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October 30, 2017

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Senior Planner, Environmental and Policy Analysis
City of San Diego Planning Department
1010 Second Ave, Suite 1200, MS 413
San Diego, CA 92101

Reference: Supplemental Air Quality Analysis for the Proposed Uptown Community Plan Amendments (RECON Number 6086.4)

Dear Ms. Malone:

This letter provides a supplemental analysis to the Final Program Environmental Impact Report (PEIR) for the Uptown Community Plan Update (City of San Diego 2016a) and the Memorandum: Environmental Analysis of Uptown Community Plan Update with the Planning Commission Modification (City of San Diego 2016b). On November 14, 2016, the City of San Diego (City) adopted the Uptown Community Plan Update (adopted CPU). Since adoption, amendments have been proposed to increase the residential density designations of several parcels. This letter describes the results of the updated air quality impact assessment associated with the proposed amendments.

The proposed amendments would result in an increase in future residential density in the Uptown area that would lead to an increase in overall operational emissions. This supplemental air quality analysis provides calculations of the updated year 2035 operational emissions associated with the proposed amendments. This analysis also provides a qualitative discussion of sensitive receptors, air movement, and odors; these impacts would be the same as those analyzed in the previous Air Quality Technical Report.

1.0 PROPOSED AMENDMENTS

The proposed amendments include:

- St. Paul's – Redesignating 2.1 acres located along both sides of 3rd Avenue between Maple Street and Nutmeg Street from Residential High 45–73 dwelling units per acre to 109 dwelling units per acre and 0.69 acre located along the west side of 4th Avenue between Maple Street and Nutmeg Street from Office Commercial 0–73 dwelling units per acre to Office Commercial 0–109 dwelling units per acre;
- Park and University – Redesignating 1.1 acres located at the northwest corner of University Avenue and Park Boulevard from Community Commercial 0–73 dwelling units per acre to Community Commercial 0–109 dwelling units per acre; and
- Applying a Community Plan Implementation Overlay Zone (CPIOZ) Type B requiring a Process 3 Site Development Permit for development that exceeds a maximum building height of 30 feet within areas in the RM-2-5 zone of the University Heights neighborhood located west of Park Boulevard, east of Maryland Street, south of Mission Cliffs Drive, and north of Tyler Avenue within the Uptown Community.

2.0 ANALYSIS METHODOLOGY

Operational emissions are long term and include mobile and area sources. Sources of operational emissions associated with future projects developed under the proposed amendments include:

- Traffic generated by the project; and
- Area source emissions from the use of natural gas, fireplaces, and consumer products.

In order to provide an accurate comparison between the proposed amendments and the analysis prepared for the approved CPU, operational emissions were calculated using the same model and assumptions as detailed in the PEIR. Air emissions were calculated using California Emissions Estimator Model 2013.2.2 (CalEEMod; CAPCOA 2013) assuming full buildout by year 2035. Although updated versions of CalEEMod are available, emissions were calculated using version 2013.2.2 in order to provide accurate comparison to the emissions that were calculated in the PEIR prepared for the approved CPU. The following is a brief summary of the modeled assumptions.

2.1 Land Use

The air quality analysis prepared for the approved CPU calculated operational emissions for the existing and projected growth in land uses. Table 1 summarizes the increases in dwelling units that would result from the proposed amendments.

Table 1
Adopted and Proposed Dwelling Units

Traffic Analysis Zone	Adopted CPU Total Dwelling Units	Proposed Amendments Total Dwelling Units	Net Increase
Park and University Amendments			
3316	930	1,024	94
St. Paul's Amendments			
3542	445	456	11
3552	753	870	117
TOTAL	2,128	2,350	222

CPU = Community Plan Update

To provide a comparative assessment of air quality impacts, operational emissions due to the increase in residential dwelling units associated with proposed amendments were calculated and added to the overall operational emissions associated with the approved CPU.

2.2 Mobile Sources

For air quality modeling purposes and to ensure consistency in evaluations, trip generation rates are based on the Institute of Transportation Engineers Trip Generation 8th Edition trip rates for each respective land use category, and trip lengths are based on the trip purpose and statewide averages. The vehicle emission factors and fleet mix included in CalEEMod are derived from California Air Resources Board's (CARB's) 2011 Emission Factor Model (EMFAC; State of California 2011).

2.3 Area Sources

CalEEMod estimates the emissions that would occur from the use of hearths, woodstoves, landscaping equipment, consumer products, and architectural coatings. The use of hearths (fireplaces) and woodstoves directly emits air pollutants from the combustion of natural gas, wood, or biomass. CalEEMod estimates emissions from hearths and woodstoves only for residential uses based on the type and size features of the residential land use inputs. As with the analysis prepared for the approved CPU, it was assumed for this analysis that residential uses would be constructed with natural gas fireplaces.

3.0 IMPACT ANALYSIS

3.1 Consistency with Regional Air Quality Strategy

The Regional Air Quality Strategy (RAQS) is the applicable regional air quality plan that sets forth the San Diego Air Pollution Control District's (SDAPCD's) strategies for achieving the National Ambient Air Quality Standards (NAAQS) and California Ambient Air Quality Standards (CAAQS). The San Diego Air Basin (SDAB) is designated non-attainment for the federal and state ozone standard. Accordingly, the RAQS was developed to identify feasible emission control measures and provide expeditious progress toward attaining the standards for ozone. The two pollutants addressed in the RAQS are reactive organic gases (ROG) and oxides of nitrogen (NOx), which are precursors to the formation of ozone. Projected increases in motor vehicle usage, population, and growth create challenges in controlling emissions and by extension to maintaining and improving air quality. The RAQS, in conjunction with transportation control measures (TCM), were most recently adopted in 2016 as the air quality plan for the region.

The growth projections used by the SDAPCD to develop the RAQS emissions budgets are based on the population, vehicle trends, and land use plans developed in general plans and used by the San Diego Association of Governments (SANDAG) in the development of the regional transportation plan (RTP) and Sustainable Communities Strategy (SCS). As such, projects that propose development that is consistent with the growth anticipated by SANDAG's growth projections and/or the City's General Plan would not conflict with the RAQS. In the event that a project would propose development that is less dense than anticipated by the growth projections, the project would likewise be consistent with the RAQS. In the event that a project proposes development that is greater than anticipated in the growth projections, further analysis would be warranted to determine if the project would exceed the growth projections used in the RAQS for the specific subregional area.

Table 2 summarizes the estimated maximum emissions for the Uptown area for the adopted CPU, the amendments associated with the St. Paul's site, the amendments associated with the Park and University site, and the combined amendments. CalEEMod output is provided in Attachment 1.

Table 2
Year 2035 Uptown Operational Emissions
(pounds per day)

Source	ROG	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$
Adopted CPU						
Area	1,367	33	2,851	0	58	57
Energy	13	111	54	1	9	9
Mobile	1,084	1,681	9,903	37	2,536	703
Total	**2,464**	**1,825**	**12,808**	**38**	**2,602**	**769**
St. Paul's Amendments						
Area	1,372	33	2,861	0	58	57
Energy	13	111	54	1	9	9
Mobile	1,086	1,685	9,923	38	2,541	705
Total	**2,470**	**1,829**	**12,838**	**38**	**2,608**	**771**
Net Increase	*6*	*4*	*30*	*0*	*6*	*2*
Park and University Amendments						
Area	1,370	33	2,858	0	58	57
Energy	13	111	54	1	9	9
Mobile	1,085	1,684	9,917	38	2,540	704
Total	**2,469**	**1,828**	**12,830**	**38**	**2,606**	**771**
Net Increase	*5*	*3*	*22*	*0*	*4*	*1*

Table 2 Year 2035 Uptown Operational Emissions (pounds per day)						
Source	ROG	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$
Combined						
Area	1,375	33	2,869	0	58	58
Energy	13	111	54	1	9	9
Mobile	1,087	1,687	9,937	38	2,545	706
Total	**2,475**	**1,832**	**12,860**	**38**	**2,612**	**773**
Net Increase	*11*	*7*	*53*	*0*	*10*	*3*
CPU = Community Plan Update; ROG = reactive organic gases; NOx = oxides of nitrogen; CO = carbon monoxide; SOx = oxides of sulfur; PM_{10} = 10-micron particulate matter; $PM_{2.5}$ = 10-micron particulate matter						

As shown, when compared to the adopted CPU, the proposed amendments would result in a slight increase in operational emissions in the Uptown area. However, this slight increase in emissions does not necessarily imply that the proposed amendments would conflict with implementation of the RAQS. Another measurement tool in determining consistency with the RAQS is to determine how a project accommodates the expected increase in population or employment. Generally, if a project is planned in a way that results in the minimization of vehicle miles travelled (VMT) both within the project and the community in which it is located, and consequently the minimization of air pollutant emissions, that aspect of the project is consistent with the RAQS. The proposed amendments would increase residential density within Transportation Priority Areas (TPAs). By targeting higher residential density along transit corridors and in the vicinity of a variety of land uses, the proposed amendments would be consistent with strategies identified in the RAQS. The General Plan City of Villages strategy calls for focusing growth into mixed-use activity centers that are pedestrian friendly, centers of community life, and linked to the regional transit system. The approved CPU focuses growth into its pedestrian-oriented, mixed-use commercial areas that are served by transit, and improves the pedestrian environment by enhancing pedestrian activity in the business districts and neighborhoods. The proposed amendments would increase the residential density within and adjacent to the Community Villages area of Uptown. The Community Villages within Uptown have established themselves as community and neighborhood-oriented areas with local commercial, office, and multi-family residential uses, including some structures with office or residential space above commercial space. By increasing residential density in the Community Villages areas and within TPAs, the proposed amendments would be consistent with the goals of the RAQS to develop compact, walkable communities close to transit connections and consistent with smart growth principles. Policies contained within the approved CPU would serve to promote bus transit use as well as other forms of mobility, including walking and bicycling. This type of development is consistent with the goals of the RAQS for reducing the emissions associated with new development.

The RAQS includes emission control measures for stationary sources. These measures are enforced through SDAPCD Rules and Regulations. The proposed amendments would not include a source of stationary emissions. Any stationary source requiring a permit (generators, steam boilers, large water heaters, etc.) would be required to comply with SDAPCD Rules and Regulations, thereby implementing the RAQS control measures for stationary sources.

The RAQS includes three categories of emission control programs to reduce NO_x and ROG emissions from mobile sources: Incentive Programs, TCMs, and Indirect Source Programs.

The following Incentive Programs provide funding to reduce emissions of ozone precursors:

- Carl Moyer Memorial Air Quality Attainment Program
- Vehicle Registration Fund Program
- Lower Emission School Bus Replacement and Retrofit Program
- Palomar Mitigation Funds Program
- Lawn Mower Exchange Program

These Incentive Programs are currently being implemented in the SDAB, and the proposed amendments would not conflict or interfere with these programs.

Indirect Source Programs include outreach and assistance to local governments, land developers, and neighborhood groups to reduce VMT and encourage smart growth policies. The proposed amendments would not conflict or interfere with these programs. However, because they would exceed the growth projections currently accounted for in the land use plan and would result in emissions that are greater than what is currently accounted for in the RAQS, a revised housing forecast will need to be provided to SANDAG to ensure that the next revisions to the RAQS and the SIP accurately reflect the anticipated growth. SANDAG housing forecasts are updated every four years. The next forecast is scheduled for revision in 2019. Prior to the next update of the regional housing needs assessment and within six months of the approval of the proposed amendments, the City would provide a revised housing forecast to SANDAG to ensure that any revisions to the population and employment projections used by SDAPCD in updating the RAQS and the SIP will accurately reflect anticipated growth due to the proposed amendments.

Because SANDAG regional growth projections and the RAQS are periodically updated based on the revised housing forecasts in the region, and because the proposed amendments would not conflict or interfere with existing programs and strategies included in the RAQS, impacts due to the proposed amendments would be less than significant.

3.2 Air Quality Standards

Air quality impacts can result from the construction and operation of a project. Construction impacts are short term and result from fugitive dust, equipment exhaust, and indirect effects associated with construction workers and deliveries. Operational impacts can occur on two levels: regional impacts resulting from development or local effects stemming from sensitive receivers placed close to roadways or stationary sources. In the case of the approved CPU and the proposed amendments, operational impacts are primarily due to emissions from mobile sources associated with the vehicular travel along the roadways.

3.2.1 Construction

The PEIR prepared for the approved CPU evaluated construction emissions from hypothetical projects that could be developed under the approved CPU, including a 1.8-acre multi-family residential project, a 25,000-square-foot commercial project, and a 65,000-square-foot light industrial project. It was determined that the hypothetical individual projects would not result in air emissions that would exceed the applicable thresholds. Under the proposed amendments, the City has developed hypothetical multi-family residential projects for the St. Paul's site and the Park and University site based on the area of the sites and the allowed density range. The hypothetical development includes 304 dwelling units on the 2.79-acre St. Paul's site and 120 dwelling units on the 1.1-acre Park and University site. Emissions due to construction of these two projects were calculated, and the results are summarized in Table 3. CalEEMod output is provided in Attachment 2.

Table 3
Hypothetical Construction Emissions
(pounds per day)

Activity	ROG	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$
St. Paul's – 304 Dwelling Units						
Demolition	4	40	35	0	5	2
Site Preparation	4	46	27	0	21	12
Grading	5	60	43	0	12	6
Building Construction	4	27	30	0	4	2
Paving	1	15	15	0	1	1
Architectural Coatings	29	2	3	0	0	0
Max. Daily Emissions	**29**	**60**	**43**	**0**	**21**	**12**
Project-level Threshold	*137*	*250*	*550*	*250*	*100*	*67*

Table 3 Hypothetical Construction Emissions (pounds per day)						
Activity	ROG	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$
Park and University – 120 Dwelling Units						
Demolition	3	25	22	0	3	2
Site Preparation	2	21	15	0	7	4
Grading	2	17	13	0	6	3
Building Construction	3	19	19	0	1	1
Paving	1	10	9	0	1	1
Architectural Coatings	17	2	2	0	0	0
Max. Daily Emissions	**17**	**25**	**22**	**0**	**7**	**4**
Project-level Threshold	*137*	*250*	*550*	*250*	*100*	*67*
ROG = reactive organic gases; NOx = oxides of nitrogen; CO = carbon monoxide; SOx = oxides of sulfur; PM_{10} = 10-micron particulate matter; $PM_{2.5}$ = 10-micron particulate matter						

Note that the emissions summarized in Table 3 are the maximum emissions for each pollutant and that they may occur during different phases of construction. They would not necessarily occur simultaneously. Table 3 presents, therefore, the worst-case emissions. For assessing the significance of the air quality emissions resulting during construction of the hypothetical projects, the construction emissions were compared to the thresholds shown in Table 3. As shown, these projects would not result in air emissions that would exceed the applicable thresholds. Additionally, if the two sites were constructed simultaneously, emissions would still be less than the applicable thresholds.

3.2.2 Operation

Pollutant emissions from buildout of all land uses within the Uptown area would far exceed project-level City of San Diego Significance Determination Thresholds (shown in Table 4). However, project-level standards are not appropriate for a program-level analysis, as the thresholds are conservative and intended to ensure that many individual projects would not obstruct the timely attainment of the national and state ambient air quality standards. Generally, discretionary program-level planning activities, such as general plans, community plans, specific plans, etc., are evaluated for consistency with the local air quality plan. In contrast, project-level thresholds are applied to individual project-specific approvals, such as a proposed development project.

At the program level, the analysis looks at the emissions of the proposed amendments in relation to the adopted CPU and determines if the proposed amendments would conflict with implementation of the RAQS. As discussed in Section 3.1, by increasing residential density in the Community Villages areas and within TPAs, the proposed amendments would be consistent with the goals of the RAQS to develop compact, walkable communities close to transit connections and consistent with smart growth principles. The proposed amendments would not conflict or interfere with Incentive Programs, TCMs, or Indirect Source Programs included in the RAQS. Therefore, the proposed amendments would not conflict with implementation of the RAQS.

At the project level, emissions due to operation of the two hypothetical projects for the St. Paul's and Park and University sites were calculated and compared to the City's project-level significance thresholds. The results are summarized in Table 4. CalEEMod output is provided in Attachment 2.

Table 4 Hypothetical Operational Emissions (pounds per day)						
Activity	ROG	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$
St. Paul's – 304 Dwelling Units						
Area	9	0	25	0	1	1
Energy	0	1	0	0	0	0
Mobile	5	8	47	0	13	4
Total	14	9	72	0	14	4
Project-level Threshold	*137*	*250*	*550*	*250*	*100*	*67*
Park and University – 120 Dwelling Units						
Area	4	0	10	0	0	0
Energy	0	0	0	0	0	0
Mobile	2	3	19	0	5	1
Total	6	4	29	0	5	2
Project-level Threshold	*137*	*250*	*550*	*250*	*100*	*67*
ROG = reactive organic gases; NOx = oxides of nitrogen; CO = carbon monoxide; SOx = oxides of sulfur; PM_{10} = 10-micron particulate matter; $PM_{2.5}$ = 10-micron particulate matter						

As shown, operational emissions generated by these two hypothetical projects would be less than the applicable project-level thresholds.

3.3 Sensitive Receptors

Sensitive land uses include schools and schoolyards, parks and playgrounds, daycare centers, nursing homes, hospitals, and residential communities. Impacts associated with carbon monoxide (CO) hot spots and exposure to toxic air emissions were addressed in the PEIR prepared for the approved CPU. The CO hot spot analysis evaluated three intersections in the Uptown CPU area. The hot spot analysis indicated that the increases of CO due to the implementation of the approved CPU would be below the federal and state 1-hour and 8-hour standards. Likewise, because the proposed amendments would not result in a significant increase in traffic at these intersections, the proposed amendments would not result in intersection CO concentrations that would exceed federal or state standards.

The carcinogenic risks associated with diesel-fueled vehicles operating on local freeways was also evaluated in the PEIR prepared for the approved CPU, and it was calculated that the cancer risk would be less than ten in a million, and the non-carcinogenic risks would have a maximum chronic hazard index below the significance threshold of one. The PEIR also found that development of cumulative projects within the SDAB would not exacerbate health effects since the evaluation is location-specific considering exposure to contaminants at a specific location. Because the proposed amendments would not change the future analyzed traffic volumes on the area freeways, the impacts associated with the proposed amendments would be the same as those associated with the approved CPU. Further, the St. Paul's and Park and University sites are not located within 500 feet of a freeway, which is the siting distance recommended by CARB.

3.4 Air Movement

The Uptown CPU area is heavily developed, and only relatively small areas would experience a change in land uses, most of which would involve the demolition of existing structures and improvements. Thus, future development would be similar in height, bulk, and scale to existing development in the area. As with the approved CPU, implementation of the proposed amendments would result in a similar development pattern and would not substantially change air movement within the CPU area. Impacts would be less than significant.

3.5 Odors

The proposed amendments would increase the residential density designations of several parcels. Residential uses are not anticipated to generate objectionable odors. The proposed amendments do not include heavy industrial or agricultural uses that are typically associated with odor complaints. During construction of future projects in the CPU area, diesel equipment may generate some nuisance odors. However, odors generated from vehicles and/or equipment exhaust during construction would be temporary, localized, and occur at levels that would not affect a substantial number of people. Exposure to odors associated with project construction would be short term and temporary in nature. Impacts would be less than significant.

4.0 CONCLUSIONS

As calculated in this analysis, when compared to the adopted CPU, the proposed amendments would result in a slight increase in operational emissions in the Uptown area. However, this slight increase in emissions does not necessarily imply that the proposed amendments would conflict with implementation of the RAQS. By increasing residential density in the Community Village areas and within TPAs, the proposed amendments would be consistent with the goals of the RAQS to develop compact, walkable communities close to transit connections and consistent with smart growth principles. The proposed amendments would not conflict or interfere with Incentive Programs, TCMs, or Indirect Source Programs included in the RAQS. Because SANDAG regional growth projections and the RAQS are periodically updated based on the revised housing forecasts in the region, and because the proposed amendments would not conflict or interfere with existing programs and strategies included in the RAQS, impacts due to the proposed amendments would be less than significant.

At the project level, the hypothetical projects that could be constructed at the St. Paul's and Park and University sites under the proposed amendments would not result in construction or operational emissions that would exceed the City's significance thresholds.

Impacts associated with sensitive receptors, air movement, and odors would be the same under the proposed amendments as those discussed in the PEIR prepared for the adopted CPU. These impacts would be less than significant.

If you have any questions about the results of this analysis, please contact me at jfleming@reconenvironmental.com or (619) 308-9333 x177.

Sincerely,

Jessica Fleming
Environmental Analyst

JLF:eab

Attachments

REFERENCES CITED

California Air Pollution Control Officers Association (CAPCOA)
2013 California Emissions Estimator model (CalEEMod). User's Guide Version 2013.2.2 September.

California, State of
2011 EMFAC 2011. California Air Resources Board. Updated January 2013.

San Diego, City of
2016a Final Program Environmental Impact Report (PEIR) for the Uptown Community Plan Update. November.
2016b Memorandum: Environmental Analysis of Uptown Community Plan Update with the Planning Commission Modification.

ATTACHMENT 1

CalEEMod Output – Proposed Amendments

TAZ 3542 AND 3552 - SAINT PAUL'S						
ADOPTED CPU - FROM PC MODIFICATION MEMO						
	ROG	Nox	CO	SO2	PM10	PM2.5
Area	1,367	33	2,851	0	58	57
Energy	13	111	54	1	9	9
Mobile	1,084	1,681	9,903	37	2,536	703
Total	2,464	1,825	12,808	38	2,602	769
ADOPTED CPU - TAZ 3542 AND 3552 ONLY - SAINT PAUL'S						
	ROG	Nox	CO	SO2	PM10	PM2.5
Area	41	1	99	0	2	2
Energy	0	3	1	0	0	0
Mobile	19	33	185	1	52	14
Total	60	36	285	1	54	17
PROPOSED AMENDMENTS - TAZ 3542 AND 3552 ONLY - SAINT PAUL'S						
	ROG	Nox	CO	SO2	PM10	PM2.5
Area	45	1	109	0	2	2
Energy	0	3	1	0	0	0
Mobile	21	36	205	1	58	16
Total	66	40	315	1	60	18
Net Increase	*6*	*4*	*30*	*0*	*6*	*2*
TOTAL CPU AREA EMISSIONS WITH TAZ 3542 AND 3552 AMENDMENTS						
	ROG	Nox	CO	SO2	PM10	PM2.5
Area	1,372	33	2,861	0	58	57
Energy	13	111	54	1	9	9
Mobile	1,086	1,685	9,923	38	2,541	705
Total	2,470	1,829	12,838	38	2,608	771
Net Increase	*6*	*4*	*30*	*0*	*6*	*2*

TAZ 3316 - PARK AND UNIVERSITY						
ADOPTED CPU - FROM PC MODIFICATION MEMO						
	ROG	Nox	CO	SO2	PM10	PM2.5
Area	1,367	33	2,851	0	58	57
Energy	13	111	54	1	9	9
Mobile	1,084	1,681	9,903	37	2,536	703
Total	2,464	1,825	12,808	38	2,602	769
ADOPTED CPU - TAZ 3316 ONLY - PARK AND UNIVERSITY						
	ROG	Nox	CO	SO2	PM10	PM2.5
Area	32	1	77	0	2	2
Energy	0	2	1	0	0	0
Mobile	14	25	144	1	40	11
Total	47	28	221	1	42	13
PROPOSED AMENDMENTS - TAZ 3316 ONLY - PARK AND UNIVERSITY						
	ROG	Nox	CO	SO2	PM10	PM2.5
Area	35	1	84	0	2	2
Energy	0	2	1	0	0	0
Mobile	16	28	158	1	45	12
Total	51	31	243	1	46	14
Net Increase	*5*	*3*	*22*	*0*	*4*	*1*
TOTAL CPU AREA EMISSIONS WITH TAZ 3316 AMENDMENTS						
	ROG	Nox	CO	SO2	PM10	PM2.5
Area	1,370	33	2,858	0	58	57
Energy	13	111	54	1	9	9
Mobile	1,085	1,684	9,917	38	2,540	704
Total	2,469	1,828	12,830	38	2,606	771
Net Increase	*5*	*3*	*22*	*0*	*4*	*1*

COMBINED AMENDMENTS						
ADOPTED CPU - FROM PC MODIFICATION MEMO						
	ROG	Nox	CO	SO2	PM10	PM2.5
Area	1,367	33	2,851	0	58	57
Energy	13	111	54	1	9	9
Mobile	1,084	1,681	9,903	37	2,536	703
Total	2,464	1,825	12,808	38	2,602	769
ADOPTED CPU - TAZ 3542, 3552, AND 3316 ONLY						
	ROG	Nox	CO	SO2	PM10	PM2.5
Area	73	2	175	0	4	4
Energy	1	5	2	0	0	0
Mobile	33	58	329	1	93	26
Total	106	65	506	1	96	30
PROPOSED AMENDMENTS - TAZ 3542, 3552, AND 3316 ONLY						
	ROG	Nox	CO	SO2	PM10	PM2.5
Area	80	2	193	0	4	4
Energy	1	5	2	0	0	0
Mobile	37	64	363	1	102	28
Total	118	71	559	1	107	33
Net Increase	*11*	*7*	*53*	*0*	*10*	*3*
TOTAL CPU AREA EMISSIONS WITH TAZ 3542, 3552, AND 3316 AMENDMENTS						
	ROG	Nox	CO	SO2	PM10	PM2.5
Area	1,375	33	2,869	0	58	58
Energy	13	111	54	1	9	9
Mobile	1,087	1,687	9,937	38	2,545	706
Total	2,475	1,832	12,860	38	2,612	773
Net Increase	*11*	*7*	*53*	*0*	*10*	*3*

6086 Uptown - 2035 - St. Paul's Existing Density 1,198 Units

San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	1,198.00	Dwelling Unit	74.88	1,198,000.00	3426

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	539.36	**CH4 Intensity (lb/MWhr)**	0.022	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Project Characteristics - X

Land Use - 1,198 units in TAZ 3542 and 3552

Construction Phase - No construction

Demolition -

Architectural Coating - SDAPCD Rule 67.0.1

Woodstoves - No woodstoves, no woodburning fireplaces

Area Coating - SDAPCD Rule 67.0.1

Energy Use - Default

Mobile Land Use Mitigation -

Area Mitigation - SDAPCD Rule 67.0.1

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	100
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	150
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	100
tblConstructionPhase	NumDays	1,110.00	1.00
tblFireplaces	NumberGas	658.90	1,078.00
tblFireplaces	NumberNoFireplace	119.80	120.00
tblFireplaces	NumberWood	419.30	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.022
tblProjectCharacteristics	CO2IntensityFactor	720.49	539.36
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblProjectCharacteristics	OperationalYear	2014	2035
tblWoodstoves	NumberCatalytic	59.90	0.00
tblWoodstoves	NumberNoncatalytic	59.90	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	6.6249	36.5812	65.3976	0.1413	7.9389	1.6942	9.6331	2.1228	1.5889	3.7117	0.0000	12,051.0004	12,051.0004	0.9844	0.0000	12,071.6724
Total	**6.6249**	**36.5812**	**65.3976**	**0.1413**	**7.9389**	**1.6942**	**9.6331**	**2.1228**	**1.5889**	**3.7117**	**0.0000**	**12,051.0004**	**12,051.0004**	**0.9844**	**0.0000**	**12,071.6724**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	6.6249	36.5812	65.3976	0.1413	7.9389	1.6942	9.6331	2.1228	1.5889	3.7117	0.0000	12,051.0004	12,051.0004	0.9844	0.0000	12,071.6724
Total	**6.6249**	**36.5812**	**65.3976**	**0.1413**	**7.9389**	**1.6942**	**9.6331**	**2.1228**	**1.5889**	**3.7117**	**0.0000**	**12,051.0004**	**12,051.0004**	**0.9844**	**0.0000**	**12,071.6724**

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	40.9433	1.1364	98.6033	5.2200e-003		1.9939	1.9939		1.9787	1.9787	0.0000	23,006.2010	23,006.2010	0.6070	0.4185	23,148.6875
Energy	0.3817	3.2617	1.3880	0.0208		0.2637	0.2637		0.2637	0.2637		4,163.9043	4,163.9043	0.0798	0.0763	4,189.2452
Mobile	18.7192	32.8940	186.3224	0.7326	51.8164	0.8125	52.6289	13.8294	0.7505	14.5798		51,059.3918	51,059.3918	1.5380		51,091.6901
Total	**60.0442**	**37.2921**	**286.3136**	**0.7586**	**51.8164**	**3.0701**	**54.8865**	**13.8294**	**2.9929**	**16.8222**	**0.0000**	**78,229.4971**	**78,229.4971**	**2.2248**	**0.4949**	**78,429.6227**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	40.9433	1.1364	98.6033	5.2200e-003		1.9939	1.9939		1.9787	1.9787	0.0000	23,006.2010	23,006.2010	0.6070	0.4185	23,148.6875
Energy	0.3060	2.6151	1.1128	0.0167		0.2114	0.2114		0.2114	0.2114		3,338.4782	3,338.4782	0.0640	0.0612	3,358.7956
Mobile	18.6548	32.6307	185.0857	0.7255	51.2982	0.8054	52.1036	13.6911	0.7439	14.4350		50,563.0933	50,563.0933	1.5239		50,595.0943
Total	**59.9041**	**36.3823**	**284.8018**	**0.7474**	**51.2982**	**3.0107**	**54.3089**	**13.6911**	**2.9340**	**16.6251**	**0.0000**	**76,907.7724**	**76,907.7724**	**2.1948**	**0.4797**	**77,102.5773**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.23	2.44	0.53	1.48	1.00	1.94	1.05	1.00	1.97	1.17	0.00	1.69	1.69	1.35	3.06	1.69

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	11/3/2018	11/5/2018	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	9	863.00	128.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048		2,609.9390	2,609.9390	0.6387		2,623.3517
Total	**2.6687**	**23.2608**	**17.5327**	**0.0268**		**1.4943**	**1.4943**		**1.4048**	**1.4048**		**2,609.9390**	**2,609.9390**	**0.6387**		**2,623.3517**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.3233	10.0261	17.3776	0.0302	0.8495	0.1493	0.9989	0.2424	0.1374	0.3797		2,928.0361	2,928.0361	0.0225		2,928.5083
Worker	2.6329	3.2943	30.4873	0.0843	7.0893	0.0506	7.1399	1.8804	0.0468	1.9272		6,513.0253	6,513.0253	0.3232		6,519.8124
Total	**3.9562**	**13.3203**	**47.8649**	**0.1145**	**7.9389**	**0.1999**	**8.1388**	**2.1228**	**0.1842**	**2.3069**		**9,441.0614**	**9,441.0614**	**0.3457**		**9,448.3207**

3.2 Building Construction - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048	0.0000	2,609.9389	2,609.9389	0.6387		2,623.3517
Total	**2.6687**	**23.2608**	**17.5327**	**0.0268**		**1.4943**	**1.4943**		**1.4048**	**1.4048**	**0.0000**	**2,609.9389**	**2,609.9389**	**0.6387**		**2,623.3517**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.3233	10.0261	17.3776	0.0302	0.8495	0.1493	0.9989	0.2424	0.1374	0.3797		2,928.0361	2,928.0361	0.0225		2,928.5083
Worker	2.6329	3.2943	30.4873	0.0843	7.0893	0.0506	7.1399	1.8804	0.0468	1.9272		6,513.0253	6,513.0253	0.3232		6,519.8124
Total	**3.9562**	**13.3203**	**47.8649**	**0.1145**	**7.9389**	**0.1999**	**8.1388**	**2.1228**	**0.1842**	**2.3069**		**9,441.0614**	**9,441.0614**	**0.3457**		**9,448.3207**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	18.6548	32.6307	185.0857	0.7255	51.2982	0.8054	52.1036	13.6911	0.7439	14.4350		50,563.0933	50,563.0933	1.5239		50,595.0943
Unmitigated	18.7192	32.8940	186.3224	0.7326	51.8164	0.8125	52.6289	13.8294	0.7505	14.5798		51,059.3918	51,059.3918	1.5380		51,091.6901

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	7,894.82	8,577.68	7271.86	22,566,539	22,340,874
Total	7,894.82	8,577.68	7,271.86	22,566,539	22,340,874

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.511887	0.074493	0.190892	0.129437	0.036275	0.005211	0.012579	0.024993	0.001957	0.001971	0.006467	0.000450	0.003389

4.4 Fleet Mix

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.3060	2.6151	1.1128	0.0167		0.2114	0.2114		0.2114	0.2114		3,338.4782	3,338.4782	0.0640	0.0612	3,358.7956
NaturalGas Unmitigated	0.3817	3.2617	1.3880	0.0208		0.2637	0.2637		0.2637	0.2637		4,163.9043	4,163.9043	0.0798	0.0763	4,189.2452

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	35393.2	0.3817	3.2617	1.3880	0.0208		0.2637	0.2637		0.2637	0.2637		4,163.9043	4,163.9043	0.0798	0.0763	4,189.2452
Total		**0.3817**	**3.2617**	**1.3880**	**0.0208**		**0.2637**	**0.2637**		**0.2637**	**0.2637**		**4,163.9043**	**4,163.9043**	**0.0798**	**0.0763**	**4,189.2452**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	28.3771	0.3060	2.6151	1.1128	0.0167		0.2114	0.2114		0.2114	0.2114		3,338.4782	3,338.4782	0.0640	0.0612	3,358.7956
Total		**0.3060**	**2.6151**	**1.1128**	**0.0167**		**0.2114**	**0.2114**		**0.2114**	**0.2114**		**3,338.4782**	**3,338.4782**	**0.0640**	**0.0612**	**3,358.7956**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	40.9433	1.1364	98.6033	5.2200e-003		1.9939	1.9939		1.9787	1.9787	0.0000	23,006.2010	23,006.2010	0.6070	0.4185	23,148.6875
Unmitigated	40.9433	1.1364	98.6033	5.2200e-003		1.9939	1.9939		1.9787	1.9787	0.0000	23,006.2010	23,006.2010	0.6070	0.4185	23,148.6875

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	10.2688					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	25.6372					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	2.0926	1.0000e-004	0.1141	0.0000		1.4458	1.4458		1.4306	1.4306	0.0000	22,828.2353	22,828.2353	0.4375	0.4185	22,967.1641
Landscaping	2.9448	1.1363	98.4891	5.2200e-003		0.5481	0.5481		0.5481	0.5481		177.9657	177.9657	0.1694		181.5233
Total	**40.9433**	**1.1364**	**98.6033**	**5.2200e-003**		**1.9939**	**1.9939**		**1.9787**	**1.9787**	**0.0000**	**23,006.2010**	**23,006.2010**	**0.6070**	**0.4185**	**23,148.6875**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Consumer Products	25.6372					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	2.0926	1.0000e-004	0.1141	0.0000		1.4458	1.4458		1.4306	1.4306	0.0000	22,828.2353	22,828.2353	0.4375	0.4185	22,967.1641
Landscaping	2.9448	1.1363	98.4891	5.2200e-003		0.5481	0.5481		0.5481	0.5481		177.9657	177.9657	0.1694		181.5233
Architectural Coating	10.2688					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**40.9433**	**1.1364**	**98.6033**	**5.2200e-003**		**1.9939**	**1.9939**		**1.9787**	**1.9787**	**0.0000**	**23,006.2010**	**23,006.2010**	**0.6070**	**0.4185**	**23,148.6875**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Vegetation

6086 Uptown - 2035 - St. Paul's Proposed Density 1,326 Units

San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	1,326.00	Dwelling Unit	82.88	1,326,000.00	3792

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	539.36	**CH4 Intensity (lb/MWhr)**	0.022	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Project Characteristics - X

Land Use - 1,326 units

Construction Phase - No construction

Demolition -

Architectural Coating - SDAPCD Rule 67.0.1

Woodstoves - No woodstoves, no woodburning fireplaces

Area Coating - SDAPCD Rule 67.0.1

Energy Use - Default

Mobile Land Use Mitigation -

Area Mitigation - SDAPCD Rule 67.0.1

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	250
tblConstructionPhase	NumDays	1,550.00	1.00
tblFireplaces	NumberGas	729.30	1,193.00
tblFireplaces	NumberNoFireplace	132.60	133.00
tblFireplaces	NumberWood	464.10	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.022
tblProjectCharacteristics	CO2IntensityFactor	720.49	539.36
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblProjectCharacteristics	OperationalYear	2014	2035
tblWoodstoves	NumberCatalytic	66.30	0.00
tblWoodstoves	NumberNoncatalytic	66.30	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	6.4243	34.4543	66.5501	0.1535	8.7874	1.4946	10.2820	2.3497	1.4015	3.7512	0.0000	12,719.6054	12,719.6054	0.9887	0.0000	12,740.3673
Total	**6.4243**	**34.4543**	**66.5501**	**0.1535**	**8.7874**	**1.4946**	**10.2820**	**2.3497**	**1.4015**	**3.7512**	**0.0000**	**12,719.6054**	**12,719.6054**	**0.9887**	**0.0000**	**12,740.3673**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	6.4243	34.4543	66.5501	0.1535	8.7874	1.4946	10.2820	2.3497	1.4015	3.7512	0.0000	12,719.6054	12,719.6054	0.9887	0.0000	12,740.3673
Total	**6.4243**	**34.4543**	**66.5501**	**0.1535**	**8.7874**	**1.4946**	**10.2820**	**2.3497**	**1.4015**	**3.7512**	**0.0000**	**12,719.6054**	**12,719.6054**	**0.9887**	**0.0000**	**12,740.3673**

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	45.3176	1.2578	109.1385	5.7800e-003		2.2067	2.2067		2.1898	2.1898	0.0000	25,460.5098	25,460.5098	0.6717	0.4632	25,618.1972
Energy	0.4225	3.6102	1.5363	0.0230		0.2919	0.2919		0.2919	0.2919		4,608.7956	4,608.7956	0.0883	0.0845	4,636.8440
Mobile	20.7192	36.4086	206.2300	0.8109	57.3527	0.8993	58.2520	15.3069	0.8307	16.1376		56,514.8193	56,514.8193	1.7023		56,550.5685
Total	**66.4592**	**41.2766**	**316.9047**	**0.8397**	**57.3527**	**3.3979**	**60.7506**	**15.3069**	**3.3124**	**18.6194**	**0.0000**	**86,584.1247**	**86,584.1247**	**2.4624**	**0.5477**	**86,805.6096**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	45.3176	1.2578	109.1385	5.7800e-003		2.2067	2.2067		2.1898	2.1898	0.0000	25,460.5098	25,460.5098	0.6717	0.4632	25,618.1972
Energy	0.3387	2.8946	1.2317	0.0185		0.2340	0.2340		0.2340	0.2340		3,695.1770	3,695.1770	0.0708	0.0677	3,717.6653
Mobile	20.6479	36.1172	204.8612	0.8030	56.7792	0.8914	57.6706	15.1539	0.8234	15.9773		55,965.4939	55,965.4939	1.6867		56,000.9140
Total	**66.3042**	**40.2695**	**315.2314**	**0.8273**	**56.7792**	**3.3321**	**60.1113**	**15.1539**	**3.2473**	**18.4011**	**0.0000**	**85,121.1807**	**85,121.1807**	**2.4292**	**0.5309**	**85,336.7765**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.23	2.44	0.53	1.48	1.00	1.94	1.05	1.00	1.97	1.17	0.00	1.69	1.69	1.35	3.06	1.69

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	3/16/2019	3/18/2019	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	9	955.00	142.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3516	20.9650	17.1204	0.0268		1.2850	1.2850		1.2083	1.2083		2,580.7618	2,580.7618	0.6279		2,593.9479
Total	**2.3516**	**20.9650**	**17.1204**	**0.0268**		**1.2850**	**1.2850**		**1.2083**	**1.2083**		**2,580.7618**	**2,580.7618**	**0.6279**		**2,593.9479**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.3688	10.1207	18.4325	0.0334	0.9423	0.1540	1.0963	0.2688	0.1417	0.4105		3,192.2876	3,192.2876	0.0244		3,192.7991
Worker	2.7039	3.3685	30.9972	0.0933	7.8451	0.0556	7.9007	2.0809	0.0515	2.1324		6,946.5560	6,946.5560	0.3364		6,953.6203
Total	**4.0727**	**13.4892**	**49.4297**	**0.1267**	**8.7874**	**0.2096**	**8.9970**	**2.3497**	**0.1932**	**2.5429**		**10,138.8436**	**10,138.8436**	**0.3608**		**10,146.4194**

3.2 Building Construction - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3516	20.9650	17.1204	0.0268		1.2850	1.2850		1.2083	1.2083	0.0000	2,580.7618	2,580.7618	0.6279		2,593.9479
Total	**2.3516**	**20.9650**	**17.1204**	**0.0268**		**1.2850**	**1.2850**		**1.2083**	**1.2083**	**0.0000**	**2,580.7618**	**2,580.7618**	**0.6279**		**2,593.9479**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.3688	10.1207	18.4325	0.0334	0.9423	0.1540	1.0963	0.2688	0.1417	0.4105		3,192.2876	3,192.2876	0.0244		3,192.7991
Worker	2.7039	3.3685	30.9972	0.0933	7.8451	0.0556	7.9007	2.0809	0.0515	2.1324		6,946.5560	6,946.5560	0.3364		6,953.6203
Total	**4.0727**	**13.4892**	**49.4297**	**0.1267**	**8.7874**	**0.2096**	**8.9970**	**2.3497**	**0.1932**	**2.5429**		**10,138.8436**	**10,138.8436**	**0.3608**		**10,146.4194**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	20.6479	36.1172	204.8612	0.8030	56.7792	0.8914	57.6706	15.1539	0.8234	15.9773		55,965.4939	55,965.4939	1.6867		56,000.9140
Unmitigated	20.7192	36.4086	206.2300	0.8109	57.3527	0.8993	58.2520	15.3069	0.8307	16.1376		56,514.8193	56,514.8193	1.7023		56,550.5685

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	8,738.34	9,494.16	8048.82	24,977,655	24,727,879
Total	8,738.34	9,494.16	8,048.82	24,977,655	24,727,879

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.511887	0.074493	0.190892	0.129437	0.036275	0.005211	0.012579	0.024993	0.001957	0.001971	0.006467	0.000450	0.003389

4.4 Fleet Mix

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.3387	2.8946	1.2317	0.0185		0.2340	0.2340		0.2340	0.2340		3,695.1770	3,695.1770	0.0708	0.0677	3,717.6653
NaturalGas Unmitigated	0.4225	3.6102	1.5363	0.0230		0.2919	0.2919		0.2919	0.2919		4,608.7956	4,608.7956	0.0883	0.0845	4,636.8440

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	39174.8	0.4225	3.6102	1.5363	0.0230		0.2919	0.2919		0.2919	0.2919		4,608.7956	4,608.7956	0.0883	0.0845	4,636.8440
Total		**0.4225**	**3.6102**	**1.5363**	**0.0230**		**0.2919**	**0.2919**		**0.2919**	**0.2919**		**4,608.7956**	**4,608.7956**	**0.0883**	**0.0845**	**4,636.8440**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	31.409	0.3387	2.8946	1.2317	0.0185		0.2340	0.2340		0.2340	0.2340		3,695.1770	3,695.1770	0.0708	0.0677	3,717.6653
Total		**0.3387**	**2.8946**	**1.2317**	**0.0185**		**0.2340**	**0.2340**		**0.2340**	**0.2340**		**3,695.1770**	**3,695.1770**	**0.0708**	**0.0677**	**3,717.6653**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	45.3176	1.2578	109.1385	5.7800e-003		2.2067	2.2067		2.1898	2.1898	0.0000	25,460.5098	25,460.5098	0.6717	0.4632	25,618.1972
Unmitigated	45.3176	1.2578	109.1385	5.7800e-003		2.2067	2.2067		2.1898	2.1898	0.0000	25,460.5098	25,460.5098	0.6717	0.4632	25,618.1972

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	11.3659					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	28.3764					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	2.3158	1.1000e-004	0.1263	0.0000		1.6000	1.6000		1.5832	1.5832	0.0000	25,263.5294	25,263.5294	0.4842	0.4632	25,417.2790
Landscaping	3.2594	1.2577	109.0122	5.7800e-003		0.6067	0.6067		0.6067	0.6067		196.9804	196.9804	0.1875		200.9181
Total	**45.3176**	**1.2578**	**109.1385**	**5.7800e-003**		**2.2067**	**2.2067**		**2.1898**	**2.1898**	**0.0000**	**25,460.5098**	**25,460.5098**	**0.6717**	**0.4632**	**25,618.1972**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Consumer Products	28.3764					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	2.3158	1.1000e-004	0.1263	0.0000		1.6000	1.6000		1.5832	1.5832	0.0000	25,263.5294	25,263.5294	0.4842	0.4632	25,417.2790
Landscaping	3.2594	1.2577	109.0122	5.7800e-003		0.6067	0.6067		0.6067	0.6067		196.9804	196.9804	0.1875		200.9181
Architectural Coating	11.3659					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**45.3176**	**1.2578**	**109.1385**	**5.7800e-003**		**2.2067**	**2.2067**		**2.1898**	**2.1898**	**0.0000**	**25,460.5098**	**25,460.5098**	**0.6717**	**0.4632**	**25,618.1972**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Vegetation

6086 Uptown - 2035 - Park and University Existing Density 930 Units

San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	930.00	Dwelling Unit	58.13	930,000.00	2660

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	539.36	**CH4 Intensity (lb/MWhr)**	0.022	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Project Characteristics - X

Land Use - 930 units

Construction Phase - No construction

Demolition -

Architectural Coating - SDAPCD Rule 67.0.1

Woodstoves - No woodstoves, no woodburning fireplaces

Area Coating - SDAPCD Rule 67.0.1

Energy Use - Default

Mobile Land Use Mitigation -

Area Mitigation - SDAPCD Rule 67.0.1

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	100
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	150
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	100
tblConstructionPhase	NumDays	1,110.00	1.00
tblFireplaces	NumberGas	511.50	837.00
tblFireplaces	NumberWood	325.50	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.022
tblProjectCharacteristics	CO2IntensityFactor	720.49	539.36
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblProjectCharacteristics	OperationalYear	2014	2035
tblWoodstoves	NumberCatalytic	46.50	0.00
tblWoodstoves	NumberNoncatalytic	46.50	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	5.7362	33.5729	54.6423	0.1156	6.1610	1.6490	7.8100	1.6473	1.5474	3.1947	0.0000	9,931.0542	9,931.0542	0.9070	0.0000	9,950.1014
Total	**5.7362**	**33.5729**	**54.6423**	**0.1156**	**6.1610**	**1.6490**	**7.8100**	**1.6473**	**1.5474**	**3.1947**	**0.0000**	**9,931.0542**	**9,931.0542**	**0.9070**	**0.0000**	**9,950.1014**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	5.7362	33.5729	54.6423	0.1156	6.1610	1.6490	7.8100	1.6473	1.5474	3.1947	0.0000	9,931.0542	9,931.0542	0.9070	0.0000	9,950.1014
Total	**5.7362**	**33.5729**	**54.6423**	**0.1156**	**6.1610**	**1.6490**	**7.8100**	**1.6473**	**1.5474**	**3.1947**	**0.0000**	**9,931.0542**	**9,931.0542**	**0.9070**	**0.0000**	**9,950.1014**

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	31.7844	0.8822	76.5451	4.0500e-003		1.5481	1.5481		1.5362	1.5362	0.0000	17,862.8595	17,862.8595	0.4712	0.3250	17,973.4909
Energy	0.2963	2.5321	1.0775	0.0162		0.2047	0.2047		0.2047	0.2047		3,232.4132	3,232.4132	0.0620	0.0593	3,252.0851
Mobile	14.5316	25.5354	144.6409	0.5687	40.2247	0.6307	40.8555	10.7356	0.5826	11.3182		39,637.0905	39,637.0905	1.1940		39,662.1634
Total	**46.6122**	**28.9497**	**222.2635**	**0.5889**	**40.2247**	**2.3835**	**42.6082**	**10.7356**	**2.3236**	**13.0592**	**0.0000**	**60,732.3632**	**60,732.3632**	**1.7271**	**0.3842**	**60,887.7395**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	31.7844	0.8822	76.5451	4.0500e-003		1.5481	1.5481		1.5362	1.5362	0.0000	17,862.8595	17,862.8595	0.4712	0.3250	17,973.4909
Energy	0.2376	2.0301	0.8639	0.0130		0.1641	0.1641		0.1641	0.1641		2,591.6400	2,591.6400	0.0497	0.0475	2,607.4123
Mobile	14.4816	25.3310	143.6809	0.5632	39.8225	0.6252	40.4477	10.6283	0.5775	11.2058		39,251.8170	39,251.8170	1.1830		39,276.6591
Total	**46.5035**	**28.2433**	**221.0899**	**0.5802**	**39.8225**	**2.3374**	**42.1599**	**10.6283**	**2.2779**	**12.9061**	**0.0000**	**59,706.3165**	**59,706.3165**	**1.7039**	**0.3725**	**59,857.5624**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.23	2.44	0.53	1.48	1.00	1.94	1.05	1.00	1.97	1.17	0.00	1.69	1.69	1.35	3.06	1.69

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	11/3/2018	11/5/2018	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	9	670.00	99.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048		2,609.9390	2,609.9390	0.6387		2,623.3517
Total	**2.6687**	**23.2608**	**17.5327**	**0.0268**		**1.4943**	**1.4943**		**1.4048**	**1.4048**		**2,609.9390**	**2,609.9390**	**0.6387**		**2,623.3517**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.0235	7.7545	13.4405	0.0234	0.6571	0.1155	0.7726	0.1875	0.1062	0.2937		2,264.6529	2,264.6529	0.0174		2,265.0181
Worker	2.0441	2.5576	23.6692	0.0654	5.5039	0.0393	5.5432	1.4599	0.0363	1.4962		5,056.4623	5,056.4623	0.2509		5,061.7315
Total	**3.0676**	**10.3121**	**37.1097**	**0.0888**	**6.1610**	**0.1548**	**6.3157**	**1.6473**	**0.1426**	**1.7899**		**7,321.1152**	**7,321.1152**	**0.2683**		**7,326.7496**

3.2 Building Construction - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048	0.0000	2,609.9389	2,609.9389	0.6387		2,623.3517
Total	**2.6687**	**23.2608**	**17.5327**	**0.0268**		**1.4943**	**1.4943**		**1.4048**	**1.4048**	**0.0000**	**2,609.9389**	**2,609.9389**	**0.6387**		**2,623.3517**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.0235	7.7545	13.4405	0.0234	0.6571	0.1155	0.7726	0.1875	0.1062	0.2937		2,264.6529	2,264.6529	0.0174		2,265.0181
Worker	2.0441	2.5576	23.6692	0.0654	5.5039	0.0393	5.5432	1.4599	0.0363	1.4962		5,056.4623	5,056.4623	0.2509		5,061.7315
Total	**3.0676**	**10.3121**	**37.1097**	**0.0888**	**6.1610**	**0.1548**	**6.3157**	**1.6473**	**0.1426**	**1.7899**		**7,321.1152**	**7,321.1152**	**0.2683**		**7,326.7496**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	14.4816	25.3310	143.6809	0.5632	39.8225	0.6252	40.4477	10.6283	0.5775	11.2058		39,251.8170	39,251.8170	1.1830		39,276.6591
Unmitigated	14.5316	25.5354	144.6409	0.5687	40.2247	0.6307	40.8555	10.7356	0.5826	11.3182		39,637.0905	39,637.0905	1.1940		39,662.1634

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	6,128.70	6,658.80	5645.10	17,518,265	17,343,082
Total	6,128.70	6,658.80	5,645.10	17,518,265	17,343,082

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.511887	0.074493	0.190892	0.129437	0.036275	0.005211	0.012579	0.024993	0.001957	0.001971	0.006467	0.000450	0.003389

4.4 Fleet Mix

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.2376	2.0301	0.8639	0.0130		0.1641	0.1641		0.1641	0.1641		2,591.6400	2,591.6400	0.0497	0.0475	2,607.4123
NaturalGas Unmitigated	0.2963	2.5321	1.0775	0.0162		0.2047	0.2047		0.2047	0.2047		3,232.4132	3,232.4132	0.0620	0.0593	3,252.0851

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	27475.5	0.2963	2.5321	1.0775	0.0162		0.2047	0.2047		0.2047	0.2047		3,232.4132	3,232.4132	0.0620	0.0593	3,252.0851
Total		**0.2963**	**2.5321**	**1.0775**	**0.0162**		**0.2047**	**0.2047**		**0.2047**	**0.2047**		**3,232.4132**	**3,232.4132**	**0.0620**	**0.0593**	**3,252.0851**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	22.0289	0.2376	2.0301	0.8639	0.0130		0.1641	0.1641		0.1641	0.1641		2,591.6400	2,591.6400	0.0497	0.0475	2,607.4123
Total		**0.2376**	**2.0301**	**0.8639**	**0.0130**		**0.1641**	**0.1641**		**0.1641**	**0.1641**		**2,591.6400**	**2,591.6400**	**0.0497**	**0.0475**	**2,607.4123**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	31.7844	0.8822	76.5451	4.0500e-003		1.5481	1.5481		1.5362	1.5362	0.0000	17,862.8595	17,862.8595	0.4712	0.3250	17,973.4909
Unmitigated	31.7844	0.8822	76.5451	4.0500e-003		1.5481	1.5481		1.5362	1.5362	0.0000	17,862.8595	17,862.8595	0.4712	0.3250	17,973.4909

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	7.9716					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	19.9020					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.6248	7.0000e-005	0.0886	0.0000		1.1226	1.1226		1.1108	1.1108	0.0000	17,724.7059	17,724.7059	0.3397	0.3250	17,832.5755
Landscaping	2.2860	0.8821	76.4565	4.0500e-003		0.4255	0.4255		0.4255	0.4255		138.1536	138.1536	0.1315		140.9154
Total	**31.7844**	**0.8822**	**76.5451**	**4.0500e-003**		**1.5481**	**1.5481**		**1.5362**	**1.5362**	**0.0000**	**17,862.8595**	**17,862.8595**	**0.4712**	**0.3250**	**17,973.4909**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Consumer Products	19.9020					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.6248	7.0000e-005	0.0886	0.0000		1.1226	1.1226		1.1108	1.1108	0.0000	17,724.7059	17,724.7059	0.3397	0.3250	17,832.5755
Landscaping	2.2860	0.8821	76.4565	4.0500e-003		0.4255	0.4255		0.4255	0.4255		138.1536	138.1536	0.1315		140.9154
Architectural Coating	7.9716					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**31.7844**	**0.8822**	**76.5451**	**4.0500e-003**		**1.5481**	**1.5481**		**1.5362**	**1.5362**	**0.0000**	**17,862.8595**	**17,862.8595**	**0.4712**	**0.3250**	**17,973.4909**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Vegetation

6086 Uptown - 2035 - Park and University Proposed Density 1,024 Units

San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	1,024.00	Dwelling Unit	64.00	1,024,000.00	2929

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	539.36	**CH4 Intensity (lb/MWhr)**	0.022	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Project Characteristics - X

Land Use - 1,024 units

Construction Phase - No construction

Demolition -

Architectural Coating - SDAPCD Rule 67.0.1

Woodstoves - No woodstoves, no woodburning fireplaces

Area Coating - SDAPCD Rule 67.0.1

Energy Use - Default

Mobile Land Use Mitigation -

Area Mitigation - SDAPCD Rule 67.0.1

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	100
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	150
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	100
tblConstructionPhase	NumDays	1,110.00	1.00
tblFireplaces	NumberGas	563.20	922.00
tblFireplaces	NumberNoFireplace	102.40	102.00
tblFireplaces	NumberWood	358.40	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.022
tblProjectCharacteristics	CO2IntensityFactor	720.49	539.36
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblProjectCharacteristics	OperationalYear	2014	2035
tblWoodstoves	NumberCatalytic	51.20	0.00
tblWoodstoves	NumberNoncatalytic	51.20	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	6.0440	34.6120	58.3669	0.1245	6.7777	1.6646	8.4423	1.8123	1.5617	3.3740	0.0000	10,665.4532	10,665.4532	0.9339	0.0000	10,685.0642
Total	**6.0440**	**34.6120**	**58.3669**	**0.1245**	**6.7777**	**1.6646**	**8.4423**	**1.8123**	**1.5617**	**3.3740**	**0.0000**	**10,665.4532**	**10,665.4532**	**0.9339**	**0.0000**	**10,685.0642**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	6.0440	34.6120	58.3669	0.1245	6.7777	1.6646	8.4423	1.8123	1.5617	3.3740	0.0000	10,665.4532	10,665.4532	0.9339	0.0000	10,685.0642
Total	**6.0440**	**34.6120**	**58.3669**	**0.1245**	**6.7777**	**1.6646**	**8.4423**	**1.8123**	**1.5617**	**3.3740**	**0.0000**	**10,665.4532**	**10,665.4532**	**0.9339**	**0.0000**	**10,685.0642**

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	34.9977	0.9713	84.2820	4.4600e-003		1.7051	1.7051		1.6920	1.6920	0.0000	19,676.8234	19,676.8234	0.5190	0.3580	19,798.6885
Energy	0.3263	2.7880	1.1864	0.0178		0.2254	0.2254		0.2254	0.2254		3,559.1303	3,559.1303	0.0682	0.0653	3,580.7905
Mobile	16.0004	28.1164	159.2606	0.6262	44.2905	0.6945	44.9849	11.8207	0.6415	12.4622		43,643.4201	43,643.4201	1.3146		43,671.0272
Total	**51.3244**	**31.8758**	**244.7289**	**0.6485**	**44.2905**	**2.6250**	**46.9154**	**11.8207**	**2.5589**	**14.3797**	**0.0000**	**66,879.3738**	**66,879.3738**	**1.9019**	**0.4232**	**67,050.5063**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	34.9977	0.9713	84.2820	4.4600e-003		1.7051	1.7051		1.6920	1.6920	0.0000	19,676.8234	19,676.8234	0.5190	0.3580	19,798.6885
Energy	0.2616	2.2353	0.9512	0.0143		0.1807	0.1807		0.1807	0.1807		2,853.5907	2,853.5907	0.0547	0.0523	2,870.9572
Mobile	15.9453	27.8914	158.2035	0.6201	43.8476	0.6884	44.5359	11.7025	0.6359	12.3384		43,219.2049	43,219.2049	1.3025		43,246.5580
Total	**51.2046**	**31.0980**	**243.4367**	**0.6388**	**43.8476**	**2.5742**	**46.4217**	**11.7025**	**2.5086**	**14.2112**	**0.0000**	**65,749.6191**	**65,749.6191**	**1.8763**	**0.4103**	**65,916.2037**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.23**	**2.44**	**0.53**	**1.48**	**1.00**	**1.93**	**1.05**	**1.00**	**1.97**	**1.17**	**0.00**	**1.69**	**1.69**	**1.35**	**3.06**	**1.69**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	11/3/2018	11/5/2018	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	9	737.00	109.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048		2,609.9390	2,609.9390	0.6387		2,623.3517
Total	**2.6687**	**23.2608**	**17.5327**	**0.0268**		**1.4943**	**1.4943**		**1.4048**	**1.4048**		**2,609.9390**	**2,609.9390**	**0.6387**		**2,623.3517**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.1269	8.5378	14.7981	0.0257	0.7234	0.1272	0.8506	0.2064	0.1170	0.3234		2,493.4057	2,493.4057	0.0192		2,493.8078
Worker	2.2485	2.8133	26.0361	0.0720	6.0543	0.0432	6.0975	1.6059	0.0400	1.6458		5,562.1085	5,562.1085	0.2760		5,567.9047
Total	**3.3754**	**11.3511**	**40.8342**	**0.0977**	**6.7777**	**0.1704**	**6.9481**	**1.8123**	**0.1569**	**1.9692**		**8,055.5143**	**8,055.5143**	**0.2952**		**8,061.7125**

3.2 Building Construction - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048	0.0000	2,609.9389	2,609.9389	0.6387		2,623.3517
Total	**2.6687**	**23.2608**	**17.5327**	**0.0268**		**1.4943**	**1.4943**		**1.4048**	**1.4048**	**0.0000**	**2,609.9389**	**2,609.9389**	**0.6387**		**2,623.3517**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.1269	8.5378	14.7981	0.0257	0.7234	0.1272	0.8506	0.2064	0.1170	0.3234		2,493.4057	2,493.4057	0.0192		2,493.8078
Worker	2.2485	2.8133	26.0361	0.0720	6.0543	0.0432	6.0975	1.6059	0.0400	1.6458		5,562.1085	5,562.1085	0.2760		5,567.9047
Total	**3.3754**	**11.3511**	**40.8342**	**0.0977**	**6.7777**	**0.1704**	**6.9481**	**1.8123**	**0.1569**	**1.9692**		**8,055.5143**	**8,055.5143**	**0.2952**		**8,061.7125**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	15.9453	27.8914	158.2035	0.6201	43.8476	0.6884	44.5359	11.7025	0.6359	12.3384		43,219.2049	43,219.2049	1.3025		43,246.5580
Unmitigated	16.0004	28.1164	159.2606	0.6262	44.2905	0.6945	44.9849	11.8207	0.6415	12.4622		43,643.4201	43,643.4201	1.3146		43,671.0272

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	6,748.16	7,331.84	6215.68	19,288,928	19,096,039
Total	6,748.16	7,331.84	6,215.68	19,288,928	19,096,039

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.511887	0.074493	0.190892	0.129437	0.036275	0.005211	0.012579	0.024993	0.001957	0.001971	0.006467	0.000450	0.003389

4.4 Fleet Mix

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.2616	2.2353	0.9512	0.0143		0.1807	0.1807		0.1807	0.1807		2,853.5907	2,853.5907	0.0547	0.0523	2,870.9572
NaturalGas Unmitigated	0.3263	2.7880	1.1864	0.0178		0.2254	0.2254		0.2254	0.2254		3,559.1303	3,559.1303	0.0682	0.0653	3,580.7905

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	30252.6	0.3263	2.7880	1.1864	0.0178		0.2254	0.2254		0.2254	0.2254		3,559.1303	3,559.1303	0.0682	0.0653	3,580.7905
Total		**0.3263**	**2.7880**	**1.1864**	**0.0178**		**0.2254**	**0.2254**		**0.2254**	**0.2254**		**3,559.1303**	**3,559.1303**	**0.0682**	**0.0653**	**3,580.7905**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	24.2555	0.2616	2.2353	0.9512	0.0143		0.1807	0.1807		0.1807	0.1807		2,853.5907	2,853.5907	0.0547	0.0523	2,870.9572
Total		**0.2616**	**2.2353**	**0.9512**	**0.0143**		**0.1807**	**0.1807**		**0.1807**	**0.1807**		**2,853.5907**	**2,853.5907**	**0.0547**	**0.0523**	**2,870.9572**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	34.9977	0.9713	84.2820	4.4600e-003		1.7051	1.7051		1.6920	1.6920	0.0000	19,676.8234	19,676.8234	0.5190	0.3580	19,798.6885
Unmitigated	34.9977	0.9713	84.2820	4.4600e-003		1.7051	1.7051		1.6920	1.6920	0.0000	19,676.8234	19,676.8234	0.5190	0.3580	19,798.6885

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	8.7773					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	21.9136					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.7898	8.0000e-005	0.0976	0.0000		1.2366	1.2366		1.2236	1.2236	0.0000	19,524.7059	19,524.7059	0.3742	0.3580	19,643.5300
Landscaping	2.5171	0.9712	84.1844	4.4600e-003		0.4685	0.4685		0.4685	0.4685		152.1176	152.1176	0.1448		155.1585
Total	**34.9977**	**0.9713**	**84.2820**	**4.4600e-003**		**1.7051**	**1.7051**		**1.6920**	**1.6920**	**0.0000**	**19,676.8234**	**19,676.8234**	**0.5190**	**0.3580**	**19,798.6885**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Consumer Products	21.9136					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.7898	8.0000e-005	0.0976	0.0000		1.2366	1.2366		1.2236	1.2236	0.0000	19,524.7059	19,524.7059	0.3742	0.3580	19,643.5300
Landscaping	2.5171	0.9712	84.1844	4.4600e-003		0.4685	0.4685		0.4685	0.4685		152.1176	152.1176	0.1448		155.1585
Architectural Coating	8.7773					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**34.9977**	**0.9713**	**84.2820**	**4.4600e-003**		**1.7051**	**1.7051**		**1.6920**	**1.6920**	**0.0000**	**19,676.8234**	**19,676.8234**	**0.5190**	**0.3580**	**19,798.6885**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Vegetation

ATTACHMENT 2

CalEEMod Output – St. Paul's and Park and University

6086 Uptown - 2035 - St. Paul's Proposed Density 304 Units

San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	304.00	Dwelling Unit	19.00	304,000.00	869

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	539.36	**CH4 Intensity (lb/MWhr)**	0.022	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Project Characteristics - X

Land Use - 304 units on 2.79 acres

Construction Phase - Arch coatings simultaneous with last half of building construction

Demolition -

Architectural Coating - SDAPCD Rule 67.0.1

Woodstoves - No woodstoves, no woodburning fireplaces

Area Coating - SDAPCD Rule 67.0.1

Energy Use - Default

Mobile Land Use Mitigation -

Area Mitigation - SDAPCD Rule 67.0.1

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblAreaCoating	Area_EF_Residential_Exterior	250	150
tblAreaCoating	Area_EF_Residential_Interior	250	100
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	250
tblConstructionPhase	NumDays	20.00	150.00
tblConstructionPhase	PhaseEndDate	12/13/2019	5/17/2019
tblConstructionPhase	PhaseStartDate	5/18/2019	10/22/2018
tblFireplaces	NumberGas	167.20	274.00
tblFireplaces	NumberNoFireplace	30.40	30.00
tblFireplaces	NumberWood	106.40	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.022
tblProjectCharacteristics	CO2IntensityFactor	720.49	539.36
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblProjectCharacteristics	OperationalYear	2014	2035
tblWoodstoves	NumberCatalytic	15.20	0.00
tblWoodstoves	NumberNoncatalytic	15.20	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	32.6336	59.6101	43.0133	0.0637	18.2141	2.7892	20.5806	9.9699	2.5661	12.1471	0.0000	6,363.7433	6,363.7433	1.9416	0.0000	6,404.5174
2019	32.2042	26.0088	31.6519	0.0630	2.3728	1.4638	3.8367	0.6336	1.3832	2.0168	0.0000	5,494.6292	5,494.6292	0.7498	0.0000	5,510.3752
Total	**64.8378**	**85.6189**	**74.6652**	**0.1267**	**20.5870**	**4.2530**	**24.4172**	**10.6035**	**3.9492**	**14.1638**	**0.0000**	**11,858.3725**	**11,858.3725**	**2.6914**	**0.0000**	**11,914.8926**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	32.6336	59.6101	43.0133	0.0637	18.2141	2.7892	20.5806	9.9699	2.5661	12.1471	0.0000	6,363.7433	6,363.7433	1.9416	0.0000	6,404.5174
2019	32.2042	26.0088	31.6519	0.0630	2.3728	1.4638	3.8367	0.6336	1.3832	2.0168	0.0000	5,494.6292	5,494.6292	0.7498	0.0000	5,510.3752
Total	**64.8378**	**85.6189**	**74.6652**	**0.1267**	**20.5870**	**4.2530**	**24.4172**	**10.6035**	**3.9492**	**14.1638**	**0.0000**	**11,858.3725**	**11,858.3725**	**2.6914**	**0.0000**	**11,914.8926**

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	8.9573	0.2884	25.0212	1.3200e-003		0.5066	0.5066		0.5027	0.5027	0.0000	5,847.5128	5,847.5128	0.1542	0.1064	5,883.7278
Energy	0.0969	0.8277	0.3522	5.2800e-003		0.0669	0.0669		0.0669	0.0669		1,056.6168	1,056.6168	0.0203	0.0194	1,063.0472
Mobile	4.7501	8.3471	47.2805	0.1859	13.1487	0.2062	13.3549	3.5093	0.1904	3.6997		12,956.6403	12,956.6403	0.3903		12,964.8362
Total	**13.8043**	**9.4631**	**72.6539**	**0.1925**	**13.1487**	**0.7797**	**13.9284**	**3.5093**	**0.7601**	**4.2694**	**0.0000**	**19,860.7700**	**19,860.7700**	**0.5647**	**0.1258**	**19,911.6112**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	8.9573	0.2884	25.0212	1.3200e-003		0.5066	0.5066		0.5027	0.5027	0.0000	5,847.5128	5,847.5128	0.1542	0.1064	5,883.7278
Energy	0.0777	0.6636	0.2824	4.2400e-003		0.0537	0.0537		0.0537	0.0537		847.1597	847.1597	0.0162	0.0155	852.3154
Mobile	4.7338	8.2803	46.9667	0.1841	13.0172	0.2044	13.2216	3.4742	0.1888	3.6630		12,830.7015	12,830.7015	0.3867		12,838.8219
Total	**13.7688**	**9.2322**	**72.2703**	**0.1897**	**13.0172**	**0.7646**	**13.7818**	**3.4742**	**0.7451**	**4.2193**	**0.0000**	**19,525.3741**	**19,525.3741**	**0.5571**	**0.1219**	**19,574.8651**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.26**	**2.44**	**0.53**	**1.48**	**1.00**	**1.93**	**1.05**	**1.00**	**1.97**	**1.17**	**0.00**	**1.69**	**1.69**	**1.35**	**3.05**	**1.69**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2018	1/26/2018	5	20	
2	Site Preparation	Site Preparation	1/27/2018	2/9/2018	5	10	
3	Grading	Grading	2/10/2018	3/23/2018	5	30	
4	Building Construction	Building Construction	3/24/2018	5/17/2019	5	300	
5	Architectural Coating	Architectural Coating	10/22/2018	5/17/2019	5	150	
6	Paving	Paving	5/18/2019	6/14/2019	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 615,600; Residential Outdoor: 205,200; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	2	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
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	227.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	219.00	32.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	44.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.4916	0.0000	2.4916	0.3773	0.0000	0.3773			0.0000			0.0000
Off-Road	3.5606	36.8310	31.7250	0.0399		1.8090	1.8090		1.6856	1.6856		3,983.3282	3,983.3282	1.1015		4,006.4585
Total	**3.5606**	**36.8310**	**31.7250**	**0.0399**	**2.4916**	**1.8090**	**4.3005**	**0.3773**	**1.6856**	**2.0629**		**3,983.3282**	**3,983.3282**	**1.1015**		**4,006.4585**

3.2 Demolition - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2233	2.6419	2.7403	8.4500e-003	0.1978	0.0378	0.2356	0.0542	0.0348	0.0889		824.5050	824.5050	5.9100e-003		824.6291
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0458	0.0573	0.5299	1.4600e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		113.2044	113.2044	5.6200e-003		113.3224
Total	**0.2691**	**2.6992**	**3.2702**	**9.9100e-003**	**0.3210**	**0.0387**	**0.3597**	**0.0868**	**0.0356**	**0.1224**		**937.7093**	**937.7093**	**0.0115**		**937.9514**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.4916	0.0000	2.4916	0.3773	0.0000	0.3773			0.0000			0.0000
Off-Road	3.5606	36.8310	31.7250	0.0399		1.8090	1.8090		1.6856	1.6856	0.0000	3,983.3282	3,983.3282	1.1015		4,006.4585
Total	**3.5606**	**36.8310**	**31.7250**	**0.0399**	**2.4916**	**1.8090**	**4.3005**	**0.3773**	**1.6856**	**2.0629**	**0.0000**	**3,983.3282**	**3,983.3282**	**1.1015**		**4,006.4585**

3.2 Demolition - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2233	2.6419	2.7403	8.4500e-003	0.1978	0.0378	0.2356	0.0542	0.0348	0.0889		824.5050	824.5050	5.9100e-003		824.6291
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0458	0.0573	0.5299	1.4600e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		113.2044	113.2044	5.6200e-003		113.3224
Total	**0.2691**	**2.6992**	**3.2702**	**9.9100e-003**	**0.3210**	**0.0387**	**0.3597**	**0.0868**	**0.0356**	**0.1224**		**937.7093**	**937.7093**	**0.0115**		**937.9514**

3.3 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.2921	45.6088	36.2346	0.0391		2.3654	2.3654		2.1762	2.1762		3,939.7731	3,939.7731	1.2265		3,965.5297
Total	**4.2921**	**45.6088**	**36.2346**	**0.0391**	**18.0663**	**2.3654**	**20.4317**	**9.9307**	**2.1762**	**12.1069**		**3,939.7731**	**3,939.7731**	**1.2265**		**3,965.5297**

3.3 Site Preparation - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0549	0.0687	0.6359	1.7600e-003	0.1479	1.0500e-003	0.1489	0.0392	9.8000e-004	0.0402		135.8453	135.8453	6.7400e-003		135.9868
Total	**0.0549**	**0.0687**	**0.6359**	**1.7600e-003**	**0.1479**	**1.0500e-003**	**0.1489**	**0.0392**	**9.8000e-004**	**0.0402**		**135.8453**	**135.8453**	**6.7400e-003**		**135.9868**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.2921	45.6088	36.2346	0.0391		2.3654	2.3654		2.1762	2.1762	0.0000	3,939.7731	3,939.7731	1.2265		3,965.5297
Total	**4.2921**	**45.6088**	**36.2346**	**0.0391**	**18.0663**	**2.3654**	**20.4317**	**9.9307**	**2.1762**	**12.1069**	**0.0000**	**3,939.7731**	**3,939.7731**	**1.2265**		**3,965.5297**

3.3 Site Preparation - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0549	0.0687	0.6359	1.7600e-003	0.1479	1.0500e-003	0.1489	0.0392	9.8000e-004	0.0402		135.8453	135.8453	6.7400e-003		135.9868
Total	**0.0549**	**0.0687**	**0.6359**	**1.7600e-003**	**0.1479**	**1.0500e-003**	**0.1489**	**0.0392**	**9.8000e-004**	**0.0402**		**135.8453**	**135.8453**	**6.7400e-003**		**135.9868**

3.4 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	5.2895	59.5338	42.3068	0.0617		2.7880	2.7880		2.5650	2.5650		6,212.8042	6,212.8042	1.9341		6,253.4209
Total	**5.2895**	**59.5338**	**42.3068**	**0.0617**	**8.6733**	**2.7880**	**11.4614**	**3.5965**	**2.5650**	**6.1615**		**6,212.8042**	**6,212.8042**	**1.9341**		**6,253.4209**

3.4 Grading - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0610	0.0763	0.7065	1.9500e-003	0.1643	1.1700e-003	0.1655	0.0436	1.0800e-003	0.0447		150.9392	150.9392	7.4900e-003		151.0965
Total	**0.0610**	**0.0763**	**0.7065**	**1.9500e-003**	**0.1643**	**1.1700e-003**	**0.1655**	**0.0436**	**1.0800e-003**	**0.0447**		**150.9392**	**150.9392**	**7.4900e-003**		**151.0965**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	5.2895	59.5338	42.3068	0.0617		2.7880	2.7880		2.5650	2.5650	0.0000	6,212.8041	6,212.8041	1.9341		6,253.4209
Total	**5.2895**	**59.5338**	**42.3068**	**0.0617**	**8.6733**	**2.7880**	**11.4614**	**3.5965**	**2.5650**	**6.1615**	**0.0000**	**6,212.8041**	**6,212.8041**	**1.9341**		**6,253.4209**

3.4 Grading - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0610	0.0763	0.7065	1.9500e-003	0.1643	1.1700e-003	0.1655	0.0436	1.0800e-003	0.0447		150.9392	150.9392	7.4900e-003		151.0965
Total	**0.0610**	**0.0763**	**0.7065**	**1.9500e-003**	**0.1643**	**1.1700e-003**	**0.1655**	**0.0436**	**1.0800e-003**	**0.0447**		**150.9392**	**150.9392**	**7.4900e-003**		**151.0965**

3.5 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048		2,609.9390	2,609.9390	0.6387		2,623.3517
Total	**2.6687**	**23.2608**	**17.5327**	**0.0268**		**1.4943**	**1.4943**		**1.4048**	**1.4048**		**2,609.9390**	**2,609.9390**	**0.6387**		**2,623.3517**

3.5 Building Construction - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3308	2.5065	4.3444	7.5500e-003	0.2124	0.0373	0.2497	0.0606	0.0343	0.0949		732.0090	732.0090	5.6200e-003		732.1271
Worker	0.6681	0.8360	7.7367	0.0214	1.7990	0.0128	1.8119	0.4772	0.0119	0.4891		1,652.7840	1,652.7840	0.0820		1,654.5063
Total	**0.9990**	**3.3425**	**12.0811**	**0.0289**	**2.0114**	**0.0502**	**2.0616**	**0.5378**	**0.0462**	**0.5840**		**2,384.7930**	**2,384.7930**	**0.0876**		**2,386.6333**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048	0.0000	2,609.9389	2,609.9389	0.6387		2,623.3517
Total	**2.6687**	**23.2608**	**17.5327**	**0.0268**		**1.4943**	**1.4943**		**1.4048**	**1.4048**	**0.0000**	**2,609.9389**	**2,609.9389**	**0.6387**		**2,623.3517**

3.5 Building Construction - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3308	2.5065	4.3444	7.5500e-003	0.2124	0.0373	0.2497	0.0606	0.0343	0.0949		732.0090	732.0090	5.6200e-003		732.1271
Worker	0.6681	0.8360	7.7367	0.0214	1.7990	0.0128	1.8119	0.4772	0.0119	0.4891		1,652.7840	1,652.7840	0.0820		1,654.5063
Total	**0.9990**	**3.3425**	**12.0811**	**0.0289**	**2.0114**	**0.0502**	**2.0616**	**0.5378**	**0.0462**	**0.5840**		**2,384.7930**	**2,384.7930**	**0.0876**		**2,386.6333**

3.5 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3516	20.9650	17.1204	0.0268		1.2850	1.2850		1.2083	1.2083		2,580.7618	2,580.7618	0.6279		2,593.9479
Total	**2.3516**	**20.9650**	**17.1204**	**0.0268**		**1.2850**	**1.2850**		**1.2083**	**1.2083**		**2,580.7618**	**2,580.7618**	**0.6279**		**2,593.9479**

3.5 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3085	2.2807	4.1538	7.5400e-003	0.2124	0.0347	0.2471	0.0606	0.0319	0.0925		719.3888	719.3888	5.4900e-003		719.5040
Worker	0.6201	0.7725	7.1083	0.0214	1.7990	0.0127	1.8118	0.4772	0.0118	0.4890		1,592.9799	1,592.9799	0.0771		1,594.5999
Total	**0.9285**	**3.0532**	**11.2621**	**0.0289**	**2.0114**	**0.0474**	**2.0588**	**0.5378**	**0.0437**	**0.5815**		**2,312.3686**	**2,312.3686**	**0.0826**		**2,314.1039**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3516	20.9650	17.1204	0.0268		1.2850	1.2850		1.2083	1.2083	0.0000	2,580.7618	2,580.7618	0.6279		2,593.9479
Total	**2.3516**	**20.9650**	**17.1204**	**0.0268**		**1.2850**	**1.2850**		**1.2083**	**1.2083**	**0.0000**	**2,580.7618**	**2,580.7618**	**0.6279**		**2,593.9479**

3.5 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3085	2.2807	4.1538	7.5400e-003	0.2124	0.0347	0.2471	0.0606	0.0319	0.0925		719.3888	719.3888	5.4900e-003		719.5040
Worker	0.6201	0.7725	7.1083	0.0214	1.7990	0.0127	1.8118	0.4772	0.0118	0.4890		1,592.9799	1,592.9799	0.0771		1,594.5999
Total	**0.9285**	**3.0532**	**11.2621**	**0.0289**	**2.0114**	**0.0474**	**2.0588**	**0.5378**	**0.0437**	**0.5815**		**2,312.3686**	**2,312.3686**	**0.0826**		**2,314.1039**

3.6 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	28.5331					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.0102
Total	**28.8317**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**		**281.4485**	**281.4485**	**0.0267**		**282.0102**

3.6 Architectural Coating - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1342	0.1680	1.5544	4.3000e-003	0.3615	2.5800e-003	0.3640	0.0959	2.3900e-003	0.0983		332.0662	332.0662	0.0165		332.4122
Total	**0.1342**	**0.1680**	**1.5544**	**4.3000e-003**	**0.3615**	**2.5800e-003**	**0.3640**	**0.0959**	**2.3900e-003**	**0.0983**		**332.0662**	**332.0662**	**0.0165**		**332.4122**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	28.5331					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.0102
Total	**28.8317**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**	**0.0000**	**281.4485**	**281.4485**	**0.0267**		**282.0102**

3.6 Architectural Coating - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1342	0.1680	1.5544	4.3000e-003	0.3615	2.5800e-003	0.3640	0.0959	2.3900e-003	0.0983		332.0662	332.0662	0.0165		332.4122
Total	**0.1342**	**0.1680**	**1.5544**	**4.3000e-003**	**0.3615**	**2.5800e-003**	**0.3640**	**0.0959**	**2.3900e-003**	**0.0983**		**332.0662**	**332.0662**	**0.0165**		**332.4122**

3.6 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	28.5331					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		281.9473
Total	**28.7995**	**1.8354**	**1.8413**	**2.9700e-003**		**0.1288**	**0.1288**		**0.1288**	**0.1288**		**281.4481**	**281.4481**	**0.0238**		**281.9473**

3.6 Architectural Coating - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1246	0.1552	1.4281	4.3000e-003	0.3615	2.5600e-003	0.3640	0.0959	2.3700e-003	0.0983		320.0508	320.0508	0.0155		320.3762
Total	**0.1246**	**0.1552**	**1.4281**	**4.3000e-003**	**0.3615**	**2.5600e-003**	**0.3640**	**0.0959**	**2.3700e-003**	**0.0983**		**320.0508**	**320.0508**	**0.0155**		**320.3762**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	28.5331					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		281.9473
Total	**28.7995**	**1.8354**	**1.8413**	**2.9700e-003**		**0.1288**	**0.1288**		**0.1288**	**0.1288**	**0.0000**	**281.4481**	**281.4481**	**0.0238**		**281.9473**

3.6 Architectural Coating - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1246	0.1552	1.4281	4.3000e-003	0.3615	2.5600e-003	0.3640	0.0959	2.3700e-003	0.0983		320.0508	320.0508	0.0155		320.3762
Total	**0.1246**	**0.1552**	**1.4281**	**4.3000e-003**	**0.3615**	**2.5600e-003**	**0.3640**	**0.0959**	**2.3700e-003**	**0.0983**		**320.0508**	**320.0508**	**0.0155**		**320.3762**

3.7 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4259	14.9353	14.3652	0.0223		0.8094	0.8094		0.7447	0.7447		2,208.9731	2,208.9731	0.6989		2,223.6499
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.4259**	**14.9353**	**14.3652**	**0.0223**		**0.8094**	**0.8094**		**0.7447**	**0.7447**		**2,208.9731**	**2,208.9731**	**0.6989**		**2,223.6499**

3.7 Paving - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0425	0.0529	0.4869	1.4600e-003	0.1232	8.7000e-004	0.1241	0.0327	8.1000e-004	0.0335		109.1082	109.1082	5.2800e-003		109.2192
Total	**0.0425**	**0.0529**	**0.4869**	**1.4600e-003**	**0.1232**	**8.7000e-004**	**0.1241**	**0.0327**	**8.1000e-004**	**0.0335**		**109.1082**	**109.1082**	**5.2800e-003**		**109.2192**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4259	14.9353	14.3652	0.0223		0.8094	0.8094		0.7447	0.7447	0.0000	2,208.9731	2,208.9731	0.6989		2,223.6499
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.4259**	**14.9353**	**14.3652**	**0.0223**		**0.8094**	**0.8094**		**0.7447**	**0.7447**	**0.0000**	**2,208.9731**	**2,208.9731**	**0.6989**		**2,223.6499**

3.7 Paving - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0425	0.0529	0.4869	1.4600e-003	0.1232	8.7000e-004	0.1241	0.0327	8.1000e-004	0.0335		109.1082	109.1082	5.2800e-003		109.2192
Total	**0.0425**	**0.0529**	**0.4869**	**1.4600e-003**	**0.1232**	**8.7000e-004**	**0.1241**	**0.0327**	**8.1000e-004**	**0.0335**		**109.1082**	**109.1082**	**5.2800e-003**		**109.2192**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.7338	8.2803	46.9667	0.1841	13.0172	0.2044	13.2216	3.4742	0.1888	3.6630		12,830.7015	12,830.7015	0.3867		12,838.8219
Unmitigated	4.7501	8.3471	47.2805	0.1859	13.1487	0.2062	13.3549	3.5093	0.1904	3.6997		12,956.6403	12,956.6403	0.3903		12,964.8362

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	2,003.36	2,176.64	1845.28	5,726,401	5,669,137
Total	2,003.36	2,176.64	1,845.28	5,726,401	5,669,137

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.511887	0.074493	0.190892	0.129437	0.036275	0.005211	0.012579	0.024993	0.001957	0.001971	0.006467	0.000450	0.003389

4.4 Fleet Mix

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0777	0.6636	0.2824	4.2400e-003		0.0537	0.0537		0.0537	0.0537		847.1597	847.1597	0.0162	0.0155	852.3154
NaturalGas Unmitigated	0.0969	0.8277	0.3522	5.2800e-003		0.0669	0.0669		0.0669	0.0669		1,056.6168	1,056.6168	0.0203	0.0194	1,063.0472

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	8981.24	0.0969	0.8277	0.3522	5.2800e-003		0.0669	0.0669		0.0669	0.0669		1,056.6168	1,056.6168	0.0203	0.0194	1,063.0472
Total		**0.0969**	**0.8277**	**0.3522**	**5.2800e-003**		**0.0669**	**0.0669**		**0.0669**	**0.0669**		**1,056.6168**	**1,056.6168**	**0.0203**	**0.0194**	**1,063.0472**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	7.20086	0.0777	0.6636	0.2824	4.2400e-003		0.0537	0.0537		0.0537	0.0537		847.1597	847.1597	0.0162	0.0155	852.3154
Total		**0.0777**	**0.6636**	**0.2824**	**4.2400e-003**		**0.0537**	**0.0537**		**0.0537**	**0.0537**		**847.1597**	**847.1597**	**0.0162**	**0.0155**	**852.3154**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	8.9573	0.2884	25.0212	1.3200e-003		0.5066	0.5066		0.5027	0.5027	0.0000	5,847.5128	5,847.5128	0.1542	0.1064	5,883.7278
Unmitigated	8.9573	0.2884	25.0212	1.3200e-003		0.5066	0.5066		0.5027	0.5027	0.0000	5,847.5128	5,847.5128	0.1542	0.1064	5,883.7278

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.1726					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.5056					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.5319	2.0000e-005	0.0290	0.0000		0.3675	0.3675		0.3636	0.3636	0.0000	5,802.3529	5,802.3529	0.1112	0.1064	5,837.6651
Landscaping	0.7473	0.2883	24.9922	1.3200e-003		0.1391	0.1391		0.1391	0.1391		45.1599	45.1599	0.0430		46.0627
Total	**8.9573**	**0.2884**	**25.0212**	**1.3200e-003**		**0.5066**	**0.5066**		**0.5027**	**0.5027**	**0.0000**	**5,847.5128**	**5,847.5128**	**0.1542**	**0.1064**	**5,883.7278**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.1726					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.5056					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.5319	2.0000e-005	0.0290	0.0000		0.3675	0.3675		0.3636	0.3636	0.0000	5,802.3529	5,802.3529	0.1112	0.1064	5,837.6651
Landscaping	0.7473	0.2883	24.9922	1.3200e-003		0.1391	0.1391		0.1391	0.1391		45.1599	45.1599	0.0430		46.0627
Total	**8.9573**	**0.2884**	**25.0212**	**1.3200e-003**		**0.5066**	**0.5066**		**0.5027**	**0.5027**	**0.0000**	**5,847.5128**	**5,847.5128**	**0.1542**	**0.1064**	**5,883.7278**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Vegetation

6086 Uptown - 2035 - Park and University Proposed Density 120 Units

San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	120.00	Dwelling Unit	1.10	120,000.00	343

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	539.36	**CH4 Intensity (lb/MWhr)**	0.022	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Project Characteristics - X

Land Use - 120 units on 1.1 acres

Construction Phase - Arch coatings simultaneous with last half of building construction

Demolition -

Architectural Coating - SDAPCD Rule 67.0.1

Woodstoves - No woodstoves, no woodburning fireplaces

Area Coating - SDAPCD Rule 67.0.1

Energy Use - Default

Mobile Land Use Mitigation -

Area Mitigation - SDAPCD Rule 67.0.1

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	100
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	150
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	100
tblConstructionPhase	NumDays	10.00	100.00
tblConstructionPhase	PhaseEndDate	4/1/2019	11/12/2018
tblConstructionPhase	PhaseStartDate	11/13/2018	6/26/2018
tblFireplaces	NumberGas	66.00	108.00
tblFireplaces	NumberWood	42.00	0.00
tblLandUse	LotAcreage	7.50	1.10
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.022
tblProjectCharacteristics	CO2IntensityFactor	720.49	539.36
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblProjectCharacteristics	OperationalYear	2014	2035
tblWoodstoves	NumberCatalytic	6.00	0.00
tblWoodstoves	NumberNoncatalytic	6.00	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	20.2245	24.8772	21.5323	0.0381	5.8653	1.3857	6.9918	2.9711	1.2962	4.0075	0.0000	3,377.5775	3,377.5775	0.6248	0.0000	3,390.6992
Total	**20.2245**	**24.8772**	**21.5323**	**0.0381**	**5.8653**	**1.3857**	**6.9918**	**2.9711**	**1.2962**	**4.0075**	**0.0000**	**3,377.5775**	**3,377.5775**	**0.6248**	**0.0000**	**3,390.6992**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	20.2245	24.8772	21.5323	0.0381	5.8653	1.3857	6.9918	2.9711	1.2962	4.0075	0.0000	3,377.5775	3,377.5775	0.6248	0.0000	3,390.6992
Total	**20.2245**	**24.8772**	**21.5323**	**0.0381**	**5.8653**	**1.3857**	**6.9918**	**2.9711**	**1.2962**	**4.0075**	**0.0000**	**3,377.5775**	**3,377.5775**	**0.6248**	**0.0000**	**3,390.6992**

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.1012	0.1138	9.8768	5.2000e-004		0.1998	0.1998		0.1982	0.1982	0.0000	2,304.8851	2,304.8851	0.0608	0.0419	2,319.1601
Energy	0.0382	0.3267	0.1390	2.0900e-003		0.0264	0.0264		0.0264	0.0264		417.0856	417.0856	7.9900e-003	7.6500e-003	419.6239
Mobile	1.8750	3.2949	18.6634	0.0734	5.1903	0.0814	5.2717	1.3852	0.0752	1.4604		5,114.4633	5,114.4633	0.1541		5,117.6985
Total	**6.0145**	**3.7354**	**28.6792**	**0.0760**	**5.1903**	**0.3076**	**5.4978**	**1.3852**	**0.2998**	**1.6851**	**0.0000**	**7,836.4340**	**7,836.4340**	**0.2229**	**0.0496**	**7,856.4825**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.1012	0.1138	9.8768	5.2000e-004		0.1998	0.1998		0.1982	0.1982	0.0000	2,304.8851	2,304.8851	0.0608	0.0419	2,319.1601
Energy	0.0307	0.2620	0.1115	1.6700e-003		0.0212	0.0212		0.0212	0.0212		334.4052	334.4052	6.4100e-003	6.1300e-003	336.4403
Mobile	1.8686	3.2685	18.5395	0.0727	5.1384	0.0807	5.2191	1.3714	0.0745	1.4459		5,064.7506	5,064.7506	0.1526		5,067.9560
Total	**6.0005**	**3.6443**	**28.5277**	**0.0749**	**5.1384**	**0.3016**	**5.4400**	**1.3714**	**0.2939**	**1.6653**	**0.0000**	**7,704.0408**	**7,704.0408**	**0.2199**	**0.0481**	**7,723.5564**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.23	2.44	0.53	1.49	1.00	1.93	1.05	1.00	1.97	1.17	0.00	1.69	1.69	1.35	3.07	1.69

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2018	1/26/2018	5	20	
2	Site Preparation	Site Preparation	1/27/2018	1/30/2018	5	2	
3	Grading	Grading	1/31/2018	2/5/2018	5	4	
4	Building Construction	Building Construction	2/6/2018	11/12/2018	5	200	
5	Architectural Coating	Architectural Coating	6/26/2018	11/12/2018	5	100	
6	Paving	Paving	11/13/2018	11/26/2018	5	10	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 243,000; Residential Outdoor: 81,000; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	174	0.41
Grading	Rubber Tired Dozers	1	6.00	255	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	6.00	226	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	114.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	86.00	13.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	17.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.2458	0.0000	1.2458	0.1887	0.0000	0.1887			0.0000			0.0000
Off-Road	2.3936	23.5008	19.6968	0.0245		1.3660	1.3660		1.2780	1.2780		2,427.2156	2,427.2156	0.6170		2,440.1728
Total	**2.3936**	**23.5008**	**19.6968**	**0.0245**	**1.2458**	**1.3660**	**2.6118**	**0.1887**	**1.2780**	**1.4667**		**2,427.2156**	**2,427.2156**	**0.6170**		**2,440.1728**

3.2 Demolition - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1122	1.3268	1.3762	4.2400e-003	0.0993	0.0190	0.1183	0.0272	0.0175	0.0447		414.0686	414.0686	2.9700e-003		414.1309
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0397	0.0496	0.4593	1.2700e-003	0.1068	7.6000e-004	0.1076	0.0283	7.0000e-004	0.0290		98.1105	98.1105	4.8700e-003		98.2127
Total	**0.1518**	**1.3764**	**1.8354**	**5.5100e-003**	**0.2061**	**0.0197**	**0.2259**	**0.0555**	**0.0182**	**0.0737**		**512.1790**	**512.1790**	**7.8400e-003**		**512.3436**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.2458	0.0000	1.2458	0.1887	0.0000	0.1887			0.0000			0.0000
Off-Road	2.3936	23.5008	19.6968	0.0245		1.3660	1.3660		1.2780	1.2780	0.0000	2,427.2156	2,427.2156	0.6170		2,440.1728
Total	**2.3936**	**23.5008**	**19.6968**	**0.0245**	**1.2458**	**1.3660**	**2.6118**	**0.1887**	**1.2780**	**1.4667**	**0.0000**	**2,427.2156**	**2,427.2156**	**0.6170**		**2,440.1728**

3.2 Demolition - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1122	1.3268	1.3762	4.2400e-003	0.0993	0.0190	0.1183	0.0272	0.0175	0.0447		414.0686	414.0686	2.9700e-003		414.1309
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0397	0.0496	0.4593	1.2700e-003	0.1068	7.6000e-004	0.1076	0.0283	7.0000e-004	0.0290		98.1105	98.1105	4.8700e-003		98.2127
Total	**0.1518**	**1.3764**	**1.8354**	**5.5100e-003**	**0.2061**	**0.0197**	**0.2259**	**0.0555**	**0.0182**	**0.0737**		**512.1790**	**512.1790**	**7.8400e-003**		**512.3436**

3.3 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.7996	0.0000	5.7996	2.9537	0.0000	2.9537			0.0000			0.0000
Off-Road	2.0397	21.1744	14.8464	0.0171		1.1260	1.1260		1.0359	1.0359		1,722.7816	1,722.7816	0.5363		1,734.0444
Total	**2.0397**	**21.1744**	**14.8464**	**0.0171**	**5.7996**	**1.1260**	**6.9256**	**2.9537**	**1.0359**	**3.9896**		**1,722.7816**	**1,722.7816**	**0.5363**		**1,734.0444**

3.3 Site Preparation - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0244	0.0305	0.2826	7.8000e-004	0.0657	4.7000e-004	0.0662	0.0174	4.3000e-004	0.0179		60.3757	60.3757	3.0000e-003		60.4386
Total	**0.0244**	**0.0305**	**0.2826**	**7.8000e-004**	**0.0657**	**4.7000e-004**	**0.0662**	**0.0174**	**4.3000e-004**	**0.0179**		**60.3757**	**60.3757**	**3.0000e-003**		**60.4386**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.7996	0.0000	5.7996	2.9537	0.0000	2.9537			0.0000			0.0000
Off-Road	2.0397	21.1744	14.8464	0.0171		1.1260	1.1260		1.0359	1.0359	0.0000	1,722.7816	1,722.7816	0.5363		1,734.0444
Total	**2.0397**	**21.1744**	**14.8464**	**0.0171**	**5.7996**	**1.1260**	**6.9256**	**2.9537**	**1.0359**	**3.9896**	**0.0000**	**1,722.7816**	**1,722.7816**	**0.5363**		**1,734.0444**

3.3 Site Preparation - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0244	0.0305	0.2826	7.8000e-004	0.0657	4.7000e-004	0.0662	0.0174	4.3000e-004	0.0179		60.3757	60.3757	3.0000e-003		60.4386
Total	**0.0244**	**0.0305**	**0.2826**	**7.8000e-004**	**0.0657**	**4.7000e-004**	**0.0662**	**0.0174**	**4.3000e-004**	**0.0179**		**60.3757**	**60.3757**	**3.0000e-003**		**60.4386**

3.4 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9143	0.0000	4.9143	2.5256	0.0000	2.5256			0.0000			0.0000
Off-Road	1.6639	17.3061	12.2672	0.0141		0.9184	0.9184		0.8450	0.8450		1,415.2041	1,415.2041	0.4406		1,424.4561
Total	**1.6639**	**17.3061**	**12.2672**	**0.0141**	**4.9143**	**0.9184**	**5.8327**	**2.5256**	**0.8450**	**3.3706**		**1,415.2041**	**1,415.2041**	**0.4406**		**1,424.4561**

3.4 Grading - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0244	0.0305	0.2826	7.8000e-004	0.0657	4.7000e-004	0.0662	0.0174	4.3000e-004	0.0179		60.3757	60.3757	3.0000e-003		60.4386
Total	**0.0244**	**0.0305**	**0.2826**	**7.8000e-004**	**0.0657**	**4.7000e-004**	**0.0662**	**0.0174**	**4.3000e-004**	**0.0179**		**60.3757**	**60.3757**	**3.0000e-003**		**60.4386**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9143	0.0000	4.9143	2.5256	0.0000	2.5256			0.0000			0.0000
Off-Road	1.6639	17.3061	12.2672	0.0141		0.9184	0.9184		0.8450	0.8450	0.0000	1,415.2041	1,415.2041	0.4406		1,424.4561
Total	**1.6639**	**17.3061**	**12.2672**	**0.0141**	**4.9143**	**0.9184**	**5.8327**	**2.5256**	**0.8450**	**3.3706**	**0.0000**	**1,415.2041**	**1,415.2041**	**0.4406**		**1,424.4561**

3.4 Grading - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0244	0.0305	0.2826	7.8000e-004	0.0657	4.7000e-004	0.0662	0.0174	4.3000e-004	0.0179		60.3757	60.3757	3.0000e-003		60.4386
Total	**0.0244**	**0.0305**	**0.2826**	**7.8000e-004**	**0.0657**	**4.7000e-004**	**0.0662**	**0.0174**	**4.3000e-004**	**0.0179**		**60.3757**	**60.3757**	**3.0000e-003**		**60.4386**

3.5 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.5826	17.3173	13.8357	0.0220		1.0532	1.0532		1.0172	1.0172		2,021.4136	2,021.4136	0.4059		2,029.9373
Total	**2.5826**	**17.3173**	**13.8357**	**0.0220**		**1.0532**	**1.0532**		**1.0172**	**1.0172**		**2,021.4136**	**2,021.4136**	**0.4059**		**2,029.9373**

3.5 Building Construction - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1344	1.0183	1.7649	3.0700e-003	0.0863	0.0152	0.1015	0.0246	0.0140	0.0386		297.3787	297.3787	2.2800e-003		297.4266
Worker	0.2624	0.3283	3.0381	8.4000e-003	0.7065	5.0400e-003	0.7115	0.1874	4.6600e-003	0.1921		649.0385	649.0385	0.0322		649.7148
Total	**0.3968**	**1.3466**	**4.8031**	**0.0115**	**0.7928**	**0.0202**	**0.8130**	**0.2120**	**0.0186**	**0.2306**		**946.4171**	**946.4171**	**0.0345**		**947.1414**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.5826	17.3173	13.8357	0.0220		1.0532	1.0532		1.0172	1.0172	0.0000	2,021.4136	2,021.4136	0.4059		2,029.9373
Total	**2.5826**	**17.3173**	**13.8357**	**0.0220**		**1.0532**	**1.0532**		**1.0172**	**1.0172**	**0.0000**	**2,021.4136**	**2,021.4136**	**0.4059**		**2,029.9373**

3.5 Building Construction - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1344	1.0183	1.7649	3.0700e-003	0.0863	0.0152	0.1015	0.0246	0.0140	0.0386		297.3787	297.3787	2.2800e-003		297.4266
Worker	0.2624	0.3283	3.0381	8.4000e-003	0.7065	5.0400e-003	0.7115	0.1874	4.6600e-003	0.1921		649.0385	649.0385	0.0322		649.7148
Total	**0.3968**	**1.3466**	**4.8031**	**0.0115**	**0.7928**	**0.0202**	**0.8130**	**0.2120**	**0.0186**	**0.2306**		**946.4171**	**946.4171**	**0.0345**		**947.1414**

3.6 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	16.8946					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.0102
Total	**17.1932**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**		**281.4485**	**281.4485**	**0.0267**		**282.0102**

3.6 Architectural Coating - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0519	0.0649	0.6006	1.6600e-003	0.1397	1.0000e-003	0.1407	0.0370	9.2000e-004	0.0380		128.2983	128.2983	6.3700e-003		128.4320
Total	**0.0519**	**0.0649**	**0.6006**	**1.6600e-003**	**0.1397**	**1.0000e-003**	**0.1407**	**0.0370**	**9.2000e-004**	**0.0380**		**128.2983**	**128.2983**	**6.3700e-003**		**128.4320**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	16.8946					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.0102
Total	**17.1932**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**	**0.0000**	**281.4485**	**281.4485**	**0.0267**		**282.0102**

3.6 Architectural Coating - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0519	0.0649	0.6006	1.6600e-003	0.1397	1.0000e-003	0.1407	0.0370	9.2000e-004	0.0380		128.2983	128.2983	6.3700e-003		128.4320
Total	**0.0519**	**0.0649**	**0.6006**	**1.6600e-003**	**0.1397**	**1.0000e-003**	**0.1407**	**0.0370**	**9.2000e-004**	**0.0380**		**128.2983**	**128.2983**	**6.3700e-003**		**128.4320**

3.7 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0052	10.3081	8.8698	0.0133		0.6027	0.6027		0.5553	0.5553		1,326.5758	1,326.5758	0.4051		1,335.0833
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0052**	**10.3081**	**8.8698**	**0.0133**		**0.6027**	**0.6027**		**0.5553**	**0.5553**		**1,326.5758**	**1,326.5758**	**0.4051**		**1,335.0833**

3.7 Paving - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0397	0.0496	0.4593	1.2700e-003	0.1068	7.6000e-004	0.1076	0.0283	7.0000e-004	0.0290		98.1105	98.1105	4.8700e-003		98.2127
Total	**0.0397**	**0.0496**	**0.4593**	**1.2700e-003**	**0.1068**	**7.6000e-004**	**0.1076**	**0.0283**	**7.0000e-004**	**0.0290**		**98.1105**	**98.1105**	**4.8700e-003**		**98.2127**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0052	10.3081	8.8698	0.0133		0.6027	0.6027		0.5553	0.5553	0.0000	1,326.5758	1,326.5758	0.4051		1,335.0833
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0052**	**10.3081**	**8.8698**	**0.0133**		**0.6027**	**0.6027**		**0.5553**	**0.5553**	**0.0000**	**1,326.5758**	**1,326.5758**	**0.4051**		**1,335.0833**

3.7 Paving - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0397	0.0496	0.4593	1.2700e-003	0.1068	7.6000e-004	0.1076	0.0283	7.0000e-004	0.0290		98.1105	98.1105	4.8700e-003		98.2127
Total	**0.0397**	**0.0496**	**0.4593**	**1.2700e-003**	**0.1068**	**7.6000e-004**	**0.1076**	**0.0283**	**7.0000e-004**	**0.0290**		**98.1105**	**98.1105**	**4.8700e-003**		**98.2127**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.8686	3.2685	18.5395	0.0727	5.1384	0.0807	5.2191	1.3714	0.0745	1.4459		5,064.7506	5,064.7506	0.1526		5,067.9560
Unmitigated	1.8750	3.2949	18.6634	0.0734	5.1903	0.0814	5.2717	1.3852	0.0752	1.4604		5,114.4633	5,114.4633	0.1541		5,117.6985

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	790.80	859.20	728.40	2,260,421	2,237,817
Total	790.80	859.20	728.40	2,260,421	2,237,817

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.511887	0.074493	0.190892	0.129437	0.036275	0.005211	0.012579	0.024993	0.001957	0.001971	0.006467	0.000450	0.003389

4.4 Fleet Mix

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0307	0.2620	0.1115	1.6700e-003		0.0212	0.0212		0.0212	0.0212		334.4052	334.4052	6.4100e-003	6.1300e-003	336.4403
NaturalGas Unmitigated	0.0382	0.3267	0.1390	2.0900e-003		0.0264	0.0264		0.0264	0.0264		417.0856	417.0856	7.9900e-003	7.6500e-003	419.6239

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	3545.23	0.0382	0.3267	0.1390	2.0900e-003		0.0264	0.0264		0.0264	0.0264		417.0856	417.0856	7.9900e-003	7.6500e-003	419.6239
Total		**0.0382**	**0.3267**	**0.1390**	**2.0900e-003**		**0.0264**	**0.0264**		**0.0264**	**0.0264**		**417.0856**	**417.0856**	**7.9900e-003**	**7.6500e-003**	**419.6239**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	2.84244	0.0307	0.2620	0.1115	1.6700e-003		0.0212	0.0212		0.0212	0.0212		334.4052	334.4052	6.4100e-003	6.1300e-003	336.4403
Total		**0.0307**	**0.2620**	**0.1115**	**1.6700e-003**		**0.0212**	**0.0212**		**0.0212**	**0.0212**		**334.4052**	**334.4052**	**6.4100e-003**	**6.1300e-003**	**336.4403**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.1012	0.1138	9.8768	5.2000e-004		0.1998	0.1998		0.1982	0.1982	0.0000	2,304.8851	2,304.8851	0.0608	0.0419	2,319.1601
Unmitigated	4.1012	0.1138	9.8768	5.2000e-004		0.1998	0.1998		0.1982	0.1982	0.0000	2,304.8851	2,304.8851	0.0608	0.0419	2,319.1601

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Consumer Products	2.5680					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.2097	1.0000e-005	0.0114	0.0000		0.1449	0.1449		0.1433	0.1433	0.0000	2,287.0588	2,287.0588	0.0438	0.0419	2,300.9775
Landscaping	0.2950	0.1138	9.8654	5.2000e-004		0.0549	0.0549		0.0549	0.0549		17.8263	17.8263	0.0170		18.1826
Architectural Coating	1.0286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**4.1012**	**0.1138**	**9.8768**	**5.2000e-004**		**0.1998**	**0.1998**		**0.1982**	**0.1982**	**0.0000**	**2,304.8851**	**2,304.8851**	**0.0608**	**0.0419**	**2,319.1601**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Consumer Products	2.5680					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.2097	1.0000e-005	0.0114	0.0000		0.1449	0.1449		0.1433	0.1433	0.0000	2,287.0588	2,287.0588	0.0438	0.0419	2,300.9775
Landscaping	0.2950	0.1138	9.8654	5.2000e-004		0.0549	0.0549		0.0549	0.0549		17.8263	17.8263	0.0170		18.1826
Architectural Coating	1.0286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**4.1012**	**0.1138**	**9.8768**	**5.2000e-004**		**0.1998**	**0.1998**		**0.1982**	**0.1982**	**0.0000**	**2,304.8851**	**2,304.8851**	**0.0608**	**0.0419**	**2,319.1601**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Vegetation