

Appendix K

Operational Air Quality, Greenhouse Gas, Energy,
and Noise Analysis Utilizing VMT Calculator Data



MEMORANDUM

To: Tamar Gharibian and More Song, Los Angeles City Planning
From: Olivia Chan, Kimley-Horn
Date: April 6, 2026
Subject: 3822 Figueroa Project – Operational Air Quality, Greenhouse Gas, Energy, and Noise Analysis Utilizing VMT Calculator Data

1.0 PURPOSE

The purpose of this memorandum is to disclose and analyze the 3822 Figueroa Project’s environmental impacts related to emissions, energy, and noise under a slightly higher daily trip generation estimated using the Los Angeles Department of Transportation (LADOT) Vehicle Miles Traveled (VMT) Calculator, and to confirm that the higher trip generation assessed by the VMT Calculator would not result in any changes to the conclusions regarding the Project’s potential environmental impacts contained in the Draft Environmental Impact Report (DEIR), which relies on transportation data from the Institute of Traffic Engineers (ITE) Trip Generation Manual (ITE Manual).

The Project is not anticipated to approach or exceed any thresholds of significance for the relevant environmental topics for which operational trip generation is a driver, and the ITE data and methods constitute substantial evidence in support of the analysis and conclusions in the DEIR. This memorandum nonetheless confirms that the small discrepancy in daily trip totals between the two valid sources of data does not alter any of the relevant analysis or conclusions of the DEIR.

Pursuant to the City’s Transportation Assessment Guidelines (2022 TAG) screening criteria, a project’s daily vehicle trips should be estimated using the VMT Calculator tool or the most recent edition of the ITE Trip Generation Manual in order to screen for daily vehicle trips. For the Project, the transportation assessment utilized ITE-based daily trip generation values, as these provide both daily and peak-hour trip data, enabling the ITE data to be used uniformly across all CEQA and non-CEQA analyses, whereas the LADOT VMT Calculator does not provide peak-hour information. Accordingly, technical studies assessing air quality, noise, and greenhouse gas emissions relied on ITE-based trip generation data. As summarized in **Table 1: Trip Generation**

Comparison, the ITE Trip Generation Manual indicates 975 total daily trips, with 717 net project trips, compared to the LADOT VMT Calculator, which produces 1,017 total daily trips and 785 net project trips. The difference in daily trips is thus a total of 68 trips over the course of a full day. This marginal increase in daily trips was not expected to alter any of the relevant analysis or conclusions of the DEIR given the manner in which the relevant impacts analyzed therein using the ITE data are less than significant by comfortable margins. That assumption is confirmed by the following analysis, which concludes that the use of the VMT Calculator data does not produce significant impacts for any of the subjects for which daily trips are impact drivers, including operational air quality, greenhouse gas emissions, energy, and offsite noise, as follows.

Trip Generation Method	Total Daily Project Trips	Net Daily Project Trips
LADOT VMT Calculator	1,017	785
ITE Trip Generation	975	717

2.0 IMPACT ANALYSIS

2.1 Air Quality

Regional Operational Emissions

The Project’s operational air quality emissions are associated with area sources (e.g. landscape maintenance equipment, architectural coatings, etc.), energy sources, and mobile sources (i.e., motor vehicle use). The primary sources of operational criteria pollutant emissions are from motor vehicle use and area sources. Long-term operational emissions attributable to the Project assuming ITE trip generation, as analyzed in Chapter IV.A, Air Quality, are summarized in **Table 2: Project Operational Emissions (ITE Trip Generation)** and operational emissions assuming LADOT VMT Calculator trips are summarized in **Table 3: Project Operational Emissions (LADOT VMT Calculator)**.

As shown in **Table 1** and **Table 2**, unmitigated operational (i.e., area, energy, and mobile) emissions of the Project would not exceed SCAQMD thresholds for all criteria pollutants under either trip generation scenario, using either the ITE or VMT Calculator data. Therefore, impacts based on the VMT Calculator daily trip totals would, as with the use of ITE data, be less than significant and would not result in any changes to the conclusions regarding the Project’s potential environmental impacts, as concluded in the DEIR.

Table 2: Project Operational Emissions (ITE Trip Generation)						
Source	Maximum Pounds Per Day					
	ROG	NO_x	CO	SO₂	PM₁₀	PM_{2.5}
Summer Emissions						
Area	1.88	0.12	13.16	<0.01	0.01	0.01
Energy	<0.01	0.07	0.06	<0.01	0.01	0.01
Mobile	2.66	1.76	21.52	0.05	5.41	1.39
Proposed Project Total	4.55	1.95	34.73	0.06	5.42	1.41
SCAQMD Thresholds	55	55	550	150	150	55
Over/(Under)	(50.45)	(53.05)	(515.27)	(149.94)	(144.58)	(53.59)
Exceed SCAQMD Threshold?	No	No	No	No	No	No
Winter Emissions						
Area	0.65	0.00	0.00	0.00	0.00	0.00
Energy	<0.01	0.07	0.06	<0.01	0.01	0.01
Mobile	2.64	1.92	19.96	0.05	5.41	1.39
Proposed Project Total	3.29	1.99	20.02	0.05	5.41	1.40
SCAQMD Thresholds	55	55	550	150	150	55
Over/(Under)	(51.71)	(53.01)	(529.98)	(149.95)	(144.59)	(53.60)
Exceed SCAQMD Threshold?	No	No	No	No	No	No
ROG = Reactive Organic Gases; NO _x = Nitrogen Oxides; CO = Carbon Monoxide; SO ₂ = Sulfur Dioxide; PM ₁₀ = Particulate Matter 10 microns in diameter or less; PM _{2.5} = Particulate Matter 2.5 microns in diameter or less Note: Total values are from CalEEMod and may not add up 100% due to rounding.						

Table 3: Project Operational Emissions (LADOT VMT Calculator)						
Source	Maximum Pounds Per Day					
	ROG	NO_x	CO	SO₂	PM₁₀	PM_{2.5}
Summer Emissions						
Area	1.88	0.12	13.16	<0.01	0.01	0.01
Energy	<0.01	0.07	0.06	<0.01	0.01	0.01
Mobile	2.91	1.93	23.63	0.06	5.95	1.53
Proposed Project Total	4.79	2.12	36.84	0.06	5.96	1.54
SCAQMD Thresholds	55	55	550	150	150	55
Over/(Under)	(50.21)	(52.88)	(513.16)	(149.94)	(144.04)	(53.46)
Exceed SCAQMD Threshold?	No	No	No	No	No	No
Winter Emissions						
Area	0.65	0.00	0.00	0.00	0.00	0.00
Energy	<0.01	0.07	0.06	<0.01	0.01	0.01
Mobile	2.88	2.11	21.90	0.06	5.95	1.53
Proposed Project Total	3.53	2.17	21.96	0.06	5.95	1.54
SCAQMD Thresholds	55	55	550	150	150	55
Over/(Under)	(51.47)	(52.83)	(528.04)	(149.94)	(144.05)	(53.46)
Exceed SCAQMD Threshold?	No	No	No	No	No	No
Note: Total values are from CalEEMod and may not add up 100% due to rounding. Source: CalEEMod version 2022.1.1. Refer to Attachment B for model outputs.						

Localized Operational Emissions

According to SCAQMD’s localized significance threshold methodology, operational LSTs apply only to on-site sources and mobile emissions are not considered on-site sources.¹ Therefore, localized operational emissions associated with the Project would not change based on updated trip generation values and emissions, as presented in Chapter IV.A. Air Quality, would remain unchanged. Impacts would be less than significant and would not result in any changes to the conclusions regarding the Project’s potential environmental impacts, as concluded in the DEIR.

¹ South Coast Air Quality Management District, *Final Localized Significance Threshold Methodology*, Revised 2008, <http://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook/localized-significance-thresholds>, accessed August 2025

2.2 Energy

Energy consumption associated with Project operations would occur from building energy (electricity and natural gas) usage, water usage, and transportation-related fuel usage. This analysis relies on the operational land use activity and trip outputs from CalEEMod; refer to **Attachment C**. Energy impacts were analyzed in the Project Initial Study and screened out from further review. Building energy and water usage would not be altered due to the update in trip generation. As such, only mobile source energy consumption has been analyzed herein. The Project’s annual mobile source energy use during operations is shown in **Table 4: Annual Mobile Source Energy Consumption**. As shown in **Table 4**, estimated Project annual mobile source energy consumption would not place a substantial demand on regional energy supply, require significant additional capacity, or significantly increase peak and base period electricity demand, where the VMT Calculator numbers result in negligible changes to the percentages analyzed in the DEIR using the ITE data. Thus, using either data source, the Project would not cause a wasteful, inefficient, and unnecessary consumption of energy during Project operations or preempt future energy development or future energy conservation. Therefore, operational energy impacts associated with the VMT Calculator trip generation figures would be less than significant and would not result in any changes to the conclusions regarding the Project’s potential environmental impacts, as concluded in the DEIR.

Table 4: Annual Mobile Source Energy Consumption				
Energy Type	Source	Project Consumption¹	Los Angeles County Annual Energy Consumption	Percentage Increase Countywide Consumption
ITE Trip Generation				
Diesel (gallons)	Mobile Trips	11,473	528,535,000 ²	0.0022%
Gasoline (gallons)	Mobile Trips	104,745	3,171,276,372 ²	0.0033%
VMT Calculator Trip Generation				
Diesel (gallons)	Mobile Trips	11,707	528,535,000 ²	0.0022%
Gasoline (gallons)	Mobile Trips	106,888	3,171,276,372 ²	0.0034%
GWh = gigawatt-hours 1. Calculated based on default fleet mix, total VMT from CalEEMod, and average fuel efficiency from the United States Department of Transportation. 2. The anticipated Los Angeles County fuel usage in 2030 (the first operational year). Source: California Air Resources Board, EMFAC2021, Emissions Inventory, 2022. Refer to Attachment C for energy calculations.				

2.3 Greenhouse Gas (GHG) Emissions

Operational or long-term GHG emissions occur over the life of the Project. GHG emissions would result from direct emissions, such as Project-generated vehicular traffic, on-site combustion of natural gas as part of onsite commercial uses, and operation of any landscaping equipment. Operational GHG emissions would also result from indirect sources, such as off-site generation of electrical power, solid waste generation, and the energy required to convey water to, and wastewater from, the Project. Total GHG emissions associated with the Project under both trip generation scenarios analyzed herein are summarized in **Table 3: Operational Project Greenhouse Gas Emissions**. As shown in **Table 3**, GHG emissions would be similar, with minimal difference, under either ITE or VMT Calculator trip generation scenarios. Therefore, impacts would be less than significant and would not result in any changes to the conclusions regarding the Project’s potential environmental impacts as concluded in the DEIR.

Table 5: Operational Project Greenhouse Gas Emissions		
Emissions Source	ITE Trip Generation MTCO₂e per Year	LADOT VMT Calculator MTCO₂e per Year
Construction Amortized Over 30 Years	53	53
Area Source	22	22
Energy	291	291
Mobile	910	928
Waste	60	60
Water and Wastewater	31	31
Refrigerants	1	1
Total Project Emissions	1,368	1,386
Source: CalEEMod version 2022.1.		

2.4 Noise

Opening Year Traffic Noise

Implementation of the Project would generate increased traffic volumes along nearby roadway segments, which would in turn generate operational noise in the vicinity of the Project Site. To ensure consistency across the analyses conducted for the Project, plus-Project volumes utilized

in this analysis account for existing trips to be removed when existing uses are demolished.² **Table 6: Opening year and Opening Year Plus Project Traffic Noise Levels (ITE Trip Generation)** summarizes increases in Opening Year traffic noise as shown in Chapter IV.E, Noise based on the ITE data. **Table 7: Opening year and Opening Year Plus Project Traffic Noise Levels (LADOT VMT Calculator)** summarizes increases in Opening Year traffic noise based on the VMT Calculator trip generation assumptions. As depicted on both **Table 5** and **Table 6**, mobile source noise impacts would be less than significant and would not result in any changes to the conclusions regarding the Project’s potential operational offsite noise environmental impacts as concluded in the DEIR.

Table 6: Opening year and Opening Year Plus Project Traffic Noise Levels (ITE Trip Generation)							
Roadway Segment	Existing Noise Compatibility	Opening Year		Opening Year + Project		Incremental Increase	Significant Impact? ²
		ADT	dBA CNEL ¹	ADT	dBA CNEL ¹		
West 38 th Street between South Figueroa Street and South Flower Drive	Normally Acceptable	1,135	51.9	1,757	53.8	1.9	No
South Flower Drive between West 38 th Street and West 39 th Street	Normally Acceptable	931	51.1	1,648	53.5	2.4	No
West 39 th Street between South Figueroa Street and South Flower Drive	Normally Acceptable	11,774	64.9	12,447	65.2	0.3	No
South Figueroa Street between South Flower Drive and West 39 th Street	Conditionally Acceptable	37,237	69.9	37,592	70.0	0.1	No

ADT = average daily trips
dBA = A-weighted decibels
CNEL= Community Noise Equivalent Level
¹ Traffic noise levels are at 50 feet from the roadway centerline.
² A significant impact would occur if the opening year plus project noise levels cause the ambient noise levels measured at the property line of affected noise-sensitive uses to increase by 3 dBA in CNEL to or within the “normally unacceptable” or “clearly unacceptable” category, or an increase of 5 dBA in CNEL if the opening year plus project noise levels fall within the “conditionally acceptable” or “normally acceptable” category at noise-sensitive uses.

² As summarized in **Table 1**, above, the ITE Trip Generation scenario analyzed in Chapter IV.E, Noise, results in a net increase of 717 trips daily trips and the LADOT VMT Calculator trip scenario results in a net increase of 785 daily trips.

Table 7: Opening year and Opening Year Plus Project Traffic Noise Levels (LADOT VMT Calculator)

Roadway Segment	Existing Noise Compatibility	Opening Year		Opening Year + Project		Incremental Increase	Significant Impact? ²
		ADT	dBA CNEL ¹	ADT	dBA CNEL ¹		
West 38 th Street between South Figueroa Street and South Flower Drive	Normally Acceptable	1,135	51.9	1,824	54.0	2.1	No
South Flower Drive between West 38 th Street and West 39 th Street	Normally Acceptable	931	51.1	1,716	53.7	2.6	No
West 39 th Street between South Figueroa Street and South Flower Drive	Normally Acceptable	11,774	64.9	12,503	65.2	0.3	No
South Figueroa Street between South Flower Drive and West 39 th Street	Conditionally Acceptable	37,237	69.9	37,632	70.0	0.1	No

ADT = average daily trips

dBA = A-weighted decibels

CNEL= Community Noise Equivalent Level

¹ Traffic noise levels are at 50 feet from the roadway centerline.

² A significant impact would occur if the opening year plus project noise levels cause the ambient noise levels measured at the property line of affected noise-sensitive uses to increase by 3 dBA in CNEL to or within the “normally unacceptable” or “clearly unacceptable” category, or an increase of 5 dBA in CNEL if the opening year plus project noise levels fall within the “conditionally acceptable” or “normally acceptable” category at noise-sensitive uses.

See **Attachment D** for traffic noise modeling files.

Cumulative Traffic Noise

Cumulative noise impacts due to off-site traffic were analyzed by comparing the projected increase in traffic noise levels from “Existing” conditions to “Cumulative Future Plus Project” conditions to the applicable significance criteria. Plus Project volumes utilized in this analysis account for existing trips to be removed when existing uses are demolished. Increases in local volumes from Related Projects within a half-mile radius of the Project Site have been estimated and included in cumulative traffic conditions. First, it must be determined whether the “Cumulative With Project” 3.0 dB increase above existing conditions (*Combined Effects*) is exceeded. Next, under the *Incremental Effects* criteria, cumulative noise impacts are defined by determining if the forecast ambient (“Cumulative Without Project”) noise level is increased by 1.0 dB or more. Significant impacts would occur where both criteria are exceeded.

Table 8: Cumulative Roadway Traffic Noises Impacts (ITE Trip Generation) summarizes cumulative traffic noise levels as shown in Chapter IV.E, Noise utilizing ITE data. **Table 9: Cumulative Roadway Traffic Noises Impacts (LADOT VMT Calculator)** summarizes cumulative

traffic noise levels accounting for the trip generation total utilizing the VMT Calculator data. As shown in **Table 7** and **Table 8**, none of the roadway segments exceed both the Combined Effects (3.0 dB) and Incremental Effects (1.0 dB) criteria under both trip generation scenarios. Therefore, the Project’s contribution to cumulative traffic noise would not be cumulatively considerable and would not result in any changes to the conclusions regarding the Project’s potential environmental impacts as concluded in the DEIR.

Table 8: Cumulative Roadway Traffic Noises Impacts (ITE Trip Generation)

Roadway Segment	CNEL @ 50 feet from Centerline ¹			Combined Effects	Incremental Effects	Cumulatively Significant Impact?
	Existing	Cumulative Future Without Project	Cumulative Future Plus Project	dBA Difference Between Existing and Cumulative With Project	dBA Difference Between Cumulative With Project and Without Project	
West 38 th Street between South Figueroa Street and South Flower Drive	51.8	51.9	53.8	2.0	1.9	No
South Flower Drive between West 38 th Street and West 39 th Street	50.9	51.1	53.5	2.6	2.4	No
West 39 th Street between South Figueroa Street and South Flower Drive	64.8	64.9	65.2	0.4	0.3	No
South Figueroa Street between South Flower Drive and West 39 th Street	69.8	69.9	70.0	0.2	0.1	No

dBA = A-weighted decibels; CNEL = day-night noise level
¹ Traffic noise levels are at 50 feet from the roadway centerline.

Table 9: Cumulative Roadway Traffic Noises Impacts (LADOT VMT Calculator)

Roadway Segment	CNEL @ 50 feet from Centerline ¹			Combined Effects	Incremental Effects	Cumulatively Significant Impact?
	Existing	Cumulative Future Without Project	Cumulative Future Plus Project	dBA Difference Between Existing and Cumulative With Project	dBA Difference Between Cumulative With Project and Without Project	
West 38 th Street between South Figueroa Street and South Flower Drive	51.8	51.9	54.0	2.2	2.1	No
South Flower Drive between West 38 th Street and West 39 th Street	50.9	51.1	53.7	2.8	2.6	No
West 39 th Street between South Figueroa Street and South Flower Drive	64.8	64.9	65.2	0.4	0.3	No
South Figueroa Street between South Flower Drive and West 39 th Street	69.8	69.9	70.0	0.2	0.1	No

dBA = A-weighted decibels; CNEL = day-night noise level
¹ Traffic noise levels are at 50 feet from the roadway centerline.
 See **Attachment D** for traffic noise modeling files.

3.0 CONCLUSION

As shown in the analyses above, operational air quality, energy, GHG, and noise impacts would not exceed applicable thresholds while utilizing the slightly higher trip generation assumed by the LADOT VMT Calculator, as compared to the analysis in the DEIR utilizing ITE data. The slightly higher trip generation assumed by the VMT Calculator would not result in any changes to the conclusions regarding the Project’s potential environmental impacts, as concluded in the DEIR. Therefore, no further analysis is required.

Appendix A

Updated Trip Generation and Average Daily Traffic Data

No Build

		Existing Counts			Future 2028 Volume	Related Projects Volume	Future 2028 Volume with Related (Cumulative) Projects
	Roadway Segment	NB / EB	SB / WB	Existing ADT	ADT	ADT	ADT
1	38th Street Between Figueroa St & Flower St	632	469	1,102	1,135	0	1,135
2	Flower Dr Between 38th St and 39th St	372	532	904	931	0	931
3	39th Street Between Figueroa St and Flower Dr	4,919	6,509	11,428	11,774	1,656	13,430
4	Figueroa St Between Flower and 39th St	17,892	18,249	36,141	37,237	6,143	43,381

Project Trips

		Project Distribution	Total Trip Generation (Net)	Project Trips
	Roadway Segment	%	# of Trips	ADT
1	38th Street Between Figueroa St & Flower St			689
2	Flower Dr Between 38th St and 39th St			785
3	39th Street Between Figueroa St and Flower Dr		785	729
4	Figueroa St Between Flower and 39th St			395

With Project Trips

		Volume		
	Roadway Segment	Existing ADT With Project	Future (2028) With Project Trips	Future (2028) With Project Trips With Related (Cumulative) Projects
1	38th Street Between Figueroa St & Flower St	1,791	1,824	1,824
2	Flower Dr Between 38th St and 39th St	1,689	1,716	1,716
3	39th Street Between Figueroa St and Flower Dr	12,157	12,503	14,159
4	Figueroa St Between Flower and 39th St	36,536	37,632	43,776

Appendix B

Air Quality/Greenhouse Gas Emissions Data

3800 S Figueroa Updated Trip Gen Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	3800 S Figueroa Updated Trip Gen
Operational Year	2030
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50000
Precipitation (days)	18.4000
Location	3800 S Figueroa St, Los Angeles, CA 90037, USA
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4225
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.41

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Apartments Mid Rise	209.000	Dwelling Unit	0.67000	25,032.0	7,519.00	—	619.000	—

Recreational Swimming Pool	0.68400	1000sqft	0.00000	684.000	0.00000	—	—	—
High Turnover (Sit Down Restaurant)	2.70500	1000sqft	0.06000	2,705.00	0.00000	—	—	—
Enclosed Parking with Elevator	26.2360	1000sqft	0.60000	26,236.0	0.00000	—	—	—
Other Non-Asphalt Surfaces	0.15000	Acre	0.15000	0.00000	0.00000	—	—	—
Road Construction	0.17000	Mile	0.25000	0.00000	0.00000	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.3. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.15224	4.79227	2.11841	36.8407	0.06105	0.04652	5.91359	5.96011	0.04232	1.50215	1.54447	119.369	9,603.96	9,723.33	12.5024	0.31317	18.0678	10,147.3
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.82119	3.53306	2.17497	21.9581	0.05797	0.03890	5.91359	5.95249	0.03658	1.50215	1.53873	119.369	9,315.02	9,434.39	12.5127	0.32448	4.76526	9,848.67
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.45923	4.14079	2.11880	29.8687	0.05484	0.04168	5.42190	5.46358	0.03825	1.37751	1.41576	119.369	7,521.52	7,640.89	12.3871	0.29238	9.88210	8,047.58
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.81381	0.75569	0.38668	5.45105	0.01001	0.00761	0.98950	0.99710	0.00698	0.25140	0.25838	19.7629	1,245.27	1,265.04	2.05083	0.04841	1.63609	1,332.37

2.4. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.18686	2.90568	1.92822	23.6265	0.06005	0.03364	5.91359	5.94723	0.03133	1.50215	1.53348	—	6,139.24	6,139.24	0.28321	0.23888	13.6566	6,231.17
Area	1.95781	1.88281	0.12137	13.1563	0.00059	0.00765	—	0.00765	0.00577	—	0.00577	0.00000	1,600.10	1,600.10	0.11226	0.01593	—	1,607.65
Energy	0.00757	0.00379	0.06883	0.05781	0.00041	0.00523	—	0.00523	0.00523	—	0.00523	—	1,751.93	1,751.93	0.12554	0.01684	—	1,760.09
Water	—	—	—	—	—	—	—	—	—	—	—	16.5788	112.694	129.273	1.70794	0.04152	—	184.344
Waste	—	—	—	—	—	—	—	—	—	—	—	102.790	0.00000	102.790	10.2735	0.00000	—	359.628
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4.41117	4.41117
Total	5.15224	4.79227	2.11841	36.8407	0.06105	0.04652	5.91359	5.96011	0.04232	1.50215	1.54447	119.369	9,603.96	9,723.33	12.5024	0.31317	18.0678	10,147.3
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.16353	2.87919	2.10614	21.9003	0.05756	0.03366	5.91359	5.94725	0.03135	1.50215	1.53350	—	5,887.18	5,887.18	0.29501	0.25050	0.35410	5,969.56
Area	0.65009	0.65009	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	0.00000	1,563.22	1,563.22	0.11072	0.01562	—	1,570.64
Energy	0.00757	0.00379	0.06883	0.05781	0.00041	0.00523	—	0.00523	0.00523	—	0.00523	—	1,751.93	1,751.93	0.12554	0.01684	—	1,760.09
Water	—	—	—	—	—	—	—	—	—	—	—	16.5788	112.694	129.273	1.70794	0.04152	—	184.344
Waste	—	—	—	—	—	—	—	—	—	—	—	102.790	0.00000	102.790	10.2735	0.00000	—	359.628
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4.41117	4.41117
Total	3.82119	3.53306	2.17497	21.9581	0.05797	0.03890	5.91359	5.95249	0.03658	1.50215	1.53873	119.369	9,315.02	9,434.39	12.5127	0.32448	4.76526	9,848.67
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.90587	2.64259	1.96684	20.7997	0.05402	0.03121	5.42190	5.45311	0.02906	1.37751	1.40657	—	5,524.57	5,524.57	0.27149	0.23274	5.47093	5,606.18
Area	1.54579	1.49442	0.08313	9.01118	0.00040	0.00524	—	0.00524	0.00395	—	0.00395	0.00000	132.329	132.329	0.00864	0.00128	—	132.927
Energy	0.00757	0.00379	0.06883	0.05781	0.00041	0.00523	—	0.00523	0.00523	—	0.00523	—	1,751.93	1,751.93	0.12554	0.01684	—	1,760.09
Water	—	—	—	—	—	—	—	—	—	—	—	16.5788	112.694	129.273	1.70794	0.04152	—	184.344
Waste	—	—	—	—	—	—	—	—	—	—	—	102.790	0.00000	102.790	10.2735	0.00000	—	359.628

Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4.41117	4.41117
Total	4.45923	4.14079	2.11880	29.8687	0.05484	0.04168	5.42190	5.46358	0.03825	1.37751	1.41576	119.369	7,521.52	7,640.89	12.3871	0.29238	9.88210	8,047.58	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Mobile	0.53032	0.48227	0.35895	3.79595	0.00986	0.00570	0.98950	0.99519	0.00530	0.25140	0.25670	—	914.655	914.655	0.04495	0.03853	0.90578	928.168	
Area	0.28211	0.27273	0.01517	1.64454	0.00007	0.00096	—	0.00096	0.00072	—	0.00072	0.00000	21.9086	21.9086	0.00143	0.00021	—	22.0075	
Energy	0.00138	0.00069	0.01256	0.01055	0.00008	0.00095	—	0.00095	0.00095	—	0.00095	—	290.052	290.052	0.02078	0.00279	—	291.403	
Water	—	—	—	—	—	—	—	—	—	—	—	2.74480	18.6578	21.4026	0.28277	0.00687	—	30.5202	
Waste	—	—	—	—	—	—	—	—	—	—	—	17.0181	0.00000	17.0181	1.70089	0.00000	—	59.5404	
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.73032	0.73032	
Total	0.81381	0.75569	0.38668	5.45105	0.01001	0.00761	0.98950	0.99710	0.00698	0.25140	0.25838	19.7629	1,245.27	1,265.04	2.05083	0.04841	1.63609	1,332.37	

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	2.55358	2.32551	1.55953	19.1621	0.04890	0.02734	4.81859	4.84593	0.02546	1.22400	1.24946	—	4,999.33	4,999.33	0.22860	0.19348	11.1279	5,073.84
Recreational Swimming Pool	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

High Turnover (Sit Down Restaurant)	0.63327	0.58017	0.36869	4.46441	0.01115	0.00630	1.09500	1.10130	0.00586	0.27815	0.28401	—	1,139.91	1,139.91	0.05461	0.04540	2.52876	1,157.33
Enclosed Parking with Elevator	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	3.18686	2.90568	1.92822	23.6265	0.06005	0.03364	5.91359	5.94723	0.03133	1.50215	1.53348	—	6,139.24	6,139.24	0.28321	0.23888	13.6566	6,231.17
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	2.53482	2.30429	1.70356	17.7381	0.04687	0.02736	4.81859	4.84595	0.02548	1.22400	1.24948	—	4,793.91	4,793.91	0.23796	0.20288	0.28853	4,860.60
Recreational Swimming Pool	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
High Turnover (Sit Down Restaurant)	0.62871	0.57490	0.40258	4.16220	0.01069	0.00630	1.09500	1.10131	0.00587	0.27815	0.28402	—	1,093.27	1,093.27	0.05705	0.04762	0.06557	1,108.95
Enclosed Parking with Elevator	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	3.16353	2.87919	2.10614	21.9003	0.05756	0.03366	5.91359	5.94725	0.03135	1.50215	1.53350	—	5,887.18	5,887.18	0.29501	0.25050	0.35410	5,969.56

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.43621	0.39627	0.29778	3.15323	0.00823	0.00475	0.82614	0.83088	0.00442	0.20989	0.21431	—	763.209	763.209	0.03719	0.03200	0.75624	774.432
Recreational Swimming Pool	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
High Turnover (Sit Down Restaurant)	0.09411	0.08601	0.06117	0.64273	0.00163	0.00095	0.16336	0.16431	0.00089	0.04150	0.04239	—	151.446	151.446	0.00775	0.00653	0.14954	153.736
Enclosed Parking with Elevator	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	0.53032	0.48227	0.35895	3.79595	0.00986	0.00570	0.98950	0.99519	0.00530	0.25140	0.25670	—	914.655	914.655	0.04495	0.03853	0.90578	928.168

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,300.77	1,300.77	0.09213	0.01300	—	1,306.95

Recreati Swimming Pool	—	—	—	—	—	—	—	—	—	—	—	—	19.2003	19.2003	0.00136	0.00019	—	19.2915
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	166.646	166.646	0.01180	0.00167	—	167.437
Enclose d Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	183.189	183.189	0.01298	0.00183	—	184.059
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,669.81	1,669.81	0.11827	0.01669	—	1,677.74
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,300.77	1,300.77	0.09213	0.01300	—	1,306.95
Recreati onal Swimmi ng Pool	—	—	—	—	—	—	—	—	—	—	—	—	19.2003	19.2003	0.00136	0.00019	—	19.2915
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	166.646	166.646	0.01180	0.00167	—	167.437
Enclose d Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	183.189	183.189	0.01298	0.00183	—	184.059

Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,669.81	1,669.81	0.11827	0.01669	—	1,677.74
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	215.358	215.358	0.01525	0.00215	—	216.380
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	—	—	3.17883	3.17883	0.00023	0.00003	—	3.19392
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	27.5901	27.5901	0.00195	0.00028	—	27.7211
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	30.3291	30.3291	0.00215	0.00030	—	30.4731
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	—	276.456	276.456	0.01958	0.00276	—	277.769

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Apartments	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Recreational Swimming Pool	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
High Turnover (Sit Down Restaurant)	0.00757	0.00379	0.06883	0.05781	0.00041	0.00523	—	0.00523	0.00523	—	0.00523	—	82.1223	82.1223	0.00727	0.00015	—	82.3501
Enclosed Parking with Elevator	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	0.00757	0.00379	0.06883	0.05781	0.00041	0.00523	—	0.00523	0.00523	—	0.00523	—	82.1223	82.1223	0.00727	0.00015	—	82.3501
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Recreational Swimming Pool	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
High Turnover (Sit Down Restaurant)	0.00757	0.00379	0.06883	0.05781	0.00041	0.00523	—	0.00523	0.00523	—	0.00523	—	82.1223	82.1223	0.00727	0.00015	—	82.3501

Enclosed Parking with Elevator	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	0.00757	0.00379	0.06883	0.05781	0.00041	0.00523	—	0.00523	0.00523	—	0.00523	—	82.1223	82.1223	0.00727	0.00015	—	82.3501
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Recreational Swimming Pool	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
High Turnover (Sit Down Restaurant)	0.00138	0.00069	0.01256	0.01055	0.00008	0.00095	—	0.00095	0.00095	—	0.00095	—	13.5963	13.5963	0.00120	0.00003	—	13.6340
Enclosed Parking with Elevator	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	0.00138	0.00069	0.01256	0.01055	0.00008	0.00095	—	0.00095	0.00095	—	0.00095	—	13.5963	13.5963	0.00120	0.00003	—	13.6340

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	0.00000	1,563.22	1,563.22	0.11072	0.01562	—	1,570.64
Consumer Products	0.59614	0.59614	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.05395	0.05395	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.30772	1.23272	0.12137	13.1563	0.00059	0.00765	—	0.00765	0.00577	—	0.00577	—	36.8786	36.8786	0.00154	0.00031	—	37.0088
Total	1.95781	1.88281	0.12137	13.1563	0.00059	0.00765	—	0.00765	0.00577	—	0.00577	0.00000	1,600.10	1,600.10	0.11226	0.01593	—	1,607.65
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	0.00000	1,563.22	1,563.22	0.11072	0.01562	—	1,570.64
Consumer Products	0.59614	0.59614	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.05395	0.05395	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.65009	0.65009	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	0.00000	1,563.22	1,563.22	0.11072	0.01562	—	1,570.64
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	0.00000	17.7266	17.7266	0.00126	0.00018	—	17.8108

Consumer Products	0.10880	0.10880	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.00985	0.00985	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.16347	0.15409	0.01517	1.64454	0.00007	0.00096	—	0.00096	0.00072	—	0.00072	—	4.18197	4.18197	0.00017	0.00003	—	4.19673
Total	0.28211	0.27273	0.01517	1.64454	0.00007	0.00096	—	0.00096	0.00072	—	0.00072	0.00000	21.9086	21.9086	0.00143	0.00021	—	22.0075

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	14.9279	101.601	116.529	1.53788	0.03738	—	166.117
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	—	0.07752	0.52089	0.59841	0.00799	0.00019	—	0.85588
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	1.57334	10.5720	12.1454	0.16208	0.00394	—	17.3711

Enclosed	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	16.5788	112.694	129.273	1.70794	0.04152	—	184.344
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	14.9279	101.601	116.529	1.53788	0.03738	—	166.117
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	—	0.07752	0.52089	0.59841	0.00799	0.00019	—	0.85588
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	1.57334	10.5720	12.1454	0.16208	0.00394	—	17.3711
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	16.5788	112.694	129.273	1.70794	0.04152	—	184.344
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	2.47149	16.8213	19.2928	0.25461	0.00619	—	27.5025

Recreational Swimming	—	—	—	—	—	—	—	—	—	—	—	0.01283	0.08624	0.09907	0.00132	0.00003	—	0.14170
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	0.26048	1.75032	2.01081	0.02683	0.00065	—	2.87598
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	2.74480	18.6578	21.4026	0.28277	0.00687	—	30.5202

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	83.3407	0.00000	83.3407	8.32960	0.00000	—	291.581
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	—	2.10121	0.00000	2.10121	0.21001	0.00000	—	7.35144

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	17.3482	0.00000	17.3482	1.73389	0.00000	—	60.6954
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	102.790	0.00000	102.790	10.2735	0.00000	—	359.628
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	83.3407	0.00000	83.3407	8.32960	0.00000	—	291.581
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	—	2.10121	0.00000	2.10121	0.21001	0.00000	—	7.35144
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	17.3482	0.00000	17.3482	1.73389	0.00000	—	60.6954
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	102.790	0.00000	102.790	10.2735	0.00000	—	359.628

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	13.7980	0.00000	13.7980	1.37906	0.00000	—	48.2745
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	—	0.34788	0.00000	0.34788	0.03477	0.00000	—	1.21711
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	2.87219	0.00000	2.87219	0.28706	0.00000	—	10.0488
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	17.0181	0.00000	17.0181	1.70089	0.00000	—	59.5404

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.17928	0.17928

Recreati Swimming Pool	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00328	0.00328
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4.22860	4.22860
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4.41117	4.41117
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.17928	0.17928
Recreati onal Swimmi ng Pool	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00328	0.00328
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4.22860	4.22860
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4.41117	4.41117
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02968	0.02968
Recreati onal Swimmi ng Pool	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00054	0.00054

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.70009	0.70009
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.73032	0.73032

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e	
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
-----------------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
---------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Apartments Mid Rise	847.000	764.480	636.807	293,892	6,794.09	6,132.17	5,108.06	2,357,415
Recreational Swimming Pool	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
High Turnover (Sit Down Restaurant)	170.000	185.488	216.160	65,264.5	1,214.23	1,324.85	1,543.93	466,154
Enclosed Parking with Elevator	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

5.10. Operational Area Sources

5.10.1. Hearths

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
Apartments Mid Rise	Wood Fireplaces	0	0
Apartments Mid Rise	Gas Fireplaces	0	0
Apartments Mid Rise	Propane Fireplaces	0	0
Apartments Mid Rise	Electric Fireplaces	209	209
Apartments Mid Rise	No Fireplaces	0	0
Apartments Mid Rise	Conventional Wood Stoves	0	0

Apartments Mid Rise	Catalytic Wood Stoves	0	0
Apartments Mid Rise	Non-Catalytic Wood Stoves	0	0
Apartments Mid Rise	Pellet Wood Stoves	0	0
Recreational Swimming Pool	Wood Fireplaces	0	0
Recreational Swimming Pool	Gas Fireplaces	0	0
Recreational Swimming Pool	Propane Fireplaces	0	0
Recreational Swimming Pool	Electric Fireplaces	0	0
Recreational Swimming Pool	No Fireplaces	0	0
Recreational Swimming Pool	Conventional Wood Stoves	0	0
Recreational Swimming Pool	Catalytic Wood Stoves	0	0
Recreational Swimming Pool	Non-Catalytic Wood Stoves	0	0
Recreational Swimming Pool	Pellet Wood Stoves	0	0
High Turnover (Sit Down Restaurant)	Wood Fireplaces	0	0
High Turnover (Sit Down Restaurant)	Gas Fireplaces	0	0
High Turnover (Sit Down Restaurant)	Propane Fireplaces	0	0
High Turnover (Sit Down Restaurant)	Electric Fireplaces	0	0
High Turnover (Sit Down Restaurant)	No Fireplaces	0	0
High Turnover (Sit Down Restaurant)	Conventional Wood Stoves	0	0
High Turnover (Sit Down Restaurant)	Catalytic Wood Stoves	0	0
High Turnover (Sit Down Restaurant)	Non-Catalytic Wood Stoves	0	0
High Turnover (Sit Down Restaurant)	Pellet Wood Stoves	0	0
Enclosed Parking with Elevator	Wood Fireplaces	0	0
Enclosed Parking with Elevator	Gas Fireplaces	0	0
Enclosed Parking with Elevator	Propane Fireplaces	0	0
Enclosed Parking with Elevator	Electric Fireplaces	0	0
Enclosed Parking with Elevator	No Fireplaces	0	0
Enclosed Parking with Elevator	Conventional Wood Stoves	0	0
Enclosed Parking with Elevator	Catalytic Wood Stoves	0	0

Enclosed Parking with Elevator	Non-Catalytic Wood Stoves	0	0
Enclosed Parking with Elevator	Pellet Wood Stoves	0	0
Other Non-Asphalt Surfaces	Wood Fireplaces	0	0
Other Non-Asphalt Surfaces	Gas Fireplaces	0	0
Other Non-Asphalt Surfaces	Propane Fireplaces	0	0
Other Non-Asphalt Surfaces	Electric Fireplaces	0	0
Other Non-Asphalt Surfaces	No Fireplaces	0	0
Other Non-Asphalt Surfaces	Conventional Wood Stoves	0	0
Other Non-Asphalt Surfaces	Catalytic Wood Stoves	0	0
Other Non-Asphalt Surfaces	Non-Catalytic Wood Stoves	0	0
Other Non-Asphalt Surfaces	Pellet Wood Stoves	0	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
50,689.8	16,896.6	5,233.62	1,483.18	1,960.20

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00000
Summer Days	day/yr	250.000

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBtu/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBtu/yr)
Apartments Mid Rise	687,691	690.400	0.0489	0.0069	0.00000

Recreational Swimming Pool	10,150.8	690.400	0.0489	0.0069	0.00000
High Turnover (Sit Down Restaurant)	88,102.1	690.400	0.0489	0.0069	256,244
Enclosed Parking with Elevator	96,848.4	690.400	0.0489	0.0069	0.00000
Other Non-Asphalt Surfaces	0.00000	690.400	0.0489	0.0069	0.00000

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Mid Rise	7,790,224	128,884
Recreational Swimming Pool	40,453.9	0.00000
High Turnover (Sit Down Restaurant)	821,059	0.00000
Enclosed Parking with Elevator	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Mid Rise	154.638	0.00000
Recreational Swimming Pool	3.89880	0.00000
High Turnover (Sit Down Restaurant)	32.1895	0.00000
Enclosed Parking with Elevator	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088.00	0.00225	2.50000	2.50000	10.00000
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430.00	0.11538	0.60000	0.00000	1.000000
Recreational Swimming Pool	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
Recreational Swimming Pool	Stand-alone retail refrigerators and freezers	R-134a	1,430.00	0.03750	1.000000	0.00000	1.000000
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430.00	0.00000	0.60000	0.00000	1.000000
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088.00	1.80000	4.00000	4.00000	18.0000
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922.00	0.00040	7.50000	7.50000	20.0000

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	7.60000	annual days of extreme heat
Extreme Precipitation	5.70000	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00000	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about $\frac{3}{4}$ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2

Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	42.5638
AQ-PM	83.1114
AQ-DPM	98.3447
Drinking Water	92.5315
Lead Risk Housing	96.8242
Pesticides	0.00000
Toxic Releases	83.5709
Traffic	86.1375
Effect Indicators	—
CleanUp Sites	79.8059
Groundwater	0.00000

Haz Waste Facilities/Generators	43.6532
Impaired Water Bodies	0.00000
Solid Waste	70.4238
Sensitive Population	—
Asthma	43.5818
Cardio-vascular	41.4008
Low Birth Weights	90.9418
Socioeconomic Factor Indicators	—
Education	94.4698
Housing	97.1990
Linguistic	98.0647
Poverty	99.5729
Unemployment	—

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	2.45091749
Employed	1.116386501
Median HI	4.786346721
Education	—
Bachelor's or higher	8.777107661
High school enrollment	100
Preschool enrollment	28.17913512
Transportation	—
Auto Access	1.270370846
Active commuting	97.40793019

Social	—
2-parent households	29.74464263
Voting	7.468240729
Neighborhood	—
Alcohol availability	10.13730271
Park access	8.507635057
Retail density	51.81573207
Supermarket access	94.25125112
Tree canopy	30.41190812
Housing	—
Homeownership	5.094315411
Housing habitability	1.860644168
Low-inc homeowner severe housing cost burden	4.824842808
Low-inc renter severe housing cost burden	32.93981779
Uncrowded housing	0.628769408
Health Outcomes	—
Insured adults	2.887206467
Arthritis	19.5
Asthma ER Admissions	55.2
High Blood Pressure	9.1
Cancer (excluding skin)	85.3
Asthma	2.1
Coronary Heart Disease	6.2
Chronic Obstructive Pulmonary Disease	1.9
Diagnosed Diabetes	1.0
Life Expectancy at Birth	42.2
Cognitively Disabled	5.5
Physically Disabled	12.7

Heart Attack ER Admissions	80.0
Mental Health Not Good	0.7
Chronic Kidney Disease	5.2
Obesity	0.2
Pedestrian Injuries	98.6
Physical Health Not Good	0.3
Stroke	2.6
Health Risk Behaviors	—
Binge Drinking	91.0
Current Smoker	0.7
No Leisure Time for Physical Activity	1.5
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	53.3
Elderly	80.0
English Speaking	3.0
Foreign-born	73.0
Outdoor Workers	32.0
Climate Change Adaptive Capacity	—
Impervious Surface Cover	1.0
Traffic Density	97.2
Traffic Access	87.4
Other Indices	—
Hardship	99.3
Other Decision Support	—
2016 Voting	0.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	96.0000
Healthy Places Index Score for Project Location (b)	1.000000
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

8.1. Justifications

Screen	Justification
Land Use	Per Site Plan
Construction: Construction Phases	Per Project Schedule Off-Site utility undergrounding
Construction: Off-Road Equipment	PDF-AQ-1 Tier 4 Final equipment
Construction: Demolition	Demolition of existing on-site structures - approx 3532 tons Off-Site Utility Improvements - approx 415 tons of demo
Construction: Trips and VMT	Spoil export to 11211 W Gladstone Street, Azusa

Operations: Vehicle Data	Trip Rates per City VMT calculator. 100% trips primary. Weekend rates were adjusted based on the rate at which Project weekday rates differ from default value.
Operations: Hearths	No wood-burning or natural gas
Operations: Energy Use	Pool - electricity required for heating based on 0.496 kwh/gal/year Residential use - no natural gas

8.3. Land Use

Model Parameter	Units	Default Value	New Value
Lot Area	acre	5.50000	0.67000
Building Area	sq. ft	200,640	25,032.0
Landscape Area	sq. ft	—	7,519.00
Lot Area	acre	0.01570	0.00000
Landscape Area	sq. ft	—	0.00000
Lot Area	acre	0.06210	0.06000
Landscape Area	sq. ft	—	0.00000
Lot Area	acre	0.60230	0.60000
Landscape Area	sq. ft	—	0.00000

8.5. Operations

8.5.1. Mobile Sources

8.5.1.1. Vehicle Data

Land Use	Model Parameter	Units	Default Value	New Value
Apartments Mid Rise	Weekday Trip Rate	size/day	5.44000	4.05263
Apartments Mid Rise	Saturday Trip Rate	size/day	4.91000	3.65780
Apartments Mid Rise	Sunday Trip Rate	size/day	4.09000	3.04692
Recreational Swimming Pool	Weekday Trip Rate	size/day	28.8200	0.00000

Recreational Swimming Pool	Saturday Trip Rate	size/day	9.10000	0.00000
Recreational Swimming Pool	Sunday Trip Rate	size/day	13.6000	0.00000
High Turnover (Sit Down Restaurant)	Weekday Trip Rate	size/day	112.180	62.8466
High Turnover (Sit Down Restaurant)	Saturday Trip Rate	size/day	122.400	68.5721
High Turnover (Sit Down Restaurant)	Sunday Trip Rate	size/day	142.640	79.9112
High Turnover (Sit Down Restaurant)	Weekday Primary Trip	%	33.3500	100.0000
High Turnover (Sit Down Restaurant)	Weekday Divert Trip	%	23.6500	0.00000
High Turnover (Sit Down Restaurant)	Weekday Pass-By Trip	%	43.0000	0.00000

8.5.2. Area Sources

8.5.2.1. Hearths

Land Use	Model Parameter	Default Value	New Value
Apartments Mid Rise	Wood Fireplaces	10	0
Apartments Mid Rise	Gas Fireplaces	178	0
Apartments Mid Rise	Electric Fireplaces	0	209
Apartments Mid Rise	No Fireplaces	21	0
Apartments Mid Rise	Catalytic Wood Stoves	10	0
Apartments Mid Rise	Non-Catalytic Wood Stoves	10	0

8.5.3. Energy Usage

Land Use	Model Parameter	Units	Default Value	New Value
Apartments Mid Rise	Electricity	kWh/yr	686,250	687,691
Apartments Mid Rise	Natural Gas	kBTU/yr	2,074,400	0.00000
Apartments Mid Rise	Natural Gas (Subject to Title 24)	kBTU/yr	1,738,082	0.00000
Apartments Mid Rise	Natural Gas (Not Subject to Title 24)	kBTU/yr	336,318	0.00000
Recreational Swimming Pool	Electricity	kWh/yr	0.00000	10,150.8
Recreational Swimming Pool	Electricity (Subject to Title 24)	kWh/yr	0.00000	10,150.8

Appendix C

Mobile Source Energy Calculations

ITE Trip Generation

Operational Fuel

Total VMT 2,766,961

Vehicle Type	Percent ¹	Annual VMT ²	MPG ³	Annual Fuel (Gallons)	Fuel Type	Los Angeles Gallons (2030) ⁴	Los Angeles Percent	
Passenger Cars	0.94	2,597,681	24.8	104,745	Gas	3,171,276,372	0.00330%	
Light/Medium Trucks	0.05	143,340	18.1	7,919	Diesel	528,535,000	0.0015%	
Heavy Trucks/Other	0.01	25,940	7.3	3,553	Diesel	528,535,000	0.0007%	0.00217%
Total Trucks		169,280		11,473				
Total	1.00							

Fleet Mix -

Land Use	LDA	LDT1	LDT2	MCY	MDV	LHD1	LHD2	MHD	OBUS	UBUS	SBUS	MH	HHD
All	47.65571654	4.04000394	25.11526942	2.284980938	14.78612125	2.826326154	0.748960208	1.12801902	0.0814531	0.0611678	0.065404299	0.269084494	0.937491283

Notes:

¹ Percent of vehicle trip distribution based on fleet mix from CalEEMod

² Total annual operational VMT based on mitigated annual VMT from CalEEMod (5.9 Operational Mobile Sources).

³ Average fuel economy derived from US Energy Information Administration, Monthly Energy Review (Table 1.8), April 2024 (<https://www.eia.gov/totalenergy/data/monthly/pdf/mer.pdf>)

⁴ Total annual county fuel per EMFAC 2021 model of projected operational fuel usage in 2030 - first operational year of Project

LADOT VMT Calculator

Operational Fuel

Total VMT 2,823,568

Vehicle Type	Percent ¹	Annual VMT ²	MPG ³	Annual Fuel (Gallons)	Fuel Type	Los Angeles Gallons (2030) ⁴	Los Angeles Percent	
Passenger Cars	0.94	2,650,825	24.8	106,888	Gas	3,171,276,372	0.00337%	
Light/Medium Trucks	0.05	146,273	18.1	8,081	Diesel	528,535,000	0.0015%	
Heavy Trucks/Other	0.01	26,471	7.3	3,626	Diesel	528,535,000	0.0007%	0.00222%
Total Trucks		172,743		11,707				
Total	1.00							

Fleet Mix -

Land Use	LDA	LDT1	LDT2	MCY	MDV	LHD1	LHD2	MHD	OBUS	UBUS	SBUS	MH	HHD
Condo/Townhouse	47.65571654	4.04000394	25.11526942	2.284980938	14.78612125	2.826326154	0.748960208	1.12801902	0.0814531	0.0611678	0.065404299	0.269084494	0.937491283

Notes:

¹ Percent of vehicle trip distribution based on fleet mix from CalEEMod

² Total annual operational VMT based on mitigated annual VMT from CalEEMod (5.9 Operational Mobile Sources).

³ Average fuel economy derived from US Energy Information Administration, Monthly Energy Review (Table 1.8), April 2024 (<https://www.eia.gov/totalenergy/data/monthly/pdf/mer.pdf>)

⁴ Total annual county fuel per EMFAC 2021 model of projected operational fuel usage in 2030 - first operational year of Project

Appendix D

Traffic Noise Calculations

FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels

Project Name: 3822 Figueroa
Project Number:
Scenario: Existing
Ldn/CNEL: CNEL

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

#	Roadway	Segment	Lanes	Median Width	ADT Volume	Speed (mph)	Alpha Factor	Vehicle Mix		Distance from Centerline of Roadway				
								Medium Trucks	Heavy Trucks	CNEL at 50 Feet	Distance to Contour			
										70 CNEL	65 CNEL	60 CNEL	55 CNEL	
1	38th Street	between Figueroa St and Flower St	2	0	1,102	25	0	2.0%	1.0%	51.8	-	-	-	-
2	Flower Drive	between 38th St and 39th St	2	0	904	25	0	2.0%	1.0%	50.9	-	-	-	-
3	39th St	between Figueroa St and Flower Dr	4	12	11,428	35	0	2.0%	1.0%	64.8	-	-	151	478
4	Figueroa St	between Flower and 39th St	4	12	36,141	35	0	2.0%	1.0%	69.8	-	151	478	1,511

¹ Distance is from the centerline of the roadway segment to the receptor location.
 "-" = contour is located within the roadway right-of-way.

FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels

Project Name: 3822 Figueroa
Project Number:
Scenario: Existing Plus Project
Ldn/CNEL: CNEL

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

#	Roadway	Segment	Lanes	Median Width	ADT Volume	Speed (mph)	Alpha Factor	Vehicle Mix		Distance from Centerline of Roadway				
								Medium Trucks	Heavy Trucks	CNEL at 50 Feet	Distance to Contour			
										70 CNEL	65 CNEL	60 CNEL	55 CNEL	
1	38th Street	between Figueroa St and Flower St	2	0	1,791	25	0	2.0%	1.0%	53.9	-	-	-	39
2	Flower Drive	between 38th St and 39th St	2	0	1,689	25	0	2.0%	1.0%	53.6	-	-	-	37
3	39th St	between Figueroa St and Flower Dr	4	12	12,157	35	0	2.0%	1.0%	65.1	-	51	161	508
4	Figueroa St	between Flower and 39th St	4	12	36,536	35	0	2.0%	1.0%	69.8	-	153	483	1,527

¹ Distance is from the centerline of the roadway segment to the receptor location.
 "-" = contour is located within the roadway right-of-way.

FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels

Project Name: 3822 Figueroa
Project Number:
Scenario: Opening Year
Ldn/CNEL: CNEL

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

#	Roadway	Segment	Lanes	Median Width	ADT Volume	Speed (mph)	Alpha Factor	Vehicle Mix		Distance from Centerline of Roadway				
								Medium Trucks	Heavy Trucks	CNEL at 50 Feet	Distance to Contour			
										70 CNEL	65 CNEL	60 CNEL	55 CNEL	
1	38th Street	between Figueroa St and Flower St	2	0	1,135	25	0	2.0%	1.0%	51.9	-	-	-	-
2	Flower Drive	between 38th St and 39th St	2	0	931	25	0	2.0%	1.0%	51.1	-	-	-	-
3	39th St	between Figueroa St and Flower Dr	4	12	11,774	35	0	2.0%	1.0%	64.9	-	-	156	492
4	Figueroa St	between Flower and 39th St	4	12	37,237	35	0	2.0%	1.0%	69.9	-	156	492	1,557

¹ Distance is from the centerline of the roadway segment to the receptor location.

"-" = contour is located within the roadway right-of-way.

FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels

Project Name: 3822 Figueroa
Project Number:
Scenario: Opening Year Plus Project
Ldn/CNEL: CNEL

Assumed 24-Hour Traffic Distribution:

	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

#	Roadway	Segment	Lanes	Median Width	ADT Volume	Speed (mph)	Alpha Factor	Vehicle Mix		Distance from Centerline of Roadway				
								Medium Trucks	Heavy Trucks	CNEL at 50 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL
1	38th Street	between Figueroa St and Flower St	2	0	1,824	25	0	2.0%	1.0%	54.0	-	-	-	39
2	Flower Drive	between 38th St and 39th St	2	0	1,716	25	0	2.0%	1.0%	53.7	-	-	-	37
3	39th St	between Figueroa St and Flower Dr	4	12	12,503	35	0	2.0%	1.0%	65.2	-	52	165	523
4	Figueroa St	between Flower and 39th St	4	12	37,632	35	0	2.0%	1.0%	70.0	-	157	497	1,573

¹ Distance is from the centerline of the roadway segment to the receptor location.
 "-" = contour is located within the roadway right-of-way.