		1,188.711

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	0.0369	0.0555	0.5985	1.6000e-	0.1277	8.9000e-	0.1286	0.0339	8.2000e-	0.0347		128.6303	128.6303	6.0800e-		128.7580
Total	0.0369	0.0555	0.5985	1.6000e-	0.1277	8.9000e-	0.1286	0.0339	8.2000e-	0.0347		128.6303	128.6303	6.0800e-		128.7580

3.4 Building Construction - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2740	12.6738	8.0395	0.0113		0.8553	0.8553		0.7869	0.7869		1,159.531	1,159.5310	0.3553		1,166.991
Total	1.2740	12.6738	8.0395	0.0113		0.8553	0.8553		0.7869	0.7869		1,159.531	1,159.5310	0.3553		1,166.991

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	3.6900e-	5.5500e-	0.0599	1.6000e-	0.0128	9.0000e-	0.0129	3.3900e-	8.0000e-	3.4700e-		12.8630	12.8630	6.1000e-		12.8758
Total	3.6900e-	5.5500e-	0.0599	1.6000e-	0.0128	9.0000e-	0.0129	3.3900e-	8.0000e-	3.4700e-		12.8630	12.8630	6.1000e-		12.8758

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2740	12.6738	8.0395	0.0113		0.8553	0.8553		0.7869	0.7869	0.0000	1,159.531	1,159.5310	0.3553		1,166.991
Total	1.2740	12.6738	8.0395	0.0113		0.8553	0.8553		0.7869	0.7869	0.0000	1,159.531	1,159.5310	0.3553		1,166.991

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	3.6900e-	5.5500e-	0.0599	1.6000e-	0.0128	9.0000e-	0.0129	3.3900e-	8.0000e-	3.4700e-		12.8630	12.8630	6.1000e-		12.8758
Total	3.6900e-	5.5500e-	0.0599	1.6000e-	0.0128	9.0000e-	0.0129	3.3900e-	8.0000e-	3.4700e-		12.8630	12.8630	6.1000e-		12.8758

3.5 Paving - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0406	9.8344	7.2432	0.0111		0.6018	0.6018		0.5572	0.5572		1,068.936	1,068.9366	0.2968		1,075.169
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0406	9.8344	7.2432	0.0111		0.6018	0.6018		0.5572	0.5572		1,068.936	1,068.9366	0.2968		1,075.169

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	0.0665	0.0999	1.0773	2.8900e-	0.2299	1.5900e-	0.2315	0.0610	1.4700e-	0.0624		231.5346	231.5346	0.0109		231.7644
Total	0.0665	0.0999	1.0773	2.8900e-	0.2299	1.5900e-	0.2315	0.0610	1.4700e-	0.0624		231.5346	231.5346	0.0109		231.7644

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0406	9.8344	7.2432	0.0111		0.6018	0.6018		0.5572	0.5572	0.0000	1,068.936	1,068.9366	0.2968		1,075.169
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0406	9.8344	7.2432	0.0111		0.6018	0.6018		0.5572	0.5572	0.0000	1,068.936	1,068.9366	0.2968		1,075.169

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	0.0665	0.0999	1.0773	2.8900e-	0.2299	1.5900e-	0.2315	0.0610	1.4700e-	0.0624		231.5346	231.5346	0.0109		231.7644
Total	0.0665	0.0999	1.0773	2.8900e-	0.2299	1.5900e-	0.2315	0.0610	1.4700e-	0.0624		231.5346	231.5346	0.0109		231.7644

3.6 Architectural Coating - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	13.9050					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.0721
Total	14.2373	2.1850	1.8681	2.9700e-		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.0721

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day					
Archit. Coating	13.9050					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297		282.0721
Total	14.2373	2.1850	1.8681	2.9700e-		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297		282.0721

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.3057	0.3878	2.0083	3.7100e-	0.2365	4.7300e-	0.2412	0.0631	4.3600e-	0.0675		302.6236	302.6236	0.0134		302.9043
Unmitigated	0.3057	0.3878	2.0083	3.7100e-	0.2365	4.7300e-	0.2412	0.0631	4.3600e-	0.0675		302.6236	302.6236	0.0134		302.9043

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market (24 Hour)	120.00	120.00	120.00	111,755	111,755
Total	120.00	120.00	120.00	111,755	111,755

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Convenience Market (24 Hour)	9.00	9.00	9.00	0.90	80.10	19.00	24	15	61

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.511818	0.073499	0.191840	0.131575	0.036332	0.005186	0.012677	0.022513	0.001864	0.002072	0.006564	0.000601	0.003458

5.0 Energy Detail

5.2 Energy by Land Use - NaturalGas

	NaturalGa	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Convenience	0.0190685	2.1000e-	1.8700e-	1.5700e-	1.0000e-		1.4000e-	1.4000e-		1.4000e-	1.4000e-		2.2434	2.2434	4.0000e-	4.0000e-	2.2570
Total		2.1000e-	1.8700e-	1.5700e-	1.0000e-		1.4000e-	1.4000e-		1.4000e-	1.4000e-		2.2434	2.2434	4.0000e-	4.0000e-	2.2570

6.0 Area Detail

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural	0.0191					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer	0.0642					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.0000e-	0.0000	3.1000e-	0.0000		0.0000	0.0000		0.0000	0.0000		6.6000e-	6.6000e-	0.0000		6.9000e-
Total	0.0833	0.0000	3.1000e-	0.0000		0.0000	0.0000		0.0000	0.0000		6.6000e-	6.6000e-	0.0000		6.9000e-

Winery Project

San Diego County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	5.00	1000sqft	4.00	5,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	10			Operational Year	2018

Utility Company San Diego Gas & Electric

CO2 Intensity	648	CH4 Intensity	0.02	N2O Intensity	0.004
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - Adjusted RPS Emission Factor

Land Use - Representative Project; values based on maximum floor areas and acreages allowed under the draft Zoning Ordinance revisions.

Vehicle Trips - Trip generation per Chen Ryan; trip length per County's Transportation Impact Fee.

Energy Use - Replaced based on values specific to a winery

Water And Wastewater - Replaced based on values specific to a winery

Table Name	Column Name	Default Value	New Value
tblEnergyUse	LightingElect	3.40	7.93
tblEnergyUse	NT24E	36.52	85.23
tblEnergyUse	NT24NG	48.51	110.20
tblEnergyUse	T24E	1.30	3.03
tblEnergyUse	T24NG	3.42	7.77
tblLandUse	LotAcreage	0.11	4.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.02
tblProjectCharacteristics	CO2IntensityFactor	720.49	648
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblProjectCharacteristics	OperationalYear	2014	2018
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

tblVehicleTrips	CC_TL	6.60	9.00
tblVehicleTrips	CNW_TL	6.60	9.00
tblVehicleTrips	CW_TL	14.70	9.00
tblVehicleTrips	ST_TR	2.59	160.00
tblVehicleTrips	SU_TR	2.59	160.00
tblVehicleTrips	WD_TR	2.59	160.00
tblWater	OutdoorWaterUseRate	0.00	5,875,200.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	4.9047	51.8533	40.4743	0.0420	18.2962	2.7558	21.0520	9.9917	2.5354	12.5270	0.0000	4,234.620	4,234.6205	1.2375	0.0000	4,260.607
2018	6.7361	23.3420	17.7389	0.0273	0.2555	1.4955	1.5271	0.0678	1.4059	1.4144	0.0000	2,655.709	2,655.7093	0.6400	0.0000	2,669.149
Total	11.6408	75.1953	58.2132	0.0693	18.5516	4.2513	22.5790	10.0594	3.9413	13.9414	0.0000	6,890.329	6,890.3298	1.8775	0.0000	6,929.756

2.2 Overall Operational

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1388	0.0000	5.2000e-	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-	1.0900e-	0.0000		1.1600e-
Energy	0.0174	0.1584	0.1331	9.5000e-		0.0120	0.0120		0.0120	0.0120		190.1209	190.1209	3.6400e-	3.4900e-	191.2779
Mobile	2.7336	6.3034	29.0686	0.0766	5.1729	0.0892	5.2621	1.3809	0.0822	1.4631		6,252.621	6,252.6211	0.2404		6,257.669
Total	2.8898	6.4618	29.2022	0.0775	5.1729	0.1013	5.2741	1.3809	0.0943	1.4751		6,442.743	6,442.7431	0.2440	3.4900e-	6,448.948

3.0 Construction Detail

Construction Phase

Phase	Phase Name	Phase Type	Start Date	End Date	Num Days	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/28/2017	2/3/2017	5	5	
2	Grading	Grading	2/4/2017	2/15/2017	5	8	
3	Building Construction	Building Construction	2/16/2017	1/3/2018	5	230	
4	Paving	Paving	1/4/2018	1/29/2018	5	18	
5	Architectural Coating	Architectural Coating	1/30/2018	2/22/2018	5	18	

OffRoad Equipment

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

Grading	Excavators	1	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	2	6.00	130	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment	Worker Trip	Vendor Trip	Hauling Trip	Worker Trip	Vendor Trip	Hauling Trip	Worker Vehicle	Vendor	Hauling
Site Preparation	7	18.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	2.00	1.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.2 Site Preparation - 2017
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.8382	51.7535	39.3970	0.0391		2.7542	2.7542		2.5339	2.5339		4,003.085	4,003.0859	1.2265		4,028.843
Total	4.8382	51.7535	39.3970	0.0391	18.0663	2.7542	20.8205	9.9307	2.5339	12.4646		4,003.085	4,003.0859	1.2265		4,028.843

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	0.0665	0.0999	1.0773	2.8900e-	0.2299	1.5900e-	0.2315	0.0610	1.4700e-	0.0624		231.5346	231.5346	0.0109		231.7644
Total	0.0665	0.0999	1.0773	2.8900e-	0.2299	1.5900e-	0.2315	0.0610	1.4700e-	0.0624		231.5346	231.5346	0.0109		231.7644

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.8382	51.7535	39.3970	0.0391		2.7542	2.7542		2.5339	2.5339	0.0000	4,003.085	4,003.0859	1.2265		4,028.843
Total	4.8382	51.7535	39.3970	0.0391	18.0663	2.7542	20.8205	9.9307	2.5339	12.4646	0.0000	4,003.085	4,003.0859	1.2265		4,028.843

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	0.0665	0.0999	1.0773	2.8900e-	0.2299	1.5900e-	0.2315	0.0610	1.4700e-	0.0624		231.5346	231.5346	0.0109		231.7644
Total	0.0665	0.0999	1.0773	2.8900e-	0.2299	1.5900e-	0.2315	0.0610	1.4700e-	0.0624		231.5346	231.5346	0.0109		231.7644

3.3 Grading - 2017
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	3.4555	35.9825	25.3812	0.0297		2.0388	2.0388		1.8757	1.8757		3,043.666	3,043.6667	0.9326		3,063.250
Total	3.4555	35.9825	25.3812	0.0297	6.5523	2.0388	8.5912	3.3675	1.8757	5.2432		3,043.666	3,043.6667	0.9326		3,063.250

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	0.0554	0.0832	0.8977	2.4000e-	0.1916	1.3300e-	0.1929	0.0508	1.2200e-	0.0520		192.9455	192.9455	9.1200e-		193.1370
Total	0.0554	0.0832	0.8977	2.4000e-	0.1916	1.3300e-	0.1929	0.0508	1.2200e-	0.0520		192.9455	192.9455	9.1200e-		193.1370

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	3.4555	35.9825	25.3812	0.0297		2.0388	2.0388		1.8757	1.8757	0.0000	3,043.666	3,043.6667	0.9326		3,063.250
Total	3.4555	35.9825	25.3812	0.0297	6.5523	2.0388	8.5912	3.3675	1.8757	5.2432	0.0000	3,043.666	3,043.6667	0.9326		3,063.250

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	0.0554	0.0832	0.8977	2.4000e-	0.1916	1.3300e-	0.1929	0.0508	1.2200e-	0.0520		192.9455	192.9455	9.1200e-		193.1370
Total	0.0554	0.0832	0.8977	2.4000e-	0.1916	1.3300e-	0.1929	0.0508	1.2200e-	0.0520		192.9455	192.9455	9.1200e-		193.1370

3.4 Building Construction - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.805	2,639.8053	0.6497		2,653.449
Total	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.805	2,639.8053	0.6497		2,653.449

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	9.2400e-	0.0785	0.1024	2.2000e-	6.0000e-	1.1300e-	7.1300e-	1.7100e-	1.0400e-	2.7500e-		21.3764	21.3764	1.6000e-		21.3798
Worker	7.3900e-	0.0111	0.1197	3.2000e-	0.0256	1.8000e-	0.0257	6.7700e-	1.6000e-	6.9400e-		25.7261	25.7261	1.2200e-		25.7516
Total	0.0166	0.0896	0.2221	5.4000e-	0.0316	1.3100e-	0.0329	8.4800e-	1.2000e-	9.6900e-		47.1025	47.1025	1.3800e-		47.1314

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730	0.0000	2,639.805	2,639.8053	0.6497		2,653.449
Total	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730	0.0000	2,639.805	2,639.8053	0.6497		2,653.449

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	9.2400e-	0.0785	0.1024	2.2000e-	6.0000e-	1.1300e-	7.1300e-	1.7100e-	1.0400e-	2.7500e-		21.3764	21.3764	1.6000e-		21.3798
Worker	7.3900e-	0.0111	0.1197	3.2000e-	0.0256	1.8000e-	0.0257	6.7700e-	1.6000e-	6.9400e-		25.7261	25.7261	1.2200e-		25.7516
Total	0.0166	0.0896	0.2221	5.4000e-	0.0316	1.3100e-	0.0329	8.4800e-	1.2000e-	9.6900e-		47.1025	47.1025	1.3800e-		47.1314

3.4 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048		2,609.939	2,609.9390	0.6387		2,623.351
Total	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048		2,609.939	2,609.9390	0.6387		2,623.351

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	8.6900e-	0.0710	0.0976	2.2000e-	6.0000e-	1.0500e-	7.0500e-	1.7100e-	9.6000e-	2.6800e-		21.0094	21.0094	1.6000e-		21.0127
Worker	6.6800e-	0.0101	0.1086	3.2000e-	0.0256	1.7000e-	0.0257	6.7700e-	1.6000e-	6.9400e-		24.7609	24.7609	1.1300e-		24.7847
Total	0.0154	0.0812	0.2062	5.4000e-	0.0316	1.2200e-	0.0328	8.4800e-	1.1200e-	9.6200e-		45.7704	45.7704	1.2900e-		45.7974

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048	0.0000	2,609.938	2,609.9389	0.6387		2,623.351
Total	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048	0.0000	2,609.938	2,609.9389	0.6387		2,623.351

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	8.6900e-	0.0710	0.0976	2.2000e-	6.0000e-	1.0500e-	7.0500e-	1.7100e-	9.6000e-	2.6800e-		21.0094	21.0094	1.6000e-		21.0127
Worker	6.6800e-	0.0101	0.1086	3.2000e-	0.0256	1.7000e-	0.0257	6.7700e-	1.6000e-	6.9400e-		24.7609	24.7609	1.1300e-		24.7847
Total	0.0154	0.0812	0.2062	5.4000e-	0.0316	1.2200e-	0.0328	8.4800e-	1.1200e-	9.6200e-		45.7704	45.7704	1.2900e-		45.7974

3.5 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4060	14.3192	12.2631	0.0187		0.8272	0.8272		0.7628	0.7628		1,845.034	1,845.0348	0.5587		1,856.766
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4060	14.3192	12.2631	0.0187		0.8272	0.8272		0.7628	0.7628		1,845.034	1,845.0348	0.5587		1,856.766

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	0.0668	0.1013	1.0863	3.2100e-	0.2555	1.7300e-	0.2572	0.0678	1.6000e-	0.0694		247.6093	247.6093	0.0113		247.8470
Total	0.0668	0.1013	1.0863	3.2100e-	0.2555	1.7300e-	0.2572	0.0678	1.6000e-	0.0694		247.6093	247.6093	0.0113		247.8470

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4060	14.3192	12.2631	0.0187		0.8272	0.8272		0.7628	0.7628	0.0000	1,845.034	1,845.0348	0.5587		1,856.766
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4060	14.3192	12.2631	0.0187		0.8272	0.8272		0.7628	0.7628	0.0000	1,845.034	1,845.0348	0.5587		1,856.766

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	0.0668	0.1013	1.0863	3.2100e-	0.2555	1.7300e-	0.2572	0.0678	1.6000e-	0.0694		247.6093	247.6093	0.0113		247.8470
Total	0.0668	0.1013	1.0863	3.2100e-	0.2555	1.7300e-	0.2572	0.0678	1.6000e-	0.0694		247.6093	247.6093	0.0113		247.8470

3.6 Architectural Coating - 2018
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	6.4375					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.0102
Total	6.7361	2.0058	1.8542	2.9700e-		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.0102

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	6.4375					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.0102
Total	6.7361	2.0058	1.8542	2.9700e-		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.0102

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.7336	6.3034	29.0686	0.0766	5.1729	0.0892	5.2621	1.3809	0.0822	1.4631		6,252.621	6,252.6211	0.2404		6,257.669
Unmitigated	2.7336	6.3034	29.0686	0.0766	5.1729	0.0892	5.2621	1.3809	0.0822	1.4631		6,252.621	6,252.6211	0.2404		6,257.669

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Refrigerated Warehouse-No Rail	800.00	800.00	800.00	2,444,770	2,444,770
Total	800.00	800.00	800.00	2,444,770	2,444,770

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Refrigerated Warehouse-No Rail	9.00	9.00	9.00	59.00	0.00	41.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.511818	0.073499	0.191840	0.131575	0.036332	0.005186	0.012677	0.022513	0.001864	0.002072	0.006564	0.000601	0.003458

5.0 Energy Detail

5.2 Energy by Land Use - NaturalGas

	NaturalGa	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Refrigerated	1.61603	0.0174	0.1584	0.1331	9.5000e-		0.0120	0.0120		0.0120	0.0120		190.1209	190.1209	3.6400e-	3.4900e-	191.2779
Total		0.0174	0.1584	0.1331	9.5000e-		0.0120	0.0120		0.0120	0.0120		190.1209	190.1209	3.6400e-	3.4900e-	191.2779

6.0 Area Detail

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Consumer	0.1070					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-	0.0000	5.2000e-	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-	1.0900e-	0.0000		1.1600e-
Architectural	0.0318					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.1388	0.0000	5.2000e-	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-	1.0900e-	0.0000		1.1600e-

Microbrewery/Winery Project

San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	5.00	1000sqft	4.00	5,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	10			Operational Year	2018

Utility Company San Diego Gas & Electric

CO2 Intensity	648	CH4 Intensity	0.02	N2O Intensity	0.004
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - Adjusted RPS Emission Factor

Land Use - Representative Project; values based on maximum floor areas and acreages allowed under the draft Zoning Ordinance revisions.

Vehicle Trips - Trip generation per Chen Ryan; trip length per County's Transportation Impact Fee.

Energy Use - Replaced based on values specific to a winery

Water And Wastewater - Replaced based on values specific to a winery

Table Name	Column Name	Default Value	New Value
tblEnergyUse	LightingElect	3.40	7.93
tblEnergyUse	NT24E	36.52	85.23
tblEnergyUse	NT24NG	48.51	110.20
tblEnergyUse	T24E	1.30	3.03
tblEnergyUse	T24NG	3.42	7.77
tblLandUse	LotAcreage	0.11	4.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.02
tblProjectCharacteristics	CO2IntensityFactor	720.49	648
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblProjectCharacteristics	OperationalYear	2014	2018
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

tblVehicleTrips	CC_TL	6.60	9.00
tblVehicleTrips	CNW_TL	6.60	9.00
tblVehicleTrips	CW_TL	14.70	9.00
tblVehicleTrips	ST_TR	2.59	160.00
tblVehicleTrips	SU_TR	2.59	160.00
tblVehicleTrips	WD_TR	2.59	160.00
tblWater	OutdoorWaterUseRate	0.00	5,875,200.00

2.0 Emissions Summary

2.1 Overall Construction

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2017	0.3804	3.2816	2.2909	3.3300e-	0.0762	0.2174	0.2936	0.0396	0.2039	0.2435	0.0000	297.7985	297.7985	0.0733	0.0000	299.3370
2018	0.0779	0.1830	0.1629	2.6000e-	2.2900e-	0.0111	0.0134	6.1000e-	0.0103	0.0110	0.0000	22.8906	22.8906	5.7400e-	0.0000	23.0112
Total	0.4583	3.4645	2.4538	3.5900e-	0.0785	0.2284	0.3069	0.0402	0.2142	0.2544	0.0000	320.6891	320.6891	0.0790	0.0000	322.3482

2.2 Overall Operational

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0253	0.0000	5.0000e-	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-	9.0000e-	0.0000	0.0000	9.0000e-
Energy	3.1800e-	0.0289	0.0243	1.7000e-		2.2000e-	2.2000e-		2.2000e-	2.2000e-	0.0000	172.8412	172.8412	4.9700e-	1.4500e-	173.3949
Mobile	0.4962	1.2139	5.3676	0.0133	0.9193	0.0162	0.9356	0.2459	0.0150	0.2609	0.0000	989.5097	989.5097	0.0397	0.0000	990.3425
Waste						0.0000	0.0000		0.0000	0.0000	0.9541	0.0000	0.9541	0.0564	0.0000	2.1381
Water						0.0000	0.0000		0.0000	0.0000	0.3668	23.6109	23.9778	0.0384	1.0400e-	25.1052
Total	0.5247	1.2428	5.3919	0.0135	0.9193	0.0184	0.9378	0.2459	0.0172	0.2631	1.3209	1,185.962	1,187.2829	0.1394	2.4900e-	1,190.980

3.0 Construction Detail

Construction Phase

Phase	Phase Name	Phase Type	Start Date	End Date	Num Days	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/28/2017	2/3/2017	5	5	
2	Grading	Grading	2/4/2017	2/15/2017	5	8	
3	Building Construction	Building Construction	2/16/2017	1/3/2018	5	230	
4	Paving	Paving	1/4/2018	1/29/2018	5	18	
5	Architectural Coating	Architectural Coating	1/30/2018	2/22/2018	5	18	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
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Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	2	6.00	130	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment	Worker Trip	Vendor Trip	Hauling Trip	Worker Trip	Vendor Trip	Hauling Trip	Worker Vehicle	Vendor	Hauling
Site Preparation	7	18.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	2.00	1.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.2 Site Preparation - 2017
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0121	0.1294	0.0985	1.0000e-		6.8900e-	6.8900e-		6.3300e-	6.3300e-	0.0000	9.0789	9.0789	2.7800e-	0.0000	9.1373
Total	0.0121	0.1294	0.0985	1.0000e-	0.0452	6.8900e-	0.0521	0.0248	6.3300e-	0.0312	0.0000	9.0789	9.0789	2.7800e-	0.0000	9.1373

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	1.6000e-	2.8000e-	2.5400e-	1.0000e-	5.6000e-	0.0000	5.7000e-	1.5000e-	0.0000	1.5000e-	0.0000	0.4979	0.4979	2.0000e-	0.0000	0.4984

Total	1.6000e-	2.8000e-	2.5400e-	1.0000e-	5.6000e-	0.0000	5.7000e-	1.5000e-	0.0000	1.5000e-	0.0000	0.4979	0.4979	2.0000e-	0.0000	0.4984
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0121	0.1294	0.0985	1.0000e-		6.8900e-	6.8900e-		6.3300e-	6.3300e-	0.0000	9.0788	9.0788	2.7800e-	0.0000	9.1373
Total	0.0121	0.1294	0.0985	1.0000e-	0.0452	6.8900e-	0.0521	0.0248	6.3300e-	0.0312	0.0000	9.0788	9.0788	2.7800e-	0.0000	9.1373

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	1.6000e-	2.8000e-	2.5400e-	1.0000e-	5.6000e-	0.0000	5.7000e-	1.5000e-	0.0000	1.5000e-	0.0000	0.4979	0.4979	2.0000e-	0.0000	0.4984
Total	1.6000e-	2.8000e-	2.5400e-	1.0000e-	5.6000e-	0.0000	5.7000e-	1.5000e-	0.0000	1.5000e-	0.0000	0.4979	0.4979	2.0000e-	0.0000	0.4984

3.3 Grading - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0138	0.1439	0.1015	1.2000e-		8.1600e-	8.1600e-		7.5000e-	7.5000e-	0.0000	11.0447	11.0447	3.3800e-	0.0000	11.1157
Total	0.0138	0.1439	0.1015	1.2000e-	0.0262	8.1600e-	0.0344	0.0135	7.5000e-	0.0210	0.0000	11.0447	11.0447	3.3800e-	0.0000	11.1157

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-	3.7000e-	3.3900e-	1.0000e-	7.5000e-	1.0000e-	7.5000e-	2.0000e-	0.0000	2.0000e-	0.0000	0.6638	0.6638	3.0000e-	0.0000	0.6645
Total	2.2000e-	3.7000e-	3.3900e-	1.0000e-	7.5000e-	1.0000e-	7.5000e-	2.0000e-	0.0000	2.0000e-	0.0000	0.6638	0.6638	3.0000e-	0.0000	0.6645

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0138	0.1439	0.1015	1.2000e-		8.1600e-	8.1600e-		7.5000e-	7.5000e-	0.0000	11.0447	11.0447	3.3800e-	0.0000	11.1157

Total	0.0138	0.1439	0.1015	1.2000e-	0.0262	8.1600e-	0.0344	0.0135	7.5000e-	0.0210	0.0000	11.0447	11.0447	3.3800e-	0.0000	11.1157
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-	3.7000e-	3.3900e-	1.0000e-	7.5000e-	1.0000e-	7.5000e-	2.0000e-	0.0000	2.0000e-	0.0000	0.6638	0.6638	3.0000e-	0.0000	0.6645
Total	2.2000e-	3.7000e-	3.3900e-	1.0000e-	7.5000e-	1.0000e-	7.5000e-	2.0000e-	0.0000	2.0000e-	0.0000	0.6638	0.6638	3.0000e-	0.0000	0.6645

3.4 Building Construction - 2017
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3521	2.9970	2.0577	3.0400e-		0.2022	0.2022		0.1899	0.1899	0.0000	271.8088	271.8088	0.0669	0.0000	273.2136
Total	0.3521	2.9970	2.0577	3.0400e-		0.2022	0.2022		0.1899	0.1899	0.0000	271.8088	271.8088	0.0669	0.0000	273.2136

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1400e-	9.1800e-	0.0145	2.0000e-	6.7000e-	1.3000e-	8.0000e-	1.9000e-	1.2000e-	3.1000e-	0.0000	2.1932	2.1932	2.0000e-	0.0000	2.1936
Worker	8.2000e-	1.3900e-	0.0128	3.0000e-	2.8300e-	2.0000e-	2.8500e-	7.5000e-	2.0000e-	7.7000e-	0.0000	2.5114	2.5114	1.3000e-	0.0000	2.5140
Total	1.9600e-	0.0106	0.0273	5.0000e-	3.5000e-	1.5000e-	3.6500e-	9.4000e-	1.4000e-	1.0800e-	0.0000	4.7046	4.7046	1.5000e-	0.0000	4.7076

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3521	2.9970	2.0577	3.0400e-		0.2022	0.2022		0.1899	0.1899	0.0000	271.8085	271.8085	0.0669	0.0000	273.2133
Total	0.3521	2.9970	2.0577	3.0400e-		0.2022	0.2022		0.1899	0.1899	0.0000	271.8085	271.8085	0.0669	0.0000	273.2133

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1400e-	9.1800e-	0.0145	2.0000e-	6.7000e-	1.3000e-	8.0000e-	1.9000e-	1.2000e-	3.1000e-	0.0000	2.1932	2.1932	2.0000e-	0.0000	2.1936
Worker	8.2000e-	1.3900e-	0.0128	3.0000e-	2.8300e-	2.0000e-	2.8500e-	7.5000e-	2.0000e-	7.7000e-	0.0000	2.5114	2.5114	1.3000e-	0.0000	2.5140
Total	1.9600e-	0.0106	0.0273	5.0000e-	3.5000e-	1.5000e-	3.6500e-	9.4000e-	1.4000e-	1.0800e-	0.0000	4.7046	4.7046	1.5000e-	0.0000	4.7076

3.4 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.0000e-	0.0349	0.0263	4.0000e-		2.2400e-	2.2400e-		2.1100e-	2.1100e-	0.0000	3.5516	3.5516	8.7000e-	0.0000	3.5698
Total	4.0000e-	0.0349	0.0263	4.0000e-		2.2400e-	2.2400e-		2.1100e-	2.1100e-	0.0000	3.5516	3.5516	8.7000e-	0.0000	3.5698

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-	1.1000e-	1.8000e-	0.0000	1.0000e-	0.0000	1.0000e-	0.0000	0.0000	0.0000	0.0000	0.0285	0.0285	0.0000	0.0000	0.0285
Worker	1.0000e-	2.0000e-	1.5000e-	0.0000	4.0000e-	0.0000	4.0000e-	1.0000e-	0.0000	1.0000e-	0.0000	0.0319	0.0319	0.0000	0.0000	0.0320
Total	2.0000e-	1.3000e-	3.3000e-	0.0000	5.0000e-	0.0000	5.0000e-	1.0000e-	0.0000	1.0000e-	0.0000	0.0604	0.0604	0.0000	0.0000	0.0605

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.0000e-	0.0349	0.0263	4.0000e-		2.2400e-	2.2400e-		2.1100e-	2.1100e-	0.0000	3.5515	3.5515	8.7000e-	0.0000	3.5698
Total	4.0000e-	0.0349	0.0263	4.0000e-		2.2400e-	2.2400e-		2.1100e-	2.1100e-	0.0000	3.5515	3.5515	8.7000e-	0.0000	3.5698

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-	1.1000e-	1.8000e-	0.0000	1.0000e-	0.0000	1.0000e-	0.0000	0.0000	0.0000	0.0000	0.0285	0.0285	0.0000	0.0000	0.0285
Worker	1.0000e-	2.0000e-	1.5000e-	0.0000	4.0000e-	0.0000	4.0000e-	1.0000e-	0.0000	1.0000e-	0.0000	0.0319	0.0319	0.0000	0.0000	0.0320
Total	2.0000e-	1.3000e-	3.3000e-	0.0000	5.0000e-	0.0000	5.0000e-	1.0000e-	0.0000	1.0000e-	0.0000	0.0604	0.0604	0.0000	0.0000	0.0605

3.5 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0127	0.1289	0.1104	1.7000e-		7.4500e-	7.4500e-		6.8700e-	6.8700e-	0.0000	15.0641	15.0641	4.5600e-	0.0000	15.1599
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0127	0.1289	0.1104	1.7000e-		7.4500e-	7.4500e-		6.8700e-	6.8700e-	0.0000	15.0641	15.0641	4.5600e-	0.0000	15.1599

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	5.8000e-	1.0100e-	9.2000e-	3.0000e-	2.2400e-	2.0000e-	2.2600e-	6.0000e-	1.0000e-	6.1000e-	0.0000	1.9166	1.9166	9.0000e-	0.0000	1.9185
Total	5.8000e-	1.0100e-	9.2000e-	3.0000e-	2.2400e-	2.0000e-	2.2600e-	6.0000e-	1.0000e-	6.1000e-	0.0000	1.9166	1.9166	9.0000e-	0.0000	1.9185

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0127	0.1289	0.1104	1.7000e-		7.4500e-	7.4500e-		6.8700e-	6.8700e-	0.0000	15.0641	15.0641	4.5600e-	0.0000	15.1599
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0127	0.1289	0.1104	1.7000e-		7.4500e-	7.4500e-		6.8700e-	6.8700e-	0.0000	15.0641	15.0641	4.5600e-	0.0000	15.1599

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	5.8000e-	1.0100e-	9.2000e-	3.0000e-	2.2400e-	2.0000e-	2.2600e-	6.0000e-	1.0000e-	6.1000e-	0.0000	1.9166	1.9166	9.0000e-	0.0000	1.9185
Total	5.8000e-	1.0100e-	9.2000e-	3.0000e-	2.2400e-	2.0000e-	2.2600e-	6.0000e-	1.0000e-	6.1000e-	0.0000	1.9166	1.9166	9.0000e-	0.0000	1.9185

3.6 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0579					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6900e-	0.0181	0.0167	3.0000e-		1.3500e-	1.3500e-		1.3500e-	1.3500e-	0.0000	2.2979	2.2979	2.2000e-	0.0000	2.3025
Total	0.0606	0.0181	0.0167	3.0000e-		1.3500e-	1.3500e-		1.3500e-	1.3500e-	0.0000	2.2979	2.2979	2.2000e-	0.0000	2.3025

Unmitigated Construction Off-Site

[illegible]

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0579					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6900e-	0.0181	0.0167	3.0000e-		1.3500e-	1.3500e-		1.3500e-	1.3500e-	0.0000	2.2979	2.2979	2.2000e-	0.0000	2.3025
Total	0.0606	0.0181	0.0167	3.0000e-		1.3500e-	1.3500e-		1.3500e-	1.3500e-	0.0000	2.2979	2.2979	2.2000e-	0.0000	2.3025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.4962	1.2139	5.3676	0.0133	0.9193	0.0162	0.9356	0.2459	0.0150	0.2609	0.0000	989.5097	989.5097	0.0397	0.0000	990.3425
Unmitigated	0.4962	1.2139	5.3676	0.0133	0.9193	0.0162	0.9356	0.2459	0.0150	0.2609	0.0000	989.5097	989.5097	0.0397	0.0000	990.3425

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Refrigerated Warehouse-No Rail	800.00	800.00	800.00	2,444,770	2,444,770
Total	800.00	800.00	800.00	2,444,770	2,444,770

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Refrigerated Warehouse-No Rail	9.00	9.00	9.00	59.00	0.00	41.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.511818	0.073499	0.191840	0.131575	0.036332	0.005186	0.012677	0.022513	0.001864	0.002072	0.006564	0.000601	0.003458

5.0 Energy Detail

5.2 Energy by Land Use - NaturalGas

	NaturalGa	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Refrigerated	589850	3.1800e-	0.0289	0.0243	1.7000e-		2.2000e-	2.2000e-		2.2000e-	2.2000e-	0.0000	31.4766	31.4766	6.0000e-	5.8000e-	31.6682
Total		3.1800e-	0.0289	0.0243	1.7000e-		2.2000e-	2.2000e-		2.2000e-	2.2000e-	0.0000	31.4766	31.4766	6.0000e-	5.8000e-	31.6682

5.3 Energy by Land Use - Electricity

	Electricity	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Refrigerated	480950	141.3646	4.3600e-	8.7000e-	141.7267
Total		141.3646	4.3600e-	8.7000e-	141.7267

6.0 Area Detail

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Consumer	0.0195					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	5.0000e-	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-	9.0000e-	0.0000	0.0000	9.0000e-
Architectural	5.7900e-					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0253	0.0000	5.0000e-	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-	9.0000e-	0.0000	0.0000	9.0000e-

7.0 Water Detail

	Indoor/Out	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Refrigerated	1.15625 /	23.9778	0.0384	1.0400e-	25.1052
Total		23.9778	0.0384	1.0400e-	25.1052

8.0 Waste Detail

	Waste	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Refrigerated	4.7	0.9541	0.0564	0.0000	2.1381
Total		0.9541	0.0564	0.0000	2.1381

Roadside Sales Project

San Diego County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Convenience Market (24 Hour)	0.30	1000sqft	0.01	300.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	10			Operational Year	2018
Utility Company	San Diego Gas & Electric				
CO2 Intensity	648	CH4 Intensity	0.02	N2O Intensity	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Adjusted RPS Emission Factor

Land Use - Representative Project; values based on maximum floor areas and acreages allowed under the draft Zoning Ordinance revisions.

Construction Phase -

Vehicle Trips - Trip generation per Chen Ryan; trip length per County's Transportation Impact Fee.

Table Name	Column Name	Default Value	New Value
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.02
tblProjectCharacteristics	CO2IntensityFactor	720.49	648
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblProjectCharacteristics	OperationalYear	2014	2018
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	ST_TR	863.10	0.00
tblVehicleTrips	SU_TR	758.45	0.00
tblVehicleTrips	WD_TR	737.99	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	1.7228	12.7129	9.1810	0.0140	0.8805	0.8553	1.6080	0.4477	0.7869	1.1415	0.0000	1,312.443	1,312.4435	0.3553	0.0000	1,319.904
Total	1.7228	12.7129	9.1810	0.0140	0.8805	0.8553	1.6080	0.4477	0.7869	1.1415	0.0000	1,312.443	1,312.4435	0.3553	0.0000	1,319.904

2.2 Overall Operational

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	8.3300e-	0.0000	3.0000e-	0.0000		0.0000	0.0000		0.0000	0.0000		7.0000e-	7.0000e-	0.0000		7.0000e-
Energy	2.0000e-	1.9000e-	1.6000e-	0.0000		1.0000e-	1.0000e-		1.0000e-	1.0000e-		0.2243	0.2243	0.0000	0.0000	0.2257
Mobile	0.0000	0.0000	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	8.3500e-	1.9000e-	1.9000e-	0.0000	0.0000	1.0000e-	1.0000e-	0.0000	1.0000e-	1.0000e-		0.2244	0.2244	0.0000	0.0000	0.2258

3.0 Construction Detail

Construction Phase

Phase	Phase Name	Phase Type	Start Date	End Date	Num Days	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2017	1/2/2017	5	1	
2	Grading	Grading	1/3/2017	1/4/2017	5	2	
3	Building Construction	Building Construction	1/5/2017	5/24/2017	5	100	
4	Paving	Paving	5/25/2017	5/31/2017	5	5	
5	Architectural Coating	Architectural Coating	6/1/2017	6/7/2017	5	5	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Site Preparation	Graders	1	8.00	174	0.41
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment	Worker Trip	Vendor Trip	Hauling Trip	Worker Trip	Vendor Trip	Hauling Trip	Worker Vehicle	Vendor	Hauling
Site Preparation	2	5.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.2 Site Preparation - 2017
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.2694	12.6852	7.2319	9.3300e-		0.7705	0.7705		0.7089	0.7089		955.8663	955.8663	0.2929		962.0167
Total	1.2694	12.6852	7.2319	9.3300e-	0.5303	0.7705	1.3007	0.0573	0.7089	0.7661		955.8663	955.8663	0.2929		962.0167

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	0.0185	0.0277	0.2993	8.0000e-	0.0639	4.4000e-	0.0643	0.0169	4.1000e-	0.0173		64.3152	64.3152	3.0400e-		64.3790
Total	0.0185	0.0277	0.2993	8.0000e-	0.0639	4.4000e-	0.0643	0.0169	4.1000e-	0.0173		64.3152	64.3152	3.0400e-		64.3790

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.2694	12.6852	7.2319	9.3300e-		0.7705	0.7705		0.7089	0.7089	0.0000	955.8663	955.8663	0.2929		962.0167
Total	1.2694	12.6852	7.2319	9.3300e-	0.5303	0.7705	1.3007	0.0573	0.7089	0.7661	0.0000	955.8663	955.8663	0.2929		962.0167

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	0.0185	0.0277	0.2993	8.0000e-	0.0639	4.4000e-	0.0643	0.0169	4.1000e-	0.0173		64.3152	64.3152	3.0400e-		64.3790

Total	0.0185	0.0277	0.2993	8.0000e-	0.0639	4.4000e-	0.0643	0.0169	4.1000e-	0.0173		64.3152	64.3152	3.0400e-		64.3790
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3.3 Grading - 2017 Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	1.2049	10.4761	8.5825	0.0120		0.7266	0.7266		0.6930	0.6930		1,183.813	1,183.8131	0.2333		1,188.711
Total	1.2049	10.4761	8.5825	0.0120	0.7528	0.7266	1.4794	0.4138	0.6930	1.1068		1,183.813	1,183.8131	0.2333		1,188.711

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	0.0369	0.0555	0.5985	1.6000e-	0.1277	8.9000e-	0.1286	0.0339	8.2000e-	0.0347		128.6303	128.6303	6.0800e-		128.7580
Total	0.0369	0.0555	0.5985	1.6000e-	0.1277	8.9000e-	0.1286	0.0339	8.2000e-	0.0347		128.6303	128.6303	6.0800e-		128.7580

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	1.2049	10.4761	8.5825	0.0120		0.7266	0.7266		0.6930	0.6930	0.0000	1,183.813	1,183.8131	0.2333		1,188.711
Total	1.2049	10.4761	8.5825	0.0120	0.7528	0.7266	1.4794	0.4138	0.6930	1.1068	0.0000	1,183.813	1,183.8131	0.2333		1,188.711

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	0.0369	0.0555	0.5985	1.6000e-	0.1277	8.9000e-	0.1286	0.0339	8.2000e-	0.0347		128.6303	128.6303	6.0800e-		128.7580
Total	0.0369	0.0555	0.5985	1.6000e-	0.1277	8.9000e-	0.1286	0.0339	8.2000e-	0.0347		128.6303	128.6303	6.0800e-		128.7580

3.4 Building Construction - 2017 Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2740	12.6738	8.0395	0.0113		0.8553	0.8553		0.7869	0.7869		1,159.531	1,159.5310	0.3553		1,166.991

Total	1.2740	12.6738	8.0395	0.0113		0.8553	0.8553		0.7869	0.7869		1,159.531	1,159.5310	0.3553		1,166.991
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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2740	12.6738	8.0395	0.0113		0.8553	0.8553		0.7869	0.7869	0.0000	1,159.531	1,159.5310	0.3553		1,166.991
Total	1.2740	12.6738	8.0395	0.0113		0.8553	0.8553		0.7869	0.7869	0.0000	1,159.531	1,159.5310	0.3553		1,166.991

Mitigated Construction Off-Site

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

3.5 Paving - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0406	9.8344	7.2432	0.0111		0.6018	0.6018		0.5572	0.5572		1,068.936	1,068.9366	0.2968		1,075.169
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0406	9.8344	7.2432	0.0111		0.6018	0.6018		0.5572	0.5572		1,068.936	1,068.9366	0.2968		1,075.169

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	0.0665	0.0999	1.0773	2.8900e-006	0.2299	1.5900e-006	0.2315	0.0610	1.4700e-006	0.0624		231.5346	231.5346	0.0109		231.7644

Total	0.0665	0.0999	1.0773	2.8900e-	0.2299	1.5900e-	0.2315	0.0610	1.4700e-	0.0624		231.5346	231.5346	0.0109		231.7644
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0406	9.8344	7.2432	0.0111		0.6018	0.6018		0.5572	0.5572	0.0000	1,068.936	1,068.9366	0.2968		1,075.169
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0406	9.8344	7.2432	0.0111		0.6018	0.6018		0.5572	0.5572	0.0000	1,068.936	1,068.9366	0.2968		1,075.169

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	0.0665	0.0999	1.0773	2.8900e-	0.2299	1.5900e-	0.2315	0.0610	1.4700e-	0.0624		231.5346	231.5346	0.0109		231.7644
Total	0.0665	0.0999	1.0773	2.8900e-	0.2299	1.5900e-	0.2315	0.0610	1.4700e-	0.0624		231.5346	231.5346	0.0109		231.7644

3.6 Architectural Coating - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.3905					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.0721
Total	1.7228	2.1850	1.8681	2.9700e-		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.0721

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.3905					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297		282.0721

Total	1.7228	2.1850	1.8681	2.9700e-		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297		282.0721
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Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market (24 Hour)	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Convenience Market (24 Hour)	14.70	6.60	6.60	0.90	80.10	19.00	24	15	61

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.511818	0.073499	0.191840	0.131575	0.036332	0.005186	0.012677	0.022513	0.001864	0.002072	0.006564	0.000601	0.003458

5.0 Energy Detail

5.2 Energy by Land Use - NaturalGas

	NaturalGa	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Land Use	kBTU/yr	lb/day										lb/day					
Convenience	0.0019068	2.0000e-	1.9000e-	1.6000e-	0.0000		1.0000e-	1.0000e-		1.0000e-	1.0000e-		0.2243	0.2243	0.0000	0.0000	0.2257
Total		2.0000e-	1.9000e-	1.6000e-	0.0000		1.0000e-	1.0000e-		1.0000e-	1.0000e-		0.2243	0.2243	0.0000	0.0000	0.2257

6.0 Area Detail

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural	1.9000e-					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer	6.4200e-					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	3.0000e-	0.0000		0.0000	0.0000		0.0000	0.0000		7.0000e-	7.0000e-	0.0000		7.0000e-
Total	8.3200e-	0.0000	3.0000e-	0.0000		0.0000	0.0000		0.0000	0.0000		7.0000e-	7.0000e-	0.0000		7.0000e-

Roadside Sales Project

San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Convenience Market (24 Hour)	0.30	1000sqft	0.01	300.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	10			Operational Year	2018
Utility Company	San Diego Gas & Electric				
CO2 Intensity	648	CH4 Intensity	0.02	N2O Intensity	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Adjusted RPS Emission Factor

Land Use - Representative Project; values based on maximum floor areas and acreages allowed under the draft Zoning Ordinance revisions.

Construction Phase -

Vehicle Trips - Trip generation per Chen Ryan; trip length per County's Transportation Impact Fee.

Table Name	Column Name	Default Value	New Value
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.02
tblProjectCharacteristics	CO2IntensityFactor	720.49	648
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblProjectCharacteristics	OperationalYear	2014	2018
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	ST_TR	863.10	0.00
tblVehicleTrips	SU_TR	758.45	0.00
tblVehicleTrips	WD_TR	737.99	0.00

2.0 Emissions Summary

2.1 Overall Construction

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2017	0.0727	0.6809	0.4402	6.3000e-	1.7300e-	0.0458	0.0476	6.3000e-	0.0422	0.0429	0.0000	57.8017	57.8017	0.0172	0.0000	58.1636
Total	0.0727	0.6809	0.4402	6.3000e-	1.7300e-	0.0458	0.0476	6.3000e-	0.0422	0.0429	0.0000	57.8017	57.8017	0.0172	0.0000	58.1636

2.2 Overall Operational

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.5200e-	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-	1.0000e-	0.0000	0.0000	1.0000e-
Energy	0.0000	3.0000e-	3.0000e-	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.4180	1.4180	4.0000e-	1.0000e-	1.4218
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.1827	0.0000	0.1827	0.0108	0.0000	0.4094
Water						0.0000	0.0000		0.0000	0.0000	7.0500e-	0.1295	0.1366	7.3000e-	2.0000e-	0.1574
Total	1.5200e-	3.0000e-	3.0000e-	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1897	1.5475	1.7373	0.0116	3.0000e-	1.9886

3.0 Construction Detail

Construction Phase

Phase	Phase Name	Phase Type	Start Date	End Date	Num Days	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2017	1/2/2017	5	1	
2	Grading	Grading	1/3/2017	1/4/2017	5	2	
3	Building Construction	Building Construction	1/5/2017	5/24/2017	5	100	
4	Paving	Paving	5/25/2017	5/31/2017	5	5	
5	Architectural Coating	Architectural Coating	6/1/2017	6/7/2017	5	5	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Site Preparation	Graders	1	8.00	174	0.41
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37

Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
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Trips and VMT

Phase Name	Offroad Equipment	Worker Trip	Vendor Trip	Hauling Trip	Worker Trip	Vendor Trip	Hauling Trip	Worker Vehicle	Vendor	Hauling
Site Preparation	2	5.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.2 Site Preparation - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-	0.0000	2.7000e-	3.0000e-	0.0000	3.0000e-	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.3000e-	6.3400e-	3.6200e-	0.0000		3.9000e-	3.9000e-		3.5000e-	3.5000e-	0.0000	0.4336	0.4336	1.3000e-	0.0000	0.4364
Total	6.3000e-	6.3400e-	3.6200e-	0.0000	2.7000e-	3.9000e-	6.6000e-	3.0000e-	3.5000e-	3.8000e-	0.0000	0.4336	0.4336	1.3000e-	0.0000	0.4364

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	1.0000e-	2.0000e-	1.4000e-	0.0000	3.0000e-	0.0000	3.0000e-	1.0000e-	0.0000	1.0000e-	0.0000	0.0277	0.0277	0.0000	0.0000	0.0277
Total	1.0000e-	2.0000e-	1.4000e-	0.0000	3.0000e-	0.0000	3.0000e-	1.0000e-	0.0000	1.0000e-	0.0000	0.0277	0.0277	0.0000	0.0000	0.0277

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-	0.0000	2.7000e-	3.0000e-	0.0000	3.0000e-	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.3000e-	6.3400e-	3.6200e-	0.0000		3.9000e-	3.9000e-		3.5000e-	3.5000e-	0.0000	0.4336	0.4336	1.3000e-	0.0000	0.4364
Total	6.3000e-	6.3400e-	3.6200e-	0.0000	2.7000e-	3.9000e-	6.6000e-	3.0000e-	3.5000e-	3.8000e-	0.0000	0.4336	0.4336	1.3000e-	0.0000	0.4364

Mitigated Construction Off-Site

[illegible]

Worker	1.0000e-	2.0000e-	1.4000e-	0.0000	3.0000e-	0.0000	3.0000e-	1.0000e-	0.0000	1.0000e-	0.0000	0.0277	0.0277	0.0000	0.0000	0.0277
Total	1.0000e-	2.0000e-	1.4000e-	0.0000	3.0000e-	0.0000	3.0000e-	1.0000e-	0.0000	1.0000e-	0.0000	0.0277	0.0277	0.0000	0.0000	0.0277

3.3 Grading - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.5000e-	0.0000	7.5000e-	4.1000e-	0.0000	4.1000e-	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2000e-	0.0105	8.5800e-	1.0000e-		7.3000e-	7.3000e-		6.9000e-	6.9000e-	0.0000	1.0739	1.0739	2.1000e-	0.0000	1.0784
Total	1.2000e-	0.0105	8.5800e-	1.0000e-	7.5000e-	7.3000e-	1.4800e-	4.1000e-	6.9000e-	1.1000e-	0.0000	1.0739	1.0739	2.1000e-	0.0000	1.0784

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-	6.0000e-	5.7000e-	0.0000	1.2000e-	0.0000	1.3000e-	3.0000e-	0.0000	3.0000e-	0.0000	0.1106	0.1106	1.0000e-	0.0000	0.1108
Total	4.0000e-	6.0000e-	5.7000e-	0.0000	1.2000e-	0.0000	1.3000e-	3.0000e-	0.0000	3.0000e-	0.0000	0.1106	0.1106	1.0000e-	0.0000	0.1108

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.5000e-	0.0000	7.5000e-	4.1000e-	0.0000	4.1000e-	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2000e-	0.0105	8.5800e-	1.0000e-		7.3000e-	7.3000e-		6.9000e-	6.9000e-	0.0000	1.0739	1.0739	2.1000e-	0.0000	1.0784
Total	1.2000e-	0.0105	8.5800e-	1.0000e-	7.5000e-	7.3000e-	1.4800e-	4.1000e-	6.9000e-	1.1000e-	0.0000	1.0739	1.0739	2.1000e-	0.0000	1.0784

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-	6.0000e-	5.7000e-	0.0000	1.2000e-	0.0000	1.3000e-	3.0000e-	0.0000	3.0000e-	0.0000	0.1106	0.1106	1.0000e-	0.0000	0.1108
Total	4.0000e-	6.0000e-	5.7000e-	0.0000	1.2000e-	0.0000	1.3000e-	3.0000e-	0.0000	3.0000e-	0.0000	0.1106	0.1106	1.0000e-	0.0000	0.1108

3.4 Building Construction - 2017

Unmitigated Construction On-Site

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

Off-Road	0.0637	0.6337	0.4020	5.7000e-		0.0428	0.0428		0.0394	0.0394	0.0000	52.5954	52.5954	0.0161	0.0000	52.9339
Total	0.0637	0.6337	0.4020	5.7000e-		0.0428	0.0428		0.0394	0.0394	0.0000	52.5954	52.5954	0.0161	0.0000	52.9339

Unmitigated Construction Off-Site

[illegible]

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0637	0.6337	0.4020	5.7000e-		0.0428	0.0428		0.0394	0.0394	0.0000	52.5954	52.5954	0.0161	0.0000	52.9338
Total	0.0637	0.6337	0.4020	5.7000e-		0.0428	0.0428		0.0394	0.0394	0.0000	52.5954	52.5954	0.0161	0.0000	52.9338

Mitigated Construction Off-Site

[illegible]

3.5 Paving - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.6000e-	0.0246	0.0181	3.0000e-		1.5000e-	1.5000e-		1.3900e-	1.3900e-	0.0000	2.4243	2.4243	6.7000e-	0.0000	2.4384
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.6000e-	0.0246	0.0181	3.0000e-		1.5000e-	1.5000e-		1.3900e-	1.3900e-	0.0000	2.4243	2.4243	6.7000e-	0.0000	2.4384

Unmitigated Construction Off-Site

[illegible]

Off-Road	8.3000e-	5.4600e-	4.6700e-	1.0000e-		4.3000e-	4.3000e-		4.3000e-	4.3000e-	0.0000	0.6383	0.6383	7.0000e-	0.0000	0.6397
Total	4.3100e-	5.4600e-	4.6700e-	1.0000e-		4.3000e-	4.3000e-		4.3000e-	4.3000e-	0.0000	0.6383	0.6383	7.0000e-	0.0000	0.6397

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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

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

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market (24 Hour)	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Convenience Market (24 Hour)	14.70	6.60	6.60	0.90	80.10	19.00	24	15	61

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.511818	0.073499	0.191840	0.131575	0.036332	0.005186	0.012677	0.022513	0.001864	0.002072	0.006564	0.000601	0.003458

5.0 Energy Detail

5.2 Energy by Land Use - NaturalGas

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

Land Use	kBTU/yr	tons/yr										MT/yr					
Convenience	696	0.0000	3.0000e-	3.0000e-	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0371	0.0371	0.0000	0.0000	0.0374
Total		0.0000	3.0000e-	3.0000e-	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0371	0.0371	0.0000	0.0000	0.0374

5.3 Energy by Land Use - Electricity

	Electricity	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Convenience	4698	1.3809	4.0000e-	1.0000e-	1.3844
Total		1.3809	4.0000e-	1.0000e-	1.3844

6.0 Area Detail

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural	3.5000e-					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer	1.1700e-					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-	1.0000e-	0.0000	0.0000	1.0000e-
Total	1.5200e-	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-	1.0000e-	0.0000	0.0000	1.0000e-

7.0 Water Detail

	Indoor/Out	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Convenience	0.02222218	0.1366	7.3000e-	2.0000e-	0.1574
Total		0.1366	7.3000e-	2.0000e-	0.1574

8.0 Waste Detail

	Waste	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Convenience	0.9	0.1827	0.0108	0.0000	0.4094
Total		0.1827	0.0108	0.0000	0.4094

Microbrewery Project**San Diego County, Summer****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	5.00	1000sqft	4.00	5,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	10			Operational Year	2018

Utility Company San Diego Gas & Electric

CO2 Intensity	648	CH4 Intensity	0.02	N2O Intensity	0.004
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - Adjusted RPS Emission Factor

Land Use - Representative Project; values based on maximum floor areas and acreages allowed under the draft Zoning Ordinance revisions.

Vehicle Trips - Trip generation per Chen Ryan; trip length per County's Transportation Impact Fee.

Energy Use - Replaced based on microbrewery data

Water And Wastewater - Replaced based on microbrewery data

Table Name	Column Name	Default Value	New Value
tblEnergyUse	LightingElect	3.40	1.98
tblEnergyUse	NT24E	36.52	21.26
tblEnergyUse	NT24NG	48.51	194.25
tblEnergyUse	T24E	1.30	0.76
tblEnergyUse	T24NG	3.42	13.70
tblLandUse	LotAcreage	0.11	4.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.02
tblProjectCharacteristics	CO2IntensityFactor	720.49	648
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblProjectCharacteristics	OperationalYear	2014	2018
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

tblVehicleTrips	CC_TL	6.60	9.00
tblVehicleTrips	CNW_TL	6.60	9.00
tblVehicleTrips	CW_TL	14.70	9.00
tblVehicleTrips	ST_TR	2.59	160.00
tblVehicleTrips	SU_TR	2.59	160.00
tblVehicleTrips	WD_TR	2.59	160.00
tblWater	IndoorWaterUseRate	1,156,250.00	2,554,400.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	4.9047	51.8533	40.4743	0.0420	18.2962	2.7558	21.0520	9.9917	2.5354	12.5270	0.0000	4,234.620	4,234.6205	1.2375	0.0000	4,260.607
2018	6.7361	23.3420	17.7389	0.0273	0.2555	1.4955	1.5271	0.0678	1.4059	1.4144	0.0000	2,655.709	2,655.7093	0.6400	0.0000	2,669.149
Total	11.6408	75.1953	58.2132	0.0693	18.5516	4.2513	22.5790	10.0594	3.9413	13.9414	0.0000	6,890.329	6,890.3298	1.8775	0.0000	6,929.756

2.2 Overall Operational

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1388	0.0000	5.2000e-	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-	1.0900e-	0.0000		1.1600e-
Energy	0.0307	0.2793	0.2346	1.6800e-		0.0212	0.0212		0.0212	0.0212		335.1330	335.1330	6.4200e-	6.1400e-	337.1725
Mobile	2.7336	6.3034	29.0686	0.0766	5.1729	0.0892	5.2621	1.3809	0.0822	1.4631		6,252.621	6,252.6211	0.2404		6,257.669
Total	2.9031	6.5827	29.3037	0.0782	5.1729	0.1104	5.2833	1.3809	0.1034	1.4843		6,587.755	6,587.7552	0.2468	6.1400e-	6,594.843

3.0 Construction Detail

Construction Phase

Phase	Phase Name	Phase Type	Start Date	End Date	Num Days	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/28/2017	2/3/2017	5	5	
2	Grading	Grading	2/4/2017	2/15/2017	5	8	
3	Building Construction	Building Construction	2/16/2017	1/3/2018	5	230	
4	Paving	Paving	1/4/2018	1/29/2018	5	18	
5	Architectural Coating	Architectural Coating	1/30/2018	2/22/2018	5	18	

OffRoad Equipment

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

Grading	Excavators	1	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	2	6.00	130	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment	Worker Trip	Vendor Trip	Hauling Trip	Worker Trip	Vendor Trip	Hauling Trip	Worker Vehicle	Vendor	Hauling
Site Preparation	7	18.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	2.00	1.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.2 Site Preparation - 2017
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.8382	51.7535	39.3970	0.0391		2.7542	2.7542		2.5339	2.5339		4,003.085	4,003.0859	1.2265		4,028.843
Total	4.8382	51.7535	39.3970	0.0391	18.0663	2.7542	20.8205	9.9307	2.5339	12.4646		4,003.085	4,003.0859	1.2265		4,028.843

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	0.0665	0.0999	1.0773	2.8900e-	0.2299	1.5900e-	0.2315	0.0610	1.4700e-	0.0624		231.5346	231.5346	0.0109		231.7644
Total	0.0665	0.0999	1.0773	2.8900e-	0.2299	1.5900e-	0.2315	0.0610	1.4700e-	0.0624		231.5346	231.5346	0.0109		231.7644

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.8382	51.7535	39.3970	0.0391		2.7542	2.7542		2.5339	2.5339	0.0000	4,003.085	4,003.0859	1.2265		4,028.843
Total	4.8382	51.7535	39.3970	0.0391	18.0663	2.7542	20.8205	9.9307	2.5339	12.4646	0.0000	4,003.085	4,003.0859	1.2265		4,028.843

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	0.0665	0.0999	1.0773	2.8900e-	0.2299	1.5900e-	0.2315	0.0610	1.4700e-	0.0624		231.5346	231.5346	0.0109		231.7644
Total	0.0665	0.0999	1.0773	2.8900e-	0.2299	1.5900e-	0.2315	0.0610	1.4700e-	0.0624		231.5346	231.5346	0.0109		231.7644

3.3 Grading - 2017
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	3.4555	35.9825	25.3812	0.0297		2.0388	2.0388		1.8757	1.8757		3,043.666	3,043.6667	0.9326		3,063.250
Total	3.4555	35.9825	25.3812	0.0297	6.5523	2.0388	8.5912	3.3675	1.8757	5.2432		3,043.666	3,043.6667	0.9326		3,063.250

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	0.0554	0.0832	0.8977	2.4000e-	0.1916	1.3300e-	0.1929	0.0508	1.2200e-	0.0520		192.9455	192.9455	9.1200e-		193.1370
Total	0.0554	0.0832	0.8977	2.4000e-	0.1916	1.3300e-	0.1929	0.0508	1.2200e-	0.0520		192.9455	192.9455	9.1200e-		193.1370

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	3.4555	35.9825	25.3812	0.0297		2.0388	2.0388		1.8757	1.8757	0.0000	3,043.666	3,043.6667	0.9326		3,063.250
Total	3.4555	35.9825	25.3812	0.0297	6.5523	2.0388	8.5912	3.3675	1.8757	5.2432	0.0000	3,043.666	3,043.6667	0.9326		3,063.250

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	0.0554	0.0832	0.8977	2.4000e-	0.1916	1.3300e-	0.1929	0.0508	1.2200e-	0.0520		192.9455	192.9455	9.1200e-		193.1370
Total	0.0554	0.0832	0.8977	2.4000e-	0.1916	1.3300e-	0.1929	0.0508	1.2200e-	0.0520		192.9455	192.9455	9.1200e-		193.1370

3.4 Building Construction - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.805	2,639.8053	0.6497		2,653.449
Total	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.805	2,639.8053	0.6497		2,653.449

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	9.2400e-	0.0785	0.1024	2.2000e-	6.0000e-	1.1300e-	7.1300e-	1.7100e-	1.0400e-	2.7500e-		21.3764	21.3764	1.6000e-		21.3798
Worker	7.3900e-	0.0111	0.1197	3.2000e-	0.0256	1.8000e-	0.0257	6.7700e-	1.6000e-	6.9400e-		25.7261	25.7261	1.2200e-		25.7516
Total	0.0166	0.0896	0.2221	5.4000e-	0.0316	1.3100e-	0.0329	8.4800e-	1.2000e-	9.6900e-		47.1025	47.1025	1.3800e-		47.1314

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730	0.0000	2,639.805	2,639.8053	0.6497		2,653.449
Total	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730	0.0000	2,639.805	2,639.8053	0.6497		2,653.449

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	9.2400e-	0.0785	0.1024	2.2000e-	6.0000e-	1.1300e-	7.1300e-	1.7100e-	1.0400e-	2.7500e-		21.3764	21.3764	1.6000e-		21.3798
Worker	7.3900e-	0.0111	0.1197	3.2000e-	0.0256	1.8000e-	0.0257	6.7700e-	1.6000e-	6.9400e-		25.7261	25.7261	1.2200e-		25.7516
Total	0.0166	0.0896	0.2221	5.4000e-	0.0316	1.3100e-	0.0329	8.4800e-	1.2000e-	9.6900e-		47.1025	47.1025	1.3800e-		47.1314

3.4 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048		2,609.939	2,609.9390	0.6387		2,623.351
Total	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048		2,609.939	2,609.9390	0.6387		2,623.351

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	8.6900e-	0.0710	0.0976	2.2000e-	6.0000e-	1.0500e-	7.0500e-	1.7100e-	9.6000e-	2.6800e-		21.0094	21.0094	1.6000e-		21.0127
Worker	6.6800e-	0.0101	0.1086	3.2000e-	0.0256	1.7000e-	0.0257	6.7700e-	1.6000e-	6.9400e-		24.7609	24.7609	1.1300e-		24.7847
Total	0.0154	0.0812	0.2062	5.4000e-	0.0316	1.2200e-	0.0328	8.4800e-	1.1200e-	9.6200e-		45.7704	45.7704	1.2900e-		45.7974

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048	0.0000	2,609.938	2,609.9389	0.6387		2,623.351
Total	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048	0.0000	2,609.938	2,609.9389	0.6387		2,623.351

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	8.6900e-	0.0710	0.0976	2.2000e-	6.0000e-	1.0500e-	7.0500e-	1.7100e-	9.6000e-	2.6800e-		21.0094	21.0094	1.6000e-		21.0127
Worker	6.6800e-	0.0101	0.1086	3.2000e-	0.0256	1.7000e-	0.0257	6.7700e-	1.6000e-	6.9400e-		24.7609	24.7609	1.1300e-		24.7847
Total	0.0154	0.0812	0.2062	5.4000e-	0.0316	1.2200e-	0.0328	8.4800e-	1.1200e-	9.6200e-		45.7704	45.7704	1.2900e-		45.7974

3.5 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4060	14.3192	12.2631	0.0187		0.8272	0.8272		0.7628	0.7628		1,845.034	1,845.0348	0.5587		1,856.766
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4060	14.3192	12.2631	0.0187		0.8272	0.8272		0.7628	0.7628		1,845.034	1,845.0348	0.5587		1,856.766

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	0.0668	0.1013	1.0863	3.2100e-	0.2555	1.7300e-	0.2572	0.0678	1.6000e-	0.0694		247.6093	247.6093	0.0113		247.8470
Total	0.0668	0.1013	1.0863	3.2100e-	0.2555	1.7300e-	0.2572	0.0678	1.6000e-	0.0694		247.6093	247.6093	0.0113		247.8470

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4060	14.3192	12.2631	0.0187		0.8272	0.8272		0.7628	0.7628	0.0000	1,845.034	1,845.0348	0.5587		1,856.766
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4060	14.3192	12.2631	0.0187		0.8272	0.8272		0.7628	0.7628	0.0000	1,845.034	1,845.0348	0.5587		1,856.766

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	0.0668	0.1013	1.0863	3.2100e-	0.2555	1.7300e-	0.2572	0.0678	1.6000e-	0.0694		247.6093	247.6093	0.0113		247.8470
Total	0.0668	0.1013	1.0863	3.2100e-	0.2555	1.7300e-	0.2572	0.0678	1.6000e-	0.0694		247.6093	247.6093	0.0113		247.8470

3.6 Architectural Coating - 2018
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	6.4375					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.0102
Total	6.7361	2.0058	1.8542	2.9700e-		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.0102

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	6.4375					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.0102
Total	6.7361	2.0058	1.8542	2.9700e-		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.0102

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.7336	6.3034	29.0686	0.0766	5.1729	0.0892	5.2621	1.3809	0.0822	1.4631		6,252.621	6,252.6211	0.2404		6,257.669
Unmitigated	2.7336	6.3034	29.0686	0.0766	5.1729	0.0892	5.2621	1.3809	0.0822	1.4631		6,252.621	6,252.6211	0.2404		6,257.669

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Refrigerated Warehouse-No Rail	800.00	800.00	800.00	2,444,770	2,444,770
Total	800.00	800.00	800.00	2,444,770	2,444,770

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Refrigerated Warehouse-No Rail	9.00	9.00	9.00	59.00	0.00	41.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.511818	0.073499	0.191840	0.131575	0.036332	0.005186	0.012677	0.022513	0.001864	0.002072	0.006564	0.000601	0.003458

5.0 Energy Detail

5.2 Energy by Land Use - NaturalGas

	NaturalGa	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Refrigerated	2.84863	0.0307	0.2793	0.2346	1.6800e-		0.0212	0.0212		0.0212	0.0212		335.1330	335.1330	6.4200e-	6.1400e-	337.1725
Total		0.0307	0.2793	0.2346	1.6800e-		0.0212	0.0212		0.0212	0.0212		335.1330	335.1330	6.4200e-	6.1400e-	337.1725

6.0 Area Detail

Mitigated

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Consumer	0.1070					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-	0.0000	5.2000e-	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-	1.0900e-	0.0000		1.1600e-
Architectural	0.0318					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.1388	0.0000	5.2000e-	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-	1.0900e-	0.0000		1.1600e-

Microbrewery Project

San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	5.00	1000sqft	4.00	5,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	10			Operational Year	2018

Utility Company San Diego Gas & Electric

CO2 Intensity	648	CH4 Intensity	0.02	N2O Intensity	0.004
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - Adjusted RPS Emission Factor

Land Use - Representative Project; values based on maximum floor areas and acreages allowed under the draft Zoning Ordinance revisions.

Vehicle Trips - Trip generation per Chen Ryan; trip length per County's Transportation Impact Fee.

Energy Use - Replaced based on microbrewery data

Water And Wastewater - Replaced based on microbrewery data

Table Name	Column Name	Default Value	New Value
tblEnergyUse	LightingElect	3.40	1.98
tblEnergyUse	NT24E	36.52	21.26
tblEnergyUse	NT24NG	48.51	194.25
tblEnergyUse	T24E	1.30	0.76
tblEnergyUse	T24NG	3.42	13.70
tblLandUse	LotAcreage	0.11	4.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.02
tblProjectCharacteristics	CO2IntensityFactor	720.49	648
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblProjectCharacteristics	OperationalYear	2014	2018
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

tblVehicleTrips	CC_TL	6.60	9.00
tblVehicleTrips	CNW_TL	6.60	9.00
tblVehicleTrips	CW_TL	14.70	9.00
tblVehicleTrips	ST_TR	2.59	160.00
tblVehicleTrips	SU_TR	2.59	160.00
tblVehicleTrips	WD_TR	2.59	160.00
tblWater	IndoorWaterUseRate	1,156,250.00	2,554,400.00

2.0 Emissions Summary

2.1 Overall Construction

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2017	0.3804	3.2816	2.2909	3.3300e-	0.0762	0.2174	0.2936	0.0396	0.2039	0.2435	0.0000	297.7985	297.7985	0.0733	0.0000	299.3370
2018	0.0779	0.1830	0.1629	2.6000e-	2.2900e-	0.0111	0.0134	6.1000e-	0.0103	0.0110	0.0000	22.8906	22.8906	5.7400e-	0.0000	23.0112
Total	0.4583	3.4645	2.4538	3.5900e-	0.0785	0.2284	0.3069	0.0402	0.2142	0.2544	0.0000	320.6891	320.6891	0.0790	0.0000	322.3482

2.2 Overall Operational

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0253	0.0000	5.0000e-	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-	9.0000e-	0.0000	0.0000	9.0000e-
Energy	5.6100e-	0.0510	0.0428	3.1000e-		3.8700e-	3.8700e-		3.8700e-	3.8700e-	0.0000	90.7564	90.7564	2.1500e-	1.2300e-	91.1844
Mobile	0.4962	1.2139	5.3676	0.0133	0.9193	0.0162	0.9356	0.2459	0.0150	0.2609	0.0000	989.5097	989.5097	0.0397	0.0000	990.3425
Waste						0.0000	0.0000		0.0000	0.0000	0.9541	0.0000	0.9541	0.0564	0.0000	2.1381
Water						0.0000	0.0000		0.0000	0.0000	0.8104	9.7763	10.5867	0.0835	2.0200e-	12.9681
Total	0.5271	1.2649	5.4104	0.0136	0.9193	0.0201	0.9394	0.2459	0.0188	0.2647	1.7645	1,090.042	1,091.8069	0.1817	3.2500e-	1,096.633

3.0 Construction Detail

Construction Phase

Phase	Phase Name	Phase Type	Start Date	End Date	Num Days	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/28/2017	2/3/2017	5	5	
2	Grading	Grading	2/4/2017	2/15/2017	5	8	
3	Building Construction	Building Construction	2/16/2017	1/3/2018	5	230	
4	Paving	Paving	1/4/2018	1/29/2018	5	18	
5	Architectural Coating	Architectural Coating	1/30/2018	2/22/2018	5	18	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
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Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	2	6.00	130	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment	Worker Trip	Vendor Trip	Hauling Trip	Worker Trip	Vendor Trip	Hauling Trip	Worker Vehicle	Vendor	Hauling
Site Preparation	7	18.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	2.00	1.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.2 Site Preparation - 2017
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0121	0.1294	0.0985	1.0000e-		6.8900e-	6.8900e-		6.3300e-	6.3300e-	0.0000	9.0789	9.0789	2.7800e-	0.0000	9.1373
Total	0.0121	0.1294	0.0985	1.0000e-	0.0452	6.8900e-	0.0521	0.0248	6.3300e-	0.0312	0.0000	9.0789	9.0789	2.7800e-	0.0000	9.1373

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	1.6000e-	2.8000e-	2.5400e-	1.0000e-	5.6000e-	0.0000	5.7000e-	1.5000e-	0.0000	1.5000e-	0.0000	0.4979	0.4979	2.0000e-	0.0000	0.4984

Total	1.6000e-	2.8000e-	2.5400e-	1.0000e-	5.6000e-	0.0000	5.7000e-	1.5000e-	0.0000	1.5000e-	0.0000	0.4979	0.4979	2.0000e-	0.0000	0.4984
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0121	0.1294	0.0985	1.0000e-		6.8900e-	6.8900e-		6.3300e-	6.3300e-	0.0000	9.0788	9.0788	2.7800e-	0.0000	9.1373
Total	0.0121	0.1294	0.0985	1.0000e-	0.0452	6.8900e-	0.0521	0.0248	6.3300e-	0.0312	0.0000	9.0788	9.0788	2.7800e-	0.0000	9.1373

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	1.6000e-	2.8000e-	2.5400e-	1.0000e-	5.6000e-	0.0000	5.7000e-	1.5000e-	0.0000	1.5000e-	0.0000	0.4979	0.4979	2.0000e-	0.0000	0.4984
Total	1.6000e-	2.8000e-	2.5400e-	1.0000e-	5.6000e-	0.0000	5.7000e-	1.5000e-	0.0000	1.5000e-	0.0000	0.4979	0.4979	2.0000e-	0.0000	0.4984

3.3 Grading - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0138	0.1439	0.1015	1.2000e-		8.1600e-	8.1600e-		7.5000e-	7.5000e-	0.0000	11.0447	11.0447	3.3800e-	0.0000	11.1157
Total	0.0138	0.1439	0.1015	1.2000e-	0.0262	8.1600e-	0.0344	0.0135	7.5000e-	0.0210	0.0000	11.0447	11.0447	3.3800e-	0.0000	11.1157

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-	3.7000e-	3.3900e-	1.0000e-	7.5000e-	1.0000e-	7.5000e-	2.0000e-	0.0000	2.0000e-	0.0000	0.6638	0.6638	3.0000e-	0.0000	0.6645
Total	2.2000e-	3.7000e-	3.3900e-	1.0000e-	7.5000e-	1.0000e-	7.5000e-	2.0000e-	0.0000	2.0000e-	0.0000	0.6638	0.6638	3.0000e-	0.0000	0.6645

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0138	0.1439	0.1015	1.2000e-		8.1600e-	8.1600e-		7.5000e-	7.5000e-	0.0000	11.0447	11.0447	3.3800e-	0.0000	11.1157

Total	0.0138	0.1439	0.1015	1.2000e-	0.0262	8.1600e-	0.0344	0.0135	7.5000e-	0.0210	0.0000	11.0447	11.0447	3.3800e-	0.0000	11.1157
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-	3.7000e-	3.3900e-	1.0000e-	7.5000e-	1.0000e-	7.5000e-	2.0000e-	0.0000	2.0000e-	0.0000	0.6638	0.6638	3.0000e-	0.0000	0.6645
Total	2.2000e-	3.7000e-	3.3900e-	1.0000e-	7.5000e-	1.0000e-	7.5000e-	2.0000e-	0.0000	2.0000e-	0.0000	0.6638	0.6638	3.0000e-	0.0000	0.6645

3.4 Building Construction - 2017
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3521	2.9970	2.0577	3.0400e-		0.2022	0.2022		0.1899	0.1899	0.0000	271.8088	271.8088	0.0669	0.0000	273.2136
Total	0.3521	2.9970	2.0577	3.0400e-		0.2022	0.2022		0.1899	0.1899	0.0000	271.8088	271.8088	0.0669	0.0000	273.2136

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1400e-	9.1800e-	0.0145	2.0000e-	6.7000e-	1.3000e-	8.0000e-	1.9000e-	1.2000e-	3.1000e-	0.0000	2.1932	2.1932	2.0000e-	0.0000	2.1936
Worker	8.2000e-	1.3900e-	0.0128	3.0000e-	2.8300e-	2.0000e-	2.8500e-	7.5000e-	2.0000e-	7.7000e-	0.0000	2.5114	2.5114	1.3000e-	0.0000	2.5140
Total	1.9600e-	0.0106	0.0273	5.0000e-	3.5000e-	1.5000e-	3.6500e-	9.4000e-	1.4000e-	1.0800e-	0.0000	4.7046	4.7046	1.5000e-	0.0000	4.7076

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3521	2.9970	2.0577	3.0400e-		0.2022	0.2022		0.1899	0.1899	0.0000	271.8085	271.8085	0.0669	0.0000	273.2133
Total	0.3521	2.9970	2.0577	3.0400e-		0.2022	0.2022		0.1899	0.1899	0.0000	271.8085	271.8085	0.0669	0.0000	273.2133

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1400e-	9.1800e-	0.0145	2.0000e-	6.7000e-	1.3000e-	8.0000e-	1.9000e-	1.2000e-	3.1000e-	0.0000	2.1932	2.1932	2.0000e-	0.0000	2.1936
Worker	8.2000e-	1.3900e-	0.0128	3.0000e-	2.8300e-	2.0000e-	2.8500e-	7.5000e-	2.0000e-	7.7000e-	0.0000	2.5114	2.5114	1.3000e-	0.0000	2.5140
Total	1.9600e-	0.0106	0.0273	5.0000e-	3.5000e-	1.5000e-	3.6500e-	9.4000e-	1.4000e-	1.0800e-	0.0000	4.7046	4.7046	1.5000e-	0.0000	4.7076

3.4 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.0000e-	0.0349	0.0263	4.0000e-		2.2400e-	2.2400e-		2.1100e-	2.1100e-	0.0000	3.5516	3.5516	8.7000e-	0.0000	3.5698
Total	4.0000e-	0.0349	0.0263	4.0000e-		2.2400e-	2.2400e-		2.1100e-	2.1100e-	0.0000	3.5516	3.5516	8.7000e-	0.0000	3.5698

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-	1.1000e-	1.8000e-	0.0000	1.0000e-	0.0000	1.0000e-	0.0000	0.0000	0.0000	0.0000	0.0285	0.0285	0.0000	0.0000	0.0285
Worker	1.0000e-	2.0000e-	1.5000e-	0.0000	4.0000e-	0.0000	4.0000e-	1.0000e-	0.0000	1.0000e-	0.0000	0.0319	0.0319	0.0000	0.0000	0.0320
Total	2.0000e-	1.3000e-	3.3000e-	0.0000	5.0000e-	0.0000	5.0000e-	1.0000e-	0.0000	1.0000e-	0.0000	0.0604	0.0604	0.0000	0.0000	0.0605

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.0000e-	0.0349	0.0263	4.0000e-		2.2400e-	2.2400e-		2.1100e-	2.1100e-	0.0000	3.5515	3.5515	8.7000e-	0.0000	3.5698
Total	4.0000e-	0.0349	0.0263	4.0000e-		2.2400e-	2.2400e-		2.1100e-	2.1100e-	0.0000	3.5515	3.5515	8.7000e-	0.0000	3.5698

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-	1.1000e-	1.8000e-	0.0000	1.0000e-	0.0000	1.0000e-	0.0000	0.0000	0.0000	0.0000	0.0285	0.0285	0.0000	0.0000	0.0285
Worker	1.0000e-	2.0000e-	1.5000e-	0.0000	4.0000e-	0.0000	4.0000e-	1.0000e-	0.0000	1.0000e-	0.0000	0.0319	0.0319	0.0000	0.0000	0.0320
Total	2.0000e-	1.3000e-	3.3000e-	0.0000	5.0000e-	0.0000	5.0000e-	1.0000e-	0.0000	1.0000e-	0.0000	0.0604	0.0604	0.0000	0.0000	0.0605

3.5 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0127	0.1289	0.1104	1.7000e-		7.4500e-	7.4500e-		6.8700e-	6.8700e-	0.0000	15.0641	15.0641	4.5600e-	0.0000	15.1599
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0127	0.1289	0.1104	1.7000e-		7.4500e-	7.4500e-		6.8700e-	6.8700e-	0.0000	15.0641	15.0641	4.5600e-	0.0000	15.1599

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	5.8000e-	1.0100e-	9.2000e-	3.0000e-	2.2400e-	2.0000e-	2.2600e-	6.0000e-	1.0000e-	6.1000e-	0.0000	1.9166	1.9166	9.0000e-	0.0000	1.9185
Total	5.8000e-	1.0100e-	9.2000e-	3.0000e-	2.2400e-	2.0000e-	2.2600e-	6.0000e-	1.0000e-	6.1000e-	0.0000	1.9166	1.9166	9.0000e-	0.0000	1.9185

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0127	0.1289	0.1104	1.7000e-		7.4500e-	7.4500e-		6.8700e-	6.8700e-	0.0000	15.0641	15.0641	4.5600e-	0.0000	15.1599
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0127	0.1289	0.1104	1.7000e-		7.4500e-	7.4500e-		6.8700e-	6.8700e-	0.0000	15.0641	15.0641	4.5600e-	0.0000	15.1599

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	5.8000e-	1.0100e-	9.2000e-	3.0000e-	2.2400e-	2.0000e-	2.2600e-	6.0000e-	1.0000e-	6.1000e-	0.0000	1.9166	1.9166	9.0000e-	0.0000	1.9185
Total	5.8000e-	1.0100e-	9.2000e-	3.0000e-	2.2400e-	2.0000e-	2.2600e-	6.0000e-	1.0000e-	6.1000e-	0.0000	1.9166	1.9166	9.0000e-	0.0000	1.9185

3.6 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0579					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6900e-	0.0181	0.0167	3.0000e-		1.3500e-	1.3500e-		1.3500e-	1.3500e-	0.0000	2.2979	2.2979	2.2000e-	0.0000	2.3025
Total	0.0606	0.0181	0.0167	3.0000e-		1.3500e-	1.3500e-		1.3500e-	1.3500e-	0.0000	2.2979	2.2979	2.2000e-	0.0000	2.3025

Unmitigated Construction Off-Site

[illegible]

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0579					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6900e-	0.0181	0.0167	3.0000e-		1.3500e-	1.3500e-		1.3500e-	1.3500e-	0.0000	2.2979	2.2979	2.2000e-	0.0000	2.3025
Total	0.0606	0.0181	0.0167	3.0000e-		1.3500e-	1.3500e-		1.3500e-	1.3500e-	0.0000	2.2979	2.2979	2.2000e-	0.0000	2.3025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.4962	1.2139	5.3676	0.0133	0.9193	0.0162	0.9356	0.2459	0.0150	0.2609	0.0000	989.5097	989.5097	0.0397	0.0000	990.3425
Unmitigated	0.4962	1.2139	5.3676	0.0133	0.9193	0.0162	0.9356	0.2459	0.0150	0.2609	0.0000	989.5097	989.5097	0.0397	0.0000	990.3425

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Refrigerated Warehouse-No Rail	800.00	800.00	800.00	2,444,770	2,444,770
Total	800.00	800.00	800.00	2,444,770	2,444,770

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Refrigerated Warehouse-No Rail	9.00	9.00	9.00	59.00	0.00	41.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.511818	0.073499	0.191840	0.131575	0.036332	0.005186	0.012677	0.022513	0.001864	0.002072	0.006564	0.000601	0.003458

5.0 Energy Detail

5.2 Energy by Land Use - NaturalGas

	NaturalGa	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Refrigerated	1.03975e+	5.6100e-	0.0510	0.0428	3.1000e-		3.8700e-	3.8700e-		3.8700e-	3.8700e-	0.0000	55.4850	55.4850	1.0600e-	1.0200e-	55.8227
Total		5.6100e-	0.0510	0.0428	3.1000e-		3.8700e-	3.8700e-		3.8700e-	3.8700e-	0.0000	55.4850	55.4850	1.0600e-	1.0200e-	55.8227

5.3 Energy by Land Use - Electricity

	Electricity	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Refrigerated	120000	35.2713	1.0900e-	2.2000e-	35.3617
Total		35.2713	1.0900e-	2.2000e-	35.3617

6.0 Area Detail

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural	5.7900e-					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer	0.0195					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	5.0000e-	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-	9.0000e-	0.0000	0.0000	9.0000e-
Total	0.0253	0.0000	5.0000e-	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-	9.0000e-	0.0000	0.0000	9.0000e-

7.0 Water Detail

	Indoor/Out	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Refrigerated	2.5544 / 0	10.5867	0.0835	2.0200e-	12.9681
Total		10.5867	0.0835	2.0200e-	12.9681

8.0 Waste Detail

	Waste	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Refrigerated	4.7	0.9541	0.0564	0.0000	2.1381
Total		0.9541	0.0564	0.0000	2.1381

Homestay Project

San Diego County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hotel	1.00	Room	0.03	500.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	10			Operational Year	2018
Utility Company	San Diego Gas & Electric				
CO2 Intensity	648	CH4 Intensity	0.02	N2O Intensity	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Adjusted RPS Emission Factor

Land Use - Representative Project; values based on maximum floor areas and acreages allowed under the draft Zoning Ordinance revisions.

Construction Phase -

Vehicle Trips - Trip generation per Chen Ryan; trip length per County's Transportation Impact Fee.

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	1,452.00	500.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.02
tblProjectCharacteristics	CO2IntensityFactor	720.49	648
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblProjectCharacteristics	OperationalYear	2014	2018
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	CC_TL	6.60	9.00
tblVehicleTrips	CNW_TL	6.60	9.00
tblVehicleTrips	CW_TL	14.70	9.00
tblVehicleTrips	ST_TR	8.19	8.00
tblVehicleTrips	SU_TR	5.95	8.00
tblVehicleTrips	WD_TR	8.17	8.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	2.6498	12.7129	9.1810	0.0140	0.8805	0.8553	1.6080	0.4477	0.7869	1.1415	0.0000	1,312.443	1,312.4435	0.3553	0.0000	1,319.904
Total	2.6498	12.7129	9.1810	0.0140	0.8805	0.8553	1.6080	0.4477	0.7869	1.1415	0.0000	1,312.443	1,312.4435	0.3553	0.0000	1,319.904

2.2 Overall Operational

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0139	0.0000	1.0000e-	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-	2.2000e-	0.0000		2.3000e-
Energy	9.3000e-	8.4500e-	7.1000e-	5.0000e-		6.4000e-	6.4000e-		6.4000e-	6.4000e-		10.1370	10.1370	1.9000e-	1.9000e-	10.1987
Mobile	0.0246	0.0483	0.2285	5.6000e-	0.0375	6.6000e-	0.0381	0.0100	6.1000e-	0.0106		45.7185	45.7185	1.8000e-		45.7563
Total	0.0394	0.0567	0.2357	6.1000e-	0.0375	1.3000e-	0.0388	0.0100	1.2500e-	0.0113		55.8557	55.8557	1.9900e-	1.9000e-	55.9553

3.0 Construction Detail

Construction Phase

Phase	Phase Name	Phase Type	Start Date	End Date	Num Days	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2017	1/2/2017	5	1	
2	Grading	Grading	1/3/2017	1/4/2017	5	2	
3	Building Construction	Building Construction	1/5/2017	5/24/2017	5	100	
4	Paving	Paving	5/25/2017	5/31/2017	5	5	
5	Architectural Coating	Architectural Coating	6/1/2017	6/7/2017	5	5	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Site Preparation	Graders	1	8.00	174	0.41
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment	Worker Trip	Vendor Trip	Hauling Trip	Worker Trip	Vendor Trip	Hauling Trip	Worker Vehicle	Vendor	Hauling
Site Preparation	2	5.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.2 Site Preparation - 2017
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.2694	12.6852	7.2319	9.3300e-		0.7705	0.7705		0.7089	0.7089		955.8663	955.8663	0.2929		962.0167
Total	1.2694	12.6852	7.2319	9.3300e-	0.5303	0.7705	1.3007	0.0573	0.7089	0.7661		955.8663	955.8663	0.2929		962.0167

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	0.0185	0.0277	0.2993	8.0000e-	0.0639	4.4000e-	0.0643	0.0169	4.1000e-	0.0173		64.3152	64.3152	3.0400e-		64.3790
Total	0.0185	0.0277	0.2993	8.0000e-	0.0639	4.4000e-	0.0643	0.0169	4.1000e-	0.0173		64.3152	64.3152	3.0400e-		64.3790

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.2694	12.6852	7.2319	9.3300e-		0.7705	0.7705		0.7089	0.7089	0.0000	955.8663	955.8663	0.2929		962.0167
Total	1.2694	12.6852	7.2319	9.3300e-	0.5303	0.7705	1.3007	0.0573	0.7089	0.7661	0.0000	955.8663	955.8663	0.2929		962.0167

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
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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	0.0185	0.0277	0.2993	8.0000e-	0.0639	4.4000e-	0.0643	0.0169	4.1000e-	0.0173		64.3152	64.3152	3.0400e-		64.3790
Total	0.0185	0.0277	0.2993	8.0000e-	0.0639	4.4000e-	0.0643	0.0169	4.1000e-	0.0173		64.3152	64.3152	3.0400e-		64.3790

3.3 Grading - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	1.2049	10.4761	8.5825	0.0120		0.7266	0.7266		0.6930	0.6930		1,183.813	1,183.8131	0.2333		1,188.711
Total	1.2049	10.4761	8.5825	0.0120	0.7528	0.7266	1.4794	0.4138	0.6930	1.1068		1,183.813	1,183.8131	0.2333		1,188.711

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	0.0369	0.0555	0.5985	1.6000e-	0.1277	8.9000e-	0.1286	0.0339	8.2000e-	0.0347		128.6303	128.6303	6.0800e-		128.7580
Total	0.0369	0.0555	0.5985	1.6000e-	0.1277	8.9000e-	0.1286	0.0339	8.2000e-	0.0347		128.6303	128.6303	6.0800e-		128.7580

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	1.2049	10.4761	8.5825	0.0120		0.7266	0.7266		0.6930	0.6930	0.0000	1,183.813	1,183.8131	0.2333		1,188.711
Total	1.2049	10.4761	8.5825	0.0120	0.7528	0.7266	1.4794	0.4138	0.6930	1.1068	0.0000	1,183.813	1,183.8131	0.2333		1,188.711

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	0.0369	0.0555	0.5985	1.6000e-	0.1277	8.9000e-	0.1286	0.0339	8.2000e-	0.0347		128.6303	128.6303	6.0800e-		128.7580
Total	0.0369	0.0555	0.5985	1.6000e-	0.1277	8.9000e-	0.1286	0.0339	8.2000e-	0.0347		128.6303	128.6303	6.0800e-		128.7580

3.4 Building Construction - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2740	12.6738	8.0395	0.0113		0.8553	0.8553		0.7869	0.7869		1,159.531	1,159.5310	0.3553		1,166.991
Total	1.2740	12.6738	8.0395	0.0113		0.8553	0.8553		0.7869	0.7869		1,159.531	1,159.5310	0.3553		1,166.991

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2740	12.6738	8.0395	0.0113		0.8553	0.8553		0.7869	0.7869	0.0000	1,159.531	1,159.5310	0.3553		1,166.991
Total	1.2740	12.6738	8.0395	0.0113		0.8553	0.8553		0.7869	0.7869	0.0000	1,159.531	1,159.5310	0.3553		1,166.991

Mitigated Construction Off-Site

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

3.5 Paving - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0406	9.8344	7.2432	0.0111		0.6018	0.6018		0.5572	0.5572		1,068.936	1,068.9366	0.2968		1,075.169
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0406	9.8344	7.2432	0.0111		0.6018	0.6018		0.5572	0.5572		1,068.936	1,068.9366	0.2968		1,075.169

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
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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	0.0665	0.0999	1.0773	2.8900e-	0.2299	1.5900e-	0.2315	0.0610	1.4700e-	0.0624		231.5346	231.5346	0.0109		231.7644
Total	0.0665	0.0999	1.0773	2.8900e-	0.2299	1.5900e-	0.2315	0.0610	1.4700e-	0.0624		231.5346	231.5346	0.0109		231.7644

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0406	9.8344	7.2432	0.0111		0.6018	0.6018		0.5572	0.5572	0.0000	1,068.936	1,068.9366	0.2968		1,075.169
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0406	9.8344	7.2432	0.0111		0.6018	0.6018		0.5572	0.5572	0.0000	1,068.936	1,068.9366	0.2968		1,075.169

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	0.0665	0.0999	1.0773	2.8900e-	0.2299	1.5900e-	0.2315	0.0610	1.4700e-	0.0624		231.5346	231.5346	0.0109		231.7644
Total	0.0665	0.0999	1.0773	2.8900e-	0.2299	1.5900e-	0.2315	0.0610	1.4700e-	0.0624		231.5346	231.5346	0.0109		231.7644

3.6 Architectural Coating - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.3175					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.0721
Total	2.6498	2.1850	1.8681	2.9700e-		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.0721

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.3175					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297		282.0721
Total	2.6498	2.1850	1.8681	2.9700e-		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297		282.0721

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0246	0.0483	0.2285	5.6000e-	0.0375	6.6000e-	0.0381	0.0100	6.1000e-	0.0106		45.7185	45.7185	1.8000e-		45.7563
Unmitigated	0.0246	0.0483	0.2285	5.6000e-	0.0375	6.6000e-	0.0381	0.0100	6.1000e-	0.0106		45.7185	45.7185	1.8000e-		45.7563

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hotel	8.00	8.00	8.00	17,702	17,702
Total	8.00	8.00	8.00	17,702	17,702

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Hotel	9.00	9.00	9.00	19.40	61.60	19.00	58	38	4

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.511818	0.073499	0.191840	0.131575	0.036332	0.005186	0.012677	0.022513	0.001864	0.002072	0.006564	0.000601	0.003458

5.0 Energy Detail

5.2 Energy by Land Use - NaturalGas

	NaturalGa	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Hotel	0.0861644	9.3000e-	8.4500e-	7.1000e-	5.0000e-		6.4000e-	6.4000e-		6.4000e-	6.4000e-		10.1370	10.1370	1.9000e-	1.9000e-	10.1987
Total		9.3000e-	8.4500e-	7.1000e-	5.0000e-		6.4000e-	6.4000e-		6.4000e-	6.4000e-		10.1370	10.1370	1.9000e-	1.9000e-	10.1987

6.0 Area Detail

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural	3.1700e-					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer	0.0107					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-	0.0000	1.0000e-	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-	2.2000e-	0.0000		2.3000e-
Total	0.0139	0.0000	1.0000e-	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-	2.2000e-	0.0000		2.3000e-

Homestay Project

San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hotel	1.00	Room	0.03	500.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	10			Operational Year	2018
Utility Company	San Diego Gas & Electric				
CO2 Intensity	648	CH4 Intensity	0.02	N2O Intensity	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Adjusted RPS Emission Factor

Land Use - Representative Project; values based on maximum floor areas and acreages allowed under the draft Zoning Ordinance revisions.

Construction Phase -

Vehicle Trips - Trip generation per Chen Ryan; trip length per County's Transportation Impact Fee.

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	1,452.00	500.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.02
tblProjectCharacteristics	CO2IntensityFactor	720.49	648
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblProjectCharacteristics	OperationalYear	2014	2018
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	CC_TL	6.60	9.00
tblVehicleTrips	CNW_TL	6.60	9.00
tblVehicleTrips	CW_TL	14.70	9.00
tblVehicleTrips	ST_TR	8.19	8.00
tblVehicleTrips	SU_TR	5.95	8.00
tblVehicleTrips	WD_TR	8.17	8.00

2.0 Emissions Summary

2.1 Overall Construction

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2017	0.0750	0.6809	0.4402	6.3000e-	1.7300e-	0.0458	0.0476	6.3000e-	0.0422	0.0429	0.0000	57.8016	57.8016	0.0172	0.0000	58.1635
Total	0.0750	0.6809	0.4402	6.3000e-	1.7300e-	0.0458	0.0476	6.3000e-	0.0422	0.0429	0.0000	57.8016	57.8016	0.0172	0.0000	58.1635

2.2 Overall Operational

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.5300e-	0.0000	1.0000e-	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-	2.0000e-	0.0000	0.0000	2.0000e-
Energy	1.7000e-	1.5400e-	1.3000e-	1.0000e-		1.2000e-	1.2000e-		1.2000e-	1.2000e-	0.0000	4.6573	4.6573	1.2000e-	5.0000e-	4.6751
Mobile	4.4700e-	9.2900e-	0.0432	1.0000e-	6.6600e-	1.2000e-	6.7800e-	1.7800e-	1.1000e-	1.8900e-	0.0000	7.2371	7.2371	3.0000e-	0.0000	7.2434
Waste						0.0000	0.0000		0.0000	0.0000	0.1117	0.0000	0.1117	6.6000e-	0.0000	0.2502
Water						0.0000	0.0000		0.0000	0.0000	8.0500e-	0.1063	0.1143	8.3000e-	2.0000e-	0.1380
Total	7.1700e-	0.0108	0.0445	1.1000e-	6.6600e-	2.4000e-	6.9000e-	1.7800e-	2.3000e-	2.0100e-	0.1197	12.0007	12.1204	7.8500e-	7.0000e-	12.3067

3.0 Construction Detail

Construction Phase

Phase	Phase Name	Phase Type	Start Date	End Date	Num Days	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2017	1/2/2017	5	1	
2	Grading	Grading	1/3/2017	1/4/2017	5	2	
3	Building Construction	Building Construction	1/5/2017	5/24/2017	5	100	
4	Paving	Paving	5/25/2017	5/31/2017	5	5	
5	Architectural Coating	Architectural Coating	6/1/2017	6/7/2017	5	5	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Site Preparation	Graders	1	8.00	174	0.41
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38

Grading	Rubber Tired Dozers	1	1.00	255	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment	Worker Trip	Vendor Trip	Hauling Trip	Worker Trip	Vendor Trip	Hauling Trip	Worker Vehicle	Vendor	Hauling
Site Preparation	2	5.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.2 Site Preparation - 2017
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-	0.0000	2.7000e-	3.0000e-	0.0000	3.0000e-	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.3000e-	6.3400e-	3.6200e-	0.0000		3.9000e-	3.9000e-		3.5000e-	3.5000e-	0.0000	0.4336	0.4336	1.3000e-	0.0000	0.4364
Total	6.3000e-	6.3400e-	3.6200e-	0.0000	2.7000e-	3.9000e-	6.6000e-	3.0000e-	3.5000e-	3.8000e-	0.0000	0.4336	0.4336	1.3000e-	0.0000	0.4364

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	1.0000e-	2.0000e-	1.4000e-	0.0000	3.0000e-	0.0000	3.0000e-	1.0000e-	0.0000	1.0000e-	0.0000	0.0277	0.0277	0.0000	0.0000	0.0277
Total	1.0000e-	2.0000e-	1.4000e-	0.0000	3.0000e-	0.0000	3.0000e-	1.0000e-	0.0000	1.0000e-	0.0000	0.0277	0.0277	0.0000	0.0000	0.0277

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-	0.0000	2.7000e-	3.0000e-	0.0000	3.0000e-	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.3000e-	6.3400e-	3.6200e-	0.0000		3.9000e-	3.9000e-		3.5000e-	3.5000e-	0.0000	0.4336	0.4336	1.3000e-	0.0000	0.4364
Total	6.3000e-	6.3400e-	3.6200e-	0.0000	2.7000e-	3.9000e-	6.6000e-	3.0000e-	3.5000e-	3.8000e-	0.0000	0.4336	0.4336	1.3000e-	0.0000	0.4364

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	1.0000e-	2.0000e-	1.4000e-	0.0000	3.0000e-	0.0000	3.0000e-	1.0000e-	0.0000	1.0000e-	0.0000	0.0277	0.0277	0.0000	0.0000	0.0277
Total	1.0000e-	2.0000e-	1.4000e-	0.0000	3.0000e-	0.0000	3.0000e-	1.0000e-	0.0000	1.0000e-	0.0000	0.0277	0.0277	0.0000	0.0000	0.0277

3.3 Grading - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.5000e-	0.0000	7.5000e-	4.1000e-	0.0000	4.1000e-	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2000e-	0.0105	8.5800e-	1.0000e-		7.3000e-	7.3000e-		6.9000e-	6.9000e-	0.0000	1.0739	1.0739	2.1000e-	0.0000	1.0784
Total	1.2000e-	0.0105	8.5800e-	1.0000e-	7.5000e-	7.3000e-	1.4800e-	4.1000e-	6.9000e-	1.1000e-	0.0000	1.0739	1.0739	2.1000e-	0.0000	1.0784

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-	6.0000e-	5.7000e-	0.0000	1.2000e-	0.0000	1.3000e-	3.0000e-	0.0000	3.0000e-	0.0000	0.1106	0.1106	1.0000e-	0.0000	0.1108
Total	4.0000e-	6.0000e-	5.7000e-	0.0000	1.2000e-	0.0000	1.3000e-	3.0000e-	0.0000	3.0000e-	0.0000	0.1106	0.1106	1.0000e-	0.0000	0.1108

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.5000e-	0.0000	7.5000e-	4.1000e-	0.0000	4.1000e-	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2000e-	0.0105	8.5800e-	1.0000e-		7.3000e-	7.3000e-		6.9000e-	6.9000e-	0.0000	1.0739	1.0739	2.1000e-	0.0000	1.0784
Total	1.2000e-	0.0105	8.5800e-	1.0000e-	7.5000e-	7.3000e-	1.4800e-	4.1000e-	6.9000e-	1.1000e-	0.0000	1.0739	1.0739	2.1000e-	0.0000	1.0784

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-	6.0000e-	5.7000e-	0.0000	1.2000e-	0.0000	1.3000e-	3.0000e-	0.0000	3.0000e-	0.0000	0.1106	0.1106	1.0000e-	0.0000	0.1108
Total	4.0000e-	6.0000e-	5.7000e-	0.0000	1.2000e-	0.0000	1.3000e-	3.0000e-	0.0000	3.0000e-	0.0000	0.1106	0.1106	1.0000e-	0.0000	0.1108

3.4 Building Construction - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0637	0.6337	0.4020	5.7000e-		0.0428	0.0428		0.0394	0.0394	0.0000	52.5954	52.5954	0.0161	0.0000	52.9339
Total	0.0637	0.6337	0.4020	5.7000e-		0.0428	0.0428		0.0394	0.0394	0.0000	52.5954	52.5954	0.0161	0.0000	52.9339

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0637	0.6337	0.4020	5.7000e-		0.0428	0.0428		0.0394	0.0394	0.0000	52.5954	52.5954	0.0161	0.0000	52.9338
Total	0.0637	0.6337	0.4020	5.7000e-		0.0428	0.0428		0.0394	0.0394	0.0000	52.5954	52.5954	0.0161	0.0000	52.9338

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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

3.5 Paving - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.6000e-	0.0246	0.0181	3.0000e-		1.5000e-	1.5000e-		1.3900e-	1.3900e-	0.0000	2.4243	2.4243	6.7000e-	0.0000	2.4384
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.6000e-	0.0246	0.0181	3.0000e-		1.5000e-	1.5000e-		1.3900e-	1.3900e-	0.0000	2.4243	2.4243	6.7000e-	0.0000	2.4384

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	1.6000e-	2.8000e-	2.5400e-	1.0000e-	5.6000e-	0.0000	5.7000e-	1.5000e-	0.0000	1.5000e-	0.0000	0.4979	0.4979	2.0000e-	0.0000	0.4984
Total	1.6000e-	2.8000e-	2.5400e-	1.0000e-	5.6000e-	0.0000	5.7000e-	1.5000e-	0.0000	1.5000e-	0.0000	0.4979	0.4979	2.0000e-	0.0000	0.4984

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.6000e-	0.0246	0.0181	3.0000e-		1.5000e-	1.5000e-		1.3900e-	1.3900e-	0.0000	2.4243	2.4243	6.7000e-	0.0000	2.4384
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.6000e-	0.0246	0.0181	3.0000e-		1.5000e-	1.5000e-		1.3900e-	1.3900e-	0.0000	2.4243	2.4243	6.7000e-	0.0000	2.4384

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	1.6000e-	2.8000e-	2.5400e-	1.0000e-	5.6000e-	0.0000	5.7000e-	1.5000e-	0.0000	1.5000e-	0.0000	0.4979	0.4979	2.0000e-	0.0000	0.4984
Total	1.6000e-	2.8000e-	2.5400e-	1.0000e-	5.6000e-	0.0000	5.7000e-	1.5000e-	0.0000	1.5000e-	0.0000	0.4979	0.4979	2.0000e-	0.0000	0.4984

3.6 Architectural Coating - 2017
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.7900e-					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.3000e-	5.4600e-	4.6700e-	1.0000e-		4.3000e-	4.3000e-		4.3000e-	4.3000e-	0.0000	0.6383	0.6383	7.0000e-	0.0000	0.6397
Total	6.6200e-	5.4600e-	4.6700e-	1.0000e-		4.3000e-	4.3000e-		4.3000e-	4.3000e-	0.0000	0.6383	0.6383	7.0000e-	0.0000	0.6397

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.7900e-					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.3000e-	5.4600e-	4.6700e-	1.0000e-		4.3000e-	4.3000e-		4.3000e-	4.3000e-	0.0000	0.6383	0.6383	7.0000e-	0.0000	0.6397
Total	6.6200e-	5.4600e-	4.6700e-	1.0000e-		4.3000e-	4.3000e-		4.3000e-	4.3000e-	0.0000	0.6383	0.6383	7.0000e-	0.0000	0.6397

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.4700e-	9.2900e-	0.0432	1.0000e-	6.6600e-	1.2000e-	6.7800e-	1.7800e-	1.1000e-	1.8900e-	0.0000	7.2371	7.2371	3.0000e-	0.0000	7.2434
Unmitigated	4.4700e-	9.2900e-	0.0432	1.0000e-	6.6600e-	1.2000e-	6.7800e-	1.7800e-	1.1000e-	1.8900e-	0.0000	7.2371	7.2371	3.0000e-	0.0000	7.2434

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hotel	8.00	8.00	8.00	17,702	17,702
Total	8.00	8.00	8.00	17,702	17,702

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Hotel	9.00	9.00	9.00	19.40	61.60	19.00	58	38	4

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.511818	0.073499	0.191840	0.131575	0.036332	0.005186	0.012677	0.022513	0.001864	0.002072	0.006564	0.000601	0.003458

5.0 Energy Detail

5.2 Energy by Land Use - NaturalGas

	NaturalGa	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Hotel	31450	1.7000e-	1.5400e-	1.3000e-	1.0000e-		1.2000e-	1.2000e-		1.2000e-	1.2000e-	0.0000	1.6783	1.6783	3.0000e-	3.0000e-	1.6885
Total		1.7000e-	1.5400e-	1.3000e-	1.0000e-		1.2000e-	1.2000e-		1.2000e-	1.2000e-	0.0000	1.6783	1.6783	3.0000e-	3.0000e-	1.6885

5.3 Energy by Land Use - Electricity

	Electricity	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hotel	10135	2.9790	9.0000e-	2.0000e-	2.9866
Total		2.9790	9.0000e-	2.0000e-	2.9866

6.0 Area Detail

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural	5.8000e-					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer	1.9500e-					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-	2.0000e-	0.0000	0.0000	2.0000e-
Total	2.5300e-	0.0000	1.0000e-	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-	2.0000e-	0.0000	0.0000	2.0000e-

7.0 Water Detail

	Indoor/Out	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hotel	0.0253668	0.1143	8.3000e-	2.0000e-	0.1380
Total		0.1143	8.3000e-	2.0000e-	0.1380

8.0 Waste Detail

	Waste	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hotel	0.55	0.1117	6.6000e-	0.0000	0.2502
Total		0.1117	6.6000e-	0.0000	0.2502

Creamery/Dairy Project**San Diego County, Summer****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	5.00	1000sqft	4.00	5,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	10			Operational Year	2018

Utility Company San Diego Gas & Electric

CO2 Intensity	648	CH4 Intensity	0.02	N2O Intensity	0.004
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - Adjusted RPS Emission Factor

Land Use - Representative Project; values based on maximum floor areas and acreages allowed under the draft Zoning Ordinance revisions.

Vehicle Trips - Trip generation per Chen Ryan; trip length per County's Transportation Impact Fee.

Energy Use - Replaced electricity consumption based on values specific to dairies

Water And Wastewater - Replaced based on values specific to dairies

Table Name	Column Name	Default Value	New Value
tblEnergyUse	LightingElect	3.40	0.48
tblEnergyUse	NT24E	36.52	5.10
tblEnergyUse	T24E	1.30	0.18
tblLandUse	LotAcreage	0.11	4.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.02
tblProjectCharacteristics	CO2IntensityFactor	720.49	648
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblProjectCharacteristics	OperationalYear	2014	2018
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	CC_TL	6.60	9.00
tblVehicleTrips	CNW_TL	6.60	9.00

tblVehicleTrips	CW_TL	14.70	9.00
tblVehicleTrips	ST_TR	2.59	16.00
tblVehicleTrips	SU_TR	2.59	16.00
tblVehicleTrips	WD_TR	2.59	16.00
tblWater	OutdoorWaterUseRate	0.00	394,784.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	4.9047	51.8533	40.4743	0.0420	18.2962	2.7558	21.0520	9.9917	2.5354	12.5270	0.0000	4,234.620	4,234.6205	1.2375	0.0000	4,260.607
2018	6.7361	14.4206	13.3493	0.0219	0.2555	0.8290	1.0844	0.0678	0.7644	0.8322	0.0000	2,092.644	2,092.6441	0.5700	0.0000	2,104.613
Total	11.6408	66.2739	53.8236	0.0638	18.5516	3.5848	22.1364	10.0594	3.2998	13.3592	0.0000	6,327.264	6,327.2646	1.8075	0.0000	6,365.221

2.2 Overall Operational

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1388	0.0000	5.2000e-	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-	1.0900e-	0.0000		1.1600e-
Energy	7.6700e-	0.0697	0.0586	4.2000e-		5.3000e-	5.3000e-		5.3000e-	5.3000e-		83.6906	83.6906	1.6000e-	1.5300e-	84.1999
Mobile	0.2734	0.6303	2.9069	7.6500e-	0.5173	8.9200e-	0.5262	0.1381	8.2200e-	0.1463		625.2621	625.2621	0.0240		625.7670
Total	0.4198	0.7001	2.9660	8.0700e-	0.5173	0.0142	0.5315	0.1381	0.0135	0.1516		708.9538	708.9538	0.0256	1.5300e-	709.9680

3.0 Construction Detail

Construction Phase

Phase	Phase Name	Phase Type	Start Date	End Date	Num Days	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2017	1/6/2017	5	5	
2	Grading	Grading	1/7/2017	1/18/2017	5	8	
3	Building Construction	Building Construction	1/19/2017	12/6/2017	5	230	
4	Paving	Paving	12/7/2017	1/1/2018	5	18	
5	Architectural Coating	Architectural Coating	1/2/2018	1/25/2018	5	18	

OffRoad Equipment

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

Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	2	6.00	130	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment	Worker Trip	Vendor Trip	Hauling Trip	Worker Trip	Vendor Trip	Hauling Trip	Worker Vehicle	Vendor	Hauling
Site Preparation	7	18.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	2.00	1.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.2 Site Preparation - 2017 **Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.8382	51.7535	39.3970	0.0391		2.7542	2.7542		2.5339	2.5339		4,003.085	4,003.0859	1.2265		4,028.843
Total	4.8382	51.7535	39.3970	0.0391	18.0663	2.7542	20.8205	9.9307	2.5339	12.4646		4,003.085	4,003.0859	1.2265		4,028.843

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	0.0665	0.0999	1.0773	2.8900e-	0.2299	1.5900e-	0.2315	0.0610	1.4700e-	0.0624		231.5346	231.5346	0.0109		231.7644
Total	0.0665	0.0999	1.0773	2.8900e-	0.2299	1.5900e-	0.2315	0.0610	1.4700e-	0.0624		231.5346	231.5346	0.0109		231.7644

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.8382	51.7535	39.3970	0.0391		2.7542	2.7542		2.5339	2.5339	0.0000	4,003.085	4,003.0859	1.2265		4,028.843
Total	4.8382	51.7535	39.3970	0.0391	18.0663	2.7542	20.8205	9.9307	2.5339	12.4646	0.0000	4,003.085	4,003.0859	1.2265		4,028.843

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	0.0665	0.0999	1.0773	2.8900e-	0.2299	1.5900e-	0.2315	0.0610	1.4700e-	0.0624		231.5346	231.5346	0.0109		231.7644
Total	0.0665	0.0999	1.0773	2.8900e-	0.2299	1.5900e-	0.2315	0.0610	1.4700e-	0.0624		231.5346	231.5346	0.0109		231.7644

3.3 Grading - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	3.4555	35.9825	25.3812	0.0297		2.0388	2.0388		1.8757	1.8757		3,043.666	3,043.6667	0.9326		3,063.250
Total	3.4555	35.9825	25.3812	0.0297	6.5523	2.0388	8.5912	3.3675	1.8757	5.2432		3,043.666	3,043.6667	0.9326		3,063.250

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	0.0554	0.0832	0.8977	2.4000e-	0.1916	1.3300e-	0.1929	0.0508	1.2200e-	0.0520		192.9455	192.9455	9.1200e-		193.1370
Total	0.0554	0.0832	0.8977	2.4000e-	0.1916	1.3300e-	0.1929	0.0508	1.2200e-	0.0520		192.9455	192.9455	9.1200e-		193.1370

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	3.4555	35.9825	25.3812	0.0297		2.0388	2.0388		1.8757	1.8757	0.0000	3,043.666	3,043.6667	0.9326		3,063.250
Total	3.4555	35.9825	25.3812	0.0297	6.5523	2.0388	8.5912	3.3675	1.8757	5.2432	0.0000	3,043.666	3,043.6667	0.9326		3,063.250

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	0.0554	0.0832	0.8977	2.4000e-	0.1916	1.3300e-	0.1929	0.0508	1.2200e-	0.0520		192.9455	192.9455	9.1200e-		193.1370
Total	0.0554	0.0832	0.8977	2.4000e-	0.1916	1.3300e-	0.1929	0.0508	1.2200e-	0.0520		192.9455	192.9455	9.1200e-		193.1370

3.4 Building Construction - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.805	2,639.8053	0.6497		2,653.449
Total	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.805	2,639.8053	0.6497		2,653.449

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	9.2400e-	0.0785	0.1024	2.2000e-	6.0000e-	1.1300e-	7.1300e-	1.7100e-	1.0400e-	2.7500e-		21.3764	21.3764	1.6000e-		21.3798
Worker	7.3900e-	0.0111	0.1197	3.2000e-	0.0256	1.8000e-	0.0257	6.7700e-	1.6000e-	6.9400e-		25.7261	25.7261	1.2200e-		25.7516
Total	0.0166	0.0896	0.2221	5.4000e-	0.0316	1.3100e-	0.0329	8.4800e-	1.2000e-	9.6900e-		47.1025	47.1025	1.3800e-		47.1314

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730	0.0000	2,639.805	2,639.8053	0.6497		2,653.449
Total	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730	0.0000	2,639.805	2,639.8053	0.6497		2,653.449

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	9.2400e-	0.0785	0.1024	2.2000e-	6.0000e-	1.1300e-	7.1300e-	1.7100e-	1.0400e-	2.7500e-		21.3764	21.3764	1.6000e-		21.3798
Worker	7.3900e-	0.0111	0.1197	3.2000e-	0.0256	1.8000e-	0.0257	6.7700e-	1.6000e-	6.9400e-		25.7261	25.7261	1.2200e-		25.7516
Total	0.0166	0.0896	0.2221	5.4000e-	0.0316	1.3100e-	0.0329	8.4800e-	1.2000e-	9.6900e-		47.1025	47.1025	1.3800e-		47.1314

3.5 Paving - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6554	16.8035	12.4837	0.0186		1.0056	1.0056		0.9269	0.9269		1,873.826	1,873.8264	0.5588		1,885.560
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.6554	16.8035	12.4837	0.0186		1.0056	1.0056		0.9269	0.9269		1,873.826	1,873.8264	0.5588		1,885.560

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	0.0739	0.1110	1.1970	3.2100e-	0.2555	1.7700e-	0.2572	0.0678	1.6300e-	0.0694		257.2607	257.2607	0.0122		257.5160
Total	0.0739	0.1110	1.1970	3.2100e-	0.2555	1.7700e-	0.2572	0.0678	1.6300e-	0.0694		257.2607	257.2607	0.0122		257.5160

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6554	16.8035	12.4837	0.0186		1.0056	1.0056		0.9269	0.9269	0.0000	1,873.826	1,873.8264	0.5588		1,885.560
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.6554	16.8035	12.4837	0.0186		1.0056	1.0056		0.9269	0.9269	0.0000	1,873.826	1,873.8264	0.5588		1,885.560

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	0.0739	0.1110	1.1970	3.2100e-	0.2555	1.7700e-	0.2572	0.0678	1.6300e-	0.0694		257.2607	257.2607	0.0122		257.5160
Total	0.0739	0.1110	1.1970	3.2100e-	0.2555	1.7700e-	0.2572	0.0678	1.6300e-	0.0694		257.2607	257.2607	0.0122		257.5160

3.5 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4060	14.3192	12.2631	0.0187		0.8272	0.8272		0.7628	0.7628		1,845.034	1,845.0348	0.5587		1,856.766
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4060	14.3192	12.2631	0.0187		0.8272	0.8272		0.7628	0.7628		1,845.034	1,845.0348	0.5587		1,856.766

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	0.0668	0.1013	1.0863	3.2100e-	0.2555	1.7300e-	0.2572	0.0678	1.6000e-	0.0694		247.6093	247.6093	0.0113		247.8470
Total	0.0668	0.1013	1.0863	3.2100e-	0.2555	1.7300e-	0.2572	0.0678	1.6000e-	0.0694		247.6093	247.6093	0.0113		247.8470

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4060	14.3192	12.2631	0.0187		0.8272	0.8272		0.7628	0.7628	0.0000	1,845.034	1,845.0348	0.5587		1,856.766
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4060	14.3192	12.2631	0.0187		0.8272	0.8272		0.7628	0.7628	0.0000	1,845.034	1,845.0348	0.5587		1,856.766

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	0.0668	0.1013	1.0863	3.2100e-	0.2555	1.7300e-	0.2572	0.0678	1.6000e-	0.0694		247.6093	247.6093	0.0113		247.8470
Total	0.0668	0.1013	1.0863	3.2100e-	0.2555	1.7300e-	0.2572	0.0678	1.6000e-	0.0694		247.6093	247.6093	0.0113		247.8470

3.6 Architectural Coating - 2018
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	6.4375					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.0102
Total	6.7361	2.0058	1.8542	2.9700e-		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.0102

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	6.4375					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.0102
Total	6.7361	2.0058	1.8542	2.9700e-		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.0102

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2734	0.6303	2.9069	7.6500e-	0.5173	8.9200e-	0.5262	0.1381	8.2200e-	0.1463		625.2621	625.2621	0.0240		625.7670
Unmitigated	0.2734	0.6303	2.9069	7.6500e-	0.5173	8.9200e-	0.5262	0.1381	8.2200e-	0.1463		625.2621	625.2621	0.0240		625.7670

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Refrigerated Warehouse-No Rail	80.00	80.00	80.00	244,477	244,477
Total	80.00	80.00	80.00	244,477	244,477

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Refrigerated Warehouse-No Rail	9.00	9.00	9.00	59.00	0.00	41.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.511819	0.073499	0.191840	0.131575	0.036332	0.005186	0.012677	0.022513	0.001864	0.002072	0.006564	0.000601	0.003458

5.0 Energy Detail

5.2 Energy by Land Use - NaturalGas

	NaturalGa	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Refrigerated	0.71137	7.6700e-	0.0697	0.0586	4.2000e-		5.3000e-	5.3000e-		5.3000e-	5.3000e-		83.6906	83.6906	1.6000e-	1.5300e-	84.1999
Total		7.6700e-	0.0697	0.0586	4.2000e-		5.3000e-	5.3000e-		5.3000e-	5.3000e-		83.6906	83.6906	1.6000e-	1.5300e-	84.1999

6.0 Area Detail

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural	0.0318					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer	0.1070					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-	0.0000	5.2000e-	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-	1.0900e-	0.0000		1.1600e-
Total	0.1388	0.0000	5.2000e-	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-	1.0900e-	0.0000		1.1600e-

Creamery/Dairy Project**San Diego County, Annual****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	5.00	1000sqft	4.00	5,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	10			Operational Year	2018

Utility Company San Diego Gas & Electric

CO2 Intensity	648	CH4 Intensity	0.02	N2O Intensity	0.004
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - Adjusted RPS Emission Factor

Land Use - Representative Project; values based on maximum floor areas and acreages allowed under the draft Zoning Ordinance revisions.

Vehicle Trips - Trip generation per Chen Ryan; trip length per County's Transportation Impact Fee.

Energy Use - Replaced electricity consumption based on values specific to dairies

Water And Wastewater - Replaced based on values specific to dairies

Table Name	Column Name	Default Value	New Value
tblEnergyUse	LightingElect	3.40	0.48
tblEnergyUse	NT24E	36.52	5.10
tblEnergyUse	T24E	1.30	0.18
tblLandUse	LotAcreage	0.11	4.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.02
tblProjectCharacteristics	CO2IntensityFactor	720.49	648
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblProjectCharacteristics	OperationalYear	2014	2018
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	CC_TL	6.60	9.00
tblVehicleTrips	CNW_TL	6.60	9.00

tblVehicleTrips	CW_TL	14.70	9.00
tblVehicleTrips	ST_TR	2.59	16.00
tblVehicleTrips	SU_TR	2.59	16.00
tblVehicleTrips	WD_TR	2.59	16.00
tblWater	OutdoorWaterUseRate	0.00	394,784.00

2.0 Emissions Summary

2.1 Overall Construction

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2017	0.3997	3.4652	2.4342	3.5600e-	0.0784	0.2286	0.3070	0.0402	0.2143	0.2544	0.0000	317.7825	317.7825	0.0786	0.0000	319.4321
2018	0.0614	0.0253	0.0233	4.0000e-	1.2000e-	1.7700e-	1.8900e-	3.0000e-	1.7400e-	1.7700e-	0.0000	3.2413	3.2413	4.8000e-	0.0000	3.2513
Total	0.4611	3.4905	2.4575	3.6000e-	0.0785	0.2304	0.3088	0.0402	0.2160	0.2562	0.0000	321.0238	321.0238	0.0790	0.0000	322.6834

2.2 Overall Operational

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0253	0.0000	5.0000e-	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-	9.0000e-	0.0000	0.0000	9.0000e-
Energy	1.4000e-	0.0127	0.0107	8.0000e-		9.7000e-	9.7000e-		9.7000e-	9.7000e-	0.0000	22.3210	22.3210	5.3000e-	3.1000e-	22.4271
Mobile	0.0496	0.1214	0.5368	1.3300e-	0.0919	1.6200e-	0.0936	0.0246	1.5000e-	0.0261	0.0000	98.9510	98.9510	3.9700e-	0.0000	99.0343
Waste						0.0000	0.0000		0.0000	0.0000	0.9541	0.0000	0.9541	0.0564	0.0000	2.1381
Water						0.0000	0.0000		0.0000	0.0000	0.3668	5.7144	6.0813	0.0379	9.2000e-	7.1625
Total	0.0764	0.1341	0.5475	1.4100e-	0.0919	2.5900e-	0.0945	0.0246	2.4700e-	0.0271	1.3209	126.9865	128.3074	0.0987	1.2300e-	130.7620

3.0 Construction Detail

Construction Phase

Phase	Phase Name	Phase Type	Start Date	End Date	Num Days	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2017	1/6/2017	5	5	
2	Grading	Grading	1/7/2017	1/18/2017	5	8	
3	Building Construction	Building Construction	1/19/2017	12/6/2017	5	230	
4	Paving	Paving	12/7/2017	1/1/2018	5	18	
5	Architectural Coating	Architectural Coating	1/2/2018	1/25/2018	5	18	

OffRoad Equipment

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

Grading	Excavators	1	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	2	6.00	130	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment	Worker Trip	Vendor Trip	Hauling Trip	Worker Trip	Vendor Trip	Hauling Trip	Worker Vehicle	Vendor	Hauling
Site Preparation	7	18.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	2.00	1.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.2 Site Preparation - 2017 **Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0121	0.1294	0.0985	1.0000e-		6.8900e-	6.8900e-		6.3300e-	6.3300e-	0.0000	9.0789	9.0789	2.7800e-	0.0000	9.1373
Total	0.0121	0.1294	0.0985	1.0000e-	0.0452	6.8900e-	0.0521	0.0248	6.3300e-	0.0312	0.0000	9.0789	9.0789	2.7800e-	0.0000	9.1373

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	1.6000e-	2.8000e-	2.5400e-	1.0000e-	5.6000e-	0.0000	5.7000e-	1.5000e-	0.0000	1.5000e-	0.0000	0.4979	0.4979	2.0000e-	0.0000	0.4984
Total	1.6000e-	2.8000e-	2.5400e-	1.0000e-	5.6000e-	0.0000	5.7000e-	1.5000e-	0.0000	1.5000e-	0.0000	0.4979	0.4979	2.0000e-	0.0000	0.4984

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0121	0.1294	0.0985	1.0000e-		6.8900e-	6.8900e-		6.3300e-	6.3300e-	0.0000	9.0788	9.0788	2.7800e-	0.0000	9.1373
Total	0.0121	0.1294	0.0985	1.0000e-	0.0452	6.8900e-	0.0521	0.0248	6.3300e-	0.0312	0.0000	9.0788	9.0788	2.7800e-	0.0000	9.1373

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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	1.6000e-	2.8000e-	2.5400e-	1.0000e-	5.6000e-	0.0000	5.7000e-	1.5000e-	0.0000	1.5000e-	0.0000	0.4979	0.4979	2.0000e-	0.0000	0.4984
Total	1.6000e-	2.8000e-	2.5400e-	1.0000e-	5.6000e-	0.0000	5.7000e-	1.5000e-	0.0000	1.5000e-	0.0000	0.4979	0.4979	2.0000e-	0.0000	0.4984

3.3 Grading - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0138	0.1439	0.1015	1.2000e-		8.1600e-	8.1600e-		7.5000e-	7.5000e-	0.0000	11.0447	11.0447	3.3800e-	0.0000	11.1157
Total	0.0138	0.1439	0.1015	1.2000e-	0.0262	8.1600e-	0.0344	0.0135	7.5000e-	0.0210	0.0000	11.0447	11.0447	3.3800e-	0.0000	11.1157

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-	3.7000e-	3.3900e-	1.0000e-	7.5000e-	1.0000e-	7.5000e-	2.0000e-	0.0000	2.0000e-	0.0000	0.6638	0.6638	3.0000e-	0.0000	0.6645
Total	2.2000e-	3.7000e-	3.3900e-	1.0000e-	7.5000e-	1.0000e-	7.5000e-	2.0000e-	0.0000	2.0000e-	0.0000	0.6638	0.6638	3.0000e-	0.0000	0.6645

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0138	0.1439	0.1015	1.2000e-		8.1600e-	8.1600e-		7.5000e-	7.5000e-	0.0000	11.0447	11.0447	3.3800e-	0.0000	11.1157
Total	0.0138	0.1439	0.1015	1.2000e-	0.0262	8.1600e-	0.0344	0.0135	7.5000e-	0.0210	0.0000	11.0447	11.0447	3.3800e-	0.0000	11.1157

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-	3.7000e-	3.3900e-	1.0000e-	7.5000e-	1.0000e-	7.5000e-	2.0000e-	0.0000	2.0000e-	0.0000	0.6638	0.6638	3.0000e-	0.0000	0.6645
Total	2.2000e-	3.7000e-	3.3900e-	1.0000e-	7.5000e-	1.0000e-	7.5000e-	2.0000e-	0.0000	2.0000e-	0.0000	0.6638	0.6638	3.0000e-	0.0000	0.6645

3.4 Building Construction - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3568	3.0367	2.0849	3.0800e-		0.2048	0.2048		0.1924	0.1924	0.0000	275.4010	275.4010	0.0678	0.0000	276.8244
Total	0.3568	3.0367	2.0849	3.0800e-		0.2048	0.2048		0.1924	0.1924	0.0000	275.4010	275.4010	0.0678	0.0000	276.8244

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1600e-	9.3000e-	0.0146	2.0000e-	6.8000e-	1.3000e-	8.1000e-	1.9000e-	1.2000e-	3.1000e-	0.0000	2.2222	2.2222	2.0000e-	0.0000	2.2226
Worker	8.3000e-	1.4100e-	0.0130	3.0000e-	2.8700e-	2.0000e-	2.8900e-	7.6000e-	2.0000e-	7.8000e-	0.0000	2.5446	2.5446	1.3000e-	0.0000	2.5472
Total	1.9900e-	0.0107	0.0276	5.0000e-	3.5500e-	1.5000e-	3.7000e-	9.5000e-	1.4000e-	1.0900e-	0.0000	4.7668	4.7668	1.5000e-	0.0000	4.7698

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3568	3.0367	2.0849	3.0800e-		0.2048	0.2048		0.1924	0.1924	0.0000	275.4007	275.4007	0.0678	0.0000	276.8240
Total	0.3568	3.0367	2.0849	3.0800e-		0.2048	0.2048		0.1924	0.1924	0.0000	275.4007	275.4007	0.0678	0.0000	276.8240

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1600e-	9.3000e-	0.0146	2.0000e-	6.8000e-	1.3000e-	8.1000e-	1.9000e-	1.2000e-	3.1000e-	0.0000	2.2222	2.2222	2.0000e-	0.0000	2.2226
Worker	8.3000e-	1.4100e-	0.0130	3.0000e-	2.8700e-	2.0000e-	2.8900e-	7.6000e-	2.0000e-	7.8000e-	0.0000	2.5446	2.5446	1.3000e-	0.0000	2.5472
Total	1.9900e-	0.0107	0.0276	5.0000e-	3.5500e-	1.5000e-	3.7000e-	9.5000e-	1.4000e-	1.0900e-	0.0000	4.7668	4.7668	1.5000e-	0.0000	4.7698

3.5 Paving - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0141	0.1428	0.1061	1.6000e-		8.5500e-	8.5500e-		7.8800e-	7.8800e-	0.0000	14.4492	14.4492	4.3100e-	0.0000	14.5397
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0141	0.1428	0.1061	1.6000e-		8.5500e-	8.5500e-		7.8800e-	7.8800e-	0.0000	14.4492	14.4492	4.3100e-	0.0000	14.5397

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.1000e-	1.0400e-	9.6100e-	3.0000e-	2.1200e-	2.0000e-	2.1300e-	5.6000e-	1.0000e-	5.8000e-	0.0000	1.8808	1.8808	9.0000e-	0.0000	1.8827
Total	6.1000e-	1.0400e-	9.6100e-	3.0000e-	2.1200e-	2.0000e-	2.1300e-	5.6000e-	1.0000e-	5.8000e-	0.0000	1.8808	1.8808	9.0000e-	0.0000	1.8827

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0141	0.1428	0.1061	1.6000e-		8.5500e-	8.5500e-		7.8800e-	7.8800e-	0.0000	14.4492	14.4492	4.3100e-	0.0000	14.5397
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0141	0.1428	0.1061	1.6000e-		8.5500e-	8.5500e-		7.8800e-	7.8800e-	0.0000	14.4492	14.4492	4.3100e-	0.0000	14.5397

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.1000e-	1.0400e-	9.6100e-	3.0000e-	2.1200e-	2.0000e-	2.1300e-	5.6000e-	1.0000e-	5.8000e-	0.0000	1.8808	1.8808	9.0000e-	0.0000	1.8827
Total	6.1000e-	1.0400e-	9.6100e-	3.0000e-	2.1200e-	2.0000e-	2.1300e-	5.6000e-	1.0000e-	5.8000e-	0.0000	1.8808	1.8808	9.0000e-	0.0000	1.8827

3.5 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.0000e-	7.1600e-	6.1300e-	1.0000e-		4.1000e-	4.1000e-		3.8000e-	3.8000e-	0.0000	0.8369	0.8369	2.5000e-	0.0000	0.8422
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	7.0000e-	7.1600e-	6.1300e-	1.0000e-		4.1000e-	4.1000e-		3.8000e-	3.8000e-	0.0000	0.8369	0.8369	2.5000e-	0.0000	0.8422

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-	6.0000e-	5.1000e-	0.0000	1.2000e-	0.0000	1.3000e-	3.0000e-	0.0000	3.0000e-	0.0000	0.1065	0.1065	1.0000e-	0.0000	0.1066
Total	3.0000e-	6.0000e-	5.1000e-	0.0000	1.2000e-	0.0000	1.3000e-	3.0000e-	0.0000	3.0000e-	0.0000	0.1065	0.1065	1.0000e-	0.0000	0.1066

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.0000e-	7.1600e-	6.1300e-	1.0000e-		4.1000e-	4.1000e-		3.8000e-	3.8000e-	0.0000	0.8369	0.8369	2.5000e-	0.0000	0.8422
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	7.0000e-	7.1600e-	6.1300e-	1.0000e-		4.1000e-	4.1000e-		3.8000e-	3.8000e-	0.0000	0.8369	0.8369	2.5000e-	0.0000	0.8422

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-	6.0000e-	5.1000e-	0.0000	1.2000e-	0.0000	1.3000e-	3.0000e-	0.0000	3.0000e-	0.0000	0.1065	0.1065	1.0000e-	0.0000	0.1066
Total	3.0000e-	6.0000e-	5.1000e-	0.0000	1.2000e-	0.0000	1.3000e-	3.0000e-	0.0000	3.0000e-	0.0000	0.1065	0.1065	1.0000e-	0.0000	0.1066

3.6 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0579					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6900e-	0.0181	0.0167	3.0000e-		1.3500e-	1.3500e-		1.3500e-	1.3500e-	0.0000	2.2979	2.2979	2.2000e-	0.0000	2.3025
Total	0.0606	0.0181	0.0167	3.0000e-		1.3500e-	1.3500e-		1.3500e-	1.3500e-	0.0000	2.2979	2.2979	2.2000e-	0.0000	2.3025

Unmitigated Construction Off-Site

[illegible]

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0579					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6900e-	0.0181	0.0167	3.0000e-		1.3500e-	1.3500e-		1.3500e-	1.3500e-	0.0000	2.2979	2.2979	2.2000e-	0.0000	2.3025
Total	0.0606	0.0181	0.0167	3.0000e-		1.3500e-	1.3500e-		1.3500e-	1.3500e-	0.0000	2.2979	2.2979	2.2000e-	0.0000	2.3025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	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

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0496	0.1214	0.5368	1.3300e-	0.0919	1.6200e-	0.0936	0.0246	1.5000e-	0.0261	0.0000	98.9510	98.9510	3.9700e-	0.0000	99.0343
Unmitigated	0.0496	0.1214	0.5368	1.3300e-	0.0919	1.6200e-	0.0936	0.0246	1.5000e-	0.0261	0.0000	98.9510	98.9510	3.9700e-	0.0000	99.0343

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Refrigerated Warehouse-No Rail	80.00	80.00	80.00	244,477	244,477
Total	80.00	80.00	80.00	244,477	244,477

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Refrigerated Warehouse-No Rail	9.00	9.00	9.00	59.00	0.00	41.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.511810	0.073499	0.191840	0.131575	0.036332	0.005186	0.012677	0.022513	0.001864	0.002072	0.006564	0.000601	0.003458

5.0 Energy Detail

5.2 Energy by Land Use - NaturalGas

	NaturalGa	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Refrigerated	259650	1.4000e-	0.0127	0.0107	8.0000e-		9.7000e-	9.7000e-		9.7000e-	9.7000e-	0.0000	13.8559	13.8559	2.7000e-	2.5000e-	13.9402
Total		1.4000e-	0.0127	0.0107	8.0000e-		9.7000e-	9.7000e-		9.7000e-	9.7000e-	0.0000	13.8559	13.8559	2.7000e-	2.5000e-	13.9402

5.3 Energy by Land Use - Electricity

	Electricity	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Refrigerated	28800	8.4651	2.6000e-	5.0000e-	8.4868
Total		8.4651	2.6000e-	5.0000e-	8.4868

6.0 Area Detail

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural	5.7900e-					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer	0.0195					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	5.0000e-	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-	9.0000e-	0.0000	0.0000	9.0000e-
Total	0.0253	0.0000	5.0000e-	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-	9.0000e-	0.0000	0.0000	9.0000e-

7.0 Water Detail

	Indoor/Out	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Refrigerated	1.15625 /	6.0813	0.0379	9.2000e-	7.1629
Total		6.0813	0.0379	9.2000e-	7.1629

8.0 Waste Detail

	Waste	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Refrigerated	4.7	0.9541	0.0564	0.0000	2.1381
Total		0.9541	0.0564	0.0000	2.1381

Animal Raising

San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	5.00	1000sqft	4.00	5,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	10			Operational Year	2018
Utility Company	San Diego Gas & Electric				
CO2 Intensity	648	CH4 Intensity	0.02	N2O Intensity	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Adjusted RPS Emission Factor

Land Use - N/A only modeling water consumption

Construction Phase - N/A only modeling water consumption

Vehicle Trips - N/A only modeling water consumption

Energy Use - N/A only modeling water consumption

Water And Wastewater - Replaced based on values specific to 4 head of cattle

Off-road Equipment - N/A only modeling water consumption

Solid Waste - N/A only modeling water consumption

Table Name	Column Name	Default Value	New Value
tblEnergyUse	LightingElect	3.40	0.00
tblEnergyUse	NT24E	36.52	0.00
tblEnergyUse	NT24NG	48.51	0.00
tblEnergyUse	T24E	1.30	0.00
tblEnergyUse	T24NG	3.42	0.00
tblLandUse	LotAcreage	0.11	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00

tblProjectCharacteristics	CH4IntensityFactor	0.029	0.02
tblProjectCharacteristics	CO2IntensityFactor	720.49	648
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblProjectCharacteristics	OperationalYear	2014	2018
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	SolidWasteGenerationRate	4.70	0.00
tblVehicleTrips	CC_TL	6.60	9.00
tblVehicleTrips	CNW_TL	6.60	9.00
tblVehicleTrips	CW_TL	14.70	9.00
tblVehicleTrips	ST_TR	2.59	0.00
tblVehicleTrips	SU_TR	2.59	0.00
tblVehicleTrips	WD_TR	2.59	0.00
tblWater	IndoorWaterUseRate	1,156,250.00	0.00
tblWater	OutdoorWaterUseRate	0.00	49,348.00

2.0 Emissions Summary

2.2 Overall Operational

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.1612	0.1612	0.0000	0.0000	0.1616

7.0 Water Detail

	Indoor/Out	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Refrigerated	0 /	0.1612	0.0000	0.0000	0.1616
Total		0.1612	0.0000	0.0000	0.1616

Fugitive and Process Calculations

FERTILIZER INPUTS				
Metric	Acres*	Fertilizer Application (lbs/acre)*	Percent Treated	Fertilizer Used (lbs)
Grapes (wine)	4	51.00	100%	204

EMISSION CALCULATIONS			
	Direct N2O (MT)	Indirect N2O (MT)	Total N2O (MT)
Grapes (wine)	1.31E-03	1.45E-04	1.45E-03

**Assumption from Table 2.1-8 in EIR*

ENTERIC FERMENTATION

2012 ICLEI Methodology Appendix G Methodology: Equations A.1 and A.2.

Type of Livestock	ICLEI Livestock Group	Pop*	(kg/hd/yr)	(kg CH4)	(MT CH4)	(MT CO2e)
Milk Cows and heifers	Dairy Cows	1	144	144	0.14	4

Based on ICLEI 2012 Appendix G Table A.1.1 and Table A.1.2, but used values available in Table A-195 in 2013 US GHG Inventory Annex 3.

*Values are for 1 dairy head

MANURE MANAGEMENT

Type of Livestock	ICLEI Livestock Group	CH4 (MT/year)	N2O (MT/year)	CO2e (MT/year)
Milk Cows and heifers	Dairy Cows	0.14	0.00	3.53

2012 ICLEI Methodology Appendix G Methodology Used

ICLEI Livestock Group	CH4	N2O
Milk Cows and heifers	Equation A.2.1.1b, Equation A.2.1.2	Equation A.2.3.1b, Equation A.2.3.2

http://www.arb.ca.gov/cc/inventory/doc/methods_00-09/annex_3b_manure_management.pdf

Manure Management Emissions (Based off of Table A.2.3.5)			Methane Specific				Nitrous Oxide Specific			Equation A.2.4.2					
Application	Livestock Category	Method	MCF	VS (kg /head/year)	VS Excreted (kg/year) (Table A.2.3.3)	Bo (m3 CH4/kg VS)(Table A.2.1.1)	Nex (kg N/head/year)	N Excreted (kg/year) (Table A.2.3.3)	EF N2O by Waste Management System (kg N2O-N/kg Kjdl N)	CH4 (MT/year)	N2O (MT/year) (Direct only)	Indirect N2O (MT/year)	CO2e from CH4 (MT/year)	CO2e from N2O (MT/year)	Total CO2e (MT/year)
Dairies	Dairy Cows	pasture	0.02	2,033	20	0.21	113	1	-	0.00	-	-	0	-	0
Dairies	Dairy Cows	daily spread	0.01	2,033	224	0.21	113	12	-	0.00	-	0.00	0	0	0
Dairies	Dairy Cows	solid storage	0.04	2,033	183	0.21	113	10	0.01	0.00	0.00	0.00	0	0	0
Dairies	Dairy Cows	liquid/slurry	0.32	2,033	407	0.21	113	23	0.01	0.02	0.00	0.00	0	0	0
Dairies	Dairy Cows	Anaerobic Lagoon	0.73	2,033	1,199	0.21	113	67	-	0.12	-	0.00	3	0	3
Dairies	Dairy Cows	Deep Pit	-	2,033	-	0.21	113	-	0.00	-	-	0.00	-	0	0
												totals	3	0	4

Table A-204 TAM: Calculated National Emissions Factors for Cattle by Animal Type (kg CH4/head/year)

Application	Animal Type	TAM (kg)	VS Rate (kg VS/1000 kg animal mass/day)	Bo (m3 CH4/kg VS)
	Dairy Cattle			
Dairies	Dairy Cows	680	Table A-206	0.24
Dairies	Dairy Heifers	406-408	Table A-206	0.17

Table A-183: Typical Animal Mass (lbs)

Livestock Type	lbs
Dairy Cows	1,500

Table A-209 Methane Conversion Factors for Dry Systems (Percent)

Waste Management System	Cool Climate MCF (<15 °C)	Temperate Climate (15 to 25°C)	Warm Climate (>25°C)
Average Annual Temperature (°C)			
Aerobic Treatment	0	0	0
Cattle Deep Litter (<1 month)	0.03	0.03	0.3
Cattle Deep Litter (>1 month)	0.21	0.44	0.76
Composting- In Vessel	0.005	0.005	0.005
Composting- Static Pile	0.005	0.005	0.005
Composting- Extensive/Passive	0.005	0.01	0.015
Composting- Intensive	0.005	0.01	0.015
Daily Spread	0.001	0.005	0.01

Dry Lot	0.01	0.015	0.05
Fuel	0.1	0.1	0.1
Pasture	0.01	0.015	0.02
Poultry with Bedding	0.015	0.015	0.015
Poultry without Bedding	0.15	0.015	0.015
solid storage	0.02	0.04	0.05

Table A-210 Methane Conversion Factors for Liquid Systems (Percent)

Application	Livestock	Method	California
Dairy	Dairy Cows	Anerobic Lagoon	0.73
Dairy	Dairy Cows	liquid/slurry and deep	0.32

Table A-211 Direct Nitrous Oxide Emissions Factors for 2011 (kg N2O -N/kg Kjdl N)

Waste Management System	Direct N2O Emissions Factor
Aerobic Treatment (force aeration)	0.005
Aerobic Treatment (natural	0.01
Anaerobic Digester	0
Anaerobic Lagoon	0
Cattle Deep Bed (active mix)	0.07
Cattle Deep Bed (no mix)	0.01
Composting in vessel	0.006
Composting intensive	0.1
Composting passive	0.01
Composting static	0.006
Daily Spread	0
Deep Pit	0.002
Dry Lot	0.02
Fuel	0
Liquid/Slurry	0.005
Pasture	0
Poultry with Bedding	0.001
Poultry without Bedding	0.001
Solid Storage	0.005

Table A-206 Estimated Volatile Solids and Nitrogen Excreted Production Rate by State for Cattle (kg/animal/year)

Application	Livestock Category	Volatile Solids	Nitrogen Excreted
Dairy Cow		2,812	157
Dairy Heifers		1,254	69

Table A-207 Manure Distribution Among Waste Management Systems by Operation (Percent)

Application	Method	Percent
Dairies	Pasture	1
Dairies	Daily Spread	11
Dairies	Solid Storage	9
Dairies	Liquid/Slurry	20
Dairies	Anaerobic Lagoon	59
Dairies	Deep Pit	0

Table A-212 Indirect Nitrous Oxide Loss Factors (percent)

Waste Management	System	Volatilization Nitrogen Loss	Runoff/Leaching Nitrogen Loss
Animal Type			Pacific
Dairies	Anaerobic Lagoon	43	0.8
Dairies	Daily Spread	10	0

Dairies	Deep Pit	24	0
Dairies	Dry Lot	15	2
Dairies	Liquid/Slurry	26	0.8
Dairies	Pasture	0	0
Dairies	Solid Storage	27	0

Carbon Stock

Land Use Type	Acres*	Above Ground Carbon Stock (MT C)	MTCO2
Vineyards	4	5	18

Land Use Type	Above Ground Carbon Stock Factors MT C/acre
Vineyards	1.2

Conversion from MTCO2e to MT C

MTCO2 to MT C 3.67

**Assumption from Table 2.1-8 in EIR*

Use	Annual Production, Each		Daily Production, Each		Pounds per Day
	Gallons	Barrels	Gallons	Barrels	ROG
Microbrewery - large	248,000	8,000	679	21.9	0.09
Microbrewery - small	62,000	2,000	170	5.5	0.02
Boutique Winery	12,000		33		0.2

Conversions

gallons per bbl 31
lbs to MT 0.000453592

Method:

Brewery

4.1679 lbs VOC/1,000 barrels
0.0041679 lbs VOC/barrel (SJVAPCD 2009)

Wine

6.2 lbs VOC/1000 gallon (SJVAPCD 2015)
0.0062 lbs VOC/gallon (SJVAPCD 2005)

County Ag Energy Calculations

Summary million btu

Construction	
rep projects	14,799
theoretical max	402,072
Operations of Largest Rep - winery	
vehicles	11,450
electricity	1,642
natural gas	590
total	13,682
Operations of Theoretical Max	
vehicles	1,043,676
electricity	139,870
natural gas	57,574
total	1,241,120

Construction Energy

	fuel	MT	LBS	Gallons	Million BTU
CO2 from diesel - assuming all	sum of representative projects	1091	2404533	106861	14799
CO2 from diesel - assuming all	sum of theoretical max	29632	65327319	2903254	402072

Operational Energy

Largest Representative Project (microbrew)		fuel		btu	million BTU	
VMT	gasoline	2,444,770		11449720443	11450	(with pavley)
Natural Gas	kBTU/year	1,039,750			1040	
Electricity	kwh/year	120,000		409680000	410	12899
Largest Representative Project (winery)		fuel		btu	million BTU	
VMT	gasoline	2,444,770		11449720443	11450	(with pavley)
Natural Gas	kBTU/year	589,850			590	
Electricity	kwh/year	480,950		1641963300	1642	13682
Theoretical Max		fuel		btu	million BTU	
VMT	gasoline	222,848,004		1043675825158	1043676	(with pavley)
Natural Gas	kBTU/year	57574306			57574	
Electricity	kwh/year	40969463		1.3987E+11	139870	1241120

Metrics:

BTU_kWh	3,414	USDOE 2014
Weighted BTU_mile (no pavley)	6,329	Oak Ridge 2014 and EMFAC
Weighted BTU_mile (with pavley)	4,683	Oak Ridge 2014 and EMFAC
LBS CO2 per gal diesel	22.5	CR 2015
LBS CO2 per gal gasoline	19.4	CR 2015
LBS per MT	2204.62	
Energy Unit	BTU/gal	
Gasoline	124,340	USDOE 2014
Diesel	138,490	USDOE 2014
Million	1000000	

References:

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Energy metrics from CalEEMod

	Metric	Homestay	Microbrewery	Winery	Creamery/Dairy	Roadside Sales	Agricultural Store	Total (rep projects)	Total (theoretical max)
Mobile Source (gasoline)	VMT	17702	2,444,770	2,444,770	244,477	0	111,755	5,263,474	222848004
Electricity	kWh	10,135	120,000	480,950	28,800	4,698	46,980	691,563	40969463
Natural Gas	kBTU	31,450	1,039,750	589,850	259,650	696	6,960	1,928,356	57574306
<i>sum</i>		<i>59,287</i>	<i>3,604,520</i>	<i>3,515,570</i>	<i>532,927</i>	<i>5,394</i>	<i>165,695</i>		
Construction	MTCO2	12.1	320.7	320.7	321.0	57.8	58.4	1,091	29632
<i>Theoretical Max Projects (for each)</i>		<i>1</i>	<i>8</i>	<i>83</i>	<i>1</i>	<i>1</i>	<i>1</i>		