

VISTA ENVIRONMENTAL

February 2, 2018

Josh Haskins
Sagecrest Planning & Environmental
2400 E. Katella Avenue, Suite 800
Anaheim, CA 92806

Subject: City of Anaheim – Hines OC Link Apartments Project Air Quality Technical Memorandum.

Dear Mr. Haskins:

Vista Environmental has conducted an analysis to evaluate whether the Hines OC Link Apartments Project (proposed project) would cause significant air quality impacts. This assessment was conducted within the context of the California Environmental Quality Act (CEQA, California Public Resources Code Sections 21000, et seq.). The methodology follows the South Coast Air Quality Management District (SCAQMD) recommendations for quantification of emissions and evaluation of potential air quality impacts.

Project Description

The proposed project would involve the construction of up to 406 apartment units and 5,000 square feet of new retail. The apartment component of the project encompasses two (2) sites (Site 'A' and 'B') within the larger Anaheim Pacificcenter development, which is presently developed with a mix of office, retail and hotel uses. Site 'A' is located in the northwest corner of Anaheim Pacificcenter on approximately 2.5-acres and would be developed with 192 units. Site 'B' is located on the southwestern portion of Anaheim Pacificcenter on approximately 3.1-acres and would be developed with 214 units with the option of increasing to 222 units if recreational amenities are shared between both sites. Site amenities will include both active and passive open space areas including pools, spas, sitting areas and landscaped areas. The project also includes 5,000-square feet of retail uses within the existing retail center located at the northeast corner of the Anaheim Pacificcenter site and adjacent to the intersection of La Palma Avenue and Tustin Avenue.

Sensitive Receptors in Project Vicinity

The project site is located within the Anaheim Pacificcenter and the nearest sensitive receptors to the project site consist of workers and guests at the existing Extended Stay America hotel located as near as 60 feet south of the Site 'B' portion of the project site. There are also residential apartment units located as near as 100 feet west of both Site 'A' and Site 'B'. The nearest school to the project site is El Camino Real High School, located as near as 0.9 mile north of the project site.

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Air Quality Thresholds of Significance

Regional Air Quality

To estimate if the proposed project may adversely affect the air quality in the region, the SCAQMD has prepared CEQA Air Quality Handbook (SCAQMD 1993) to provide guidance to those who analyze the air quality impacts of proposed projects. The SCAQMD CEQA Handbook states that any project in the Air Basin with daily emissions that exceed any of the identified significance thresholds should be considered as having an individually and cumulatively significant air quality impact. For the purposes of this air quality impact analysis, a regional air quality impact would be considered significant if emissions exceed the SCAQMD significance thresholds identified in Table A.

Table A – SCAQMD Regional Criteria Pollutant Emission Thresholds of Significance

	Pollutant Emissions (pounds/day)					
	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Construction	75	100	550	150	150	55
Operation	55	55	550	150	150	55

Source: <http://www.aqmd.gov/ceqa/handbook/signthres.pdf>

Local Air Quality

Project-related construction and operational air emissions may have the potential to exceed the State and Federal air quality standards in the project vicinity, even though these pollutant emissions may not be significant enough to create a regional impact to the Air Basin. In order to assess local air quality impacts the SCAQMD has developed Localized Significant Thresholds (LSTs) to assess the project-related air emissions in the project vicinity. SCAQMD has also provided Final Localized Significance Threshold Methodology (LST Methodology), July 2008, which details the methodology to analyze local air emission impacts. The LST Methodology found that the primary emissions of concern are NO₂, CO, PM₁₀, and PM_{2.5}.

The LST Methodology provides Look-Up Tables with different thresholds based on the location and size of the project site and distance to the nearest sensitive receptors. The area that would be disturbed during construction of the proposed project is approximately 11.75 acres. However, because the project applicant has stated that no more than 5-acres would be disturbed in any day during construction activities associated with the proposed project, the 5-acre project site shown in the Look-Up Tables was utilized for this analysis.

The project site is located in Air Monitoring Area 17, which covers the Central Orange County. The nearest sensitive receptors are workers and guests at the nearby Extended Stay America Hotel located approximately 60 feet (18 meters) south of the Site 'B' portion of the project site. According to LST Methodology, any receptor located closer than 25 meters (82 feet) shall be based on the 25 meter thresholds. Table B below shows the NO_x, CO, PM₁₀, and PM_{2.5} for both construction and operational activities.

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Table B – SCAQMD Local Air Quality Thresholds of Significance

Activity	Allowable Emissions (pounds/day) ¹			
	NO _x	CO	PM10	PM2.5
Construction	183	1,253	13	7
Operation	183	1,253	3	2

Notes:

¹ The nearest offsite sensitive receptors are workers and guests located as near as 60 feet (17 meters) from the project site at the Extended Stay America Hotel. According to LST Methodology, any receptor located closer than 25 meters shall be based on the 25 meter thresholds.

Source: Calculated from SCAQMD’s Mass Rate Look-up Tables for five acres in Air Monitoring Area 17, Central Orange County.

Criteria Pollutant Emissions Modeling Results

The proposed project would not violate an air quality standard or contribute substantially to an existing or projected air quality violation. The following section calculates the potential air emissions associated with the construction and operations of the proposed project and compares the emissions to the SCAQMD standards.

Construction Emissions

The proposed project would consist of development of up to 406 apartment units and 5,000 square feet of new retail uses. Construction activities would include demolition of 26,000-square feet of building space and 310,000-square feet of pavement, construction of 339,222-square feet of residential apartments, a 750-parking space parking garage, 5,000-square feet of retail space, and a 364-parking space surface parking lot.

Construction-Related Regional Impacts

The CalEEMod model has been utilized to calculate the construction-related regional emissions from the proposed project. The worst-case summer or winter daily construction-related criteria pollutant emissions from the proposed project for each phase of construction activities are shown below in Table C and the CalEEMod daily printouts are attached to this Memo.

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Table C – Construction-Related Regional Criteria Pollutant Emissions

Activity	Pollutant Emissions (pounds/day)					
	VOC	NOx	CO	SO ₂	PM10	PM2.5
Demolition¹						
Onsite	3.72	38.32	22.30	0.04	3.75	2.08
Offsite	0.29	7.57	2.38	0.02	0.61	0.19
Total	4.01	45.89	24.68	0.06	4.36	2.27
Site Preparation¹						
Onsite	4.56	48.20	22.48	0.04	9.62	6.24
Offsite	0.12	0.78	0.90	0.00	0.25	0.07
Total	4.68	48.98	23.38	0.04	9.87	6.31
Grading¹						
Onsite	5.09	59.52	35.09	0.06	6.02	3.83
Offsite	0.13	0.78	0.98	0.00	0.27	0.08
Total	5.22	60.30	36.07	0.06	6.29	3.91
Building Construction						
Onsite	2.68	23.39	17.58	0.03	1.50	1.41
Offsite	2.94	15.72	22.75	0.09	6.29	0.78
Total	5.62	39.11	40.33	0.12	7.79	2.19
Paving						
Onsite	1.62	14.07	14.65	0.02	0.75	0.69
Offsite	0.07	0.04	0.49	0.00	0.17	0.05
Total	1.69	14.11	15.14	0.02	0.92	0.74
Architectural Coatings						
Onsite	28.90	1.68	1.83	0.00	0.11	0.11
Offsite	0.42	0.26	3.18	0.01	1.09	0.29
Total	29.32	1.94	5.01	0.01	1.20	0.40
Combined Building Construction, Paving, & Architectural Coatings						
	36.63	55.16	60.48	0.15	9.91	3.33
SCQAMD Thresholds						
Exceeds Threshold?	No	No	No	No	No	No

Notes:

¹ Demolition, Site Preparation, and Grading based on adherence to fugitive dust suppression requirements from SCAQMD Rule 403.

² Onsite emissions from equipment not operated on public roads.

³ Offsite emissions from vehicles operating on public roads.

Source: CalEEMod Version 2016.3.2.

Table C shows that none of the analyzed criteria pollutants would exceed the regional emissions thresholds. Therefore, a less than significant regional air quality impact would occur from construction of the proposed project.

Construction-Related Local Impacts

Construction-related air emissions may have the potential to exceed the State and Federal air quality standards in the project vicinity, even though these pollutant emissions may not be significant enough to create a regional impact to the Air Basin.

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The local air quality emissions from construction were analyzed through utilizing the methodology described in *Localized Significance Threshold Methodology* (LST Methodology), prepared by SCAQMD, revised October 2009. The LST Methodology found the primary criteria pollutant emissions of concern are NO_x, CO, PM₁₀, and PM_{2.5}. In order to determine if any of these pollutants require a detailed analysis of the local air quality impacts, each phase of construction was screened using the SCAQMD's Mass Rate LST Look-up Tables. The Look-up Tables were developed by the SCAQMD in order to readily determine if the daily onsite emissions of CO, NO_x, PM₁₀, and PM_{2.5} from the proposed project could result in a significant impact to the local air quality. Table D shows the onsite emissions from the CalEEMod model for the different construction phases and the calculated emissions thresholds that have been detailed above.

Table D – Construction-Related Local Criteria Pollutant Emissions

Phase	Pollutant Emissions (pounds/day)			
	NO _x	CO	PM ₁₀	PM _{2.5}
Demolition ¹	38.32	22.30	3.75	2.08
Site Preparation ¹	48.20	22.48	9.62	6.24
Grading ¹	59.52	35.09	6.02	3.83
Combined Building Construction, Paving, and Architectural Coatings	39.14	34.06	2.36	2.21
- <i>Building Construction</i>	23.39	17.58	1.50	1.41
- <i>Paving</i>	14.07	14.65	0.75	0.69
- <i>Architectural Coatings</i>	1.68	1.83	0.11	0.11
SCAQMD Thresholds for 25 meters (82 feet) ²	183	1,253	13	7
Exceeds Threshold?	No	No	No	No

Notes:

¹ Demolition, Site Preparation, and Grading based on adherence to fugitive dust suppression requirements from SCAQMD Rule 403.

² The nearest offsite sensitive receptors are workers and guests located as near as 60 feet (17 meters) from the project site. According to LST Methodology, any receptor located closer than 25 meters shall be based on the 25 meter thresholds.

Source: Calculated from CalEEMod and SCAQMD's Mass Rate Look-up Tables for two acres in Air Monitoring Area 17, Central Orange County.

The data provided in Table D shows that none of the analyzed criteria pollutants would exceed the local emissions thresholds for any phase of construction or the combined building construction, paving, and architectural coatings phases. In addition, construction emissions would be short-term, limited only to the period when construction activity is taking place. As such, construction related local air concentrations would be less than significant for the proposed project. Additionally, construction activities would be required to follow SCAQMD regulations that limit fugitive dust emissions, including SCAQMD Rules 401 and 403. These rules require that contractors working on the proposed project to implement measures to reduce fugitive dust emissions that include the following:

- Limit speed of vehicles on dirt areas of the project site to 15 miles per hour or less.
- Apply water and/or other dust suppressants as necessary to prevent or alleviate erosion by the forces of wind.
- Limit all stockpiles that can be blown by wind to 8 feet in height or apply a soil stabilizer.
- Cover all trucks hauling soil or other loose material.
- Sweep daily all paved access roads and any trackout onto public road with water sweepers.
- When winds exceed 25 mph, cease all grading operations other than dust suppression activities.

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Operational Emissions

The on-going operation of the proposed project would result in a long-term increase in air quality emissions. This increase would be due to emissions from the project-generated vehicle trips and through operational emissions from the on-going use of the proposed project. The following provides an analysis of the potential long-term air quality impacts due to regional air quality and local air quality impacts with the on-going operations of the proposed project.

Operations-Related Criteria Pollutant Analysis

The operations-related criteria air quality impacts created by the proposed project have been analyzed through use of the CalEEMod model. The worst-case summer or winter VOC, NO_x, CO, SO₂, PM₁₀, and PM_{2.5} daily emissions created from the proposed project's long-term operations have been calculated and are summarized below in Table E and the CalEEMod daily emissions printouts are attached to this Memo.

Table E – Operational Regional Criteria Pollutant Emissions

Activity	Pollutant Emissions (pounds/day)					
	VOC	NO_x	CO	SO₂	PM₁₀	PM_{2.5}
Area Sources ¹	8.63	0.39	33.89	0.00	0.19	0.19
Energy Usage ²	0.14	1.18	0.50	0.01	0.10	0.10
Mobile Sources ³	4.29	17.61	57.94	0.23	20.77	5.66
Total Emissions	13.06	19.18	92.33	0.24	21.06	5.95
SCQAMD Operational Thresholds	55	55	550	150	150	55
Exceeds Threshold?	No	No	No	No	No	No

Notes:

¹ Area sources consist of emissions from consumer products, architectural coatings, and landscaping equipment.

² Energy usage consist of emissions from natural gas usage (excluding hearths).

³ Mobile sources consist of emissions from vehicles and road dust.

Source: Calculated from CalEEMod Version 2016.3.2.

The data provided in Table E above shows that none of the analyzed criteria pollutants would exceed the regional emissions thresholds. Therefore, a less than significant regional air quality impact would occur from operation of the proposed project.

Operations-Related Local Air Quality Impacts

Project-related air emissions from onsite sources such as architectural coatings, landscaping equipment, and onsite usage of natural gas appliances may have the potential to create emissions areas that exceed the State and Federal air quality standards in the project vicinity, even though these pollutant emissions may not be significant enough to create a regional impact to the Air Basin.

The local air quality emissions from onsite operations were analyzed using the SCAQMD's Mass Rate LST Look-up Tables and the methodology described in LST Methodology. The Look-up Tables were developed by the SCAQMD in order to readily determine if the daily emissions of CO, NO_x, PM₁₀, and PM_{2.5} from the proposed project could result in a significant impact to the local air quality. Table F shows the on-site emissions from the CalEEMod model that includes area sources, energy usage, and vehicles operating in the immediate vicinity of the project site and the calculated emissions thresholds.

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Table F – Operations-Related Local Criteria Pollutant Emissions

Onsite Emission Source	Pollutant Emissions (pounds/day)			
	NOx	CO	PM10	PM2.5
Area Sources	0.39	33.89	0.19	0.19
Energy Usage	1.18	0.50	0.10	0.10
Onsite Vehicle Emissions ¹	2.20	7.24	2.60	0.71
Total Emissions	3.77	41.63	2.89	1.00
SCAQMD Thresholds for 25 meters (82 feet)²	183	1,253	3	2
Exceeds Threshold?	No	No	No	No

Notes:

¹ Onsite vehicle emissions based on 1/8 of the gross vehicular emissions, which is the estimated portion of vehicle emissions occurring within a quarter mile of the project site.

² The nearest offsite sensitive receptors are workers and guests located as near as 60 feet (17 meters) from the project site. According to LST Methodology, any receptor located closer than 25 meters shall be based on the 25 meter thresholds.

Source: Calculated from CalEEMod and SCAQMD's Mass Rate Look-up Tables for five acres in Air Monitoring Area 17, Central Orange County.

The data provided in Table F shows that the on-going operations of the proposed project would not exceed the local NOx, CO, PM10 and PM2.5 thresholds of significance discussed above. Therefore, the on-going operations of the proposed project would create a less than significant operations-related impact to local air quality due to on-site emissions and no mitigation would be required.

Please let me know if you have any questions or need additional information with regard to the above analysis. I can be reached at (949) 510-5355, or email me at greg@vistalb.com.

Sincerely,



Greg Tonkovich, AICP
Senior Analyst
Vista Environmental

Encl.: CalEEMod Printouts

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Anaheim OC Link Apartments - Orange County, Summer

Anaheim OC Link Apartments Orange County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	409.00	Dwelling Unit	3.20	339,222.00	1170
Enclosed Parking with Elevator	750.00	Space	2.00	300,000.00	0
Strip Mall	5.00	1000sqft	2.54	5,000.00	0
Parking Lot	364.00	Space	4.01	145,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2022

Utility Company Southern California Edison

CO2 Intensity (lb/MW/hr)	702.44	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Anaheim OC Link Apartments - Orange County, Summer

Project Characteristics - Opening Year 2022

Land Use - 409 Mid Rise Apartment units; 750-space Enclosed Parking with Elevator; 5 TSF Strip Mall; 364-space Surface Parking Lot.

Construction Phase - 40 days Demo, 10 days Site Prep, 60 days Grading, 400 days Construction, 40 days Paving, 80 days Painting.

Grading -

Demolition - 1,196 tons of building material + 7,492 tons of paving debris = 8,687.67 tons of demo debris

Trips and VMT - To account for water trucks, 6 vendor trips added to Demo, Site Prep, and Grading.

Woodstoves - Per project design, no hearths or fireplaces will be installed in the proposed apartments.

Energy Use -

Construction Off-road Equipment Mitigation - Per SCAQMD Rule 403 minimum requirements, water exposure 3x per day selected.

Area Mitigation - Per project design, no hearths will be installed in the proposed residential apartments.

Table Name	Column Name	Default Value	New Value
tbiConstructionPhase	NumDays	20.00	80.00
tbiConstructionPhase	NumDays	300.00	400.00
tbiConstructionPhase	NumDays	20.00	40.00
tbiConstructionPhase	NumDays	30.00	60.00
tbiConstructionPhase	NumDays	20.00	40.00
tbiConstructionPhase	PhaseEndDate	1/10/2020	11/29/2020
tbiConstructionPhase	PhaseEndDate	11/15/2019	6/14/2020
tbiConstructionPhase	PhaseEndDate	7/27/2018	8/26/2018
tbiConstructionPhase	PhaseEndDate	9/21/2018	11/30/2018
tbiConstructionPhase	PhaseEndDate	12/13/2019	8/9/2020
tbiConstructionPhase	PhaseEndDate	8/10/2018	9/7/2018
tbiConstructionPhase	PhaseStartDate	12/14/2019	8/10/2020
tbiConstructionPhase	PhaseStartDate	9/22/2018	12/1/2018
tbiConstructionPhase	PhaseStartDate	8/11/2018	9/8/2018
tbiConstructionPhase	PhaseStartDate	11/16/2019	6/15/2020

Anaheim OC Link Apartments - Orange County, Summer

tblConstructionPhase	PhaseStartDate	7/28/2018	8/27/2018
tblFireplaces	NumberGas	347.65	0.00
tblFireplaces	NumberNoFireplace	40.90	409.00
tblFireplaces	NumberWood	20.45	0.00
tblLandUse	LandUseSquareFeet	409,000.00	339,222.00
tblLandUse	LotAcreage	10.76	3.20
tblLandUse	LotAcreage	6.75	2.00
tblLandUse	LotAcreage	0.11	2.54
tblLandUse	LotAcreage	3.28	4.01
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblWoodstoves	NumberCatalytic	20.45	0.00
tblWoodstoves	NumberNoncatalytic	20.45	0.00

2.0 Emissions Summary

Anaheim OC Link Apartments - Orange County, Summer

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

Year	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
2018	5.3200	60.2984	40.3297	0.1128	18.3058	2.6405	20.8893	9.9951	2.4295	12.3721	0.0000	11,444.7529	11,444.7529	1.9644	0.0000	11,471.5273
2019	4.7942	35.7746	37.9342	0.1111	6.1528	1.4164	7.5692	1.6488	1.3325	2.9812	0.0000	11,251.8704	11,251.8704	1.0370	0.0000	11,277.7949
2020	29.2758	32.6484	35.9030	0.1091	6.1527	1.2169	7.3696	1.6488	1.1446	2.7933	0.0000	11,017.2951	11,017.2951	1.0016	0.0000	11,042.3359
Maximum	29.2758	60.2984	40.3297	0.1128	18.3058	2.6405	20.8893	9.9951	2.4295	12.3721	0.0000	11,444.7529	11,444.7529	1.9644	0.0000	11,471.5273

Mitigated Construction

Year	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
2018	5.3200	60.2984	40.3297	0.1128	7.2854	2.6405	9.8689	3.9374	2.4295	6.3144	0.0000	11,444.7529	11,444.7529	1.9644	0.0000	11,471.5273
2019	4.7942	35.7746	37.9342	0.1111	6.1528	1.4164	7.5692	1.6488	1.3325	2.9812	0.0000	11,251.8704	11,251.8704	1.0370	0.0000	11,277.7949
2020	29.2758	32.6484	35.9030	0.1091	6.1527	1.2169	7.3696	1.6488	1.1446	2.7933	0.0000	11,017.2951	11,017.2951	1.0016	0.0000	11,042.3359
Maximum	29.2758	60.2984	40.3297	0.1128	7.2854	2.6405	9.8689	3.9374	2.4295	6.3144	0.0000	11,444.7529	11,444.7529	1.9644	0.0000	11,471.5273

Anaheim OC Link Apartments - Orange County, Summer

**2.2 Overall Operational
Unmitigated Operational**

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Area	8.6325	0.3906	33.8938	1.7900e-003	0.1871	0.1871	0.1871	0.1871	0.1871	0.1871	0.0000	61.0028	61.0028	0.0593	0.0000	62.4844
Energy	0.1384	1.1828	0.5044	7.5500e-003	0.0956	0.0956	0.0956	0.0956	0.0956	0.0956	0.0289	1,509.6958	1,509.6958	0.0277	0.0277	1,518.6671
Mobile	4.2905	17.1249	57.9381	0.2260	20.6101	0.1609	20.7709	5.5114	0.1496	5.6610	0.9120	22,960.8194	22,960.8194	0.9120	0.9120	22,983.6203
Total	13.0615	18.6983	92.3363	0.2354	20.6101	0.4435	21.0536	5.5114	0.4323	5.9437	0.0000	24,531.5180	24,531.5180	1.0002	0.0277	24,564.7719

Mitigated Operational

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Area	8.6325	0.3906	33.8938	1.7900e-003	0.1871	0.1871	0.1871	0.1871	0.1871	0.1871	0.0000	61.0028	61.0028	0.0593	0.0000	62.4844
Energy	0.1384	1.1828	0.5044	7.5500e-003	0.0956	0.0956	0.0956	0.0956	0.0956	0.0956	0.0289	1,509.6958	1,509.6958	0.0277	0.0277	1,518.6671
Mobile	4.2905	17.1249	57.9381	0.2260	20.6101	0.1609	20.7709	5.5114	0.1496	5.6610	0.9120	22,960.8194	22,960.8194	0.9120	0.9120	22,983.6203
Total	13.0615	18.6983	92.3363	0.2354	20.6101	0.4435	21.0536	5.5114	0.4323	5.9437	0.0000	24,531.5180	24,531.5180	1.0002	0.0277	24,564.7719

Anaheim OC Link Apartments - Orange County, Summer

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2018	8/26/2018	5	40	
2	Site Preparation	Site Preparation	8/27/2018	9/7/2018	5	10	
3	Grading	Grading	9/8/2018	11/30/2018	5	60	
4	Building Construction	Building Construction	12/1/2018	6/14/2020	5	400	
5	Paving	Paving	6/15/2020	8/9/2020	5	40	
6	Architectural Coating	Architectural Coating	8/10/2020	11/29/2020	5	80	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 150

Acres of Paving: 6.01

Residential Indoor: 686,925; Residential Outdoor: 228,975; Non-Residential Indoor: 7,500; Non-Residential Outdoor: 2,500; Striped Parking Area: 26,736 (Architectural Coating – sqft)

OffRoad Equipment

Anaheim OC Link Apartments - Orange County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	3	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Anaheim OC Link Apartments - Orange County, Summer

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	6.00	859.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	483.00	118.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	97.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2018

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					4.6477	0.0000	4.6477	0.7037	0.0000	0.7037			0.0000			0.0000
Off-Road	3.7190	38.3225	22.3040	0.0388	1.9386	1.9386	1.9386	1.8048	1.8048	1.8048		3,871.7665	3,871.7665	1.0667		3,898.4344
Total	3.7190	38.3225	22.3040	0.0388	4.6477	1.9386	6.5862	0.7037	1.8048	2.5085		3,871.7665	3,871.7665	1.0667		3,898.4344

Anaheim OC Link Apartments - Orange County, Summer

3.2 Demolition - 2018

Unmitigated Construction Off-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Hauling	0.1853	6.7088	1.5266	0.0169	0.3740	0.0267	0.4006	0.1024	0.0255	0.1279		1,869.0696	1,869.0696	0.1953			1,873.9512
Vendor	0.0243	0.7158	0.1920	1.5200e-003	0.0383	5.3000e-003	0.0436	0.0110	5.0700e-003	0.0161		164.5970	164.5970	0.0143			164.9541
Worker	0.0672	0.0457	0.5892	1.7400e-003	0.1677	1.1100e-003	0.1688	0.0445	1.0200e-003	0.0455		173.5014	173.5014	4.5900e-003			173.6162
Total	0.2767	7.4703	2.3078	0.0201	0.5800	0.0331	0.6130	0.1579	0.0316	0.1895		2,207.1680	2,207.1680	0.2141			2,212.5215

Mitigated Construction On-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Fugitive Dust					1.8126	0.0000	1.8126	0.2744	0.0000	0.2744			0.0000				0.0000
Off-Road	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386	1.8048	1.8048	1.8048	0.0000	3,871.7665	3,871.7665	1.0667			3,898.4344
Total	3.7190	38.3225	22.3040	0.0388	1.8126	1.9386	3.7512	0.2744	1.8048	2.0793	0.0000	3,871.7665	3,871.7665	1.0667			3,898.4344

Anaheim OC Link Apartments - Orange County, Summer

3.2 Demolition - 2018

Mitigated Construction Off-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Hauling	0.1853	6.7088	1.5266	0.0169	0.3740	0.0267	0.4006	0.1024	0.0255	0.1279		1,869.0696	1,869.0696	0.1953			1,873.9512
Vendor	0.0243	0.7158	0.1920	1.5200e-003	0.0383	5.3000e-003	0.0436	0.0110	5.0700e-003	0.0161		164.5970	164.5970	0.0143			164.9541
Worker	0.0672	0.0457	0.5892	1.7400e-003	0.1677	1.1100e-003	0.1688	0.0445	1.0200e-003	0.0455		173.5014	173.5014	4.5900e-003			173.6162
Total	0.2767	7.4703	2.3078	0.0201	0.5800	0.0331	0.6130	0.1579	0.0316	0.1895		2,207.1680	2,207.1680	0.2141			2,212.5215

3.3 Site Preparation - 2018

Unmitigated Construction On-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000				0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380	2.5769	2.5769	2.5769	2.3708	2.3708	2.3708		3,831.6239	3,831.6239	1.1928			3,861.4448
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014		3,831.6239	3,831.6239	1.1928			3,861.4448

Anaheim OC Link Apartments - Orange County, Summer

3.3 Site Preparation - 2018
Unmitigated Construction Off-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000
Vendor	0.0243	0.7158	0.1920	1.5200e-003	0.0383	5.3000e-003	0.0436	0.0110	5.0700e-003	0.0161	164.5970	164.5970	164.5970	0.0143			164.9541
Worker	0.0806	0.0548	0.7071	2.0900e-003	0.2012	1.3300e-003	0.2025	0.0534	1.2200e-003	0.0546	208.2016	208.2016	208.2016	5.5100e-003			208.3395
Total	0.1049	0.7706	0.8991	3.6100e-003	0.2395	6.6300e-003	0.2462	0.0644	6.2900e-003	0.0707	372.7986	372.7986	372.7986	0.0198			373.2935

Mitigated Construction On-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000				0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380	2.5769	2.5769	2.5769	2.3708	2.3708	2.3708	0.0000	3,831.6239	3,831.6239	1.1928			3,861.4448
Total	4.5627	48.1988	22.4763	0.0380	7.0458	2.5769	9.6228	3.8730	2.3708	6.2437	0.0000	3,831.6239	3,831.6239	1.1928			3,861.4448

Anaheim OC Link Apartments - Orange County, Summer

3.3 Site Preparation - 2018
Mitigated Construction Off-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000
Vendor	0.0243	0.7158	0.1920	1.5200e-003	0.0383	5.3000e-003	0.0436	0.0110	5.0700e-003	0.0161	164.5970	164.5970	164.5970	0.0143			164.9541
Worker	0.0806	0.0548	0.7071	2.0900e-003	0.2012	1.3300e-003	0.2025	0.0534	1.2200e-003	0.0546	208.2016	208.2016	208.2016	5.5100e-003			208.3395
Total	0.1049	0.7706	0.8991	3.6100e-003	0.2395	6.6300e-003	0.2462	0.0644	6.2900e-003	0.0707	372.7986	372.7986	372.7986	0.0198			373.2935

3.4 Grading - 2018
Unmitigated Construction On-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000				0.0000
Off-Road	5.0901	59.5218	35.0894	0.0620	2.6337	2.6337	2.6337	2.4230	2.4230	2.4230	6,244.4284	6,244.4284	6,244.4284	1.9440			6,293.0278
Total	5.0901	59.5218	35.0894	0.0620	8.6733	2.6337	11.3071	3.5965	2.4230	6.0195	6,244.4284	6,244.4284	6,244.4284	1.9440			6,293.0278

Anaheim OC Link Apartments - Orange County, Summer

3.4 Grading - 2018

Unmitigated Construction Off-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0243	0.7158	0.1920	1.5200e-003	0.0383	5.3000e-003	0.0436	0.0110	5.0700e-003	0.0161	164.5970	164.5970	164.5970	0.0143		164.9541	
Worker	0.0896	0.0609	0.7856	2.3200e-003	0.2236	1.4800e-003	0.2250	0.0593	1.3600e-003	0.0607	231.3351	231.3351	231.3351	6.1300e-003		231.4883	
Total	0.1139	0.7766	0.9777	3.8400e-003	0.2619	6.7800e-003	0.2687	0.0703	6.4300e-003	0.0768	395.9321	395.9321	395.9321	0.0204		396.4424	

Mitigated Construction On-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000	
Off-Road	5.0901	59.5218	35.0894	0.0620	2.6337	2.6337	2.6337	2.4230	2.4230	2.4230	0.0000	6,244.4284	6,244.4284	1.9440		6,293.0278	
Total	5.0901	59.5218	35.0894	0.0620	3.3826	2.6337	6.0163	1.4026	2.4230	3.8257	0.0000	6,244.4284	6,244.4284	1.9440		6,293.0278	

Anaheim OC Link Apartments - Orange County, Summer

3.4 Grading - 2018

Mitigated Construction Off-Site

lb/day																
Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0243	0.7158	0.1920	1.5200e-003	0.0383	5.3000e-003	0.0436	0.0110	5.0700e-003	0.0161	164.5970	164.5970	164.5970	0.0143		164.9541
Worker	0.0896	0.0609	0.7856	2.3200e-003	0.2236	1.4800e-003	0.2250	0.0593	1.3600e-003	0.0607	231.3351	231.3351	231.3351	6.1300e-003		231.4883
Total	0.1139	0.7766	0.9777	3.8400e-003	0.2619	6.7800e-003	0.2687	0.0703	6.4300e-003	0.0768	395.9321	395.9321	395.9321	0.0204		396.4424

3.5 Building Construction - 2018

Unmitigated Construction On-Site

lb/day																
Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099			2,620.935	0.6421		2,636.988
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099			2,620.935	0.6421		2,636.988

Anaheim OC Link Apartments - Orange County, Summer

3.5 Building Construction - 2018

Unmitigated Construction Off-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000
Vendor	0.4780	14.0767	3.7768	0.0298	0.7540	0.1042	0.8582	0.2170	0.0996	0.3166	3,237.074 4	3,237.074 4	3,237.074 4	0.2809			3,244.097 2
Worker	2.1626	1.4702	18.9725	0.0561	5.3988	0.0357	5.4345	1.4318	0.0329	1.4646	5,586.743 4	5,586.743 4	5,586.743 4	0.1479			5,590.441 9
Total	2.6405	15.5469	22.7492	0.0859	6.1528	0.1398	6.2926	1.6488	0.1325	1.7813	8,823.817 8	8,823.817 8	8,823.817 8	0.4289			8,834.539 1

Mitigated Construction On-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.935 1	0.6421			2,636.988 3
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.935 1	0.6421			2,636.988 3

Anaheim OC Link Apartments - Orange County, Summer

3.5 Building Construction - 2018

Mitigated Construction Off-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000
Vendor	0.4780	14.0767	3.7768	0.0298	0.7540	0.1042	0.8582	0.2170	0.0996	0.3166	3,237.074 4	0.2809	3,244.097 2				3,244.097 2
Worker	2.1626	1.4702	18.9725	0.0561	5.3988	0.0357	5.4345	1.4318	0.0329	1.4646	5,586.743 4	0.1479	5,590.441 9				5,590.441 9
Total	2.6405	15.5469	22.7492	0.0859	6.1528	0.1398	6.2926	1.6488	0.1325	1.7813	8,823.817 8	0.4289	8,834.539 1				8,834.539 1

3.5 Building Construction - 2019

Unmitigated Construction On-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Off-Road	2.3612	21.0788	17.1638	0.0269	1.2899	1.2899	1.2899	1.2127	1.2127	1.2127	2,591.580 2	0.6313	2,607.363 5				2,607.363 5
Total	2.3612	21.0788	17.1638	0.0269	1.2899	1.2899	1.2899	1.2127	1.2127	1.2127	2,591.580 2	0.6313	2,607.363 5				2,607.363 5

Anaheim OC Link Apartments - Orange County, Summer

3.5 Building Construction - 2019

Unmitigated Construction Off-Site

lb/day																
Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4424	13.3906	3.5398	0.0296	0.7540	0.0905	0.8444	0.2170	0.0865	0.3035	3,221.0326	3,221.0326	0.2719	0.2719		3,227.8306
Worker	1.9906	1.3052	17.2307	0.0546	5.3988	0.0361	5.4349	1.4318	0.0332	1.4650	5,439.2576	5,439.2576	0.1337	0.1337		5,442.6008
Total	2.4330	14.6958	20.7704	0.0842	6.1528	0.1265	6.2793	1.6488	0.1198	1.7685	8,660.2903	8,660.2903	0.4057	0.4057		8,670.4314

Mitigated Construction On-Site

lb/day																
Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899	1.2127	1.2127	1.2127	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899	1.2127	1.2127	1.2127	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635

Anaheim OC Link Apartments - Orange County, Summer

3.5 Building Construction - 2019

Mitigated Construction Off-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4424	13.3906	3.5398	0.0296	0.7540	0.0905	0.8444	0.2170	0.0865	0.3035	3,221.0326	3,221.0326	3,221.0326	0.2719		3,227.8306	
Worker	1.9906	1.3052	17.2307	0.0546	5.3988	0.0361	5.4349	1.4318	0.0332	1.4650	5,439.2576	5,439.2576	5,439.2576	0.1337		5,442.6008	
Total	2.4330	14.6958	20.7704	0.0842	6.1528	0.1265	6.2793	1.6488	0.1198	1.7685	8,660.2903	8,660.2903	8,660.2903	0.4057		8,670.4314	

3.5 Building Construction - 2020

Unmitigated Construction On-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	2,553.0631	2,553.0631	2,553.0631	0.6229		2,568.6345	
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	2,553.0631	2,553.0631	2,553.0631	0.6229		2,568.6345	

Anaheim OC Link Apartments - Orange County, Summer

3.5 Building Construction - 2020
Unmitigated Construction Off-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3770	12.2930	3.2446	0.0294	0.7539	0.0641	0.8181	0.2170	0.0614	0.2783	3,199.3214	3,199.3214	3,199.3214	0.2588			3,205.7903
Worker	1.8561	1.1694	15.8099	0.0528	5.3988	0.0357	5.4345	1.4318	0.0329	1.4647	5,264.9106	5,264.9106	5,264.9106	0.1200			5,267.9111
Total	2.2331	13.4623	19.0545	0.0822	6.1527	0.0998	6.2526	1.6488	0.0942	1.7430	8,464.2320	8,464.2320	8,464.2320	0.3788			8,473.7014

Mitigated Construction On-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229			2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229			2,568.6345

Anaheim OC Link Apartments - Orange County, Summer

3.5 Building Construction - 2020
Mitigated Construction Off-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3770	12.2930	3.2446	0.0294	0.7539	0.0641	0.8181	0.2170	0.0614	0.2783	3,199.3214	3,199.3214	3,199.3214	0.2588		3,205.7903	
Worker	1.8561	1.1694	15.8099	0.0528	5.3988	0.0357	5.4345	1.4318	0.0329	1.4647	5,264.9106	5,264.9106	5,264.9106	0.1200		5,267.9111	
Total	2.2331	13.4623	19.0545	0.0822	6.1527	0.0998	6.2526	1.6488	0.0942	1.7430	8,464.2320	8,464.2320	8,464.2320	0.3788		8,473.7014	

3.6 Paving - 2020
Unmitigated Construction On-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Off-Road	1.3566	14.0656	14.6521	0.0228	0.7528	0.7528	0.7528	0.6926	0.6926	0.6926	2,207.7334	2,207.7334	2,207.7334	0.7140		2,225.5841	
Paving	0.2627				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000	
Total	1.6192	14.0656	14.6521	0.0228	0.7528	0.7528	0.7528	0.6926	0.6926	0.6926	2,207.7334	2,207.7334	2,207.7334	0.7140		2,225.5841	

Anaheim OC Link Apartments - Orange County, Summer

3.6 Paving - 2020

Unmitigated Construction Off-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0576	0.0363	0.4910	1.6400e-003	0.1677	1.1100e-003	0.1688	0.0445	1.0200e-003	0.0455	163.5065	163.5065	3.7300e-003	3.7300e-003		163.5997	163.5997
Total	0.0576	0.0363	0.4910	1.6400e-003	0.1677	1.1100e-003	0.1688	0.0445	1.0200e-003	0.0455	163.5065	163.5065	3.7300e-003	3.7300e-003		163.5997	163.5997

Mitigated Construction On-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Off-Road	1.3566	14.0656	14.6521	0.0228	0.7528	0.7528	0.7528	0.6926	0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841	2,225.5841
Paving	0.2627				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000
Total	1.6192	14.0656	14.6521	0.0228	0.7528	0.7528	0.7528	0.6926	0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841	2,225.5841

Anaheim OC Link Apartments - Orange County, Summer

3.6 Paving - 2020

Mitigated Construction Off-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0576	0.0363	0.4910	1.6400e-003	0.1677	1.1100e-003	0.1688	0.0445	1.0200e-003	0.0455	163.5065	163.5065	3.7300e-003	163.5065	163.5997	163.5997	163.5997
Total	0.0576	0.0363	0.4910	1.6400e-003	0.1677	1.1100e-003	0.1688	0.0445	1.0200e-003	0.0455	163.5065	163.5065	3.7300e-003	163.5065	163.5997	163.5997	163.5997

3.7 Architectural Coating - 2020

Unmitigated Construction On-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Archit. Coating	28.6609					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109	0.1109	0.1109	0.1109		281.4481	281.4481	0.0218		281.9928	281.9928
Total	28.9031	1.6838	1.8314	2.9700e-003		0.1109	0.1109	0.1109	0.1109	0.1109		281.4481	281.4481	0.0218		281.9928	281.9928

Anaheim OC Link Apartments - Orange County, Summer

3.7 Architectural Coating - 2020
Unmitigated Construction Off-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.3728	0.2348	3.1751	0.0106	1.0842	7.1700e-003	1.0914	0.2875	6.6000e-003	0.2941	1,057.3423	1,057.3423	0.0241	0.0241	0.0241	1,057.9449	1,057.9449
Total	0.3728	0.2348	3.1751	0.0106	1.0842	7.1700e-003	1.0914	0.2875	6.6000e-003	0.2941	1,057.3423	1,057.3423	0.0241	0.0241	0.0241	1,057.9449	1,057.9449

Mitigated Construction On-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Archit. Coating	28.6609					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109	0.1109	0.1109	0.1109	0.0000	281.4481	281.4481	0.0218	0.0218	281.9928	281.9928
Total	28.9031	1.6838	1.8314	2.9700e-003		0.1109	0.1109	0.1109	0.1109	0.1109	0.0000	281.4481	281.4481	0.0218	0.0218	281.9928	281.9928

Anaheim OC Link Apartments - Orange County, Summer

3.7 Architectural Coating - 2020

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.3728	0.2348	3.1751	0.0106	1.0842	7.1700e-003	1.0914	0.2875	6.6000e-003	0.2941	1,057.3423	1,057.3423	0.0241	0.0241		1,057.9449
Total	0.3728	0.2348	3.1751	0.0106	1.0842	7.1700e-003	1.0914	0.2875	6.6000e-003	0.2941	1,057.3423	1,057.3423	0.0241	0.0241		1,057.9449

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Anaheim OC Link Apartments - Orange County, Summer

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated	4.2905	17.1249	57.9381	0.2260	20.6101	0.1609	20.7709	5.5114	0.1496	5.6610	22,960.81	94	22,960.81	0.9120		22,983.62
Unmitigated	4.2905	17.1249	57.9381	0.2260	20.6101	0.1609	20.7709	5.5114	0.1496	5.6610	22,960.81	94	22,960.81	0.9120		22,983.62

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated		Mitigated	
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT		
Apartments Mid Rise	2,719.85	2,613.51	2396.74	9,084,498	9,084,498		
Enclosed Parking with Elevator	0.00	0.00	0.00				
Parking Lot	0.00	0.00	0.00				
Strip Mall	221.60	210.20	102.15	386,050	386,050		
Total	2,941.45	2,823.71	2,498.89	9,470,549	9,470,549		

4.3 Trip Type Information

Land Use	Miles				Trip %				Trip Purpose %			
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Anaheim OC Link Apartments - Orange County, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Enclosed Parking with Elevator	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Parking Lot	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Strip Mall	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Natural Gas Mitigated	0.1384	1.1828	0.5044	7.5500e-003		0.0956	0.0956		0.0956	0.0956		1,509.6958	1,509.6958	0.0289	0.0277	1,518.6671
Natural Gas Unmitigated	0.1384	1.1828	0.5044	7.5500e-003		0.0956	0.0956		0.0956	0.0956		1,509.6958	1,509.6958	0.0289	0.0277	1,518.6671

Anaheim OC Link Apartments - Orange County, Summer

5.2 Energy by Land Use - Natural Gas

Unmitigated

Land Use	Natural Gas Use kBTU/yr	lb/day										lb/day				CO2e	
		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4		N2O
Apartments Mid Rise	12805	0.1381	1.1801	0.5022	7.5300e-003		0.0954	0.0954	0.0954	0.0954		0.0954	0.0954	1,506.4726	0.0289	0.0276	1,515.4248
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	27.3973	3.0000e-004	2.6900e-003	2.2600e-003	2.0000e-005		2.0000e-004	2.0000e-004	2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	3.2232	6.0000e-005	6.0000e-005	3.2424
Total		0.1384	1.1828	0.5044	7.5500e-003		0.0956	0.0956	0.0956	0.0956		0.0956	0.0956	1,509.6958	0.0289	0.0277	1,518.6671

Anaheim OC Link Apartments - Orange County, Summer

5.2 Energy by Land Use - Natural Gas

Mitigated

Land Use	Natural Gas Use kBtu/yr	lb/day										lb/day					
		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Apartments Mid Rise	12.805	0.1381	1.1801	0.5022	7.5300e-003		0.0954	0.0954		0.0954		0.0954		1,506.4726	0.0289	0.0276	1,515.4248
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000		0.0000		0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000		0.0000		0.0000	0.0000	0.0000	0.0000
Strip Mall	0.0273973	3.0000e-004	2.6900e-003	2.2600e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004		2.0000e-004		3.2232	6.0000e-005	6.0000e-005	3.2424
Total		0.1384	1.1828	0.5044	7.5500e-003		0.0956	0.0956		0.0956		0.0956		1,509.6958	0.0289	0.0277	1,518.6671

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

Anaheim OC Link Apartments - Orange County, Summer

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Mitigated	8.6325	0.3906	33.8938	1.7900e-003		0.1871	0.1871	0.1871	0.1871	0.1871	0.0000	61.0028	61.0028	0.0593	0.0000	62.4844
Unmitigated	8.6325	0.3906	33.8938	1.7900e-003		0.1871	0.1871	0.1871	0.1871	0.1871	0.0000	61.0028	61.0028	0.0593	0.0000	62.4844

6.2 Area by SubCategory

Unmitigated

SubCategory	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Architectural Coating	0.6282					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.9734					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0309	0.3906	33.8938	1.7900e-003		0.1871	0.1871		0.1871	0.1871		61.0028	61.0028	0.0593		62.4844
Total	8.6325	0.3906	33.8938	1.7900e-003		0.1871	0.1871		0.1871	0.1871	0.0000	61.0028	61.0028	0.0593	0.0000	62.4844

Anaheim OC Link Apartments - Orange County, Summer

6.2 Area by SubCategory

Mitigated

SubCategory	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Architectural Coating	0.6282					0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Consumer Products	6.9734					0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0309	0.3906	33.8938	1.7900e-003		0.1871	0.1871	0.1871	0.1871	0.1871		61.0028	61.0028	0.0593		62.4844
Total	8.6325	0.3906	33.8938	1.7900e-003		0.1871	0.1871	0.1871	0.1871	0.1871	0.0000	61.0028	61.0028	0.0593	0.0000	62.4844

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Anaheim OC Link Apartments - Orange County, Summer

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Anaheim OC Link Apartments - Orange County, Winter

Anaheim OC Link Apartments Orange County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	409.00	Dwelling Unit	3.20	339,222.00	1170
Enclosed Parking with Elevator	750.00	Space	2.00	300,000.00	0
Strip Mall	5.00	1000sqft	2.54	5,000.00	0
Parking Lot	364.00	Space	4.01	145,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2022

Utility Company Southern California Edison

CO2 Intensity (lb/MW/hr)	702.44	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Anaheim OC Link Apartments - Orange County, Winter

Project Characteristics - Opening Year 2022

Land Use - 409 Mid Rise Apartment units; 750-space Enclosed Parking with Elevator; 5 TSF Strip Mall; 364-space Surface Parking Lot.
 Construction Phase - 40 days Demo, 10 days Site Prep, 60 days Grading, 400 days Construction, 40 days Paving, 80 days Painting.
 Grading -

Demolition - 1,196 tons of building material + 7,492 tons of paving debris = 8,687.67 tons of demo debris

Trips and VMT - To account for water trucks, 6 vendor trips added to Demo, Site Prep, and Grading.

Woodstoves - Per project design, no hearths or fireplaces will be installed in the proposed apartments.

Energy Use -

Construction Off-road Equipment Mitigation - Per SCAQMD Rule 403 minimum requirements, water exposure 3x per day selected.

Area Mitigation - Per project design, no hearths will be installed in the proposed residential apartments.

Table Name	Column Name	Default Value	New Value
tbiConstructionPhase	NumDays	20.00	80.00
tbiConstructionPhase	NumDays	300.00	400.00
tbiConstructionPhase	NumDays	20.00	40.00
tbiConstructionPhase	NumDays	30.00	60.00
tbiConstructionPhase	NumDays	20.00	40.00
tbiConstructionPhase	PhaseEndDate	1/10/2020	11/29/2020
tbiConstructionPhase	PhaseEndDate	11/15/2019	6/14/2020
tbiConstructionPhase	PhaseEndDate	7/27/2018	8/26/2018
tbiConstructionPhase	PhaseEndDate	9/21/2018	11/30/2018
tbiConstructionPhase	PhaseEndDate	12/13/2019	8/9/2020
tbiConstructionPhase	PhaseEndDate	8/10/2018	9/7/2018
tbiConstructionPhase	PhaseStartDate	12/14/2019	8/10/2020
tbiConstructionPhase	PhaseStartDate	9/22/2018	12/1/2018
tbiConstructionPhase	PhaseStartDate	8/11/2018	9/8/2018
tbiConstructionPhase	PhaseStartDate	11/16/2019	6/15/2020

Anaheim OC Link Apartments - Orange County, Winter

tblConstructionPhase	PhaseStartDate	7/28/2018	8/27/2018
tblFireplaces	NumberGas	347.65	0.00
tblFireplaces	NumberNoFireplace	40.90	409.00
tblFireplaces	NumberWood	20.45	0.00
tblLandUse	LandUseSquareFeet	409,000.00	339,222.00
tblLandUse	LotAcreage	10.76	3.20
tblLandUse	LotAcreage	6.75	2.00
tblLandUse	LotAcreage	0.11	2.54
tblLandUse	LotAcreage	3.28	4.01
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblWoodstoves	NumberCatalytic	20.45	0.00
tblWoodstoves	NumberNoncatalytic	20.45	0.00

2.0 Emissions Summary

Anaheim OC Link Apartments - Orange County, Winter

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

Year	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
2018	5.6146	60.3056	39.3420	0.1091	18.3058	2.6406	20.8894	9.9951	2.4296	12.3722	0.0000	11,067.8402	11,067.8402	1.9649	0.0000	11,094.819
2019	5.0682	35.9182	37.0028	0.1075	6.1528	1.4181	7.5709	1.6488	1.3341	2.9829	0.0000	10,882.2576	10,882.2576	1.0444	0.0000	10,908.3681
2020	29.3243	32.7600	35.0174	0.1056	6.1527	1.2180	7.3707	1.6488	1.1456	2.7944	0.0000	10,656.4925	10,656.4925	1.0084	0.0000	10,681.7014
Maximum	29.3243	60.3056	39.3420	0.1091	18.3058	2.6406	20.8894	9.9951	2.4296	12.3722	0.0000	11,067.8402	11,067.8402	1.9649	0.0000	11,094.8109

Mitigated Construction

Year	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
2018	5.6146	60.3056	39.3420	0.1091	7.2854	2.6406	9.8690	3.9374	2.4296	6.3145	0.0000	11,067.8402	11,067.8402	1.9649	0.0000	11,094.819
2019	5.0682	35.9182	37.0028	0.1075	6.1528	1.4181	7.5709	1.6488	1.3341	2.9829	0.0000	10,882.2576	10,882.2576	1.0444	0.0000	10,908.3681
2020	29.3243	32.7600	35.0174	0.1056	6.1527	1.2180	7.3707	1.6488	1.1456	2.7944	0.0000	10,656.4925	10,656.4925	1.0084	0.0000	10,681.7013
Maximum	29.3243	60.3056	39.3420	0.1091	7.2854	2.6406	9.8690	3.9374	2.4296	6.3145	0.0000	11,067.8402	11,067.8402	1.9649	0.0000	11,094.8109

Anaheim OC Link Apartments - Orange County, Winter

**2.2 Overall Operational
Unmitigated Operational**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Area	8.6325	0.3906	33.8938	1.7900e-003	0.1871	0.1871	0.1871	0.1871	0.1871	0.1871	0.0000	61.0028	61.0028	0.0593	0.0000	62.4844
Energy	0.1384	1.1828	0.5044	7.5500e-003	0.0956	0.0956	0.0956	0.0956	0.0956	0.0956		1,509.6958	1,509.6958	0.0289	0.0277	1,518.6671
Mobile	4.2167	17.6055	55.3174	0.2159	20.6101	0.1615	20.7716	5.5114	0.1502	5.6616		21,947.6796	21,947.6796	0.9089		21,970.4021
Total	12.9876	19.1789	89.7156	0.2253	20.6101	0.4442	21.0543	5.5114	0.4329	5.9443	0.0000	23,518.3782	23,518.3782	0.9971	0.0277	23,551.5536

Mitigated Operational

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Area	8.6325	0.3906	33.8938	1.7900e-003	0.1871	0.1871	0.1871	0.1871	0.1871	0.1871	0.0000	61.0028	61.0028	0.0593	0.0000	62.4844
Energy	0.1384	1.1828	0.5044	7.5500e-003	0.0956	0.0956	0.0956	0.0956	0.0956	0.0956		1,509.6958	1,509.6958	0.0289	0.0277	1,518.6671
Mobile	4.2167	17.6055	55.3174	0.2159	20.6101	0.1615	20.7716	5.5114	0.1502	5.6616		21,947.6796	21,947.6796	0.9089		21,970.4021
Total	12.9876	19.1789	89.7156	0.2253	20.6101	0.4442	21.0543	5.5114	0.4329	5.9443	0.0000	23,518.3782	23,518.3782	0.9971	0.0277	23,551.5536

Anaheim OC Link Apartments - Orange County, Winter

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2018	8/26/2018	5	40	
2	Site Preparation	Site Preparation	8/27/2018	9/7/2018	5	10	
3	Grading	Grading	9/8/2018	11/30/2018	5	60	
4	Building Construction	Building Construction	12/1/2018	6/14/2020	5	400	
5	Paving	Paving	6/15/2020	8/9/2020	5	40	
6	Architectural Coating	Architectural Coating	8/10/2020	11/29/2020	5	80	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 150

Acres of Paving: 6.01

Residential Indoor: 686,925; Residential Outdoor: 228,975; Non-Residential Indoor: 7,500; Non-Residential Outdoor: 2,500; Striped Parking Area: 26,736 (Architectural Coating – sqft)

OffRoad Equipment

Anaheim OC Link Apartments - Orange County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	3	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Anaheim OC Link Apartments - Orange County, Winter

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	6.00	859.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	483.00	118.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	97.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2018

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					4.6477	0.0000	4.6477	0.7037	0.0000	0.7037			0.0000			0.0000
Off-Road	3.7190	38.3225	22.3040	0.0388	1.9386	1.9386	1.9386	1.8048	1.8048	1.8048		3,871.7665	3,871.7665	1.0667		3,898.4344
Total	3.7190	38.3225	22.3040	0.0388	4.6477	1.9386	6.5862	0.7037	1.8048	2.5085		3,871.7665	3,871.7665	1.0667		3,898.4344

Anaheim OC Link Apartments - Orange County, Winter

3.2 Demolition - 2018

Unmitigated Construction Off-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.1904	6.7987	1.6224	0.0166	0.3740	0.0273	0.4013	0.1024	0.0261	0.1285		1,841.605 ₁	1,841.605 ₁	0.2005		1,846.618 ₈
Vendor	0.0254	0.7169	0.2108	1.4800e-003	0.0383	5.3900e-003	0.0437	0.0110	5.1600e-003	0.0162		160.6288	160.6288	0.0151		161.0053
Worker	0.0757	0.0502	0.5471	1.6500e-003	0.1677	1.1100e-003	0.1688	0.0445	1.0200e-003	0.0455		164.2196	164.2196	4.3700e-003		164.3288
Total	0.2914	7.5658	2.3803	0.0197	0.5800	0.0338	0.6138	0.1579	0.0323	0.1902		2,166.453₆	2,166.453₆	0.2200		2,171.952₈

Mitigated Construction On-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					1.8126	0.0000	1.8126	0.2744	0.0000	0.2744			0.0000			0.0000
Off-Road	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386	1.8048	1.8048	1.8048	0.0000	3,871.766 ₅	3,871.766 ₅	1.0667		3,898.434 ₄
Total	3.7190	38.3225	22.3040	0.0388	1.8126	1.9386	3.7512	0.2744	1.8048	2.0793	0.0000	3,871.766₅	3,871.766₅	1.0667		3,898.434₄

Anaheim OC Link Apartments - Orange County, Winter

3.2 Demolition - 2018

Mitigated Construction Off-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Hauling	0.1904	6.7987	1.6224	0.0166	0.3740	0.0273	0.4013	0.1024	0.0261	0.1285		1,841.605 ₁	1,841.605 ₁	0.2005			1,846.618 ₈
Vendor	0.0254	0.7169	0.2108	1.4800e-003	0.0383	5.3900e-003	0.0437	0.0110	5.1600e-003	0.0162		160.6288	160.6288	0.0151			161.0053
Worker	0.0757	0.0502	0.5471	1.6500e-003	0.1677	1.1100e-003	0.1688	0.0445	1.0200e-003	0.0455		164.2196	164.2196	4.3700e-003			164.3288
Total	0.2914	7.5658	2.3803	0.0197	0.5800	0.0338	0.6138	0.1579	0.0323	0.1902		2,166.453₆	2,166.453₆	0.2200			2,171.952₈

3.3 Site Preparation - 2018

Unmitigated Construction On-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000				0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769	2.3708	2.3708	2.3708		3,831.623 ₉	3,831.623 ₉	1.1928			3,861.444 ₈
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014		3,831.623₉	3,831.623₉	1.1928			3,861.444₈

Anaheim OC Link Apartments - Orange County, Winter

3.3 Site Preparation - 2018
Unmitigated Construction Off-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000
Vendor	0.0254	0.7169	0.2108	1.4800e-003	0.0383	5.3900e-003	0.0437	0.0110	5.1600e-003	0.0162	160.6288	160.6288	0.0151	161.0053			161.0053
Worker	0.0908	0.0602	0.6565	1.9800e-003	0.2012	1.3300e-003	0.2025	0.0534	1.2200e-003	0.0546	197.0635	197.0635	5.2400e-003	197.1945			197.1945
Total	0.1162	0.7771	0.8673	3.4600e-003	0.2395	6.7200e-003	0.2463	0.0644	6.3800e-003	0.0708	357.6924	357.6924	0.0203	358.1998			358.1998

Mitigated Construction On-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000				0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380	2.5769	2.5769	2.5769	2.3708	2.3708	2.3708	0.0000	3,831.6239	3,831.6239	1.1928			3,861.4448
Total	4.5627	48.1988	22.4763	0.0380	7.0458	2.5769	9.6228	3.8730	2.3708	6.2437	0.0000	3,831.6239	3,831.6239	1.1928			3,861.4448

Anaheim OC Link Apartments - Orange County, Winter

3.3 Site Preparation - 2018

Mitigated Construction Off-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0254	0.7169	0.2108	1.4800e-003	0.0383	5.3900e-003	0.0437	0.0110	5.1600e-003	0.0162	160.6288	160.6288	160.6288	0.0151		161.0053	
Worker	0.0908	0.0602	0.6565	1.9800e-003	0.2012	1.3300e-003	0.2025	0.0534	1.2200e-003	0.0546	197.0635	197.0635	197.0635	5.2400e-003		197.1945	
Total	0.1162	0.7771	0.8673	3.4600e-003	0.2395	6.7200e-003	0.2463	0.0644	6.3800e-003	0.0708	357.6924	357.6924	357.6924	0.0203		358.1998	

3.4 Grading - 2018

Unmitigated Construction On-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000	
Off-Road	5.0901	59.5218	35.0894	0.0620	2.6337	2.6337	2.6337	2.4230	2.4230	2.4230	6,244.4284	6,244.4284	6,244.4284	1.9440		6,293.0278	
Total	5.0901	59.5218	35.0894	0.0620	8.6733	2.6337	11.3071	3.5965	2.4230	6.0195	6,244.4284	6,244.4284	6,244.4284	1.9440		6,293.0278	

Anaheim OC Link Apartments - Orange County, Winter

3.4 Grading - 2018

Unmitigated Construction Off-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0254	0.7169	0.2108	1.4800e-003	0.0383	5.3900e-003	0.0437	0.0110	5.1600e-003	0.0162	160.6288	160.6288	160.6288	0.0151		161.0053	
Worker	0.1009	0.0869	0.7294	2.2000e-003	0.2236	1.4800e-003	0.2250	0.0593	1.3600e-003	0.0607	218.9595	218.9595	218.9595	5.8200e-003		219.1050	
Total	0.1262	0.7838	0.9402	3.6800e-003	0.2619	6.8700e-003	0.2688	0.0703	6.5200e-003	0.0768		379.5883	379.5883	0.0209		380.1103	

Mitigated Construction On-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000	
Off-Road	5.0901	59.5218	35.0894	0.0620	2.6337	2.6337	2.6337	2.4230	2.4230	2.4230	0.0000	6,244.4284	6,244.4284	1.9440		6,293.0278	
Total	5.0901	59.5218	35.0894	0.0620	3.3826	2.6337	6.0163	1.4026	2.4230	3.8257	0.0000	6,244.4284	6,244.4284	1.9440		6,293.0278	

Anaheim OC Link Apartments - Orange County, Winter

3.4 Grading - 2018

Mitigated Construction Off-Site

lb/day																	
Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0254	0.7169	0.2108	1.4800e-003	0.0383	5.3900e-003	0.0437	0.0110	5.1600e-003	0.0162	160.6288	160.6288	160.6288	0.0151		161.0053	
Worker	0.1009	0.0669	0.7294	2.2000e-003	0.2236	1.4800e-003	0.2250	0.0593	1.3600e-003	0.0607	218.9595	218.9595	218.9595	5.8200e-003		219.1050	
Total	0.1262	0.7838	0.9402	3.6800e-003	0.2619	6.8700e-003	0.2688	0.0703	6.5200e-003	0.0768		379.5883	379.5883	0.0209		380.1103	

3.5 Building Construction - 2018

Unmitigated Construction On-Site

lb/day																
Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099			2,620.935	0.6421		2,636.988
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.935	2,620.935	0.6421		2,636.988

Anaheim OC Link Apartments - Orange County, Winter

3.5 Building Construction - 2018

Unmitigated Construction Off-Site

lb/day																	
Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4987	14.0991	4.1456	0.0291	0.7540	0.1061	0.8601	0.2170	0.1015	0.3184	3,159.033	9	3,159.033	0.2961	9	3,166.436	9
Worker	2.4364	1.6163	17.6159	0.0531	5.3988	0.0357	5.4345	1.4318	0.0329	1.4646	5,287.871	2	5,287.871	0.1406	2	5,291.385	7
Total	2.9351	15.7153	21.7615	0.0822	6.1528	0.1417	6.2945	1.6488	0.1343	1.7831	8,446.905	1	8,446.905	0.4367	1	8,457.822	7

Mitigated Construction On-Site

lb/day																		
Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e		
Off-Road	2.6795	23.3900	17.5804	0.0269	1.4999	1.4999	1.4999	1.4099	1.4099	1.4099	0.0000	2,620.935	1	2,620.935	0.6421	1	2,636.988	3
Total	2.6795	23.3900	17.5804	0.0269	1.4999	1.4999	1.4999	1.4099	1.4099	1.4099	0.0000	2,620.935	1	2,620.935	0.6421	1	2,636.988	3

Anaheim OC Link Apartments - Orange County, Winter

3.5 Building Construction - 2018

Mitigated Construction Off-Site

lb/day																	
Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000
Vendor	0.4987	14.0991	4.1456	0.0291	0.7540	0.1061	0.8601	0.2170	0.1015	0.3184		3,159.0339	3,159.0339	0.2961			3,166.4369
Worker	2.4364	1.6163	17.6159	0.0531	5.3988	0.0357	5.4345	1.4318	0.0329	1.4646		5,287.8712	5,287.8712	0.1406			5,291.3857
Total	2.9351	15.7153	21.7615	0.0822	6.1528	0.1417	6.2945	1.6488	0.1343	1.7831		8,446.9051	8,446.9051	0.4367			8,457.8227

3.5 Building Construction - 2019

Unmitigated Construction On-Site

lb/day																	
Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313			2,607.3635
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313			2,607.3635

Anaheim OC Link Apartments - Orange County, Winter

3.5 Building Construction - 2019

Unmitigated Construction Off-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000
Vendor	0.4613	13.4047	3.8865	0.0289	0.7540	0.0922	0.8461	0.2170	0.0882	0.3051	3,142.9906	3,142.9906	3,142.9906	0.2863			3,150.1470
Worker	2.2457	1.4347	15.9526	0.0516	5.3988	0.0361	5.4349	1.4318	0.0332	1.4650	5,147.6869	5,147.6869	5,147.6869	0.1268			5,150.8576
Total	2.7070	14.8394	19.8390	0.0806	6.1528	0.1282	6.2810	1.6488	0.1214	1.7701	8,290.6775	8,290.6775	8,290.6775	0.4131			8,301.0047

Mitigated Construction On-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.5802	2,591.5802	0.6313			2,607.3635
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.5802	2,591.5802	0.6313			2,607.3635

Anaheim OC Link Apartments - Orange County, Winter

3.5 Building Construction - 2019

Mitigated Construction Off-Site

lb/day																	
Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4613	13.4047	3.8865	0.0289	0.7540	0.0922	0.8461	0.2170	0.0882	0.3051	3,142.9906	3,142.9906	3,142.9906	0.2863		3,150.1470	
Worker	2.2457	1.4347	15.9526	0.0516	5.3988	0.0361	5.4349	1.4318	0.0332	1.4650	5,147.6869	5,147.6869	5,147.6869	0.1268		5,150.8576	
Total	2.7070	14.8394	19.8390	0.0806	6.1528	0.1282	6.2810	1.6488	0.1214	1.7701	8,290.6775	8,290.6775	8,290.6775	0.4131		8,301.0047	

3.5 Building Construction - 2020

Unmitigated Construction On-Site

lb/day																
Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503			2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503			2,553.0631	0.6229		2,568.6345

Anaheim OC Link Apartments - Orange County, Winter

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

lb/day																	
Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000
Vendor	0.3937	12.2889	3.5564	0.0287	0.7539	0.0652	0.8192	0.2170	0.0624	0.2794	3,120.699	3	3,120.699	0.2718			3,127.494
Worker	2.0976	1.2851	14.6126	0.0500	5.3988	0.0357	5.4345	1.4318	0.0329	1.4647	4,982.730	2	4,982.730	0.1137			4,985.572
Total	2.4912	13.5740	18.1689	0.0787	6.1527	0.1009	6.2537	1.6488	0.0953	1.7440	8,103.429	4	8,103.429	0.3855			8,113.066

Mitigated Construction On-Site

lb/day																	
Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.063	1	0.6229			2,568.634
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.063	1	0.6229			2,568.634

Anaheim OC Link Apartments - Orange County, Winter

3.5 Building Construction - 2020

Mitigated Construction Off-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000
Vendor	0.3937	12.2889	3.5564	0.0287	0.7539	0.0652	0.8192	0.2170	0.0624	0.2794	3,120.699 3	3,120.699 3	3,120.699 3	0.2718			3,127.494 6
Worker	2.0976	1.2851	14.6126	0.0500	5.3988	0.0357	5.4345	1.4318	0.0329	1.4647	4,982.730 2	4,982.730 2	4,982.730 2	0.1137			4,985.572 3
Total	2.4912	13.5740	18.1689	0.0787	6.1527	0.1009	6.2537	1.6488	0.0953	1.7440	8,103.429 4	8,103.429 4	8,103.429 4	0.3855			8,113.066 9

3.6 Paving - 2020

Unmitigated Construction On-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.733 4	2,207.733 4	0.7140			2,225.584 1
Paving	0.2627					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.6192	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.733 4	2,207.733 4	0.7140			2,225.584 1

Anaheim OC Link Apartments - Orange County, Winter

3.6 Paving - 2020

Unmitigated Construction Off-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0651	0.0399	0.4538	1.5500e-003	0.1677	1.1100e-003	0.1688	0.0445	1.0200e-003	0.0455	154.7432	154.7432	154.7432	3.5300e-003		154.8314	154.8314
Total	0.0651	0.0399	0.4538	1.5500e-003	0.1677	1.1100e-003	0.1688	0.0445	1.0200e-003	0.0455	154.7432	154.7432	154.7432	3.5300e-003		154.8314	154.8314

Mitigated Construction On-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528	0.6926	0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841	2,225.5841
Paving	0.2627					0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000	0.0000
Total	1.6192	14.0656	14.6521	0.0228		0.7528	0.7528	0.6926	0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841	2,225.5841

Anaheim OC Link Apartments - Orange County, Winter

3.6 Paving - 2020

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0651	0.0399	0.4538	1.5500e-003	0.1677	1.1100e-003	0.1688	0.0445	1.0200e-003	0.0455	154.7432	154.7432	154.7432	3.5300e-003		154.8314
Total	0.0651	0.0399	0.4538	1.5500e-003	0.1677	1.1100e-003	0.1688	0.0445	1.0200e-003	0.0455		154.7432	154.7432	3.5300e-003		154.8314

3.7 Architectural Coating - 2020

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Archit. Coating	28.6609					0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109	0.1109	0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	28.9031	1.6838	1.8314	2.9700e-003		0.1109	0.1109	0.1109	0.1109	0.1109		281.4481	281.4481	0.0218		281.9928

Anaheim OC Link Apartments - Orange County, Winter

3.7 Architectural Coating - 2020
Unmitigated Construction Off-Site

lb/day																	
Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.4213	0.2581	2.9346	0.0100	1.0842	7.1700e-003	1.0914	0.2875	6.6000e-003	0.2941	1,000.6725	1,000.6725	1,001.2433	0.0228		1,001.2433	
Total	0.4213	0.2581	2.9346	0.0100	1.0842	7.1700e-003	1.0914	0.2875	6.6000e-003	0.2941	1,000.6725	1,000.6725	1,001.2433	0.0228		1,001.2433	

Mitigated Construction On-Site

lb/day																
Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Archit. Coating	28.6609					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
Total	28.9031	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928

Anaheim OC Link Apartments - Orange County, Winter

3.7 Architectural Coating - 2020

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.4213	0.2581	2.9346	0.0100	1.0842	7.1700e-003	1.0914	0.2875	6.6000e-003	0.2941	1,000.6725	1,000.6725	0.0228	0.0000	0.0000	1,001.2433
Total	0.4213	0.2581	2.9346	0.0100	1.0842	7.1700e-003	1.0914	0.2875	6.6000e-003	0.2941	1,000.6725	1,000.6725	0.0228	0.0000	0.0000	1,001.2433

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Anaheim OC Link Apartments - Orange County, Winter

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated	4.2167	17.6055	55.3174	0.2159	20.6101	0.1615	20.7716	5.5114	0.1502	5.6616	21,947.67	96	21,947.67	0.9089		21,970.40
Unmitigated	4.2167	17.6055	55.3174	0.2159	20.6101	0.1615	20.7716	5.5114	0.1502	5.6616	21,947.67	96	21,947.67	0.9089		21,970.40

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Apartments Mid Rise	2,719.85	2,613.51	2396.74	9,084,498	9,084,498
Enclosed Parking with Elevator	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Strip Mall	221.60	210.20	102.15	386,050	386,050
Total	2,941.45	2,823.71	2,498.89	9,470,549	9,470,549

4.3 Trip Type Information

Land Use	Miles				Trip %				Trip Purpose %			
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Anaheim OC Link Apartments - Orange County, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Enclosed Parking with Elevator	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Parking Lot	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Strip Mall	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Natural Gas Mitigated	0.1384	1.1828	0.5044	7.5500e-003		0.0956	0.0956		0.0956	0.0956		1,509.6958	1,509.6958	0.0289	0.0277	1,518.6671
Natural Gas Unmitigated	0.1384	1.1828	0.5044	7.5500e-003		0.0956	0.0956		0.0956	0.0956		1,509.6958	1,509.6958	0.0289	0.0277	1,518.6671

Anaheim OC Link Apartments - Orange County, Winter

5.2 Energy by Land Use - Natural Gas

Unmitigated

Land Use	Natural Gas Use kBTU/yr	lb/day											CO2e				
		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2		NBio-CO2	Total CO2	CH4	N2O
Apartments Mid Rise	12805	0.1381	1.1801	0.5022	7.5300e-003		0.0954	0.0954	0.0954	0.0954	0.0954	0.0954	0.0954	1,506.4726	0.0289	0.0276	1,515.4248
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	27.3973	3.0000e-004	2.6900e-003	2.2600e-003	2.0000e-005		2.0000e-004	2.0000e-004	2.0000e-004	2.0000e-004	2.0000e-004	2.0000e-004	2.0000e-004	3.2232	6.0000e-005	6.0000e-005	3.2424
Total		0.1384	1.1828	0.5044	7.5500e-003		0.0956	0.0956	0.0956	0.0956	0.0956	0.0956	0.0956	1,509.6958	0.0289	0.0277	1,518.6671

Anaheim OC Link Apartments - Orange County, Winter

5.2 Energy by Land Use - Natural Gas

Mitigated

Land Use	Natural Gas Use kBtu/yr	lb/day										lb/day						
		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Apartments Mid Rise	12.805	0.1381	1.1801	0.5022	7.5300e-003		0.0954	0.0954		0.0954	0.0954		1,506.4726	1,506.4726	0.0289	0.0276		1,515.4248
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000		0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000		0.0000
Strip Mall	0.0273973	3.0000e-004	2.6900e-003	2.2600e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004		3.2232	3.2232	6.0000e-005	6.0000e-005		3.2424
Total		0.1384	1.1828	0.5044	7.5500e-003		0.0956	0.0956		0.0956	0.0956		1,509.6958	1,509.6958	0.0289	0.0277		1,518.6671

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

Anaheim OC Link Apartments - Orange County, Winter

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Mitigated	8.6325	0.3906	33.8938	1.7900e-003		0.1871	0.1871	0.1871	0.1871	0.1871	0.0000	61.0028	61.0028	0.0593	0.0000	62.4844
Unmitigated	8.6325	0.3906	33.8938	1.7900e-003		0.1871	0.1871	0.1871	0.1871	0.1871	0.0000	61.0028	61.0028	0.0593	0.0000	62.4844

6.2 Area by SubCategory

Unmitigated

SubCategory	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Architectural Coating	0.6282					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.9734					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Landscaping	1.0309	0.3906	33.8938	1.7900e-003		0.1871	0.1871		0.1871	0.1871		61.0028	61.0028	0.0593		62.4844
Total	8.6325	0.3906	33.8938	1.7900e-003		0.1871	0.1871		0.1871	0.1871	0.0000	61.0028	61.0028	0.0593	0.0000	62.4844

Anaheim OC Link Apartments - Orange County, Winter

6.2 Area by SubCategory

Mitigated

SubCategory	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Architectural Coating	0.6282					0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Consumer Products	6.9734					0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0309	0.3906	33.8938	1.7900e-003		0.1871	0.1871	0.1871	0.1871	0.1871		61.0028	61.0028	0.0593		62.4844
Total	8.6325	0.3906	33.8938	1.7900e-003		0.1871	0.1871	0.1871	0.1871	0.1871	0.0000	61.0028	61.0028	0.0593	0.0000	62.4844

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Anaheim OC Link Apartments - Orange County, Winter

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation
