
Appendix A1

Pro Forma Advisors LLC Analysis and Land Use Categories

To: **Dudek**
From: **Pro Forma Advisors**
Date: **February 24, 2026**
re: **Mixed-Use Tenant Allocation**

Summary

A review of representative Southern California corridor mixed-use projects indicates that ground-floor retail in 0.75–1.25-acre infill podium developments is predominantly occupied by food & beverage and service-oriented tenants, with traditional soft-goods retail comprising a relatively small share. Across five case studies, the prevailing tenant mix generally falls within the following ranges of ground floor area:

- Food & Beverage: 30–45%
- Personal Services (salon, fitness, tutoring, etc.): 20–30%
- Medical / Wellness / Dental: 10–20%
- Specialty Retail Goods: 5–15%
- Office / Financial / Other: 5–10%

This mix reflects structural shifts in corridor retail demand, where experiential and service-based uses dominate small-format mixed-use environments. The findings support the assumption used in the La Puente redevelopment prototype that 8–15% commercial allocation per project is market-aligned.

Benchmarks

Across the five Southern California corridor case studies reviewed (North Hollywood, Monrovia, Glendora, Anaheim, and Long Beach) a consistent tenant pattern emerges in ground-floor retail within mixed-use infill developments. Food and beverage uses represent the dominant category, typically accounting for approximately 30 to 45 percent of occupied retail space. These include quick-service restaurants, coffee shops, bakeries, and small casual dining concepts. Personal services (e.g., salons, tutoring centers, small fitness studios, and similar neighborhood-serving businesses) generally comprise an additional 20 to 30 percent of the ground-floor tenant mix. Medical and wellness uses, including dental, physical therapy, and small-format clinics, typically account for 10 to 20 percent of space, particularly in suburban corridor environments.

Traditional merchandise-oriented retail (e.g., apparel, electronics, general goods) represents a comparatively small share of ground-floor occupancy in these mixed-use environments, often in the range of 5 to 20 percent depending on the corridor context. Office and financial tenants, including small professional offices or insurance agencies, generally account for 10 percent or less of space. Overall, the regional pattern demonstrates that contemporary corridor-based mixed-use development is overwhelmingly service-oriented and food-driven.

Benchmarks

Category	NoHo West (North Hollywood)	Downtown Monrovia (Myrtle Ave)	Downtown Glendora (Route 66)	Anaheim (Harbor Blvd)	Long Beach (4th St / Retro Row)
Corridor Context	Major corridor redevelopment	Historic main street infill	Suburban corridor infill	Regional arterial mixed-use	Urban neighborhood corridor
Typical Scale (Acres)	Larger master site	0.5–1.25	0.75–1.5	0.8–1.5	0.4–1.0
Allocation (% of Project GFA)					
Food & Beverage	35–40%	~40%	35–45%	30–40%	~40%
Personal Services	20–25%	20–25%	~25%	20–30%	~20%
Medical / Wellness	15–20%	10–15%	10–15%	10–15%	10–15%
Specialty Retail	10–15%	~15%	~10%	10–15%	15–20%
Office / Financial	5–10%	5–10%	Balance	5–10%	Balance

Recommended Planning

The recommended tenant allocation closely mirrors the patterns observed across comparable Southern California mixed-use corridor developments. In the five case studies reviewed Food & Beverage consistently represented the largest category, generally ranging between 30% and 45% of ground-floor retail. A 40% allocation therefore sits within the regional norm and reflects the strong demand for neighborhood-serving dining uses in mixed-use environments.

The 30% allocation to Specialty Retail / Personal Services also aligns with the documented 20–30% range observed across corridor infill projects. In practice, this category often includes salons, tutoring centers, small-format service retail, and boutique goods. The 10% allocations for Fitness and Medical are consistent with the 10–20% range seen in suburban and transit-adjacent corridors, where wellness-oriented tenants and small clinics increasingly occupy ground-floor space. Similarly, the 10% Office / Financial share reflects the modest but consistent presence of small professional and service-oriented office tenants observed in the benchmark markets.

Overall, the recommended mix should reflect a normalized distribution consistent with comparable Southern California infill projects. The allocation prioritizes service-based and experiential uses that have demonstrated absorption strength in mixed-use settings, while limiting exposure to traditional merchandise retail categories that have shown weaker performance in corridor redevelopment environments. The selected CalEEMod Land Use Categories were selected to most closely align with the general tenant category.

Recommended Tenant Allocation and Land Use Categories

Category	Share	CalEEMod Land Use Categories
Food & Beverage	40%	Fast Food Restaurant w/o Drive Thru
Specialty Retail Goods (Personal Services / Other)	30%	Strip Mall
Fitness	10%	Health Club
Medical	10%	Medical Office Building
Office / Financial	10%	General Office Building

To: **Dudek**
From: **Pro Forma Advisors**
Date: **January 22, 2026**
re: **Fiscal Impact Analysis of La Puente Mixed-Use Places Project Build Out**

Introduction

The following provides a high-level review of the fiscal impacts of the C2 opportunity sites based on the buildout assumption as documented in the December 9, 2025, Pro Forma Advisors memo¹ as part of the La Puente Mixed-Use Places Project (Project). C2 opportunity sites include those identified in the City's Housing Element and the C2 sites that meet the identified redevelopment criteria. The purpose of this analysis is to evaluate how the Project's will impact the City of La Puente (City)'s long-term fiscal sustainability. All impacts are assumed to take place in a single year and their potential impacts on the City's General Fund based on the budget for the fiscal year ended June 30, 2025.

Summary Findings

Based on the analysis, at buildout, the development is estimated to generate total annual General Fund revenues of approximately \$2.8 million and City expenditures of approximately \$2.6 million. In total, this yields a fiscal impact of approximately \$168,000 in net revenue contributions to the City's General Fund, which represents the incremental difference between the status quo and development scenario, not a standalone project surplus. In addition to the positive contribution to the General Fund described above, the mixed-use development will generate fiscal revenue benefits to other City funds and taxing entities.

Methodology

Pro Forma Advisors estimated the potential fiscal revenue impacts to the City's General Fund, its source of discretionary funding. Several important assumptions have been made in this report. These assumptions include the following:

- The analysis results present net fiscal impacts to the City assuming full build-out of the C2 opportunity sites at a year of stabilized project occupancy.²
- All values are presented in current dollars.
- This fiscal impact analysis is based on the City's fiscal year 2024-2025 Adopted Budget.

¹ Attached as an appendix to this memo.

² Net fiscal impacts is defined as the development tax revenues created minus the municipal costs (as defined as specifically coming from the city's General Fund) to service the development. Timing, absorption, and phasing could materially affect near-term versus long-term fiscal outcomes.

Special models are used to calculate major revenue streams, such as property taxes and sales taxes, while a proportional approach is used to allocate revenues that are expected to increase proportionally with new development. Under the proportional method, Pro Forma Advisors calculates pro rata (per unit) factors under existing conditions. Pro rata factors are then applied to the incremental development of the development program at build-out. In this case, we have primarily utilized a pro rata factor called the equivalent dwelling unit, or EDU. The EDU calculation incorporates a variety of inputs to establish a factor that represents the City's population (resident households) and in-place³ employment (jobs). The categories are adjusted to reflect their estimated "equivalency" to the City's total service-demanding population based on their respective effect on the General Fund. In this instance, the assumption is that people working in the City require 30 percent of the total services of residents. Using a similar methodology described above, Pro Forma Advisors estimates the development's EDU that will be applied to specific revenues categories.

As described above, pro rata factors are used to determine many General Fund revenues. To estimate fiscal impacts not accounted for using the proportional EDU approach described above, we have created special models to estimate the Project's fiscal benefit to the City. Such models were developed for the following revenue streams:

- Property Tax;
- Motor Vehicle License In-Lieu Fees; and
- Sales Tax.

In some instances, we have not estimated revenues as the revenue sources were not related to the development (e.g. investment income).

A similar methodology was used to determine the development's impact on General Fund Expenditures. However, in this instance the total expenditures were adjusted to acknowledge that new development will not always have a 100 percent impact on expenditures due to capacity to accommodate growth through existing public services. No special models were developed to estimate the additional costs of municipal services, rather all impacts were based on adjusted EDU ratios.

³ "in place" employment refers to those individuals that work in the City but live outside of the City.

To: **Dudek**

From: **Pro Forma Advisors**

Date: **December 9, 2025**

re: **Buildout Assumptions for Fiscal Impact Analysis - Market Based**

The following provides a high-level review of the methodology used to arrive at a market based buildout assumption for the sites identified in the Housing Element and the C2 sites that meet the identified redevelopment criteria. The purpose of this exercise is to vet development assumptions that will be used to evaluate how the new mixed-use code will impact the City's long-term fiscal sustainability. Pro Forma will use, pending the City's approval, the following 20-year projections to act as key inputs to the fiscal impact model.

Hypothetical Development Prototype

Given that the analysis is not site specific, the table below provides a framework for determining a "hypothetical" mixed-use development that will be used to extrapolate the residential market absorption estimates as provided in "Existing Economic Conditions Report La Puente Mixed Use Development of Underutilized Commercial Zones."

Development Parcel

	Ref.	Assumption	Calc.	Notes
Housing Element and Identified C2 Parcels (Sites)	A	159		<i>Assessor Parcel Data</i>
Built Space (SF)	B	1,469,184		<i>Assessor Parcel Data</i>
Total Land Area (SF)	C	5,444,538		<i>Assessor Parcel Data</i>
Total Land Area (Acres)	D	125	C / 43,560	
Average Built Space per Parcel (SF)	E	9,240	B / A	
Average Parcel Size (Acre)	F	0.8	D / A	
Average Parcel Size (SF)	E	34,242	F x 43,560	

Based on the most likely redevelopment scenario, the following provides a hypothetical mixed-use development that could be accommodated on the hypothetical development parcel.

Mixed-Use Development (3 Stories over Podium @ 30 Dwelling Units Per Acre)

	Ref.	Assumption	Calc.	Notes
Site Size (SF)	A	34,242		<i>Average Parcel Size</i>
Development Floorplate (SF)	B	25,000		<i>Pro Forma Estimate</i>
Site Coverage	C	73%	B / A	
Max Allowable Dwelling Units per Acre	D	30		
Gross Floor Area (GFA) per Unit (SF)	E	1,500		<i>Industry Standard</i>
State Density Bonus Lower-Income Level	F	15%		<i>Inclusionary Housing Research</i>
Additional Units	G	4	D x F	<i>Rounded Down</i>
State Density Bonus	H	35%		<i>Inclusionary Housing Research</i>
Additional Market Rate Units	I	10	D x H	<i>Rounded Down</i>
Total Units	J	40	D + I	
Total Residential GFA	K	60,000	E x J	
Typical Commercial Space (SF)	L	8,000		<i>Pro Forma Estimate</i>
Total Project GFA (SF)	M	68,000		
Percent of Commercial Space	N	12%	L / M	<i>Observed Range between 8 - 15%</i>

Development Absorption

As noted in the previous analysis, Pro Forma Advisors estimates that a target development of 60 - 100, on average, per year over the next 10-years. Taking a midpoint estimate of 80 units per year, over a 20 year planning horizon 1,600 new units could be developed. While in actuality not all units will be mixed-use development, to understand the total potential impact on the designated parcels the following calculations have been made.

Realistic Development Estimate (20-Years)

	Ref.	Assumption	Calc.	Notes
Dwelling Units per Mixed-Use Development	A	40		<i>Previous Calculation</i>
Average Dwelling Units Delivered Per year	B	80		
Parcels Developed Per Year	C	2	B / A	
Parcels Developed Planning Horizon	D	40	C x 20	<i>20-Year Planning</i>
Lost Commercial Space	E	-369,606	D x 9,240	<i>Assessor Parcel Data</i>
New Commercial Space	F	320,000	D x 8,000	<i>Pro Forma Estimate</i>
Net Commercial Space	G	-49,606	E + F	

Conclusion

For the purposes of the fiscal impact analysis, the parcels average ~9,240 square feet of commercial building area, which exceeds the 8,000 SF delivered under the mixed-use prototype. As a result, over a 20-year horizon, with strong redevelopment activity (~40 redeveloped parcels), the City would experience a net loss of approximately 49,600 square feet of commercial space. This reduction occurs because new mixed-use development replaces older commercial buildings with smaller, more flexible retail footprints. While this will be tested in the fiscal impact analysis, the City should view this not as a retail contraction, but as an intentional rebalancing where underutilized commercial properties evolve and improve the fiscal base through enhanced property values and higher-performing retail development (e.g., higher sales per square foot).

Pending any requested revisions in assumptions, Pro Forma will use the analysis as inputs to the fiscal impact analysis as noted below.

Fiscal Impact Assumptions (20-Years)

	Ref.	Assumption	Calc.	Notes
Development Review (Market vs. Affordable)				
Market Rate Units (per Development)	A	36		<i>Previous Calculation</i>
Affordable Units (per Development)	B	4		<i>Previous Calculation</i>
Units per Development	C	40	A + B	
Units Per Year	D	80		<i>Previous Calculation</i>
Parcels Developed Per Year	E	2	D / 2	
Fiscal Impact Assumptions				
Market Rate Units (20-years)	F	1,440	(A x E) x 20 Years	
Affordable Units (20-Years)	G	160	(B x E) x 20 Years	
Lost Commercial Space	H	-369,606		<i>Previous Calculation</i>
New Commercial Space	I	320,000		<i>Previous Calculation</i>
Net Commercial Space	J	-49,606		<i>Previous Calculation</i>

Land Use Categories

1 Existing Conditions w FF

Residential Category	Share	Units	Building Square Feet (SF)	CalEEMod Land Use Categories	Landscaping Area (SF) ¹
Residential	100%	12	39,229	Single Family	140554
Non-Residential	8%		108,345	Automobile Care Center	10,835
Non-Residential	1%		10,096	Bank	1,010
Non-Residential	5%		72,351	Day Care Center	7,235
Non-Residential	1%		17,273	Gasoline Service Station	1,727
Non-Residential	5%		68,817	General Office Building	6,882
Non-Residential	2%		27,280	Government Office	2,728
Non-Residential	1%		7,314	Motel	731
Non-Residential	6%		85,905	Sit Down Restuarant	8,590
Non-Residential	60%		831,300	Strip Mall	83,130
* Non-Residential*	11%	15%	146,700	Fast Food Restaurant w/o Drive Thru	14,670

* Fast Food Restaurant w/o Drive Thru = 15% of Strip Mall SF

1 Proposed Conditions

Residential Category	Share	Units	Building Square Feet (SF)	CalEEMod Land Use Categories	Landscaping Area (SF) ¹
Residential	100%	12	39,229	Single Family	140,554
Residential	100%	3,128	3,002,880	Apartments Mid-Rise	300,288
Non-Residential			108,345	Automobile Care Center	10,835
Non-Residential			10,096	Bank	1,010
Non-Residential			72,351	Day Care Center	7,235
Non-Residential			17,273	Gasoline Service Station	1,727
Non-Residential			68,817	General Office Building	6,882
Non-Residential			27,280	Government Office	2,728
Non-Residential			7,314	Motel	731
Non-Residential			85,905	Sit Down Restuarant	8,590
Non-Residential			517,134	Strip Mall	51,713
Non-Residential*			91,259	Fast Food Restaurant w/o Drive Thru	9,126
Food & Beverage	20%		64,000	Fast Food Restaurant w/o Drive Thru	6,400
	20%		64,000	Sit Down Restaurant	6,400
Personal Services	25%		80,000	Health Club	8,000
Specialty Retail Goods (Other)	15%		48,000	Strip Mall	4,800
Medical / Wellness	10%		32,000	Medical Office Building	3,200
Office / Financial	10%		32,000	General Office Building	3,200
Total	100%		1,325,775		
			320,000		
			-49,606		

Appendix A2

CalEEMod Emissions Analysis and Supporting Information

Reduced Trip Rates for New Commercial based on Mix-use Apartments in Close Proximity

Table 1. Default CalEEMod Values

		Weekday	Sat	Sun
Health Club	80	32.93000031	20.87000084	26.72999954
Strip Mall	48	44.31999969	42.04000092	20.43000031
Medical Office Building	32	34.79999924	8.569999695	1.419999957
General Office Building	32	9.739999771	2.210000038	0.699999988
Fast Food Restaurant w/o Drive Thru	64	346.230011	696	500
High Turnover (Sit Down Restaurant)	64	112.1800003	122.4000015	142.6399994

Table 2. Adjusted CalEEMod Values based on Mix-Use Reduction Factor of 20%

		Weekday	Sat	Sun
Health Club	80	26.344	16.696	21.384
Strip Mall	48	35.456	33.632	16.344
Medical Office Building	32	27.840	6.856	1.136
General Office Building	32	7.792	1.768	0.560
Fast Food Restaurant w/o Drive Thru	64	276.984	556.800	400.000
High Turnover (Sit Down Restaurant)	64	89.744	97.920	114.112

Land Use Pairs	Weekday		Proximity Adjustment		
	AM Peak Hour	PM Peak Hour	AM	PM	
To OFFICE	From Office	0%	0%	1.000	1.000
	From Retail	4%	31%	1.000	1.000
	From Restaurant	14%	30%	1.000	1.000
	From Cinema/Entertainment	0%	6%	1.000	1.000
	From Residential	3%	57%	1.000	1.000
	From Hotel	3%	0%	1.000	1.000
To RETAIL	From Office	32%	8%	1.000	1.000
	From Retail	0%	0%	1.000	1.000
	From Restaurant	8%	50%	1.000	1.000
	From Cinema/Entertainment	0%	4%	1.000	1.000
	From Residential	17%	10%	1.000	1.000
	From Hotel	4%	2%	1.000	1.000
To RESTAURANT	From Office	23%	2%	1.000	1.000
	From Retail	50%	29%	1.000	1.000
	From Restaurant	0%	0%	1.000	1.000
	From Cinema/Entertainment	0%	3%	1.000	1.000
	From Residential	20%	14%	1.000	1.000
	From Hotel	6%	5%	1.000	1.000
To CINEMA/ENTERTAINMENT	From Office	0%	1%	1.000	1.000
	From Retail	0%	26%	1.000	1.000
	From Restaurant	0%	32%	1.000	1.000
	From Cinema/Entertainment	0%	0%	1.000	1.000
	From Residential	0%	0%	1.000	1.000
	From Hotel	0%	0%	1.000	1.000
To RESIDENTIAL	From Office	0%	4%	1.000	1.000
	From Retail	2%	46%	1.000	1.000
	From Restaurant	5%	16%	1.000	1.000
	From Cinema/Entertainment	0%	4%	1.000	1.000
	From Residential	0%	0%	1.000	1.000
	From Hotel	0%	0%	1.000	1.000
To HOTEL	From Office	0%	0%	1.000	1.000
	From Retail	0%	17%	1.000	1.000
	From Restaurant	4%	71%	1.000	1.000
	From Cinema/Entertainment	0%	1%	1.000	1.000
	From Residential	0%	12%	1.000	1.000
	From Hotel	0%	0%	1.000	1.000

	PM	%	
From Residential			
To Office	57	20	11.4
To Retail	10	40	4
To Restaurant	14	40	5.6
	Weighted Averag		21
To Residential			
From Office	4	20	0.8
From Retail	46	40	18.4
From Restaurant	16	40	6.4
	Weighted Averag		25.6

La Puente Operation Existing with FF Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	La Puente Operation Existing with FF
Operational Year	2025
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	1.80000
Precipitation (days)	22.4000
Location	La Puente, CA, USA
County	Los Angeles-South Coast
City	La Puente
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5072
EDFZ	7
Electric Utility	Southern California Edison
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
Automobile Care Center	108.345	1000sqft	2.48726	108,345	10,835.0	0.00000	—	—

Bank (with Drive-Through)	10.0960	1000sqft	0.23177	10,096.0	1,010.00	0.00000	—	—
Day-Care Center	72.3510	1000sqft	1.66095	72,351.0	7,235.00	0.00000	—	—
Gasoline/Service Station	30.0000	Pump	0.09723	17,273.0	1,727.00	0.00000	—	—
General Office Building	68.8170	1000sqft	1.57982	68,817.0	6,882.00	0.00000	—	—
Single Family Housing	12.0000	Dwelling Unit	3.89610	39,229.0	140,554	0.00000	36.0000	—
Government Office Building	27.2800	1000sqft	0.62626	27,280.0	2,728.00	0.00000	—	—
Motel	32.0000	Room	1.44000	7,314.00	731.000	0.00000	—	—
High Turnover (Sit Down Restaurant)	85.9050	1000sqft	1.97211	85,905.0	8,590.00	0.00000	—	—
Strip Mall	831.300	1000sqft	19.0840	831,300	83,130.0	0.00000	—	—
Fast Food Restaurant w/o Drive Thru	146.700	1000sqft	3.36777	146,700	14,670.0	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.	751.650	674.705	567.086	6,503.78	15.4780	11.6851	1,398.48	1,410.17	10.9603	355.211	366.171	2,711.30	1,607,767	1,610,478	333.227	59.7306	6,211.54	1,642,820

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	732.879	656.198	620.216	5,840.01	14.8151	11.5848	1,398.48	1,410.07	10.8858	355.211	366.097	2,711.30	1,540,833	1,543,545	335.671	62.8115	532.389	1,571,187
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	523.949	472.363	423.260	4,054.22	9.85142	7.49953	902.469	909.969	7.02944	229.277	236.307	2,606.59	1,034,140	1,036,746	312.074	42.4355	2,029.43	1,059,223
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	95.6206	86.2062	77.2450	739.895	1.79788	1.36866	164.701	166.069	1.28287	41.8431	43.1260	431.552	171,214	171,645	51.6674	7.02567	335.995	175,367

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	702.394	627.238	555.001	6,427.72	15.3908	9.86053	1,398.48	1,408.34	9.17741	355.211	364.388	—	1,573,706	1,573,706	69.2135	58.6974	5,830.32	1,598,759
Area	48.0091	46.8438	0.75934	66.5915	0.01917	0.96333	—	0.96333	0.92167	—	0.92167	112.403	462.573	574.976	0.34551	0.00620	—	585.461
Energy	1.24657	0.62329	11.3251	9.46491	0.06799	0.86127	—	0.86127	0.86127	—	0.86127	—	32,502.3	32,502.3	2.99326	0.24323	—	32,649.6
Water	—	—	—	—	—	—	—	—	—	—	—	316.532	1,096.04	1,412.58	32.5605	0.78374	—	2,460.14
Waste	—	—	—	—	—	—	—	—	—	—	—	2,282.36	0.00000	2,282.36	228.114	0.00000	—	7,985.22
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	381.220	381.220
Total	751.650	674.705	567.086	6,503.78	15.4780	11.6851	1,398.48	1,410.17	10.9603	355.211	366.171	2,711.30	1,607,767	1,610,478	333.227	59.7306	6,211.54	1,642,820
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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Mobile	694.322	618.606	608.642	5,824.44	14.7315	9.86683	1,398.48	1,408.35	9.18344	355.211	364.394	—	1,507,020	1,507,020	71.6683	61.7804	151.169	1,527,374
Area	37.3095	36.9686	0.24898	6.10262	0.01557	0.85668	—	0.85668	0.84109	—	0.84109	112.403	214.770	327.173	0.33511	0.00407	—	336.765
Energy	1.24657	0.62329	11.3251	9.46491	0.06799	0.86127	—	0.86127	0.86127	—	0.86127	—	32,502.3	32,502.3	2.99326	0.24323	—	32,649.6
Water	—	—	—	—	—	—	—	—	—	—	—	316.532	1,096.04	1,412.58	32.5605	0.78374	—	2,460.14
Waste	—	—	—	—	—	—	—	—	—	—	—	2,282.36	0.00000	2,282.36	228.114	0.00000	—	7,985.22
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	381.220	381.220
Total	732.879	656.198	620.216	5,840.01	14.8151	11.5848	1,398.48	1,410.07	10.8858	355.211	366.097	2,711.30	1,540,833	1,543,545	335.671	62.8115	532.389	1,571,187
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	481.302	430.927	411.569	4,002.91	9.77989	6.50653	902.469	908.976	6.05537	229.277	235.333	—	1,000,357	1,000,357	48.3761	41.4068	1,648.21	1,015,554
Area	41.4005	40.8126	0.36661	41.8487	0.00353	0.13172	—	0.13172	0.11280	—	0.11280	7.69884	184.438	192.137	0.03007	0.00173	—	193.406
Energy	1.24657	0.62329	11.3251	9.46491	0.06799	0.86127	—	0.86127	0.86127	—	0.86127	—	32,502.3	32,502.3	2.99326	0.24323	—	32,649.6
Water	—	—	—	—	—	—	—	—	—	—	—	316.532	1,096.04	1,412.58	32.5605	0.78374	—	2,460.14
Waste	—	—	—	—	—	—	—	—	—	—	—	2,282.36	0.00000	2,282.36	228.114	0.00000	—	7,985.22
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	381.220	381.220
Total	523.949	472.363	423.260	4,054.22	9.85142	7.49953	902.469	909.969	7.02944	229.277	236.307	2,606.59	1,034,140	1,036,746	312.074	42.4355	2,029.43	1,059,223
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	87.8375	78.6441	75.1113	730.531	1.78483	1.18744	164.701	165.888	1.10510	41.8431	42.9482	—	165,621	165,621	8.00921	6.85536	272.880	168,137
Area	7.55560	7.44830	0.06691	7.63739	0.00064	0.02404	—	0.02404	0.02059	—	0.02059	1.27463	30.5358	31.8105	0.00498	0.00029	—	32.0205
Energy	0.22750	0.11375	2.06682	1.72735	0.01241	0.15718	—	0.15718	0.15718	—	0.15718	—	5,381.13	5,381.13	0.49557	0.04027	—	5,405.52
Water	—	—	—	—	—	—	—	—	—	—	—	52.4055	181.463	233.868	5.39076	0.12976	—	407.305
Waste	—	—	—	—	—	—	—	—	—	—	—	377.871	0.00000	377.871	37.7669	0.00000	—	1,322.04
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	63.1153	63.1153
Total	95.6206	86.2062	77.2450	739.895	1.79788	1.36866	164.701	166.069	1.28287	41.8431	43.1260	431.552	171,214	171,645	51.6674	7.02567	335.995	175,367

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	10.6198	9.47625	8.43830	97.8078	0.23459	0.15019	21.3206	21.4708	0.13978	5.41539	5.55517	—	23,986.4	23,986.4	1.05058	0.89267	88.8865	24,367.6
Bank (with Drive-Through)	3.54113	3.26643	2.12242	23.4296	0.05047	0.03389	4.51443	4.54832	0.03153	1.14665	1.17818	—	5,160.99	5,160.99	0.28985	0.22112	18.8208	5,252.95
Day-Care Center	12.0663	11.1332	7.21341	79.5873	0.17121	0.11506	15.3126	15.4277	0.10702	3.88937	3.99639	—	17,509.2	17,509.2	0.98604	0.75139	63.8389	17,821.6
Gasoline/Service Station	45.1670	40.3033	35.8888	415.985	0.99772	0.63875	90.6786	91.3174	0.59451	23.0321	23.6266	—	102,016	102,016	4.46821	3.79663	378.042	103,637
General Office Building	2.76980	2.47154	2.20083	25.5097	0.06118	0.03917	5.56073	5.59990	0.03646	1.41241	1.44887	—	6,255.99	6,255.99	0.27401	0.23282	23.1829	6,355.41
Single Family Housing	0.43481	0.39444	0.30365	3.44870	0.00792	0.00517	0.71588	0.72105	0.00481	0.18183	0.18664	—	810.360	810.360	0.03935	0.03192	2.98454	823.840
Government Office Building	2.54656	2.27234	2.02345	23.4536	0.05625	0.03601	5.11255	5.14856	0.03352	1.29857	1.33209	—	5,751.78	5,751.78	0.25192	0.21406	21.3144	5,843.18
Motel	0.44298	0.39528	0.35199	4.07985	0.00979	0.00626	0.88935	0.89561	0.00583	0.22589	0.23172	—	1,000.54	1,000.54	0.04382	0.03724	3.70772	1,016.44

High Turnover (Sit Down Restaurant)	50.6353	45.1828	40.2338	466.347	1.11851	0.71609	101.657	102.373	0.66648	25.8206	26.4871	—	114,367	114,367	5.00916	4.25627	423.811	116,185
Strip Mall	152.248	135.853	120.973	1,402.19	3.36308	2.15309	305.657	307.810	2.00395	77.6361	79.6400	—	343,874	343,874	15.0613	12.7976	1,274.29	349,338
Fast Food Restaurant w/o Drive Thru	421.923	376.489	335.251	3,885.88	9.32008	5.96684	847.064	853.031	5.55353	215.152	220.706	—	952,974	952,974	41.7393	35.4657	3,531.44	968,117
Total	702.394	627.238	555.001	6,427.72	15.3908	9.86053	1,398.48	1,408.34	9.17741	355.211	364.388	—	1,573,706	1,573,706	69.2135	58.6974	5,830.32	1,598,759
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	10.4979	9.34611	9.25422	88.5731	0.22454	0.15028	21.3206	21.4709	0.13987	5.41539	5.55526	—	22,969.7	22,969.7	1.08743	0.93955	2.30465	23,279.1
Bank (with Drive-Through)	3.49813	3.21761	2.32237	22.0193	0.04835	0.03393	4.51443	4.54836	0.03156	1.14665	1.17822	—	4,946.83	4,946.83	0.30599	0.23285	0.48799	5,024.35
Day-Care Center	11.9197	10.9667	7.89278	74.8271	0.16403	0.11518	15.3126	15.4278	0.10714	3.88937	3.99651	—	16,782.9	16,782.9	1.04111	0.79124	1.65522	17,046.3
Gasoline/Service Station	44.6487	39.7498	39.3590	376.709	0.95497	0.63916	90.6786	91.3178	0.59489	23.0321	23.6270	—	97,692.0	97,692.0	4.62495	3.99600	9.80190	99,008.2
General Office Building	2.73801	2.43760	2.41363	23.1011	0.05856	0.03920	5.56073	5.59992	0.03648	1.41241	1.44889	—	5,990.81	5,990.81	0.28362	0.24505	0.60109	6,071.53
Single Family Housing	0.42968	0.38878	0.33269	3.17162	0.00759	0.00517	0.71588	0.72106	0.00481	0.18183	0.18665	—	776.289	776.289	0.04110	0.03360	0.07738	787.407

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Govern ment	2.51734	2.24113	2.21910	21.2392	0.05384	0.03604	5.11255	5.14859	0.03354	1.29857	1.33211	—	5,507.97	5,507.97	0.26076	0.22530	0.55264	5,582.18
Motel	0.43790	0.38985	0.38602	3.69465	0.00937	0.00627	0.88935	0.89562	0.00583	0.22589	0.23173	—	958.133	958.133	0.04536	0.03919	0.09613	971.042
High Turnover (Sit Down Restaurant)	50.0542	44.5623	44.1241	422.317	1.07058	0.71654	101.657	102.373	0.66692	25.8206	26.4875	—	109,519	109,519	5.18488	4.47979	10.9886	110,995
Strip Mall	150.501	133.988	132.670	1,269.80	3.21898	2.15445	305.657	307.811	2.00525	77.6361	79.6413	—	329,298	329,298	15.5897	13.4696	33.0400	333,734
Fast Food Restaurant w/o Drive Thru	417.080	371.319	367.668	3,518.99	8.92072	5.97061	847.064	853.035	5.55713	215.152	220.709	—	912,579	912,579	43.2034	37.3282	91.5633	924,874
Total	694.322	618.606	608.642	5,824.44	14.7315	9.86683	1,398.48	1,408.35	9.18344	355.211	364.394	—	1,507,020	1,507,020	71.6683	61.7804	151.169	1,527,374
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automo bile Care Center	1.56741	1.42758	1.15837	11.1889	0.02560	0.01742	2.34319	2.36061	0.01621	0.59530	0.61151	—	2,375.22	2,375.22	0.13089	0.10514	3.88225	2,413.71
Bank (with Drive-Through)	0.55975	0.51467	0.37719	3.62546	0.00789	0.00547	0.71734	0.72280	0.00508	0.18224	0.18733	—	731.910	731.910	0.04433	0.03410	1.18850	744.369
Day-Car e Center	1.63453	1.50050	1.11941	10.7690	0.02365	0.01634	2.15352	2.16986	0.01519	0.54711	0.56231	—	2,194.53	2,194.53	0.13064	0.10128	3.56800	2,231.55
Gasolin e/Service Station	6.30887	5.83833	3.96924	37.9987	0.07919	0.05577	7.16139	7.21717	0.05187	1.81939	1.87126	—	7,349.84	7,349.84	0.48102	0.35773	11.8652	7,480.34
General Office Building	0.37596	0.33449	0.33744	3.28874	0.00819	0.00541	0.75718	0.76260	0.00504	0.19237	0.19740	—	759.751	759.751	0.03534	0.03085	1.25452	771.082
Single Family Housing	0.07615	0.06886	0.05996	0.58099	0.00137	0.00092	0.12590	0.12683	0.00086	0.03199	0.03284	—	127.143	127.143	0.00660	0.00546	0.20860	129.142

Govern Office Building	0.32617	0.29019	0.29275	2.85319	0.00710	0.00470	0.65690	0.66160	0.00437	0.16689	0.17126	—	659.132	659.132	0.03066	0.02676	1.08837	668.962
Motel	0.07943	0.07067	0.07130	0.69485	0.00173	0.00114	0.15998	0.16112	0.00106	0.04064	0.04171	—	160.522	160.522	0.00747	0.00652	0.26506	162.916
High Turnover (Sit Down Restaurant)	6.45560	5.91700	4.49061	43.2378	0.09578	0.06595	8.73291	8.79886	0.06135	2.21864	2.28000	—	8,888.91	8,888.91	0.52057	0.40658	14.4689	9,037.55
Strip Mall	24.9977	22.2401	22.4364	218.667	0.54440	0.35989	50.3448	50.7047	0.33496	12.7904	13.1253	—	50,515.5	50,515.5	2.34944	2.05113	83.4124	51,268.9
Fast Food Restaurant w/o Drive Thru	45.4560	40.4417	40.7986	397.626	0.98994	0.65443	91.5475	92.2019	0.60910	23.2581	23.8672	—	91,858.0	91,858.0	4.27226	3.72980	151.678	93,228.0
Total	87.8375	78.6441	75.1113	730.531	1.78483	1.18744	164.701	165.888	1.10510	41.8431	42.9482	—	165,621	165,621	8.00921	6.85536	272.880	168,137

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	992.733	992.733	0.09397	0.01139	—	998.476
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	—	92.5066	92.5066	0.00876	0.00106	—	93.0418

Day-Car e Center	—	—	—	—	—	—	—	—	—	—	—	—	432.223	432.223	0.04091	0.00496	—	434.723
Gasolin e/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	158.267	158.267	0.01498	0.00182	—	159.183
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	1,171.36	1,171.36	0.11087	0.01344	—	1,178.14
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	79.0325	79.0325	0.00748	0.00091	—	79.4897
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	464.344	464.344	0.04395	0.00533	—	467.031
Motel	—	—	—	—	—	—	—	—	—	—	—	—	97.7617	97.7617	0.00925	0.00112	—	98.3273
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	2,841.55	2,841.55	0.26897	0.03260	—	2,857.99
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	7,798.49	7,798.49	0.73816	0.08947	—	7,843.61
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	4,852.52	4,852.52	0.45931	0.05567	—	4,880.60
Total	—	—	—	—	—	—	—	—	—	—	—	—	18,980.8	18,980.8	1.79661	0.21777	—	19,090.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	992.733	992.733	0.09397	0.01139	—	998.476

Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	—	92.5066	92.5066	0.00876	0.00106	—	93.0418
Day-Care Center	—	—	—	—	—	—	—	—	—	—	—	—	432.223	432.223	0.04091	0.00496	—	434.723
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	158.267	158.267	0.01498	0.00182	—	159.183
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	1,171.36	1,171.36	0.11087	0.01344	—	1,178.14
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	79.0325	79.0325	0.00748	0.00091	—	79.4897
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	464.344	464.344	0.04395	0.00533	—	467.031
Motel	—	—	—	—	—	—	—	—	—	—	—	—	97.7617	97.7617	0.00925	0.00112	—	98.3273
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	2,841.55	2,841.55	0.26897	0.03260	—	2,857.99
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	7,798.49	7,798.49	0.73816	0.08947	—	7,843.61
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	4,852.52	4,852.52	0.45931	0.05567	—	4,880.60
Total	—	—	—	—	—	—	—	—	—	—	—	—	18,980.8	18,980.8	1.79661	0.21777	—	19,090.6
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	164.358	164.358	0.01556	0.00189	—	165.309
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	—	15.3155	15.3155	0.00145	0.00018	—	15.4041
Day-Care Center	—	—	—	—	—	—	—	—	—	—	—	—	71.5594	71.5594	0.00677	0.00082	—	71.9734
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	26.2030	26.2030	0.00248	0.00030	—	26.3546
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	193.933	193.933	0.01836	0.00223	—	195.054
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	13.0847	13.0847	0.00124	0.00015	—	13.1604
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	76.8775	76.8775	0.00728	0.00088	—	77.3223
Motel	—	—	—	—	—	—	—	—	—	—	—	—	16.1856	16.1856	0.00153	0.00019	—	16.2792
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	470.452	470.452	0.04453	0.00540	—	473.174
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	1,291.13	1,291.13	0.12221	0.01481	—	1,298.60
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	803.391	803.391	0.07604	0.00922	—	808.039
Total	—	—	—	—	—	—	—	—	—	—	—	—	3,142.49	3,142.49	0.29745	0.03605	—	3,160.67

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	0.13702	0.06851	1.24560	1.04631	0.00747	0.09467	—	0.09467	0.09467	—	0.09467	—	1,486.21	1,486.21	0.13153	0.00280	—	1,490.33
Bank (with Drive-Through)	0.01277	0.00638	0.11607	0.09750	0.00070	0.00882	—	0.00882	0.00882	—	0.00882	—	138.491	138.491	0.01226	0.00026	—	138.875
Day-Care Center	0.04485	0.02242	0.40771	0.34248	0.00245	0.03099	—	0.03099	0.03099	—	0.03099	—	486.470	486.470	0.04305	0.00092	—	487.819
Gasoline/Service Station	0.02184	0.01092	0.19858	0.16681	0.00119	0.01509	—	0.01509	0.01509	—	0.01509	—	236.941	236.941	0.02097	0.00045	—	237.598
General Office Building	0.05154	0.02577	0.46851	0.39355	0.00281	0.03561	—	0.03561	0.03561	—	0.03561	—	559.012	559.012	0.04947	0.00105	—	560.563
Single Family Housing	0.01359	0.00680	0.11615	0.04943	0.00074	0.00939	—	0.00939	0.00939	—	0.00939	—	147.431	147.431	0.01305	0.00028	—	147.840
Government Office Building	0.02043	0.01021	0.18572	0.15601	0.00111	0.01412	—	0.01412	0.01412	—	0.01412	—	221.600	221.600	0.01961	0.00042	—	222.215
Motel	0.00624	0.00312	0.05672	0.04764	0.00034	0.00431	—	0.00431	0.00431	—	0.00431	—	67.6761	67.6761	0.00599	0.00013	—	67.8638
High Turnover (Sit Down Restaurant)	0.29222	0.14611	2.65656	2.23151	0.01594	0.20190	—	0.20190	0.20190	—	0.20190	—	3,169.72	3,169.72	0.28052	0.00597	—	3,178.51

Strip Mall	0.14705	0.07352	1.33681	1.12292	0.00802	0.10160	—	0.10160	0.10160	—	0.10160	—	1,595.04	1,595.04	0.14116	0.00300	—	1,599.46
Fast Food Restaurant w/o Drive Thru	0.49903	0.24951	4.53661	3.81075	0.02722	0.34478	—	0.34478	0.34478	—	0.34478	—	5,412.93	5,412.93	0.47904	0.01019	—	5,427.95
Total	1.24657	0.62329	11.3251	9.46491	0.06799	0.86127	—	0.86127	0.86127	—	0.86127	—	13,521.5	13,521.5	1.19665	0.02546	—	13,559.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	0.13702	0.06851	1.24560	1.04631	0.00747	0.09467	—	0.09467	0.09467	—	0.09467	—	1,486.21	1,486.21	0.13153	0.00280	—	1,490.33
Bank (with Drive-Through)	0.01277	0.00638	0.11607	0.09750	0.00070	0.00882	—	0.00882	0.00882	—	0.00882	—	138.491	138.491	0.01226	0.00026	—	138.875
Day-Care Center	0.04485	0.02242	0.40771	0.34248	0.00245	0.03099	—	0.03099	0.03099	—	0.03099	—	486.470	486.470	0.04305	0.00092	—	487.819
Gasoline/Service Station	0.02184	0.01092	0.19858	0.16681	0.00119	0.01509	—	0.01509	0.01509	—	0.01509	—	236.941	236.941	0.02097	0.00045	—	237.598
General Office Building	0.05154	0.02577	0.46851	0.39355	0.00281	0.03561	—	0.03561	0.03561	—	0.03561	—	559.012	559.012	0.04947	0.00105	—	560.563
Single Family Housing	0.01359	0.00680	0.11615	0.04943	0.00074	0.00939	—	0.00939	0.00939	—	0.00939	—	147.431	147.431	0.01305	0.00028	—	147.840
Government Office Building	0.02043	0.01021	0.18572	0.15601	0.00111	0.01412	—	0.01412	0.01412	—	0.01412	—	221.600	221.600	0.01961	0.00042	—	222.215
Motel	0.00624	0.00312	0.05672	0.04764	0.00034	0.00431	—	0.00431	0.00431	—	0.00431	—	67.6761	67.6761	0.00599	0.00013	—	67.8638

High Turnover (Sit Down Restaurant)	0.29222	0.14611	2.65656	2.23151	0.01594	0.20190	—	0.20190	0.20190	—	0.20190	—	3,169.72	3,169.72	0.28052	0.00597	—	3,178.51
Strip Mall	0.14705	0.07352	1.33681	1.12292	0.00802	0.10160	—	0.10160	0.10160	—	0.10160	—	1,595.04	1,595.04	0.14116	0.00300	—	1,599.46
Fast Food Restaurant w/o Drive Thru	0.49903	0.24951	4.53661	3.81075	0.02722	0.34478	—	0.34478	0.34478	—	0.34478	—	5,412.93	5,412.93	0.47904	0.01019	—	5,427.95
Total	1.24657	0.62329	11.3251	9.46491	0.06799	0.86127	—	0.86127	0.86127	—	0.86127	—	13,521.5	13,521.5	1.19665	0.02546	—	13,559.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	0.02501	0.01250	0.22732	0.19095	0.00136	0.01728	—	0.01728	0.01728	—	0.01728	—	246.059	246.059	0.02178	0.00046	—	246.742
Bank (with Drive-Through)	0.00233	0.00117	0.02118	0.01779	0.00013	0.00161	—	0.00161	0.00161	—	0.00161	—	22.9287	22.9287	0.00203	0.00004	—	22.9923
Day-Care Center	0.00818	0.00409	0.07441	0.06250	0.00045	0.00565	—	0.00565	0.00565	—	0.00565	—	80.5406	80.5406	0.00713	0.00015	—	80.7640
Gasoline/Service Station	0.00399	0.00199	0.03624	0.03044	0.00022	0.00275	—	0.00275	0.00275	—	0.00275	—	39.2282	39.2282	0.00347	0.00007	—	39.3370
General Office Building	0.00941	0.00470	0.08550	0.07182	0.00051	0.00650	—	0.00650	0.00650	—	0.00650	—	92.5509	92.5509	0.00819	0.00017	—	92.8076
Single Family Housing	0.00248	0.00124	0.02120	0.00902	0.00014	0.00171	—	0.00171	0.00171	—	0.00171	—	24.4089	24.4089	0.00216	0.00005	—	24.4766
Government Office Building	0.00373	0.00186	0.03389	0.02847	0.00020	0.00258	—	0.00258	0.00258	—	0.00258	—	36.6884	36.6884	0.00325	0.00007	—	36.7902

Motel	0.00114	0.00057	0.01035	0.00870	0.00006	0.00079	—	0.00079	0.00079	—	0.00079	—	11.2046	11.2046	0.00099	0.00002	—	11.2356
High Turnover (Sit Down Restaurant)	0.05333	0.02667	0.48482	0.40725	0.00291	0.03685	—	0.03685	0.03685	—	0.03685	—	524.784	524.784	0.04644	0.00099	—	526.239
Strip Mall	0.02684	0.01342	0.24397	0.20493	0.00146	0.01854	—	0.01854	0.01854	—	0.01854	—	264.077	264.077	0.02337	0.00050	—	264.809
Fast Food Restaurant w/o Drive Thru	0.09107	0.04554	0.82793	0.69546	0.00497	0.06292	—	0.06292	0.06292	—	0.06292	—	896.173	896.173	0.07931	0.00169	—	898.659
Total	0.22750	0.11375	2.06682	1.72735	0.01241	0.15718	—	0.15718	0.15718	—	0.15718	—	2,238.64	2,238.64	0.19812	0.00422	—	2,244.85

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	3.47550	3.13453	0.24898	6.10262	0.01557	0.85668	—	0.85668	0.84109	—	0.84109	112.403	214.770	327.173	0.33511	0.00407	—	336.765
Consumer Products	30.2727	30.2727	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	3.56137	3.56137	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	10.6996	9.87527	0.51036	60.4889	0.00360	0.10665	—	0.10665	0.08058	—	0.08058	—	247.803	247.803	0.01040	0.00213	—	248.696

Total	48.0091	46.8438	0.75934	66.5915	0.01917	0.96333	—	0.96333	0.92167	—	0.92167	112.403	462.573	574.976	0.34551	0.00620	—	585.461
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	3.47550	3.13453	0.24898	6.10262	0.01557	0.85668	—	0.85668	0.84109	—	0.84109	112.403	214.770	327.173	0.33511	0.00407	—	336.765
Consumer Products	30.2727	30.2727	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	3.56137	3.56137	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	37.3095	36.9686	0.24898	6.10262	0.01557	0.85668	—	0.85668	0.84109	—	0.84109	112.403	214.770	327.173	0.33511	0.00407	—	336.765
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.04344	0.03918	0.00311	0.07628	0.00019	0.01071	—	0.01071	0.01051	—	0.01051	1.27463	2.43545	3.71008	0.00380	0.00005	—	3.81885
Consumer Products	5.52476	5.52476	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.64995	0.64995	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.33745	1.23441	0.06379	7.56111	0.00045	0.01333	—	0.01333	0.01007	—	0.01007	—	28.1004	28.1004	0.00118	0.00024	—	28.2017
Total	7.55560	7.44830	0.06691	7.63739	0.00064	0.02404	—	0.02404	0.02059	—	0.02059	1.27463	30.5358	31.8105	0.00498	0.00029	—	32.0205

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	19.5326	67.0482	86.5808	2.00919	0.04836	—	151.221
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	0.76656	2.67288	3.43944	0.07885	0.00190	—	5.97647
Day-Care Center	—	—	—	—	—	—	—	—	—	—	—	5.94628	20.6912	26.6375	0.61168	0.01472	—	46.3173
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.76354	2.71360	3.47714	0.07855	0.00189	—	6.00447
General Office Building	—	—	—	—	—	—	—	—	—	—	—	23.4377	80.0178	103.455	2.41084	0.05802	—	181.016
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	0.85710	15.1205	15.9777	0.08932	0.00226	—	18.8846
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	10.3849	35.4320	45.8169	1.06821	0.02571	—	80.1828
Motel	—	—	—	—	—	—	—	—	—	—	—	1.55548	5.33001	6.88549	0.16000	0.00385	—	12.0330
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	49.9660	170.155	220.121	5.13954	0.12368	—	385.467
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	117.995	406.290	524.285	12.1375	0.29213	—	914.777

Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	85.3269	290.574	375.900	8.77680	0.21121	—	658.262
Total	—	—	—	—	—	—	—	—	—	—	—	316.532	1,096.04	1,412.58	32.5605	0.78374	—	2,460.14
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	19.5326	67.0482	86.5808	2.00919	0.04836	—	151.221
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	0.76656	2.67288	3.43944	0.07885	0.00190	—	5.97647
Day-Care Center	—	—	—	—	—	—	—	—	—	—	—	5.94628	20.6912	26.6375	0.61168	0.01472	—	46.3173
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.76354	2.71360	3.47714	0.07855	0.00189	—	6.00447
General Office Building	—	—	—	—	—	—	—	—	—	—	—	23.4377	80.0178	103.455	2.41084	0.05802	—	181.016
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	0.85710	15.1205	15.9777	0.08932	0.00226	—	18.8846
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	10.3849	35.4320	45.8169	1.06821	0.02571	—	80.1828
Motel	—	—	—	—	—	—	—	—	—	—	—	1.55548	5.33001	6.88549	0.16000	0.00385	—	12.0330

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	49.9660	170.155	220.121	5.13954	0.12368	—	385.467
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	117.995	406.290	524.285	12.1375	0.29213	—	914.777
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	85.3269	290.574	375.900	8.77680	0.21121	—	658.262
Total	—	—	—	—	—	—	—	—	—	—	—	316.532	1,096.04	1,412.58	32.5605	0.78374	—	2,460.14
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	3.23385	11.1006	14.3344	0.33264	0.00801	—	25.0363
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	0.12691	0.44253	0.56944	0.01306	0.00031	—	0.98947
Day-Care Center	—	—	—	—	—	—	—	—	—	—	—	0.98447	3.42566	4.41014	0.10127	0.00244	—	7.66836
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.12641	0.44927	0.57568	0.01300	0.00031	—	0.99411
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3.88037	13.2479	17.1282	0.39914	0.00961	—	29.9693
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	0.14190	2.50338	2.64528	0.01479	0.00037	—	3.12655
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	1.71934	5.86617	7.58551	0.17685	0.00426	—	13.2752

Motel	—	—	—	—	—	—	—	—	—	—	—	0.25753	0.88244	1.13997	0.02649	0.00064	—	1.99221
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	8.27244	28.1711	36.4435	0.85091	0.02048	—	63.8185
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	19.5354	67.2659	86.8013	2.00950	0.04837	—	151.452
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	14.1268	48.1078	62.2346	1.45310	0.03497	—	108.983
Total	—	—	—	—	—	—	—	—	—	—	—	52.4055	181.463	233.868	5.39076	0.12976	—	407.305

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	223.055	0.00000	223.055	22.2935	0.00000	—	780.393
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	5.07657	0.00000	5.07657	0.50739	0.00000	—	17.7612
Day-Care Center	—	—	—	—	—	—	—	—	—	—	—	50.6906	0.00000	50.6906	5.06634	0.00000	—	177.349

Gasolin e/Service	—	—	—	—	—	—	—	—	—	—	—	8.71356	0.00000	8.71356	0.87089	0.00000	—	30.4858
General Office Building	—	—	—	—	—	—	—	—	—	—	—	34.4920	0.00000	34.4920	3.44735	0.00000	—	120.676
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	5.14716	0.00000	5.14716	0.51444	0.00000	—	18.0082
Govern ment Office Building	—	—	—	—	—	—	—	—	—	—	—	13.6731	0.00000	13.6731	1.36658	0.00000	—	47.8375
Motel	—	—	—	—	—	—	—	—	—	—	—	9.44221	0.00000	9.44221	0.94371	0.00000	—	33.0351
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	550.941	0.00000	550.941	55.0645	0.00000	—	1,927.55
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	470.421	0.00000	470.421	47.0169	0.00000	—	1,645.84
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	910.712	0.00000	910.712	91.0224	0.00000	—	3,186.27
Total	—	—	—	—	—	—	—	—	—	—	—	2,282.36	0.00000	2,282.36	228.114	0.00000	—	7,985.22
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automo bile Care Center	—	—	—	—	—	—	—	—	—	—	—	223.055	0.00000	223.055	22.2935	0.00000	—	780.393
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	5.07657	0.00000	5.07657	0.50739	0.00000	—	17.7612

Day-Care	—	—	—	—	—	—	—	—	—	—	—	50.6906	0.00000	50.6906	5.06634	0.00000	—	177.349
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	8.71356	0.00000	8.71356	0.87089	0.00000	—	30.4858
General Office Building	—	—	—	—	—	—	—	—	—	—	—	34.4920	0.00000	34.4920	3.44735	0.00000	—	120.676
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	5.14716	0.00000	5.14716	0.51444	0.00000	—	18.0082
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	13.6731	0.00000	13.6731	1.36658	0.00000	—	47.8375
Motel	—	—	—	—	—	—	—	—	—	—	—	9.44221	0.00000	9.44221	0.94371	0.00000	—	33.0351
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	550.941	0.00000	550.941	55.0645	0.00000	—	1,927.55
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	470.421	0.00000	470.421	47.0169	0.00000	—	1,645.84
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	910.712	0.00000	910.712	91.0224	0.00000	—	3,186.27
Total	—	—	—	—	—	—	—	—	—	—	—	2,282.36	0.00000	2,282.36	228.114	0.00000	—	7,985.22
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	36.9293	0.00000	36.9293	3.69095	0.00000	—	129.203
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	0.84048	0.00000	0.84048	0.08400	0.00000	—	2.94057

Day-Car Center	—	—	—	—	—	—	—	—	—	—	—	8.39241	0.00000	8.39241	0.83879	0.00000	—	29.3622
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	1.44263	0.00000	1.44263	0.14419	0.00000	—	5.04727
General Office Building	—	—	—	—	—	—	—	—	—	—	—	5.71054	0.00000	5.71054	0.57075	0.00000	—	19.9792
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	0.85217	0.00000	0.85217	0.08517	0.00000	—	2.98146
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	2.26374	0.00000	2.26374	0.22625	0.00000	—	7.92005
Motel	—	—	—	—	—	—	—	—	—	—	—	1.56327	0.00000	1.56327	0.15624	0.00000	—	5.46933
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	91.2145	0.00000	91.2145	9.11656	0.00000	—	319.129
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	77.8835	0.00000	77.8835	7.78418	0.00000	—	272.488
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	150.779	0.00000	150.779	15.0698	0.00000	—	527.524
Total	—	—	—	—	—	—	—	—	—	—	—	377.871	0.00000	377.871	37.7669	0.00000	—	1,322.04

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.16922	0.16922
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02455	0.02455
Day-Care Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.27948	0.27948
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.16736	0.16736
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.28096	0.28096
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.06634	0.06634
Motel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.4336	11.4336
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	134.291	134.291
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.17753	5.17753
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	229.329	229.329

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	381.220	381.220
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.16922	0.16922
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02455	0.02455
Day-Care Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.27948	0.27948
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.16736	0.16736
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.28096	0.28096
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.06634	0.06634
Motel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.4336	11.4336
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	134.291	134.291
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.17753	5.17753
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	229.329	229.329
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	381.220	381.220

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02802	0.02802
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00407	0.00407
Day-Care Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04627	0.04627
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02771	0.02771
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04652	0.04652
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01098	0.01098
Motel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.89297	1.89297
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	22.2335	22.2335
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.85720	0.85720
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	37.9681	37.9681
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	63.1153	63.1153

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)

Vegetati on	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
Automobile Care Center	2,569.94	2,569.94	1,287.14	871,140	16,694.1	30,069.8	15,060.2	6,705,593
Bank (with Drive-Through)	1,009.90	873.102	322.668	325,647	6,129.88	6,366.96	2,353.01	2,052,832
Day-Care Center	3,445.35	450.023	422.530	943,751	21,596.3	5,265.52	4,943.83	6,162,815
Gasoline/Service Station	10,320.6	10,930.2	10,012.8	3,782,756	29,598.3	127,889	117,155	20,494,026
General Office Building	670.278	152.086	48.1719	185,193	7,842.62	1,779.49	563.638	2,166,860
Single Family Housing	113.280	114.480	102.600	40,852.9	999.067	1,009.65	904.876	360,300
Government Office Building	616.255	0.00000	0.00000	160,667	7,210.53	0.00000	0.00000	1,879,888
Motel	107.200	107.200	107.200	39,128.0	1,254.30	1,254.30	1,254.30	457,819
High Turnover (Sit Down Restaurant)	9,636.82	10,514.8	12,253.5	3,699,660	42,576.8	123,029	143,373	24,991,299
Strip Mall	36,843.2	34,947.9	16,983.5	12,313,400	431,086	408,909	198,716	144,073,602
Fast Food Restaurant w/o Drive Thru	50,791.9	102,103	73,350.0	22,390,816	594,294	1,194,664	858,236	261,984,962

5.10. Operational Area Sources

5.10.1. Hearths

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
Automobile Care Center	Wood Fireplaces	0	0
Automobile Care Center	Gas Fireplaces	0	0

Automobile Care Center	Propane Fireplaces	0	0
Automobile Care Center	Electric Fireplaces	0	0
Automobile Care Center	No Fireplaces	0	0
Automobile Care Center	Conventional Wood Stoves	0	0
Automobile Care Center	Catalytic Wood Stoves	0	0
Automobile Care Center	Non-Catalytic Wood Stoves	0	0
Automobile Care Center	Pellet Wood Stoves	0	0
Bank (with Drive-Through)	Wood Fireplaces	0	0
Bank (with Drive-Through)	Gas Fireplaces	0	0
Bank (with Drive-Through)	Propane Fireplaces	0	0
Bank (with Drive-Through)	Electric Fireplaces	0	0
Bank (with Drive-Through)	No Fireplaces	0	0
Bank (with Drive-Through)	Conventional Wood Stoves	0	0
Bank (with Drive-Through)	Catalytic Wood Stoves	0	0
Bank (with Drive-Through)	Non-Catalytic Wood Stoves	0	0
Bank (with Drive-Through)	Pellet Wood Stoves	0	0
Day-Care Center	Wood Fireplaces	0	0
Day-Care Center	Gas Fireplaces	0	0
Day-Care Center	Propane Fireplaces	0	0
Day-Care Center	Electric Fireplaces	0	0
Day-Care Center	No Fireplaces	0	0
Day-Care Center	Conventional Wood Stoves	0	0
Day-Care Center	Catalytic Wood Stoves	0	0
Day-Care Center	Non-Catalytic Wood Stoves	0	0
Day-Care Center	Pellet Wood Stoves	0	0
Gasoline/Service Station	Wood Fireplaces	0	0
Gasoline/Service Station	Gas Fireplaces	0	0
Gasoline/Service Station	Propane Fireplaces	0	0

Gasoline/Service Station	Electric Fireplaces	0	0
Gasoline/Service Station	No Fireplaces	0	0
Gasoline/Service Station	Conventional Wood Stoves	0	0
Gasoline/Service Station	Catalytic Wood Stoves	0	0
Gasoline/Service Station	Non-Catalytic Wood Stoves	0	0
Gasoline/Service Station	Pellet Wood Stoves	0	0
General Office Building	Wood Fireplaces	0	0
General Office Building	Gas Fireplaces	0	0
General Office Building	Propane Fireplaces	0	0
General Office Building	Electric Fireplaces	0	0
General Office Building	No Fireplaces	0	0
General Office Building	Conventional Wood Stoves	0	0
General Office Building	Catalytic Wood Stoves	0	0
General Office Building	Non-Catalytic Wood Stoves	0	0
General Office Building	Pellet Wood Stoves	0	0
Single Family Housing	Wood Fireplaces	1	1
Single Family Housing	Gas Fireplaces	10	10
Single Family Housing	Propane Fireplaces	0	0
Single Family Housing	Electric Fireplaces	0	0
Single Family Housing	No Fireplaces	1	1
Single Family Housing	Conventional Wood Stoves	0	0
Single Family Housing	Catalytic Wood Stoves	1	1
Single Family Housing	Non-Catalytic Wood Stoves	1	1
Single Family Housing	Pellet Wood Stoves	0	0
Government Office Building	Wood Fireplaces	0	0
Government Office Building	Gas Fireplaces	0	0
Government Office Building	Propane Fireplaces	0	0
Government Office Building	Electric Fireplaces	0	0

Government Office Building	No Fireplaces	0	0
Government Office Building	Conventional Wood Stoves	0	0
Government Office Building	Catalytic Wood Stoves	0	0
Government Office Building	Non-Catalytic Wood Stoves	0	0
Government Office Building	Pellet Wood Stoves	0	0
Motel	Wood Fireplaces	0	0
Motel	Gas Fireplaces	0	0
Motel	Propane Fireplaces	0	0
Motel	Electric Fireplaces	0	0
Motel	No Fireplaces	0	0
Motel	Conventional Wood Stoves	0	0
Motel	Catalytic Wood Stoves	0	0
Motel	Non-Catalytic Wood Stoves	0	0
Motel	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
Strip Mall	Wood Fireplaces	0	0
Strip Mall	Gas Fireplaces	0	0
Strip Mall	Propane Fireplaces	0	0
Strip Mall	Electric Fireplaces	0	0
Strip Mall	No Fireplaces	0	0

Strip Mall	Conventional Wood Stoves	0	0
Strip Mall	Catalytic Wood Stoves	0	0
Strip Mall	Non-Catalytic Wood Stoves	0	0
Strip Mall	Pellet Wood Stoves	0	0
Fast Food Restaurant w/o Drive Thru	Wood Fireplaces	0	0
Fast Food Restaurant w/o Drive Thru	Gas Fireplaces	0	0
Fast Food Restaurant w/o Drive Thru	Propane Fireplaces	0	0
Fast Food Restaurant w/o Drive Thru	Electric Fireplaces	0	0
Fast Food Restaurant w/o Drive Thru	No Fireplaces	0	0
Fast Food Restaurant w/o Drive Thru	Conventional Wood Stoves	0	0
Fast Food Restaurant w/o Drive Thru	Catalytic Wood Stoves	0	0
Fast Food Restaurant w/o Drive Thru	Non-Catalytic Wood Stoves	0	0
Fast Food Restaurant w/o Drive Thru	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)
79,438.7	26,479.6	2,063,072	687,691	—

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)
Automobile Care Center	1,039,325	348.637	0.0330	0.0040	4,637,376
Bank (with Drive-Through)	96,848.3	348.637	0.0330	0.0040	432,128
Day-Care Center	452,508	348.637	0.0330	0.0040	1,517,916
Gasoline/Service Station	165,695	348.637	0.0330	0.0040	739,318
General Office Building	1,226,339	348.637	0.0330	0.0040	1,744,268
Single Family Housing	82,741.7	348.637	0.0330	0.0040	460,024
Government Office Building	486,137	348.637	0.0330	0.0040	691,452
Motel	102,350	348.637	0.0330	0.0040	211,168
High Turnover (Sit Down Restaurant)	2,974,918	348.637	0.0330	0.0040	9,890,381
Strip Mall	8,164,502	348.637	0.0330	0.0040	4,976,947
Fast Food Restaurant w/o Drive Thru	5,080,268	348.637	0.0330	0.0040	16,889,807

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Automobile Care Center	10,193,218	151,956
Bank (with Drive-Through)	400,033	14,164.8
Day-Care Center	3,103,103	101,468
Gasoline/Service Station	398,457	24,220.5
General Office Building	12,231,103	96,517.2
Single Family Housing	447,286	2,409,258
Government Office Building	5,419,436	38,259.1
Motel	811,737	10,252.0
High Turnover (Sit Down Restaurant)	26,075,064	120,471
Strip Mall	61,576,487	1,165,864

Fast Food Restaurant w/o Drive Thru	44,528,396	205,741
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5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Automobile Care Center	413.878	0.00000
Bank (with Drive-Through)	9.41957	0.00000
Day-Care Center	94.0563	0.00000
Gasoline/Service Station	16.1680	0.00000
General Office Building	63.9998	0.00000
Single Family Housing	9.55055	0.00000
Government Office Building	25.3704	0.00000
Motel	17.5200	0.00000
High Turnover (Sit Down Restaurant)	1,022.27	0.00000
Strip Mall	872.865	0.00000
Fast Food Restaurant w/o Drive Thru	1,689.83	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
Automobile Care Center	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
Bank (with Drive-Through)	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
Bank (with Drive-Through)	Household refrigerators and/or freezers	R-134a	1,430.00	0.01679	0.60000	0.00000	1.000000

Day-Care Center	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
Day-Care Center	Stand-alone retail refrigerators and freezers	R-134a	1,430.00	0.00004	1.000000	0.00000	1.000000
Day-Care Center	Walk-in refrigerators and freezers	R-404A	3,922.00	0.00040	7.50000	7.50000	20.0000
Day-Care Center	Household refrigerators and/or freezers	R-134a	1,430.00	0.01679	0.60000	0.00000	1.000000
General Office Building	Household refrigerators and/or freezers	R-134a	1,430.00	0.01679	0.60000	0.00000	1.000000
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088.00	0.00225	2.50000	2.50000	10.00000
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430.00	0.11538	0.60000	0.00000	1.000000
Government Office Building	Household refrigerators and/or freezers	R-134a	1,430.00	0.01679	0.60000	0.00000	1.000000
Government Office Building	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
Motel	Household refrigerators and/or freezers	R-134a	1,430.00	0.00000	0.60000	0.00000	1.000000
Motel	Other commercial A/C and heat pumps	R-410A	2,088.00	1.80000	4.00000	4.00000	18.0000
Motel	Walk-in refrigerators and freezers	R-404A	3,922.00	0.00040	7.50000	7.50000	20.0000
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
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430.00	0.03750	1.000000	0.00000	1.000000
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922.00	0.00040	7.50000	7.50000	20.0000
Fast Food Restaurant w/o Drive Thru	Household refrigerators and/or freezers	R-134a	1,430.00	0.00000	0.60000	0.00000	1.000000
Fast Food Restaurant w/o Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088.00	1.80000	4.00000	4.00000	18.0000
Fast Food Restaurant w/o Drive Thru	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	17.7600	annual days of extreme heat
Extreme Precipitation	5.80000	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.48000	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 ¾ 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	2	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	2	1	1	3
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	71.6615
AQ-PM	86.9944
AQ-DPM	84.2813
Drinking Water	77.5946
Lead Risk Housing	75.6018
Pesticides	0.00000
Toxic Releases	81.6704
Traffic	52.5375
Effect Indicators	—
CleanUp Sites	69.5222
Groundwater	86.2693
Haz Waste Facilities/Generators	61.7869
Impaired Water Bodies	58.6938
Solid Waste	59.1753
Sensitive Population	—
Asthma	80.7203

Cardio-vascular	81.6426
Low Birth Weights	8.78881
Socioeconomic Factor Indicators	—
Education	80.5745
Housing	32.7123
Linguistic	75.1929
Poverty	57.7889
Unemployment	39.2113

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	53.50955986
Employed	38.39343
Median HI	56.88438342
Education	—
Bachelor's or higher	32.58052098
High school enrollment	100
Preschool enrollment	40.06159374
Transportation	—
Auto Access	58.83485179
Active commuting	22.67419479
Social	—
2-parent households	46.06698319
Voting	25.81804183
Neighborhood	—
Alcohol availability	60.02823046

Park access	81.35506224
Retail density	41.25497241
Supermarket access	14.9108174
Tree canopy	24.74015142
Housing	—
Homeownership	75.05453612
Housing habitability	49.26215835
Low-inc homeowner severe housing cost burden	81.11125369
Low-inc renter severe housing cost burden	9.636853587
Uncrowded housing	32.32388041
Health Outcomes	—
Insured adults	29.01321699
Arthritis	0.0
Asthma ER Admissions	22.5
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	67.8
Cognitively Disabled	74.6
Physically Disabled	54.0
Heart Attack ER Admissions	19.1
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	43.5

Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	36.4
Elderly	61.9
English Speaking	16.3
Foreign-born	72.6
Outdoor Workers	51.7
Climate Change Adaptive Capacity	—
Impervious Surface Cover	57.0
Traffic Density	64.4
Traffic Access	51.6
Other Indices	—
Hardship	61.6
Other Decision Support	—
2016 Voting	31.0

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	86.0000
Healthy Places Index Score for Project Location (b)	41.0000
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	Based on site specific information
Construction: Construction Phases	Adjusted for 1-year total building construction
Construction: Off-Road Equipment	Building construction phase equipment increased to account for construction compressed to 1 year from 1.15 years.
Construction: Demolition	Based on average year buildout.
Construction: Trips and VMT	Based on average year of construction.

8.3. Land Use

Model Parameter	Units	Default Value	New Value
Building Area	sq. ft	4,235.00	17,273.0
Landscape Area	sq. ft	—	1,727.00
Special Landscape Area	sq. ft	—	0.00000

Building Area	sq. ft	23,400.0	39,229.0
Special Landscape Area	sq. ft	—	0.00000
Building Area	sq. ft	62,726.0	7,314.00
Landscape Area	sq. ft	—	731.000
Special Landscape Area	sq. ft	—	0.00000

La Puente Operation Proposed w FF Internal Capture Detailed Report

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4.4.1. Unmitigated

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4.6.1. Unmitigated

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5.15.2. Mitigated

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

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

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5.18.2.1. Unmitigated

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	La Puente Operation Proposed w FF Internal Capture
Operational Year	2046
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	1.80000
Precipitation (days)	22.4000
Location	La Puente, CA, USA
County	Los Angeles-South Coast
City	La Puente
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5072
EDFZ	7
Electric Utility	Southern California Edison
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
Automobile Care Center	108.345	1000sqft	2.48726	108,345	10,835.0	0.00000	—	—

Bank (with Drive-Through)	10.0960	1000sqft	0.23177	10,096.0	1,010.00	0.00000	—	—
Day-Care Center	72.3510	1000sqft	1.66095	72,351.0	7,235.00	0.00000	—	—
Gasoline/Service Station	30.0000	Pump	0.09723	17,273.0	1,727.00	0.00000	—	—
General Office Building	68.8170	1000sqft	1.57982	68,817.0	6,882.00	0.00000	—	—
Government Office Building	27.2800	1000sqft	0.62626	27,280.0	2,728.00	0.00000	—	—
Motel	32.0000	Room	1.44000	7,314.00	732.000	0.00000	—	—
High Turnover (Sit Down Restaurant)	85.9050	1000sqft	1.97211	85,905.0	8,590.00	0.00000	—	—
Strip Mall	517.134	1000sqft	11.8718	517,134	51,713.0	0.00000	—	—
Fast Food Restaurant w/o Drive Thru	91.2590	1000sqft	2.09502	91,259.0	9,126.00	0.00000	—	—
Health Club	80.0000	1000sqft	1.83655	80,000.0	8,000.00	0.00000	—	—
Strip Mall	48.0000	1000sqft	1.10193	48,000.0	4,800.00	0.00000	—	—
Medical Office Building	32.0000	1000sqft	0.73462	32,000.0	3,200.00	0.00000	—	—
General Office Building	32.0000	1000sqft	0.73462	32,000.0	3,200.00	0.00000	—	—
Apartments Mid Rise	3,128.00	Dwelling Unit	82.3158	3,002,880	300,288	0.00000	9,259.00	—
Fast Food Restaurant w/o Drive Thru	64.0000	1000sqft	1.46924	64,000.0	6,400.00	0.00000	—	—
High Turnover (Sit Down Restaurant)	64.0000	1000sqft	1.46924	64,000.0	6,400.00	0.00000	—	—
Single Family Housing	12.0000	Dwelling Unit	3.89610	39,229.0	140,554	0.00000	36.0000	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Area Sources	E-14	Limit Wood Burning Devices and Natural Gas/Propane Fireplaces in Residential Development

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.	1,503.02	1,366.38	379.831	6,195.63	17.0638	231.009	1,448.33	1,679.34	226.573	367.914	594.486	34,274.2	1,418,238	1,452,513	620.873	47.0642	813.371	1,482,873
Mit.	597.073	549.309	314.931	4,604.88	13.0057	7.70039	1,448.33	1,456.03	7.32837	367.914	375.242	4,974.43	1,362,255	1,367,229	533.520	46.0023	813.371	1,395,090
% Reduced	60%	60%	17%	26%	24%	97%	—	13%	97%	—	37%	85%	4%	6%	14%	2%	—	6%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1,475.04	1,340.31	404.224	5,550.59	16.5151	230.829	1,448.33	1,679.16	226.437	367.914	594.350	34,274.2	1,363,151	1,397,425	621.678	49.0764	523.494	1,428,116
Mit.	569.092	523.238	339.323	3,959.84	12.4569	7.52048	1,448.33	1,455.85	7.19269	367.914	375.106	4,974.43	1,307,168	1,312,142	534.325	48.0146	523.494	1,340,332
% Reduced	61%	61%	16%	29%	25%	97%	—	13%	97%	—	37%	85%	4%	6%	14%	2%	—	6%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	506.922	468.961	244.090	2,984.94	8.55847	20.4784	930.259	950.737	19.9631	236.364	256.328	6,876.56	886,338	893,215	526.851	32.8887	599.511	916,786
Mit.	444.870	412.997	239.644	2,875.99	8.28052	5.18325	930.259	935.442	4.94634	236.364	241.311	4,869.73	882,504	887,373	520.868	32.8160	599.511	910,774

% Reduced	12%	12%	2%	4%	3%	75%	—	2%	75%	—	6%	29%	< 0.5%	1%	1%	< 0.5%	—	1%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	92.5132	85.5854	44.5464	544.752	1.56192	3.73730	169.772	173.510	3.64326	43.1365	46.7798	1,138.49	146,743	147,882	87.2262	5.44510	99.2559	151,784
Mit.	81.1888	75.3720	43.7351	524.868	1.51119	0.94594	169.772	170.718	0.90271	43.1365	44.0392	806.239	146,109	146,915	86.2357	5.43306	99.2559	150,789
% Reduced	12%	12%	2%	4%	3%	75%	—	2%	75%	—	6%	29%	< 0.5%	1%	1%	< 0.5%	—	1%

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	462.309	417.855	289.284	4,346.21	12.8359	4.85017	1,448.33	1,453.18	4.53806	367.914	372.452	—	1,307,718	1,307,718	40.0283	44.1590	297.594	1,322,176
Area	1,038.09	947.211	67.2795	1,833.56	4.08488	224.348	—	224.348	220.223	—	220.223	29,412.1	56,911.6	86,323.7	87.7174	1.07189	—	88,836.0
Energy	2.62191	1.31095	23.2682	15.8615	0.14301	1.81150	—	1.81150	1.81150	—	1.81150	—	52,121.4	52,121.4	5.51357	0.41678	—	52,383.4
Water	—	—	—	—	—	—	—	—	—	—	—	572.034	1,487.63	2,059.66	58.8438	1.41645	—	3,952.86
Waste	—	—	—	—	—	—	—	—	—	—	—	4,290.00	0.00000	4,290.00	428.770	0.00000	—	15,009.2
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	515.776	515.776
Total	1,503.02	1,366.38	379.831	6,195.63	17.0638	231.009	1,448.33	1,679.34	226.573	367.914	594.486	34,274.2	1,418,238	1,452,513	620.873	47.0642	813.371	1,482,873
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	460.937	416.735	315.806	3,937.88	12.2983	4.85230	1,448.33	1,453.18	4.54010	367.914	372.454	—	1,253,344	1,253,344	40.8633	46.1773	7.71736	1,268,134
Area	1,011.48	922.260	65.1497	1,596.85	4.07371	224.166	—	224.166	220.085	—	220.085	29,412.1	56,198.2	85,610.3	87.6875	1.06591	—	88,120.1
Energy	2.62191	1.31095	23.2682	15.8615	0.14301	1.81150	—	1.81150	1.81150	—	1.81150	—	52,121.4	52,121.4	5.51357	0.41678	—	52,383.4
Water	—	—	—	—	—	—	—	—	—	—	—	572.034	1,487.63	2,059.66	58.8438	1.41645	—	3,952.86

Waste	—	—	—	—	—	—	—	—	—	—	—	4,290.00	0.00000	4,290.00	428.770	0.00000	—	15,009.2
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	515.776	515.776
Total	1,475.04	1,340.31	404.224	5,550.59	16.5151	230.829	1,448.33	1,679.16	226.437	367.914	594.350	34,274.2	1,363,151	1,397,425	621.678	49.0764	523.494	1,428,116
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	321.728	292.325	214.900	2,697.58	8.12879	3.18838	930.259	933.447	2.98290	236.364	239.347	—	828,391	828,391	27.6978	30.9784	83.7344	838,399
Area	182.572	175.325	5.92104	271.500	0.28667	15.4785	—	15.4785	15.1687	—	15.1687	2,014.53	4,337.82	6,352.35	6.02644	0.07711	—	6,525.99
Energy	2.62191	1.31095	23.2682	15.8615	0.14301	1.81150	—	1.81150	1.81150	—	1.81150	—	52,121.4	52,121.4	5.51357	0.41678	—	52,383.4
Water	—	—	—	—	—	—	—	—	—	—	—	572.034	1,487.63	2,059.66	58.8438	1.41645	—	3,952.86
Waste	—	—	—	—	—	—	—	—	—	—	—	4,290.00	0.00000	4,290.00	428.770	0.00000	—	15,009.2
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	515.776	515.776
Total	506.922	468.961	244.090	2,984.94	8.55847	20.4784	930.259	950.737	19.9631	236.364	256.328	6,876.56	886,338	893,215	526.851	32.8887	599.511	916,786
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	58.7153	53.3492	39.2193	492.308	1.48350	0.58188	169.772	170.354	0.54438	43.1365	43.6809	—	137,150	137,150	4.58568	5.12882	13.8632	138,807
Area	33.3193	31.9969	1.08059	49.5487	0.05232	2.82483	—	2.82483	2.76828	—	2.76828	333.528	718.176	1,051.70	0.99775	0.01277	—	1,080.45
Energy	0.47850	0.23925	4.24645	2.89472	0.02610	0.33060	—	0.33060	0.33060	—	0.33060	—	8,629.29	8,629.29	0.91283	0.06900	—	8,672.67
Water	—	—	—	—	—	—	—	—	—	—	—	94.7067	246.294	341.000	9.74226	0.23451	—	654.441
Waste	—	—	—	—	—	—	—	—	—	—	—	710.258	0.00000	710.258	70.9877	0.00000	—	2,484.95
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	85.3927	85.3927
Total	92.5132	85.5854	44.5464	544.752	1.56192	3.73730	169.772	173.510	3.64326	43.1365	46.7798	1,138.49	146,743	147,882	87.2262	5.44510	99.2559	151,784

2.5. Operations Emissions by Sector, Mitigated

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	462.309	417.855	289.284	4,346.21	12.8359	4.85017	1,448.33	1,453.18	4.53806	367.914	372.452	—	1,307,718	1,307,718	40.0283	44.1590	297.594	1,322,176

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Area	132.142	130.143	2.37872	242.807	0.02673	1.03873	—	1.03873	0.97881	—	0.97881	112.403	928.178	1,040.58	0.36497	0.01006	—	1,052.70
Energy	2.62191	1.31095	23.2682	15.8615	0.14301	1.81150	—	1.81150	1.81150	—	1.81150	—	52,121.4	52,121.4	5.51357	0.41678	—	52,383.4
Water	—	—	—	—	—	—	—	—	—	—	—	572.034	1,487.63	2,059.66	58.8438	1.41645	—	3,952.86
Waste	—	—	—	—	—	—	—	—	—	—	—	4,290.00	0.00000	4,290.00	428.770	0.00000	—	15,009.2
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	515.776	515.776
Total	597.073	549.309	314.931	4,604.88	13.0057	7.70039	1,448.33	1,456.03	7.32837	367.914	375.242	4,974.43	1,362,255	1,367,229	533.520	46.0023	813.371	1,395,090
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	460.937	416.735	315.806	3,937.88	12.2983	4.85230	1,448.33	1,453.18	4.54010	367.914	372.454	—	1,253,344	1,253,344	40.8633	46.1773	7.71736	1,268,134
Area	105.533	105.192	0.24898	6.10262	0.01557	0.85668	—	0.85668	0.84109	—	0.84109	112.403	214.770	327.173	0.33511	0.00407	—	336.765
Energy	2.62191	1.31095	23.2682	15.8615	0.14301	1.81150	—	1.81150	1.81150	—	1.81150	—	52,121.4	52,121.4	5.51357	0.41678	—	52,383.4
Water	—	—	—	—	—	—	—	—	—	—	—	572.034	1,487.63	2,059.66	58.8438	1.41645	—	3,952.86
Waste	—	—	—	—	—	—	—	—	—	—	—	4,290.00	0.00000	4,290.00	428.770	0.00000	—	15,009.2
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	515.776	515.776
Total	569.092	523.238	339.323	3,959.84	12.4569	7.52048	1,448.33	1,455.85	7.19269	367.914	375.106	4,974.43	1,307,168	1,312,142	534.325	48.0146	523.494	1,340,332
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	321.728	292.325	214.900	2,697.58	8.12879	3.18838	930.259	933.447	2.98290	236.364	239.347	—	828,391	828,391	27.6978	30.9784	83.7344	838,399
Area	120.521	119.362	1.47578	162.544	0.00871	0.18336	—	0.18336	0.15194	—	0.15194	7.69884	503.346	511.045	0.04340	0.00438	—	513.435
Energy	2.62191	1.31095	23.2682	15.8615	0.14301	1.81150	—	1.81150	1.81150	—	1.81150	—	52,121.4	52,121.4	5.51357	0.41678	—	52,383.4
Water	—	—	—	—	—	—	—	—	—	—	—	572.034	1,487.63	2,059.66	58.8438	1.41645	—	3,952.86
Waste	—	—	—	—	—	—	—	—	—	—	—	4,290.00	0.00000	4,290.00	428.770	0.00000	—	15,009.2
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	515.776	515.776
Total	444.870	412.997	239.644	2,875.99	8.28052	5.18325	930.259	935.442	4.94634	236.364	241.311	4,869.73	882,504	887,373	520.868	32.8160	599.511	910,774
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	58.7153	53.3492	39.2193	492.308	1.48350	0.58188	169.772	170.354	0.54438	43.1365	43.6809	—	137,150	137,150	4.58568	5.12882	13.8632	138,807
Area	21.9950	21.7835	0.26933	29.6643	0.00159	0.03346	—	0.03346	0.02773	—	0.02773	1.27463	83.3347	84.6093	0.00719	0.00073	—	85.0050

Energy	0.47850	0.23925	4.24645	2.89472	0.02610	0.33060	—	0.33060	0.33060	—	0.33060	—	8,629.29	8,629.29	0.91283	0.06900	—	8,672.67
Water	—	—	—	—	—	—	—	—	—	—	—	94.7067	246.294	341.000	9.74226	0.23451	—	654.441
Waste	—	—	—	—	—	—	—	—	—	—	—	710.258	0.00000	710.258	70.9877	0.00000	—	2,484.95
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	85.3927	85.3927
Total	81.1888	75.3720	43.7351	524.868	1.51119	0.94594	169.772	170.718	0.90271	43.1365	44.0392	806.239	146,109	146,915	86.2357	5.43306	99.2559	150,789

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	6.67497	6.02299	4.21973	63.7469	0.18897	0.07129	21.3348	21.4061	0.06671	5.41959	5.48630	—	19,251.5	19,251.5	0.58366	0.64622	4.38374	19,463.0
Bank (with Drive-Through)	2.18608	2.03171	1.13132	15.0729	0.04067	0.01597	4.51742	4.53339	0.01493	1.14754	1.16248	—	4,144.91	4,144.91	0.15776	0.16123	0.92821	4,197.83
Day-Care Center	7.44794	6.92363	3.84750	51.1934	0.13798	0.05421	15.3228	15.3770	0.05069	3.89239	3.94308	—	14,062.2	14,062.2	0.53657	0.54792	3.14844	14,242.0
Gasoline/Service Station	28.3893	25.6163	17.9469	271.121	0.80369	0.30321	90.7387	91.0419	0.28371	23.0500	23.3337	—	81,878.3	81,878.3	2.48238	2.74844	18.6444	82,778.0
General Office Building	2.38855	2.15525	1.50998	22.8110	0.06762	0.02551	7.63438	7.65989	0.02387	1.93933	1.96320	—	6,888.90	6,888.90	0.20886	0.23124	1.56867	6,964.60

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Govern Office Building	1.60061	1.44427	1.01186	15.2861	0.04531	0.01710	5.11594	5.13303	0.01600	1.29958	1.31558	—	4,616.37	4,616.37	0.13996	0.15496	1.05119	4,667.10
Motel	0.27843	0.25124	0.17602	2.65907	0.00788	0.00297	0.88994	0.89291	0.00278	0.22607	0.22885	—	803.036	803.036	0.02435	0.02696	0.18286	811.861
High Turnover (Sit Down Restaurant)	50.7950	45.8335	32.1112	485.098	1.43799	0.54252	162.353	162.895	0.50762	41.2418	41.7494	—	146,499	146,499	4.44155	4.91760	33.3592	148,109
Strip Mall	63.9494	57.7031	40.4270	610.725	1.81038	0.68302	204.397	205.080	0.63908	51.9222	52.5613	—	184,438	184,438	5.59178	6.19112	41.9983	186,465
Fast Food Restaurant w/o Drive Thru	257.528	232.374	162.802	2,459.43	7.29053	2.75056	823.121	825.871	2.57363	209.094	211.668	—	742,745	742,745	22.5185	24.9321	169.130	750,907
Health Club	5.47391	4.93924	3.46045	52.2765	0.15496	0.05846	17.4959	17.5544	0.05470	4.44441	4.49912	—	15,787.5	15,787.5	0.47864	0.52994	3.59495	15,960.9
Medical Office Building	2.31390	2.08789	1.46279	22.0981	0.06551	0.02471	7.39578	7.42049	0.02312	1.87872	1.90184	—	6,673.59	6,673.59	0.20233	0.22402	1.51964	6,746.93
Apartments Mid Rise	33.0120	30.2239	19.0205	272.457	0.77807	0.29818	87.2974	87.5956	0.27892	22.1758	22.4547	—	79,279.0	79,279.0	2.64030	2.82416	17.9373	80,204.6
Single Family Housing	0.27089	0.24801	0.15608	2.23576	0.00638	0.00245	0.71636	0.71880	0.00229	0.18197	0.18426	—	650.558	650.558	0.02167	0.02317	0.14719	658.153
Total	462.309	417.855	289.284	4,346.21	12.8359	4.85017	1,448.33	1,453.18	4.53806	367.914	372.452	—	1,307,718	1,307,718	40.0283	44.1590	297.594	1,322,176
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	6.65374	6.00574	4.60680	57.6811	0.18105	0.07132	21.3348	21.4061	0.06674	5.41959	5.48633	—	18,450.4	18,450.4	0.59530	0.67571	0.11368	18,666.7

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Bank (with Drive-Through)	2.18739	2.03232	1.23400	14.0791	0.03900	0.01598	4.51742	4.53340	0.01495	1.14754	1.16249	—	3,976.10	3,976.10	0.16401	0.16886	0.02407	4,030.55
Day-Care Center	7.45264	6.92587	4.19667	47.8349	0.13232	0.05425	15.3228	15.3770	0.05073	3.89239	3.94312	—	13,489.6	13,489.6	0.55793	0.57387	0.08165	13,674.7
Gasoline/Service Station	28.2990	25.5430	19.5931	245.323	0.77000	0.30334	90.7387	91.0421	0.28383	23.0500	23.3338	—	78,471.1	78,471.1	2.53188	2.87385	0.48350	79,391.3
General Office Building	2.38096	2.14908	1.64848	20.6404	0.06478	0.02552	7.63438	7.65990	0.02388	1.93933	1.96321	—	6,602.23	6,602.23	0.21302	0.24179	0.04068	6,679.65
Government Office Building	1.59552	1.44014	1.10468	13.8315	0.04341	0.01710	5.11594	5.13304	0.01600	1.29958	1.31558	—	4,424.28	4,424.28	0.14275	0.16203	0.02726	4,476.16
Motel	0.27755	0.25052	0.19216	2.40605	0.00755	0.00298	0.88994	0.89291	0.00278	0.22607	0.22885	—	769.620	769.620	0.02483	0.02819	0.00474	778.645
High Turnover (Sit Down Restaurant)	50.6334	45.7023	35.0566	438.939	1.37771	0.54275	162.353	162.895	0.50785	41.2418	41.7496	—	140,403	140,403	4.53012	5.14199	0.86509	142,049
Strip Mall	63.7460	57.5378	44.1353	552.612	1.73450	0.68331	204.397	205.080	0.63936	51.9222	52.5616	—	176,763	176,763	5.70329	6.47361	1.08912	178,836
Fast Food Restaurant w/o Drive Thru	256.709	231.709	177.736	2,225.40	6.98495	2.75173	823.121	825.873	2.57476	209.094	211.669	—	711,837	711,837	22.9675	26.0697	4.38596	720,185
Health Club	5.45650	4.92510	3.77787	47.3022	0.14847	0.05849	17.4959	17.5544	0.05473	4.44441	4.49914	—	15,130.5	15,130.5	0.48819	0.55413	0.09323	15,307.9
Medical Office Building	2.30654	2.08191	1.59696	19.9953	0.06276	0.02472	7.39578	7.42050	0.02313	1.87872	1.90185	—	6,395.89	6,395.89	0.20636	0.23424	0.03941	6,470.89
Apartments Mid Rise	32.9680	30.1847	20.7571	249.780	0.74572	0.29834	87.2974	87.5957	0.27908	22.1758	22.4549	—	76,007.1	76,007.1	2.71584	2.95507	0.46516	76,956.1

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Single Family Housing	0.27053	0.24769	0.17033	2.04968	0.00612	0.00245	0.71636	0.71880	0.00229	0.18197	0.18426	—	623.709	623.709	0.02229	0.02425	0.00382	631.496
Total	460.937	416.735	315.806	3,937.88	12.2983	4.85230	1,448.33	1,453.18	4.54010	367.914	372.454	—	1,253,344	1,253,344	40.8633	46.1773	7.71736	1,268,134
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	0.98131	0.90329	0.59767	7.20174	0.02064	0.00823	2.34476	2.35300	0.00770	0.59577	0.60347	—	1,908.15	1,908.15	0.07085	0.07595	0.19147	1,932.74
Bank (with Drive-Through)	0.34895	0.32395	0.19892	2.31934	0.00636	0.00258	0.71782	0.72040	0.00241	0.18239	0.18480	—	588.125	588.125	0.02383	0.02471	0.05862	596.143
Day-Care Center	1.01971	0.94529	0.58802	6.89704	0.01907	0.00770	2.15497	2.16267	0.00720	0.54754	0.55474	—	1,763.33	1,763.33	0.07031	0.07334	0.17597	1,787.12
Gasoline/Service Station	3.92144	3.66179	2.12980	24.1883	0.06387	0.02621	7.16620	7.19242	0.02451	1.82082	1.84533	—	5,907.24	5,907.24	0.25720	0.25980	0.58517	5,991.68
General Office Building	0.32629	0.29419	0.22922	2.93602	0.00906	0.00352	1.03955	1.04308	0.00330	0.26413	0.26743	—	837.079	837.079	0.02661	0.03041	0.08489	846.891
Government Office Building	0.20632	0.18603	0.14495	1.85655	0.00573	0.00223	0.65735	0.65957	0.00209	0.16702	0.16911	—	529.314	529.314	0.01683	0.01923	0.05368	535.518
Motel	0.05025	0.04530	0.03530	0.45213	0.00139	0.00054	0.16009	0.16063	0.00051	0.04068	0.04118	—	128.907	128.907	0.00410	0.00468	0.01307	130.418
High Turnover (Sit Down Restaurant)	6.43222	5.95444	3.75071	44.2429	0.12327	0.04964	13.9472	13.9968	0.04642	3.54376	3.59018	—	11,398.7	11,398.7	0.44766	0.46963	1.13889	11,551.0
Strip Mall	10.5670	9.52760	7.42351	95.0848	0.29325	0.11416	33.6666	33.7808	0.10681	8.55416	8.66098	—	27,109.3	27,109.3	0.86189	0.98476	2.74913	27,427.1

Fast Food Restaurant w/o Drive Thru	27.9222	25.1757	19.6159	251.252	0.77489	0.30165	88.9607	89.2623	0.28225	22.6035	22.8858	—	71,633.7	71,633.7	2.27745	2.60213	7.26431	72,473.3
Health Club	0.90958	0.82012	0.63900	8.18470	0.02524	0.00983	2.89795	2.90778	0.00919	0.73632	0.74552	—	2,333.51	2,333.51	0.07419	0.08477	0.23664	2,360.86
Medical Office Building	0.31539	0.28437	0.22157	2.83798	0.00875	0.00341	1.00484	1.00825	0.00319	0.25531	0.25850	—	809.127	809.127	0.02572	0.02939	0.08205	818.611
Apartments Mid Rise	5.66683	5.18340	3.61424	44.4793	0.13088	0.05174	14.9283	14.9800	0.04840	3.79305	3.84145	—	12,101.0	12,101.0	0.42545	0.46611	1.21901	12,251.7
Single Family Housing	0.04783	0.04375	0.03050	0.37538	0.00110	0.00044	0.12599	0.12642	0.00041	0.03201	0.03242	—	102.126	102.126	0.00359	0.00393	0.01029	103.398
Total	58.7153	53.3492	39.2193	492.308	1.48350	0.58188	169.772	170.354	0.54438	43.1365	43.6809	—	137,150	137,150	4.58568	5.12882	13.8632	138,807

4.1.2. Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	6.67497	6.02299	4.21973	63.7469	0.18897	0.07129	21.3348	21.4061	0.06671	5.41959	5.48630	—	19,251.5	19,251.5	0.58366	0.64622	4.38374	19,463.0
Bank (with Drive-Through)	2.18608	2.03171	1.13132	15.0729	0.04067	0.01597	4.51742	4.53339	0.01493	1.14754	1.16248	—	4,144.91	4,144.91	0.15776	0.16123	0.92821	4,197.83
Day-Care Center	7.44794	6.92363	3.84750	51.1934	0.13798	0.05421	15.3228	15.3770	0.05069	3.89239	3.94308	—	14,062.2	14,062.2	0.53657	0.54792	3.14844	14,242.0

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Gasolin e/Service	28.3893	25.6163	17.9469	271.121	0.80369	0.30321	90.7387	91.0419	0.28371	23.0500	23.3337	—	81,878.3	81,878.3	2.48238	2.74844	18.6444	82,778.0
General Office Building	2.38855	2.15525	1.50998	22.8110	0.06762	0.02551	7.63438	7.65989	0.02387	1.93933	1.96320	—	6,888.90	6,888.90	0.20886	0.23124	1.56867	6,964.60
Government Office Building	1.60061	1.44427	1.01186	15.2861	0.04531	0.01710	5.11594	5.13303	0.01600	1.29958	1.31558	—	4,616.37	4,616.37	0.13996	0.15496	1.05119	4,667.10
Motel	0.27843	0.25124	0.17602	2.65907	0.00788	0.00297	0.88994	0.89291	0.00278	0.22607	0.22885	—	803.036	803.036	0.02435	0.02696	0.18286	811.861
High Turnover (Sit Down Restaurant)	50.7950	45.8335	32.1112	485.098	1.43799	0.54252	162.353	162.895	0.50762	41.2418	41.7494	—	146,499	146,499	4.44155	4.91760	33.3592	148,109
Strip Mall	63.9494	57.7031	40.4270	610.725	1.81038	0.68302	204.397	205.080	0.63908	51.9222	52.5613	—	184,438	184,438	5.59178	6.19112	41.9983	186,465
Fast Food Restaurant w/o Drive Thru	257.528	232.374	162.802	2,459.43	7.29053	2.75056	823.121	825.871	2.57363	209.094	211.668	—	742,745	742,745	22.5185	24.9321	169.130	750,907
Health Club	5.47391	4.93924	3.46045	52.2765	0.15496	0.05846	17.4959	17.5544	0.05470	4.44441	4.49912	—	15,787.5	15,787.5	0.47864	0.52994	3.59495	15,960.9
Medical Office Building	2.31390	2.08789	1.46279	22.0981	0.06551	0.02471	7.39578	7.42049	0.02312	1.87872	1.90184	—	6,673.59	6,673.59	0.20233	0.22402	1.51964	6,746.93
Apartments Mid Rise	33.0120	30.2239	19.0205	272.457	0.77807	0.29818	87.2974	87.5956	0.27892	22.1758	22.4547	—	79,279.0	79,279.0	2.64030	2.82416	17.9373	80,204.6
Single Family Housing	0.27089	0.24801	0.15608	2.23576	0.00638	0.00245	0.71636	0.71880	0.00229	0.18197	0.18426	—	650.558	650.558	0.02167	0.02317	0.14719	658.153
Total	462.309	417.855	289.284	4,346.21	12.8359	4.85017	1,448.33	1,453.18	4.53806	367.914	372.452	—	1,307,718	1,307,718	40.0283	44.1590	297.594	1,322,176
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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Auto Care Center	6.65374	6.00574	4.60680	57.6811	0.18105	0.07132	21.3348	21.4061	0.06674	5.41959	5.48633	—	18,450.4	18,450.4	0.59530	0.67571	0.11368	18,666.7
Bank (with Drive-Through)	2.18739	2.03232	1.23400	14.0791	0.03900	0.01598	4.51742	4.53340	0.01495	1.14754	1.16249	—	3,976.10	3,976.10	0.16401	0.16886	0.02407	4,030.55
Day-Care Center	7.45264	6.92587	4.19667	47.8349	0.13232	0.05425	15.3228	15.3770	0.05073	3.89239	3.94312	—	13,489.6	13,489.6	0.55793	0.57387	0.08165	13,674.7
Gasoline/Service Station	28.2990	25.5430	19.5931	245.323	0.77000	0.30334	90.7387	91.0421	0.28383	23.0500	23.3338	—	78,471.1	78,471.1	2.53188	2.87385	0.48350	79,391.3
General Office Building	2.38096	2.14908	1.64848	20.6404	0.06478	0.02552	7.63438	7.65990	0.02388	1.93933	1.96321	—	6,602.23	6,602.23	0.21302	0.24179	0.04068	6,679.65
Government Office Building	1.59552	1.44014	1.10468	13.8315	0.04341	0.01710	5.11594	5.13304	0.01600	1.29958	1.31558	—	4,424.28	4,424.28	0.14275	0.16203	0.02726	4,476.16
Motel	0.27755	0.25052	0.19216	2.40605	0.00755	0.00298	0.88994	0.89291	0.00278	0.22607	0.22885	—	769.620	769.620	0.02483	0.02819	0.00474	778.645
High Turnover (Sit Down Restaurant)	50.6334	45.7023	35.0566	438.939	1.37771	0.54275	162.353	162.895	0.50785	41.2418	41.7496	—	140,403	140,403	4.53012	5.14199	0.86509	142,049
Strip Mall	63.7460	57.5378	44.1353	552.612	1.73450	0.68331	204.397	205.080	0.63936	51.9222	52.5616	—	176,763	176,763	5.70329	6.47361	1.08912	178,836
Fast Food Restaurant w/o Drive Thru	256.709	231.709	177.736	2,225.40	6.98495	2.75173	823.121	825.873	2.57476	209.094	211.669	—	711,837	711,837	22.9675	26.0697	4.38596	720,185
Health Club	5.45650	4.92510	3.77787	47.3022	0.14847	0.05849	17.4959	17.5544	0.05473	4.44441	4.49914	—	15,130.5	15,130.5	0.48819	0.55413	0.09323	15,307.9
Medical Office Building	2.30654	2.08191	1.59696	19.9953	0.06276	0.02472	7.39578	7.42050	0.02313	1.87872	1.90185	—	6,395.89	6,395.89	0.20636	0.23424	0.03941	6,470.89

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Apartment Mid Rise	32.9680	30.1847	20.7571	249.780	0.74572	0.29834	87.2974	87.5957	0.27908	22.1758	22.4549	—	76,007.1	76,007.1	2.71584	2.95507	0.46516	76,956.1
Single Family Housing	0.27053	0.24769	0.17033	2.04968	0.00612	0.00245	0.71636	0.71880	0.00229	0.18197	0.18426	—	623.709	623.709	0.02229	0.02425	0.00382	631.496
Total	460.937	416.735	315.806	3,937.88	12.2983	4.85230	1,448.33	1,453.18	4.54010	367.914	372.454	—	1,253,344	1,253,344	40.8633	46.1773	7.71736	1,268,134
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	0.98131	0.90329	0.59767	7.20174	0.02064	0.00823	2.34476	2.35300	0.00770	0.59577	0.60347	—	1,908.15	1,908.15	0.07085	0.07595	0.19147	1,932.74
Bank (with Drive-Through)	0.34895	0.32395	0.19892	2.31934	0.00636	0.00258	0.71782	0.72040	0.00241	0.18239	0.18480	—	588.125	588.125	0.02383	0.02471	0.05862	596.143
Day-Care Center	1.01971	0.94529	0.58802	6.89704	0.01907	0.00770	2.15497	2.16267	0.00720	0.54754	0.55474	—	1,763.33	1,763.33	0.07031	0.07334	0.17597	1,787.12
Gasoline/Service Station	3.92144	3.66179	2.12980	24.1883	0.06387	0.02621	7.16620	7.19242	0.02451	1.82082	1.84533	—	5,907.24	5,907.24	0.25720	0.25980	0.58517	5,991.68
General Office Building	0.32629	0.29419	0.22922	2.93602	0.00906	0.00352	1.03955	1.04308	0.00330	0.26413	0.26743	—	837.079	837.079	0.02661	0.03041	0.08489	846.891
Government Office Building	0.20632	0.18603	0.14495	1.85655	0.00573	0.00223	0.65735	0.65957	0.00209	0.16702	0.16911	—	529.314	529.314	0.01683	0.01923	0.05368	535.518
Motel	0.05025	0.04530	0.03530	0.45213	0.00139	0.00054	0.16009	0.16063	0.00051	0.04068	0.04118	—	128.907	128.907	0.00410	0.00468	0.01307	130.418
High Turnover (Sit Down Restaurant)	6.43222	5.95444	3.75071	44.2429	0.12327	0.04964	13.9472	13.9968	0.04642	3.54376	3.59018	—	11,398.7	11,398.7	0.44766	0.46963	1.13889	11,551.0
Strip Mall	10.5670	9.52760	7.42351	95.0848	0.29325	0.11416	33.6666	33.7808	0.10681	8.55416	8.66098	—	27,109.3	27,109.3	0.86189	0.98476	2.74913	27,427.1

Fast Food Restaurant w/o Drive Thru	27.9222	25.1757	19.6159	251.252	0.77489	0.30165	88.9607	89.2623	0.28225	22.6035	22.8858	—	71,633.7	71,633.7	2.27745	2.60213	7.26431	72,473.3
Health Club	0.90958	0.82012	0.63900	8.18470	0.02524	0.00983	2.89795	2.90778	0.00919	0.73632	0.74552	—	2,333.51	2,333.51	0.07419	0.08477	0.23664	2,360.86
Medical Office Building	0.31539	0.28437	0.22157	2.83798	0.00875	0.00341	1.00484	1.00825	0.00319	0.25531	0.25850	—	809.127	809.127	0.02572	0.02939	0.08205	818.611
Apartments Mid Rise	5.66683	5.18340	3.61424	44.4793	0.13088	0.05174	14.9283	14.9800	0.04840	3.79305	3.84145	—	12,101.0	12,101.0	0.42545	0.46611	1.21901	12,251.7
Single Family Housing	0.04783	0.04375	0.03050	0.37538	0.00110	0.00044	0.12599	0.12642	0.00041	0.03201	0.03242	—	102.126	102.126	0.00359	0.00393	0.01029	103.398
Total	58.7153	53.3492	39.2193	492.308	1.48350	0.58188	169.772	170.354	0.54438	43.1365	43.6809	—	137,150	137,150	4.58568	5.12882	13.8632	138,807

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	742.585	742.585	0.09397	0.01139	—	748.328
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	—	69.1969	69.1969	0.00876	0.00106	—	69.7321

Day-Car e Center	—	—	—	—	—	—	—	—	—	—	—	—	323.312	323.312	0.04091	0.00496	—	325.812
Gasolin e/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	118.387	118.387	0.01498	0.00182	—	119.303
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	1,283.64	1,283.64	0.16243	0.01969	—	1,293.57
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	347.339	347.339	0.04395	0.00533	—	350.026
Motel	—	—	—	—	—	—	—	—	—	—	—	—	73.1278	73.1278	0.00925	0.00112	—	73.6934
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	3,709.09	3,709.09	0.46935	0.05689	—	3,737.78
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	3,965.68	3,965.68	0.50182	0.06083	—	3,996.36
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	3,841.56	3,841.56	0.48611	0.05892	—	3,871.28
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	548.311	548.311	0.06938	0.00841	—	552.552
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	407.436	407.436	0.05156	0.00625	—	410.587
Apartme nts Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	8,192.84	8,192.84	1.03672	0.12566	—	8,256.20
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	59.1180	59.1180	0.00748	0.00091	—	59.5752

Total	—	—	—	—	—	—	—	—	—	—	—	—	23,681.6	23,681.6	2.99666	0.36323	—	23,864.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	742.585	742.585	0.09397	0.01139	—	748.328
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	—	69.1969	69.1969	0.00876	0.00106	—	69.7321
Day-Care Center	—	—	—	—	—	—	—	—	—	—	—	—	323.312	323.312	0.04091	0.00496	—	325.812
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	118.387	118.387	0.01498	0.00182	—	119.303
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	1,283.64	1,283.64	0.16243	0.01969	—	1,293.57
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	347.339	347.339	0.04395	0.00533	—	350.026
Motel	—	—	—	—	—	—	—	—	—	—	—	—	73.1278	73.1278	0.00925	0.00112	—	73.6934
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	3,709.09	3,709.09	0.46935	0.05689	—	3,737.78
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	3,965.68	3,965.68	0.50182	0.06083	—	3,996.36
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	3,841.56	3,841.56	0.48611	0.05892	—	3,871.28

Health Club	—	—	—	—	—	—	—	—	—	—	—	—	548.311	548.311	0.06938	0.00841	—	552.552
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	407.436	407.436	0.05156	0.00625	—	410.587
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	8,192.84	8,192.84	1.03672	0.12566	—	8,256.20
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	59.1180	59.1180	0.00748	0.00091	—	59.5752
Total	—	—	—	—	—	—	—	—	—	—	—	—	23,681.6	23,681.6	2.99666	0.36323	—	23,864.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	122.943	122.943	0.01556	0.00189	—	123.894
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	—	11.4563	11.4563	0.00145	0.00018	—	11.5449
Day-Care Center	—	—	—	—	—	—	—	—	—	—	—	—	53.5279	53.5279	0.00677	0.00082	—	53.9419
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	19.6004	19.6004	0.00248	0.00030	—	19.7520
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	212.521	212.521	0.02689	0.00326	—	214.165
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	57.5060	57.5060	0.00728	0.00088	—	57.9507
Motel	—	—	—	—	—	—	—	—	—	—	—	—	12.1071	12.1071	0.00153	0.00019	—	12.2008

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	614.082	614.082	0.07771	0.00942	—	618.832
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	656.564	656.564	0.08308	0.01007	—	661.642
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	636.015	636.015	0.08048	0.00976	—	640.934
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	90.7792	90.7792	0.01149	0.00139	—	91.4813
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	67.4557	67.4557	0.00854	0.00103	—	67.9774
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,356.42	1,356.42	0.17164	0.02080	—	1,366.91
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	9.78765	9.78765	0.00124	0.00015	—	9.86335
Total	—	—	—	—	—	—	—	—	—	—	—	—	3,920.76	3,920.76	0.49613	0.06014	—	3,951.09

4.2.2. Electricity Emissions By Land Use - Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	742.585	742.585	0.09397	0.01139	—	748.328

Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	—	69.1969	69.1969	0.00876	0.00106	—	69.7321
Day-Car e Center	—	—	—	—	—	—	—	—	—	—	—	—	323.312	323.312	0.04091	0.00496	—	325.812
Gasolin e/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	118.387	118.387	0.01498	0.00182	—	119.303
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	1,283.64	1,283.64	0.16243	0.01969	—	1,293.57
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	347.339	347.339	0.04395	0.00533	—	350.026
Motel	—	—	—	—	—	—	—	—	—	—	—	—	73.1278	73.1278	0.00925	0.00112	—	73.6934
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	3,709.09	3,709.09	0.46935	0.05689	—	3,737.78
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	3,965.68	3,965.68	0.50182	0.06083	—	3,996.36
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	3,841.56	3,841.56	0.48611	0.05892	—	3,871.28
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	548.311	548.311	0.06938	0.00841	—	552.552
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	407.436	407.436	0.05156	0.00625	—	410.587
Apartme nts Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	8,192.84	8,192.84	1.03672	0.12566	—	8,256.20

Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	59.1180	59.1180	0.00748	0.00091	—	59.5752
Total	—	—	—	—	—	—	—	—	—	—	—	—	23,681.6	23,681.6	2.99666	0.36323	—	23,864.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	742.585	742.585	0.09397	0.01139	—	748.328
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	—	69.1969	69.1969	0.00876	0.00106	—	69.7321
Day-Care Center	—	—	—	—	—	—	—	—	—	—	—	—	323.312	323.312	0.04091	0.00496	—	325.812
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	118.387	118.387	0.01498	0.00182	—	119.303
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	1,283.64	1,283.64	0.16243	0.01969	—	1,293.57
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	347.339	347.339	0.04395	0.00533	—	350.026
Motel	—	—	—	—	—	—	—	—	—	—	—	—	73.1278	73.1278	0.00925	0.00112	—	73.6934
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	3,709.09	3,709.09	0.46935	0.05689	—	3,737.78
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	3,965.68	3,965.68	0.50182	0.06083	—	3,996.36

Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	3,841.56	3,841.56	0.48611	0.05892	—	3,871.28
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	548.311	548.311	0.06938	0.00841	—	552.552
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	407.436	407.436	0.05156	0.00625	—	410.587
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	8,192.84	8,192.84	1.03672	0.12566	—	8,256.20
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	59.1180	59.1180	0.00748	0.00091	—	59.5752
Total	—	—	—	—	—	—	—	—	—	—	—	—	23,681.6	23,681.6	2.99666	0.36323	—	23,864.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	122.943	122.943	0.01556	0.00189	—	123.894
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	—	11.4563	11.4563	0.00145	0.00018	—	11.5449
Day-Care Center	—	—	—	—	—	—	—	—	—	—	—	—	53.5279	53.5279	0.00677	0.00082	—	53.9419
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	19.6004	19.6004	0.00248	0.00030	—	19.7520
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	212.521	212.521	0.02689	0.00326	—	214.165

Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	57.5060	57.5060	0.00728	0.00088	—	57.9507
Motel	—	—	—	—	—	—	—	—	—	—	—	—	12.1071	12.1071	0.00153	0.00019	—	12.2008
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	614.082	614.082	0.07771	0.00942	—	618.832
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	656.564	656.564	0.08308	0.01007	—	661.642
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	636.015	636.015	0.08048	0.00976	—	640.934
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	90.7792	90.7792	0.01149	0.00139	—	91.4813
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	67.4557	67.4557	0.00854	0.00103	—	67.9774
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,356.42	1,356.42	0.17164	0.02080	—	1,366.91
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	9.78765	9.78765	0.00124	0.00015	—	9.86335
Total	—	—	—	—	—	—	—	—	—	—	—	—	3,920.76	3,920.76	0.49613	0.06014	—	3,951.09

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
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Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	0.13702	0.06851	1.24560	1.04631	0.00747	0.09467	—	0.09467	0.09467	—	0.09467	—	1,486.21	1,486.21	0.13153	0.00280	—	1,490.33
Bank (with Drive-Through)	0.01277	0.00638	0.11607	0.09750	0.00070	0.00882	—	0.00882	0.00882	—	0.00882	—	138.491	138.491	0.01226	0.00026	—	138.875
Day-Care Center	0.04485	0.02242	0.40771	0.34248	0.00245	0.03099	—	0.03099	0.03099	—	0.03099	—	486.470	486.470	0.04305	0.00092	—	487.819
Gasoline/Service Station	0.02184	0.01092	0.19858	0.16681	0.00119	0.01509	—	0.01509	0.01509	—	0.01509	—	236.941	236.941	0.02097	0.00045	—	237.598
General Office Building	0.07550	0.03775	0.68637	0.57655	0.00412	0.05216	—	0.05216	0.05216	—	0.05216	—	818.954	818.954	0.07248	0.00154	—	821.225
Government Office Building	0.02043	0.01021	0.18572	0.15601	0.00111	0.01412	—	0.01412	0.01412	—	0.01412	—	221.600	221.600	0.01961	0.00042	—	222.215
Motel	0.00624	0.00312	0.05672	0.04764	0.00034	0.00431	—	0.00431	0.00431	—	0.00431	—	67.6761	67.6761	0.00599	0.00013	—	67.8638
High Turnover (Sit Down Restaurant)	0.50993	0.25496	4.63572	3.89401	0.02781	0.35232	—	0.35232	0.35232	—	0.35232	—	5,531.19	5,531.19	0.48951	0.01042	—	5,546.53
Strip Mall	0.09997	0.04998	0.90879	0.76338	0.00545	0.06907	—	0.06907	0.06907	—	0.06907	—	1,084.34	1,084.34	0.09596	0.00204	—	1,087.35
Fast Food Restaurant w/o Drive Thru	0.52814	0.26407	4.80129	4.03309	0.02881	0.36490	—	0.36490	0.36490	—	0.36490	—	5,728.74	5,728.74	0.50699	0.01079	—	5,744.63

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Health Club	0.10117	0.05059	0.91973	0.77257	0.00552	0.06990	—	0.06990	0.06990	—	0.06990	—	1,097.39	1,097.39	0.09712	0.00207	—	1,100.44
Medical Office Building	0.02396	0.01198	0.21786	0.18300	0.00131	0.01656	—	0.01656	0.01656	—	0.01656	—	259.941	259.941	0.02300	0.00049	—	260.662
Apartments Mid Rise	1.02650	0.51325	8.77187	3.73271	0.05599	0.70922	—	0.70922	0.70922	—	0.70922	—	11,134.4	11,134.4	0.98539	0.02097	—	11,165.2
Single Family Housing	0.01359	0.00680	0.11615	0.04943	0.00074	0.00939	—	0.00939	0.00939	—	0.00939	—	147.431	147.431	0.01305	0.00028	—	147.840
Total	2.62191	1.31095	23.2682	15.8615	0.14301	1.81150	—	1.81150	1.81150	—	1.81150	—	28,439.7	28,439.7	2.51690	0.05355	—	28,518.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	0.13702	0.06851	1.24560	1.04631	0.00747	0.09467	—	0.09467	0.09467	—	0.09467	—	1,486.21	1,486.21	0.13153	0.00280	—	1,490.33
Bank (with Drive-Through)	0.01277	0.00638	0.11607	0.09750	0.00070	0.00882	—	0.00882	0.00882	—	0.00882	—	138.491	138.491	0.01226	0.00026	—	138.875
Day-Care Center	0.04485	0.02242	0.40771	0.34248	0.00245	0.03099	—	0.03099	0.03099	—	0.03099	—	486.470	486.470	0.04305	0.00092	—	487.819
Gasoline/Service Station	0.02184	0.01092	0.19858	0.16681	0.00119	0.01509	—	0.01509	0.01509	—	0.01509	—	236.941	236.941	0.02097	0.00045	—	237.598
General Office Building	0.07550	0.03775	0.68637	0.57655	0.00412	0.05216	—	0.05216	0.05216	—	0.05216	—	818.954	818.954	0.07248	0.00154	—	821.225
Government Office Building	0.02043	0.01021	0.18572	0.15601	0.00111	0.01412	—	0.01412	0.01412	—	0.01412	—	221.600	221.600	0.01961	0.00042	—	222.215
Motel	0.00624	0.00312	0.05672	0.04764	0.00034	0.00431	—	0.00431	0.00431	—	0.00431	—	67.6761	67.6761	0.00599	0.00013	—	67.8638

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High Turnover (Sit Down Restaurant)	0.50993	0.25496	4.63572	3.89401	0.02781	0.35232	—	0.35232	0.35232	—	0.35232	—	5,531.19	5,531.19	0.48951	0.01042	—	5,546.53
Strip Mall	0.09997	0.04998	0.90879	0.76338	0.00545	0.06907	—	0.06907	0.06907	—	0.06907	—	1,084.34	1,084.34	0.09596	0.00204	—	1,087.35
Fast Food Restaurant w/o Drive Thru	0.52814	0.26407	4.80129	4.03309	0.02881	0.36490	—	0.36490	0.36490	—	0.36490	—	5,728.74	5,728.74	0.50699	0.01079	—	5,744.63
Health Club	0.10117	0.05059	0.91973	0.77257	0.00552	0.06990	—	0.06990	0.06990	—	0.06990	—	1,097.39	1,097.39	0.09712	0.00207	—	1,100.44
Medical Office Building	0.02396	0.01198	0.21786	0.18300	0.00131	0.01656	—	0.01656	0.01656	—	0.01656	—	259.941	259.941	0.02300	0.00049	—	260.662
Apartments Mid Rise	1.02650	0.51325	8.77187	3.73271	0.05599	0.70922	—	0.70922	0.70922	—	0.70922	—	11,134.4	11,134.4	0.98539	0.02097	—	11,165.2
Single Family Housing	0.01359	0.00680	0.11615	0.04943	0.00074	0.00939	—	0.00939	0.00939	—	0.00939	—	147.431	147.431	0.01305	0.00028	—	147.840
Total	2.62191	1.31095	23.2682	15.8615	0.14301	1.81150	—	1.81150	1.81150	—	1.81150	—	28,439.7	28,439.7	2.51690	0.05355	—	28,518.6
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	0.02501	0.01250	0.22732	0.19095	0.00136	0.01728	—	0.01728	0.01728	—	0.01728	—	246.059	246.059	0.02178	0.00046	—	246.742
Bank (with Drive-Through)	0.00233	0.00117	0.02118	0.01779	0.00013	0.00161	—	0.00161	0.00161	—	0.00161	—	22.9287	22.9287	0.00203	0.00004	—	22.9923
Day-Care Center	0.00818	0.00409	0.07441	0.06250	0.00045	0.00565	—	0.00565	0.00565	—	0.00565	—	80.5406	80.5406	0.00713	0.00015	—	80.7640

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Gasolin e/Service Station	0.00399	0.00199	0.03624	0.03044	0.00022	0.00275	—	0.00275	0.00275	—	0.00275	—	39.2282	39.2282	0.00347	0.00007	—	39.3370
General Office Building	0.01378	0.00689	0.12526	0.10522	0.00075	0.00952	—	0.00952	0.00952	—	0.00952	—	135.587	135.587	0.01200	0.00026	—	135.963
Govern ment Office Building	0.00373	0.00186	0.03389	0.02847	0.00020	0.00258	—	0.00258	0.00258	—	0.00258	—	36.6884	36.6884	0.00325	0.00007	—	36.7902
Motel	0.00114	0.00057	0.01035	0.00870	0.00006	0.00079	—	0.00079	0.00079	—	0.00079	—	11.2046	11.2046	0.00099	0.00002	—	11.2356
High Turnover (Sit Down Restaurant)	0.09306	0.04653	0.84602	0.71066	0.00508	0.06430	—	0.06430	0.06430	—	0.06430	—	915.752	915.752	0.08104	0.00172	—	918.292
Strip Mall	0.01824	0.00912	0.16585	0.13932	0.00100	0.01260	—	0.01260	0.01260	—	0.01260	—	179.525	179.525	0.01589	0.00034	—	180.022
Fast Food Restaurant w/o Drive Thru	0.09639	0.04819	0.87624	0.73604	0.00526	0.06659	—	0.06659	0.06659	—	0.06659	—	948.459	948.459	0.08394	0.00179	—	951.090
Health Club	0.01846	0.00923	0.16785	0.14099	0.00101	0.01276	—	0.01276	0.01276	—	0.01276	—	181.686	181.686	0.01608	0.00034	—	182.190
Medical Office Building	0.00437	0.00219	0.03976	0.03340	0.00024	0.00302	—	0.00302	0.00302	—	0.00302	—	43.0363	43.0363	0.00381	0.00008	—	43.1556
Apartme nts Mid Rise	0.18734	0.09367	1.60087	0.68122	0.01022	0.12943	—	0.12943	0.12943	—	0.12943	—	1,843.42	1,843.42	0.16314	0.00347	—	1,848.53
Single Family Housing	0.00248	0.00124	0.02120	0.00902	0.00014	0.00171	—	0.00171	0.00171	—	0.00171	—	24.4089	24.4089	0.00216	0.00005	—	24.4766
Total	0.47850	0.23925	4.24645	2.89472	0.02610	0.33060	—	0.33060	0.33060	—	0.33060	—	4,708.52	4,708.52	0.41670	0.00887	—	4,721.58

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	0.13702	0.06851	1.24560	1.04631	0.00747	0.09467	—	0.09467	0.09467	—	0.09467	—	1,486.21	1,486.21	0.13153	0.00280	—	1,490.33
Bank (with Drive-Through)	0.01277	0.00638	0.11607	0.09750	0.00070	0.00882	—	0.00882	0.00882	—	0.00882	—	138.491	138.491	0.01226	0.00026	—	138.875
Day-Care Center	0.04485	0.02242	0.40771	0.34248	0.00245	0.03099	—	0.03099	0.03099	—	0.03099	—	486.470	486.470	0.04305	0.00092	—	487.819
Gasoline/Service Station	0.02184	0.01092	0.19858	0.16681	0.00119	0.01509	—	0.01509	0.01509	—	0.01509	—	236.941	236.941	0.02097	0.00045	—	237.598
General Office Building	0.07550	0.03775	0.68637	0.57655	0.00412	0.05216	—	0.05216	0.05216	—	0.05216	—	818.954	818.954	0.07248	0.00154	—	821.225
Government Office Building	0.02043	0.01021	0.18572	0.15601	0.00111	0.01412	—	0.01412	0.01412	—	0.01412	—	221.600	221.600	0.01961	0.00042	—	222.215
Motel	0.00624	0.00312	0.05672	0.04764	0.00034	0.00431	—	0.00431	0.00431	—	0.00431	—	67.6761	67.6761	0.00599	0.00013	—	67.8638
High Turnover (Sit Down Restaurant)	0.50993	0.25496	4.63572	3.89401	0.02781	0.35232	—	0.35232	0.35232	—	0.35232	—	5,531.19	5,531.19	0.48951	0.01042	—	5,546.53
Strip Mall	0.09997	0.04998	0.90879	0.76338	0.00545	0.06907	—	0.06907	0.06907	—	0.06907	—	1,084.34	1,084.34	0.09596	0.00204	—	1,087.35

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Fast Food Restaurant w/o Drive Thru	0.52814	0.26407	4.80129	4.03309	0.02881	0.36490	—	0.36490	0.36490	—	0.36490	—	5,728.74	5,728.74	0.50699	0.01079	—	5,744.63
Health Club	0.10117	0.05059	0.91973	0.77257	0.00552	0.06990	—	0.06990	0.06990	—	0.06990	—	1,097.39	1,097.39	0.09712	0.00207	—	1,100.44
Medical Office Building	0.02396	0.01198	0.21786	0.18300	0.00131	0.01656	—	0.01656	0.01656	—	0.01656	—	259.941	259.941	0.02300	0.00049	—	260.662
Apartments Mid Rise	1.02650	0.51325	8.77187	3.73271	0.05599	0.70922	—	0.70922	0.70922	—	0.70922	—	11,134.4	11,134.4	0.98539	0.02097	—	11,165.2
Single Family Housing	0.01359	0.00680	0.11615	0.04943	0.00074	0.00939	—	0.00939	0.00939	—	0.00939	—	147.431	147.431	0.01305	0.00028	—	147.840
Total	2.62191	1.31095	23.2682	15.8615	0.14301	1.81150	—	1.81150	1.81150	—	1.81150	—	28,439.7	28,439.7	2.51690	0.05355	—	28,518.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	0.13702	0.06851	1.24560	1.04631	0.00747	0.09467	—	0.09467	0.09467	—	0.09467	—	1,486.21	1,486.21	0.13153	0.00280	—	1,490.33
Bank (with Drive-Through)	0.01277	0.00638	0.11607	0.09750	0.00070	0.00882	—	0.00882	0.00882	—	0.00882	—	138.491	138.491	0.01226	0.00026	—	138.875
Day-Care Center	0.04485	0.02242	0.40771	0.34248	0.00245	0.03099	—	0.03099	0.03099	—	0.03099	—	486.470	486.470	0.04305	0.00092	—	487.819
Gasoline/Service Station	0.02184	0.01092	0.19858	0.16681	0.00119	0.01509	—	0.01509	0.01509	—	0.01509	—	236.941	236.941	0.02097	0.00045	—	237.598
General Office Building	0.07550	0.03775	0.68637	0.57655	0.00412	0.05216	—	0.05216	0.05216	—	0.05216	—	818.954	818.954	0.07248	0.00154	—	821.225

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Govern ment	0.02043	0.01021	0.18572	0.15601	0.00111	0.01412	—	0.01412	0.01412	—	0.01412	—	221.600	221.600	0.01961	0.00042	—	222.215
Motel	0.00624	0.00312	0.05672	0.04764	0.00034	0.00431	—	0.00431	0.00431	—	0.00431	—	67.6761	67.6761	0.00599	0.00013	—	67.8638
High Turnover (Sit Down Restaurant)	0.50993	0.25496	4.63572	3.89401	0.02781	0.35232	—	0.35232	0.35232	—	0.35232	—	5,531.19	5,531.19	0.48951	0.01042	—	5,546.53
Strip Mall	0.09997	0.04998	0.90879	0.76338	0.00545	0.06907	—	0.06907	0.06907	—	0.06907	—	1,084.34	1,084.34	0.09596	0.00204	—	1,087.35
Fast Food Restaurant w/o Drive Thru	0.52814	0.26407	4.80129	4.03309	0.02881	0.36490	—	0.36490	0.36490	—	0.36490	—	5,728.74	5,728.74	0.50699	0.01079	—	5,744.63
Health Club	0.10117	0.05059	0.91973	0.77257	0.00552	0.06990	—	0.06990	0.06990	—	0.06990	—	1,097.39	1,097.39	0.09712	0.00207	—	1,100.44
Medical Office Building	0.02396	0.01198	0.21786	0.18300	0.00131	0.01656	—	0.01656	0.01656	—	0.01656	—	259.941	259.941	0.02300	0.00049	—	260.662
Apartme nts Mid Rise	1.02650	0.51325	8.77187	3.73271	0.05599	0.70922	—	0.70922	0.70922	—	0.70922	—	11,134.4	11,134.4	0.98539	0.02097	—	11,165.2
Single Family Housing	0.01359	0.00680	0.11615	0.04943	0.00074	0.00939	—	0.00939	0.00939	—	0.00939	—	147.431	147.431	0.01305	0.00028	—	147.840
Total	2.62191	1.31095	23.2682	15.8615	0.14301	1.81150	—	1.81150	1.81150	—	1.81150	—	28,439.7	28,439.7	2.51690	0.05355	—	28,518.6
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automo bile Care Center	0.02501	0.01250	0.22732	0.19095	0.00136	0.01728	—	0.01728	0.01728	—	0.01728	—	246.059	246.059	0.02178	0.00046	—	246.742
Bank (with Drive-Through)	0.00233	0.00117	0.02118	0.01779	0.00013	0.00161	—	0.00161	0.00161	—	0.00161	—	22.9287	22.9287	0.00203	0.00004	—	22.9923

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Day-Car e Center	0.00818	0.00409	0.07441	0.06250	0.00045	0.00565	—	0.00565	0.00565	—	0.00565	—	80.5406	80.5406	0.00713	0.00015	—	80.7640
Gasolin e/Service Station	0.00399	0.00199	0.03624	0.03044	0.00022	0.00275	—	0.00275	0.00275	—	0.00275	—	39.2282	39.2282	0.00347	0.00007	—	39.3370
General Office Building	0.01378	0.00689	0.12526	0.10522	0.00075	0.00952	—	0.00952	0.00952	—	0.00952	—	135.587	135.587	0.01200	0.00026	—	135.963
Govern ment Office Building	0.00373	0.00186	0.03389	0.02847	0.00020	0.00258	—	0.00258	0.00258	—	0.00258	—	36.6884	36.6884	0.00325	0.00007	—	36.7902
Motel	0.00114	0.00057	0.01035	0.00870	0.00006	0.00079	—	0.00079	0.00079	—	0.00079	—	11.2046	11.2046	0.00099	0.00002	—	11.2356
High Turnover (Sit Down Restaurant)	0.09306	0.04653	0.84602	0.71066	0.00508	0.06430	—	0.06430	0.06430	—	0.06430	—	915.752	915.752	0.08104	0.00172	—	918.292
Strip Mall	0.01824	0.00912	0.16585	0.13932	0.00100	0.01260	—	0.01260	0.01260	—	0.01260	—	179.525	179.525	0.01589	0.00034	—	180.022
Fast Food Restaurant w/o Drive Thru	0.09639	0.04819	0.87624	0.73604	0.00526	0.06659	—	0.06659	0.06659	—	0.06659	—	948.459	948.459	0.08394	0.00179	—	951.090
Health Club	0.01846	0.00923	0.16785	0.14099	0.00101	0.01276	—	0.01276	0.01276	—	0.01276	—	181.686	181.686	0.01608	0.00034	—	182.190
Medical Office Building	0.00437	0.00219	0.03976	0.03340	0.00024	0.00302	—	0.00302	0.00302	—	0.00302	—	43.0363	43.0363	0.00381	0.00008	—	43.1556
Apartme nts Mid Rise	0.18734	0.09367	1.60087	0.68122	0.01022	0.12943	—	0.12943	0.12943	—	0.12943	—	1,843.42	1,843.42	0.16314	0.00347	—	1,848.53
Single Family Housing	0.00248	0.00124	0.02120	0.00902	0.00014	0.00171	—	0.00171	0.00171	—	0.00171	—	24.4089	24.4089	0.00216	0.00005	—	24.4766

Total	0.47850	0.23925	4.24645	2.89472	0.02610	0.33060	—	0.33060	0.33060	—	0.33060	—	4,708.52	4,708.52	0.41670	0.00887	—	4,721.58
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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	909.422	820.203	65.1497	1,596.85	4.07371	224.166	—	224.166	220.085	—	220.085	29,412.1	56,198.2	85,610.3	87.6875	1.06591	—	88,120.1
Consumer Products	93.4727	93.4727	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	8.58471	8.58471	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	26.6087	24.9509	2.12974	236.704	0.01117	0.18204	—	0.18204	0.13772	—	0.13772	—	713.408	713.408	0.02986	0.00599	—	715.939
Total	1,038.09	947.211	67.2795	1,833.56	4.08488	224.348	—	224.348	220.223	—	220.223	29,412.1	56,911.6	86,323.7	87.7174	1.07189	—	88,836.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	909.422	820.203	65.1497	1,596.85	4.07371	224.166	—	224.166	220.085	—	220.085	29,412.1	56,198.2	85,610.3	87.6875	1.06591	—	88,120.1
Consumer Products	93.4727	93.4727	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coatings	8.58471	8.58471	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	1,011.48	922.260	65.1497	1,596.85	4.07371	224.166	—	224.166	220.085	—	220.085	29,412.1	56,198.2	85,610.3	87.6875	1.06591	—	88,120.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	11.3678	10.2525	0.81437	19.9607	0.05092	2.80207	—	2.80207	2.75107	—	2.75107	333.528	637.277	970.805	0.99436	0.01209	—	999.266
Consumer Products	17.0588	17.0588	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.56671	1.56671	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	3.32609	3.11886	0.26622	29.5880	0.00140	0.02276	—	0.02276	0.01722	—	0.01722	—	80.8992	80.8992	0.00339	0.00068	—	81.1862
Total	33.3193	31.9969	1.08059	49.5487	0.05232	2.82483	—	2.82483	2.76828	—	2.76828	333.528	718.176	1,051.70	0.99775	0.01277	—	1,080.45

4.3.2. Mitigated

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	3.47550	3.13453	0.24898	6.10262	0.01557	0.85668	—	0.85668	0.84109	—	0.84109	112.403	214.770	327.173	0.33511	0.00407	—	336.765
Consumer Products	93.4727	93.4727	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	8.58471	8.58471	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscape Equipment	26.6087	24.9509	2.12974	236.704	0.01117	0.18204	—	0.18204	0.13772	—	0.13772	—	713.408	713.408	0.02986	0.00599	—	715.939
Total	132.142	130.143	2.37872	242.807	0.02673	1.03873	—	1.03873	0.97881	—	0.97881	112.403	928.178	1,040.58	0.36497	0.01006	—	1,052.70
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	3.47550	3.13453	0.24898	6.10262	0.01557	0.85668	—	0.85668	0.84109	—	0.84109	112.403	214.770	327.173	0.33511	0.00407	—	336.765
Consumer Products	93.4727	93.4727	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	8.58471	8.58471	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	105.533	105.192	0.24898	6.10262	0.01557	0.85668	—	0.85668	0.84109	—	0.84109	112.403	214.770	327.173	0.33511	0.00407	—	336.765
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.04344	0.03918	0.00311	0.07628	0.00019	0.01071	—	0.01071	0.01051	—	0.01051	1.27463	2.43545	3.71008	0.00380	0.00005	—	3.81885
Consumer Products	17.0588	17.0588	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.56671	1.56671	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	3.32609	3.11886	0.26622	29.5880	0.00140	0.02276	—	0.02276	0.01722	—	0.01722	—	80.8992	80.8992	0.00339	0.00068	—	81.1862
Total	21.9950	21.7835	0.26933	29.6643	0.00159	0.03346	—	0.03346	0.02773	—	0.02773	1.27463	83.3347	84.6093	0.00719	0.00073	—	85.0050

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	19.5326	50.1534	69.6860	2.00919	0.04836	—	134.326
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	0.76656	1.99937	2.76593	0.07885	0.00190	—	5.30296
Day-Care Center	—	—	—	—	—	—	—	—	—	—	—	5.94628	15.4775	21.4237	0.61168	0.01472	—	41.1036
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.76354	2.02983	2.79337	0.07855	0.00189	—	5.32070
General Office Building	—	—	—	—	—	—	—	—	—	—	—	34.3362	87.6877	122.024	3.53188	0.08500	—	235.650
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	10.3849	26.5039	36.8888	1.06821	0.02571	—	71.2547
Motel	—	—	—	—	—	—	—	—	—	—	—	1.55548	3.98701	5.54249	0.16000	0.00385	—	10.6900
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	87.1911	222.104	309.295	8.96855	0.21583	—	597.826
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	80.2153	206.606	286.821	8.25131	0.19860	—	552.286

La Puente Operation Proposed w FF Internal Capture Detailed Report, 4/2/2026

Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	90.3052	230.036	320.342	9.28887	0.22354	—	619.177
Health Club	—	—	—	—	—	—	—	—	—	—	—	9.06658	23.4380	32.5046	0.93264	0.02245	—	62.5101
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	7.69441	19.7000	27.3944	0.79147	0.01905	—	52.8573
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	223.419	586.593	810.012	22.9832	0.55331	—	1,549.48
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	0.85710	11.3105	12.1676	0.08932	0.00226	—	15.0745
Total	—	—	—	—	—	—	—	—	—	—	—	572.034	1,487.63	2,059.66	58.8438	1.41645	—	3,952.86
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	19.5326	50.1534	69.6860	2.00919	0.04836	—	134.326
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	0.76656	1.99937	2.76593	0.07885	0.00190	—	5.30296
Day-Care Center	—	—	—	—	—	—	—	—	—	—	—	5.94628	15.4775	21.4237	0.61168	0.01472	—	41.1036
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.76354	2.02983	2.79337	0.07855	0.00189	—	5.32070
General Office Building	—	—	—	—	—	—	—	—	—	—	—	34.3362	87.6877	122.024	3.53188	0.08500	—	235.650

La Puente Operation Proposed w FF Internal Capture Detailed Report, 4/2/2026

Government	—	—	—	—	—	—	—	—	—	—	—	10.3849	26.5039	36.8888	1.06821	0.02571	—	71.2547
Motel	—	—	—	—	—	—	—	—	—	—	—	1.55548	3.98701	5.54249	0.16000	0.00385	—	10.6900
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	87.1911	222.104	309.295	8.96855	0.21583	—	597.826
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	80.2153	206.606	286.821	8.25131	0.19860	—	552.286
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	90.3052	230.036	320.342	9.28887	0.22354	—	619.177
Health Club	—	—	—	—	—	—	—	—	—	—	—	9.06658	23.4380	32.5046	0.93264	0.02245	—	62.5101
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	7.69441	19.7000	27.3944	0.79147	0.01905	—	52.8573
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	223.419	586.593	810.012	22.9832	0.55331	—	1,549.48
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	0.85710	11.3105	12.1676	0.08932	0.00226	—	15.0745
Total	—	—	—	—	—	—	—	—	—	—	—	572.034	1,487.63	2,059.66	58.8438	1.41645	—	3,952.86
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	3.23385	8.30347	11.5373	0.33264	0.00801	—	22.2392
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	0.12691	0.33102	0.45793	0.01306	0.00031	—	0.87797

Day-Car e Center	—	—	—	—	—	—	—	—	—	—	—	0.98447	2.56247	3.54694	0.10127	0.00244	—	6.80516
Gasolin e/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.12641	0.33606	0.46247	0.01300	0.00031	—	0.88090
General Office Building	—	—	—	—	—	—	—	—	—	—	—	5.68475	14.5177	20.2024	0.58474	0.01407	—	39.0146
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	1.71934	4.38802	6.10736	0.17685	0.00426	—	11.7970
Motel	—	—	—	—	—	—	—	—	—	—	—	0.25753	0.66010	0.91762	0.02649	0.00064	—	1.76986
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	14.4355	36.7718	51.2073	1.48485	0.03573	—	98.9768
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	13.2806	34.2060	47.4866	1.36610	0.03288	—	91.4372
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	14.9511	38.0852	53.0362	1.53788	0.03701	—	102.512
Health Club	—	—	—	—	—	—	—	—	—	—	—	1.50108	3.88043	5.38151	0.15441	0.00372	—	10.3493
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	1.27390	3.26155	4.53545	0.13104	0.00315	—	8.75113
Apartme nts Mid Rise	—	—	—	—	—	—	—	—	—	—	—	36.9895	97.1172	134.107	3.80514	0.09161	—	256.534
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	0.14190	1.87258	2.01448	0.01479	0.00037	—	2.49575

Total	—	—	—	—	—	—	—	—	—	—	—	94.7067	246.294	341.000	9.74226	0.23451	—	654.441
-------	---	---	---	---	---	---	---	---	---	---	---	---------	---------	---------	---------	---------	---	---------

4.4.2. Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	19.5326	50.1534	69.6860	2.00919	0.04836	—	134.326
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	0.76656	1.99937	2.76593	0.07885	0.00190	—	5.30296
Day-Care Center	—	—	—	—	—	—	—	—	—	—	—	5.94628	15.4775	21.4237	0.61168	0.01472	—	41.1036
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.76354	2.02983	2.79337	0.07855	0.00189	—	5.32070
General Office Building	—	—	—	—	—	—	—	—	—	—	—	34.3362	87.6877	122.024	3.53188	0.08500	—	235.650
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	10.3849	26.5039	36.8888	1.06821	0.02571	—	71.2547
Motel	—	—	—	—	—	—	—	—	—	—	—	1.55548	3.98701	5.54249	0.16000	0.00385	—	10.6900
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	87.1911	222.104	309.295	8.96855	0.21583	—	597.826

Strip Mall	—	—	—	—	—	—	—	—	—	—	—	80.2153	206.606	286.821	8.25131	0.19860	—	552.286
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	90.3052	230.036	320.342	9.28887	0.22354	—	619.177
Health Club	—	—	—	—	—	—	—	—	—	—	—	9.06658	23.4380	32.5046	0.93264	0.02245	—	62.5101
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	7.69441	19.7000	27.3944	0.79147	0.01905	—	52.8573
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	223.419	586.593	810.012	22.9832	0.55331	—	1,549.48
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	0.85710	11.3105	12.1676	0.08932	0.00226	—	15.0745
Total	—	—	—	—	—	—	—	—	—	—	—	572.034	1,487.63	2,059.66	58.8438	1.41645	—	3,952.86
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	19.5326	50.1534	69.6860	2.00919	0.04836	—	134.326
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	0.76656	1.99937	2.76593	0.07885	0.00190	—	5.30296
Day-Care Center	—	—	—	—	—	—	—	—	—	—	—	5.94628	15.4775	21.4237	0.61168	0.01472	—	41.1036
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.76354	2.02983	2.79337	0.07855	0.00189	—	5.32070

General Office Building	—	—	—	—	—	—	—	—	—	—	—	34.3362	87.6877	122.024	3.53188	0.08500	—	235.650
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	10.3849	26.5039	36.8888	1.06821	0.02571	—	71.2547
Motel	—	—	—	—	—	—	—	—	—	—	—	1.55548	3.98701	5.54249	0.16000	0.00385	—	10.6900
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	87.1911	222.104	309.295	8.96855	0.21583	—	597.826
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	80.2153	206.606	286.821	8.25131	0.19860	—	552.286
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	90.3052	230.036	320.342	9.28887	0.22354	—	619.177
Health Club	—	—	—	—	—	—	—	—	—	—	—	9.06658	23.4380	32.5046	0.93264	0.02245	—	62.5101
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	7.69441	19.7000	27.3944	0.79147	0.01905	—	52.8573
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	223.419	586.593	810.012	22.9832	0.55331	—	1,549.48
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	0.85710	11.3105	12.1676	0.08932	0.00226	—	15.0745
Total	—	—	—	—	—	—	—	—	—	—	—	572.034	1,487.63	2,059.66	58.8438	1.41645	—	3,952.86
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	3.23385	8.30347	11.5373	0.33264	0.00801	—	22.2392

Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	0.12691	0.33102	0.45793	0.01306	0.00031	—	0.87797
Day-Care Center	—	—	—	—	—	—	—	—	—	—	—	0.98447	2.56247	3.54694	0.10127	0.00244	—	6.80516
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.12641	0.33606	0.46247	0.01300	0.00031	—	0.88090
General Office Building	—	—	—	—	—	—	—	—	—	—	—	5.68475	14.5177	20.2024	0.58474	0.01407	—	39.0146
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	1.71934	4.38802	6.10736	0.17685	0.00426	—	11.7970
Motel	—	—	—	—	—	—	—	—	—	—	—	0.25753	0.66010	0.91762	0.02649	0.00064	—	1.76986
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	14.4355	36.7718	51.2073	1.48485	0.03573	—	98.9768
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	13.2806	34.2060	47.4866	1.36610	0.03288	—	91.4372
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	14.9511	38.0852	53.0362	1.53788	0.03701	—	102.512
Health Club	—	—	—	—	—	—	—	—	—	—	—	1.50108	3.88043	5.38151	0.15441	0.00372	—	10.3493
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	1.27390	3.26155	4.53545	0.13104	0.00315	—	8.75113
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	36.9895	97.1172	134.107	3.80514	0.09161	—	256.534

Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	0.14190	1.87258	2.01448	0.01479	0.00037	—	2.49575
Total	—	—	—	—	—	—	—	—	—	—	—	94.7067	246.294	341.000	9.74226	0.23451	—	654.441

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	223.055	0.00000	223.055	22.2935	0.00000	—	780.393
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	5.07657	0.00000	5.07657	0.50739	0.00000	—	17.7612
Day-Care Center	—	—	—	—	—	—	—	—	—	—	—	50.6906	0.00000	50.6906	5.06634	0.00000	—	177.349
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	8.71356	0.00000	8.71356	0.87089	0.00000	—	30.4858
General Office Building	—	—	—	—	—	—	—	—	—	—	—	50.5308	0.00000	50.5308	5.05037	0.00000	—	176.790
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	13.6731	0.00000	13.6731	1.36658	0.00000	—	47.8375
Motel	—	—	—	—	—	—	—	—	—	—	—	9.44221	0.00000	9.44221	0.94371	0.00000	—	33.0351

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	961.396	0.00000	961.396	96.0881	0.00000	—	3,363.60
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	319.801	0.00000	319.801	31.9630	0.00000	—	1,118.88
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	963.847	0.00000	963.847	96.3330	0.00000	—	3,372.17
Health Club	—	—	—	—	—	—	—	—	—	—	—	245.756	0.00000	245.756	24.5624	0.00000	—	859.817
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	186.257	0.00000	186.257	18.6157	0.00000	—	651.651
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	1,246.61	0.00000	1,246.61	124.594	0.00000	—	4,361.46
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	5.14716	0.00000	5.14716	0.51444	0.00000	—	18.0082
Total	—	—	—	—	—	—	—	—	—	—	—	4,290.00	0.00000	4,290.00	428.770	0.00000	—	15,009.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	223.055	0.00000	223.055	22.2935	0.00000	—	780.393
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	5.07657	0.00000	5.07657	0.50739	0.00000	—	17.7612
Day-Care Center	—	—	—	—	—	—	—	—	—	—	—	50.6906	0.00000	50.6906	5.06634	0.00000	—	177.349

Gasolin e/Service	—	—	—	—	—	—	—	—	—	—	—	8.71356	0.00000	8.71356	0.87089	0.00000	—	30.4858
General Office Building	—	—	—	—	—	—	—	—	—	—	—	50.5308	0.00000	50.5308	5.05037	0.00000	—	176.790
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	13.6731	0.00000	13.6731	1.36658	0.00000	—	47.8375
Motel	—	—	—	—	—	—	—	—	—	—	—	9.44221	0.00000	9.44221	0.94371	0.00000	—	33.0351
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	961.396	0.00000	961.396	96.0881	0.00000	—	3,363.60
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	319.801	0.00000	319.801	31.9630	0.00000	—	1,118.88
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	963.847	0.00000	963.847	96.3330	0.00000	—	3,372.17
Health Club	—	—	—	—	—	—	—	—	—	—	—	245.756	0.00000	245.756	24.5624	0.00000	—	859.817
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	186.257	0.00000	186.257	18.6157	0.00000	—	651.651
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	1,246.61	0.00000	1,246.61	124.594	0.00000	—	4,361.46
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	5.14716	0.00000	5.14716	0.51444	0.00000	—	18.0082
Total	—	—	—	—	—	—	—	—	—	—	—	4,290.00	0.00000	4,290.00	428.770	0.00000	—	15,009.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	36.9293	0.00000	36.9293	3.69095	0.00000	—	129.203
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	0.84048	0.00000	0.84048	0.08400	0.00000	—	2.94057
Day-Care Center	—	—	—	—	—	—	—	—	—	—	—	8.39241	0.00000	8.39241	0.83879	0.00000	—	29.3622
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	1.44263	0.00000	1.44263	0.14419	0.00000	—	5.04727
General Office Building	—	—	—	—	—	—	—	—	—	—	—	8.36595	0.00000	8.36595	0.83615	0.00000	—	29.2696
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	2.26374	0.00000	2.26374	0.22625	0.00000	—	7.92005
Motel	—	—	—	—	—	—	—	—	—	—	—	1.56327	0.00000	1.56327	0.15624	0.00000	—	5.46933
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	159.170	0.00000	159.170	15.9085	0.00000	—	556.882
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	52.9468	0.00000	52.9468	5.29184	0.00000	—	185.243
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	159.576	0.00000	159.576	15.9490	0.00000	—	558.302
Health Club	—	—	—	—	—	—	—	—	—	—	—	40.6877	0.00000	40.6877	4.06659	0.00000	—	142.353

Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	30.8370	0.00000	30.8370	3.08205	0.00000	—	107.888
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	206.390	0.00000	206.390	20.6280	0.00000	—	722.090
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	0.85217	0.00000	0.85217	0.08517	0.00000	—	2.98146
Total	—	—	—	—	—	—	—	—	—	—	—	710.258	0.00000	710.258	70.9877	0.00000	—	2,484.95

4.5.2. Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	223.055	0.00000	223.055	22.2935	0.00000	—	780.393
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	5.07657	0.00000	5.07657	0.50739	0.00000	—	17.7612
Day-Care Center	—	—	—	—	—	—	—	—	—	—	—	50.6906	0.00000	50.6906	5.06634	0.00000	—	177.349
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	8.71356	0.00000	8.71356	0.87089	0.00000	—	30.4858
General Office Building	—	—	—	—	—	—	—	—	—	—	—	50.5308	0.00000	50.5308	5.05037	0.00000	—	176.790

Government	—	—	—	—	—	—	—	—	—	—	—	13.6731	0.00000	13.6731	1.36658	0.00000	—	47.8375
Motel	—	—	—	—	—	—	—	—	—	—	—	9.44221	0.00000	9.44221	0.94371	0.00000	—	33.0351
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	961.396	0.00000	961.396	96.0881	0.00000	—	3,363.60
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	319.801	0.00000	319.801	31.9630	0.00000	—	1,118.88
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	963.847	0.00000	963.847	96.3330	0.00000	—	3,372.17
Health Club	—	—	—	—	—	—	—	—	—	—	—	245.756	0.00000	245.756	24.5624	0.00000	—	859.817
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	186.257	0.00000	186.257	18.6157	0.00000	—	651.651
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	1,246.61	0.00000	1,246.61	124.594	0.00000	—	4,361.46
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	5.14716	0.00000	5.14716	0.51444	0.00000	—	18.0082
Total	—	—	—	—	—	—	—	—	—	—	—	4,290.00	0.00000	4,290.00	428.770	0.00000	—	15,009.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	223.055	0.00000	223.055	22.2935	0.00000	—	780.393
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	5.07657	0.00000	5.07657	0.50739	0.00000	—	17.7612

La Puente Operation Proposed w FF Internal Capture Detailed Report, 4/2/2026

Day-Car Center	—	—	—	—	—	—	—	—	—	—	—	50.6906	0.00000	50.6906	5.06634	0.00000	—	177.349
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	8.71356	0.00000	8.71356	0.87089	0.00000	—	30.4858
General Office Building	—	—	—	—	—	—	—	—	—	—	—	50.5308	0.00000	50.5308	5.05037	0.00000	—	176.790
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	13.6731	0.00000	13.6731	1.36658	0.00000	—	47.8375
Motel	—	—	—	—	—	—	—	—	—	—	—	9.44221	0.00000	9.44221	0.94371	0.00000	—	33.0351
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	961.396	0.00000	961.396	96.0881	0.00000	—	3,363.60
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	319.801	0.00000	319.801	31.9630	0.00000	—	1,118.88
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	963.847	0.00000	963.847	96.3330	0.00000	—	3,372.17
Health Club	—	—	—	—	—	—	—	—	—	—	—	245.756	0.00000	245.756	24.5624	0.00000	—	859.817
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	186.257	0.00000	186.257	18.6157	0.00000	—	651.651
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	1,246.61	0.00000	1,246.61	124.594	0.00000	—	4,361.46
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	5.14716	0.00000	5.14716	0.51444	0.00000	—	18.0082
Total	—	—	—	—	—	—	—	—	—	—	—	4,290.00	0.00000	4,290.00	428.770	0.00000	—	15,009.2

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	36.9293	0.00000	36.9293	3.69095	0.00000	—	129.203
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	0.84048	0.00000	0.84048	0.08400	0.00000	—	2.94057
Day-Care Center	—	—	—	—	—	—	—	—	—	—	—	8.39241	0.00000	8.39241	0.83879	0.00000	—	29.3622
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	1.44263	0.00000	1.44263	0.14419	0.00000	—	5.04727
General Office Building	—	—	—	—	—	—	—	—	—	—	—	8.36595	0.00000	8.36595	0.83615	0.00000	—	29.2696
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	2.26374	0.00000	2.26374	0.22625	0.00000	—	7.92005
Motel	—	—	—	—	—	—	—	—	—	—	—	1.56327	0.00000	1.56327	0.15624	0.00000	—	5.46933
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	159.170	0.00000	159.170	15.9085	0.00000	—	556.882
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	52.9468	0.00000	52.9468	5.29184	0.00000	—	185.243
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	159.576	0.00000	159.576	15.9490	0.00000	—	558.302
Health Club	—	—	—	—	—	—	—	—	—	—	—	40.6877	0.00000	40.6877	4.06659	0.00000	—	142.353

Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	30.8370	0.00000	30.8370	3.08205	0.00000	—	107.888
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	206.390	0.00000	206.390	20.6280	0.00000	—	722.090
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	0.85217	0.00000	0.85217	0.08517	0.00000	—	2.98146
Total	—	—	—	—	—	—	—	—	—	—	—	—	710.258	0.00000	710.258	70.9877	0.00000	—	2,484.95

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.16922	0.16922	—
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02455	0.02455	—
Day-Care Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.27948	0.27948	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.24519	0.24519	—

Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.06634	0.06634
Motel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.4336	11.4336
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	234.340	234.340
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.51978	3.51978
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	242.709	242.709
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.38405	0.38405
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.81766	0.81766
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.5066	21.5066
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.28096	0.28096
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	515.776	515.776
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.16922	0.16922

Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02455	0.02455
Day-Care Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.27948	0.27948
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.24519	0.24519
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.06634	0.06634
Motel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.4336	11.4336
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	234.340	234.340
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.51978	3.51978
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	242.709	242.709
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.38405	0.38405
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.81766	0.81766
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.5066	21.5066
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.28096	0.28096
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	515.776	515.776

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02802	0.02802
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00407	0.00407
Day-Care Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04627	0.04627
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04059	0.04059
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01098	0.01098
Motel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.89297	1.89297
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	38.7976	38.7976
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.58274	0.58274
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	40.1833	40.1833
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.06358	0.06358
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13537	0.13537

Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.56067	3.56067
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04652	0.04652
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	85.3927	85.3927

4.6.2. Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.16922	0.16922
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02455	0.02455
Day-Care Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.27948	0.27948
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.24519	0.24519
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.06634	0.06634
Motel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.4336	11.4336

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	234.340	234.340
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.51978	3.51978
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	242.709	242.709
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.38405	0.38405
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.81766	0.81766
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.5066	21.5066
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.28096	0.28096
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	515.776	515.776
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.16922	0.16922
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02455	0.02455
Day-Care Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.27948	0.27948

General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.24519	0.24519
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.06634	0.06634
Motel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.4336	11.4336
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	234.340	234.340
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.51978	3.51978
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	242.709	242.709
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.38405	0.38405
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.81766	0.81766
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.5066	21.5066
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.28096	0.28096
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	515.776	515.776
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02802	0.02802

Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00407	0.00407
Day-Car e Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04627	0.04627
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04059	0.04059
Govern ment Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01098	0.01098
Motel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.89297	1.89297
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	38.7976	38.7976
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.58274	0.58274
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	40.1833	40.1833
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.06358	0.06358
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13537	0.13537
Apartme nts Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.56067	3.56067
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04652	0.04652
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	85.3927	85.3927

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8.2. Mitigated

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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
Automobile Care Center	2,569.94	2,569.94	1,287.14	871,140	16,694.1	30,069.8	15,060.2	6,705,593
Bank (with Drive-Through)	1,009.90	873.102	322.668	325,647	6,129.88	6,366.96	2,353.01	2,052,832
Day-Care Center	3,445.35	450.023	422.530	943,751	21,596.3	5,265.52	4,943.83	6,162,815
Gasoline/Service Station	10,320.6	10,930.2	10,012.8	3,782,756	29,598.3	127,889	117,155	20,494,026

General Office Building	670.278	152.086	48.1719	185,193	7,842.62	1,779.49	563.638	2,166,860
Government Office Building	616.255	0.00000	0.00000	160,667	7,210.53	0.00000	0.00000	1,879,888
Motel	107.200	107.200	107.200	39,128.0	1,254.30	1,254.30	1,254.30	457,819
High Turnover (Sit Down Restaurant)	9,636.82	10,514.8	12,253.5	3,699,660	42,576.8	123,029	143,373	24,991,299
Strip Mall	22,919.4	21,740.3	10,565.0	7,659,903	268,169	254,374	123,617	89,625,115
Fast Food Restaurant w/o Drive Thru	31,596.6	63,516.3	45,629.5	13,928,858	369,698	743,176	533,890	162,975,362
Health Club	2,107.52	1,335.68	1,710.72	708,309	24,659.2	15,628.2	20,016.4	8,287,603
Strip Mall	1,701.89	1,614.34	784.512	568,789	19,913.0	18,888.6	9,179.23	6,655,150
Medical Office Building	890.880	219.392	36.3520	245,600	10,423.8	2,567.01	425.339	2,873,660
General Office Building	249.344	56.5760	17.9200	68,892.0	2,917.46	661.971	209.674	806,074
Apartments Mid Rise	13,950.9	12,591.8	10,488.8	4,840,681	123,039	111,052	92,505.5	42,692,150
Fast Food Restaurant w/o Drive Thru	17,727.0	35,635.2	25,600.0	7,814,654	207,415	416,952	299,534	91,435,786
High Turnover (Sit Down Restaurant)	5,743.62	6,266.88	7,303.17	2,205,024	25,376.1	73,326.0	85,451.1	14,894,995
Single Family Housing	113.280	114.480	102.600	40,852.9	999.067	1,009.65	904.876	360,300

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Automobile Care Center	2,569.94	2,569.94	1,287.14	871,140	16,694.1	30,069.8	15,060.2	6,705,593
Bank (with Drive-Through)	1,009.90	873.102	322.668	325,647	6,129.88	6,366.96	2,353.01	2,052,832

Day-Care Center	3,445.35	450.023	422.530	943,751	21,596.3	5,265.52	4,943.83	6,162,815
Gasoline/Service Station	10,320.6	10,930.2	10,012.8	3,782,756	29,598.3	127,889	117,155	20,494,026
General Office Building	670.278	152.086	48.1719	185,193	7,842.62	1,779.49	563.638	2,166,860
Government Office Building	616.255	0.00000	0.00000	160,667	7,210.53	0.00000	0.00000	1,879,888
Motel	107.200	107.200	107.200	39,128.0	1,254.30	1,254.30	1,254.30	457,819
High Turnover (Sit Down Restaurant)	9,636.82	10,514.8	12,253.5	3,699,660	42,576.8	123,029	143,373	24,991,299
Strip Mall	22,919.4	21,740.3	10,565.0	7,659,903	268,169	254,374	123,617	89,625,115
Fast Food Restaurant w/o Drive Thru	31,596.6	63,516.3	45,629.5	13,928,858	369,698	743,176	533,890	162,975,362
Health Club	2,107.52	1,335.68	1,710.72	708,309	24,659.2	15,628.2	20,016.4	8,287,603
Strip Mall	1,701.89	1,614.34	784.512	568,789	19,913.0	18,888.6	9,179.23	6,655,150
Medical Office Building	890.880	219.392	36.3520	245,600	10,423.8	2,567.01	425.339	2,873,660
General Office Building	249.344	56.5760	17.9200	68,892.0	2,917.46	661.971	209.674	806,074
Apartments Mid Rise	13,950.9	12,591.8	10,488.8	4,840,681	123,039	111,052	92,505.5	42,692,150
Fast Food Restaurant w/o Drive Thru	17,727.0	35,635.2	25,600.0	7,814,654	207,415	416,952	299,534	91,435,786
High Turnover (Sit Down Restaurant)	5,743.62	6,266.88	7,303.17	2,205,024	25,376.1	73,326.0	85,451.1	14,894,995
Single Family Housing	113.280	114.480	102.600	40,852.9	999.067	1,009.65	904.876	360,300

5.10. Operational Area Sources

5.10.1. Hearths

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
Automobile Care Center	Wood Fireplaces	0	0
Automobile Care Center	Gas Fireplaces	0	0
Automobile Care Center	Propane Fireplaces	0	0
Automobile Care Center	Electric Fireplaces	0	0
Automobile Care Center	No Fireplaces	0	0
Automobile Care Center	Conventional Wood Stoves	0	0
Automobile Care Center	Catalytic Wood Stoves	0	0
Automobile Care Center	Non-Catalytic Wood Stoves	0	0
Automobile Care Center	Pellet Wood Stoves	0	0
Bank (with Drive-Through)	Wood Fireplaces	0	0
Bank (with Drive-Through)	Gas Fireplaces	0	0
Bank (with Drive-Through)	Propane Fireplaces	0	0
Bank (with Drive-Through)	Electric Fireplaces	0	0
Bank (with Drive-Through)	No Fireplaces	0	0
Bank (with Drive-Through)	Conventional Wood Stoves	0	0
Bank (with Drive-Through)	Catalytic Wood Stoves	0	0
Bank (with Drive-Through)	Non-Catalytic Wood Stoves	0	0
Bank (with Drive-Through)	Pellet Wood Stoves	0	0
Day-Care Center	Wood Fireplaces	0	0
Day-Care Center	Gas Fireplaces	0	0
Day-Care Center	Propane Fireplaces	0	0
Day-Care Center	Electric Fireplaces	0	0
Day-Care Center	No Fireplaces	0	0
Day-Care Center	Conventional Wood Stoves	0	0
Day-Care Center	Catalytic Wood Stoves	0	0
Day-Care Center	Non-Catalytic Wood Stoves	0	0
Day-Care Center	Pellet Wood Stoves	0	0

Gasoline/Service Station	Wood Fireplaces	0	0
Gasoline/Service Station	Gas Fireplaces	0	0
Gasoline/Service Station	Propane Fireplaces	0	0
Gasoline/Service Station	Electric Fireplaces	0	0
Gasoline/Service Station	No Fireplaces	0	0
Gasoline/Service Station	Conventional Wood Stoves	0	0
Gasoline/Service Station	Catalytic Wood Stoves	0	0
Gasoline/Service Station	Non-Catalytic Wood Stoves	0	0
Gasoline/Service Station	Pellet Wood Stoves	0	0
General Office Building	Wood Fireplaces	0	0
General Office Building	Gas Fireplaces	0	0
General Office Building	Propane Fireplaces	0	0
General Office Building	Electric Fireplaces	0	0
General Office Building	No Fireplaces	0	0
General Office Building	Conventional Wood Stoves	0	0
General Office Building	Catalytic Wood Stoves	0	0
General Office Building	Non-Catalytic Wood Stoves	0	0
General Office Building	Pellet Wood Stoves	0	0
Government Office Building	Wood Fireplaces	0	0
Government Office Building	Gas Fireplaces	0	0
Government Office Building	Propane Fireplaces	0	0
Government Office Building	Electric Fireplaces	0	0
Government Office Building	No Fireplaces	0	0
Government Office Building	Conventional Wood Stoves	0	0
Government Office Building	Catalytic Wood Stoves	0	0
Government Office Building	Non-Catalytic Wood Stoves	0	0
Government Office Building	Pellet Wood Stoves	0	0
Motel	Wood Fireplaces	0	0

Motel	Gas Fireplaces	0	0
Motel	Propane Fireplaces	0	0
Motel	Electric Fireplaces	0	0
Motel	No Fireplaces	0	0
Motel	Conventional Wood Stoves	0	0
Motel	Catalytic Wood Stoves	0	0
Motel	Non-Catalytic Wood Stoves	0	0
Motel	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
Strip Mall	Wood Fireplaces	0	0
Strip Mall	Gas Fireplaces	0	0
Strip Mall	Propane Fireplaces	0	0
Strip Mall	Electric Fireplaces	0	0
Strip Mall	No Fireplaces	0	0
Strip Mall	Conventional Wood Stoves	0	0
Strip Mall	Catalytic Wood Stoves	0	0
Strip Mall	Non-Catalytic Wood Stoves	0	0
Strip Mall	Pellet Wood Stoves	0	0
Fast Food Restaurant w/o Drive Thru	Wood Fireplaces	0	0
Fast Food Restaurant w/o Drive Thru	Gas Fireplaces	0	0

Fast Food Restaurant w/o Drive Thru	Propane Fireplaces	0	0
Fast Food Restaurant w/o Drive Thru	Electric Fireplaces	0	0
Fast Food Restaurant w/o Drive Thru	No Fireplaces	0	0
Fast Food Restaurant w/o Drive Thru	Conventional Wood Stoves	0	0
Fast Food Restaurant w/o Drive Thru	Catalytic Wood Stoves	0	0
Fast Food Restaurant w/o Drive Thru	Non-Catalytic Wood Stoves	0	0
Fast Food Restaurant w/o Drive Thru	Pellet Wood Stoves	0	0
Health Club	Wood Fireplaces	0	0
Health Club	Gas Fireplaces	0	0
Health Club	Propane Fireplaces	0	0
Health Club	Electric Fireplaces	0	0
Health Club	No Fireplaces	0	0
Health Club	Conventional Wood Stoves	0	0
Health Club	Catalytic Wood Stoves	0	0
Health Club	Non-Catalytic Wood Stoves	0	0
Health Club	Pellet Wood Stoves	0	0
Strip Mall	Wood Fireplaces	0	0
Strip Mall	Gas Fireplaces	0	0
Strip Mall	Propane Fireplaces	0	0
Strip Mall	Electric Fireplaces	0	0
Strip Mall	No Fireplaces	0	0
Strip Mall	Conventional Wood Stoves	0	0
Strip Mall	Catalytic Wood Stoves	0	0
Strip Mall	Non-Catalytic Wood Stoves	0	0
Strip Mall	Pellet Wood Stoves	0	0
Medical Office Building	Wood Fireplaces	0	0
Medical Office Building	Gas Fireplaces	0	0
Medical Office Building	Propane Fireplaces	0	0

Medical Office Building	Electric Fireplaces	0	0
Medical Office Building	No Fireplaces	0	0
Medical Office Building	Conventional Wood Stoves	0	0
Medical Office Building	Catalytic Wood Stoves	0	0
Medical Office Building	Non-Catalytic Wood Stoves	0	0
Medical Office Building	Pellet Wood Stoves	0	0
General Office Building	Wood Fireplaces	0	0
General Office Building	Gas Fireplaces	0	0
General Office Building	Propane Fireplaces	0	0
General Office Building	Electric Fireplaces	0	0
General Office Building	No Fireplaces	0	0
General Office Building	Conventional Wood Stoves	0	0
General Office Building	Catalytic Wood Stoves	0	0
General Office Building	Non-Catalytic Wood Stoves	0	0
General Office Building	Pellet Wood Stoves	0	0
Apartments Mid Rise	Wood Fireplaces	156	0
Apartments Mid Rise	Gas Fireplaces	2,659	0
Apartments Mid Rise	Propane Fireplaces	0	0
Apartments Mid Rise	Electric Fireplaces	0	0
Apartments Mid Rise	No Fireplaces	313	313
Apartments Mid Rise	Conventional Wood Stoves	0	0
Apartments Mid Rise	Catalytic Wood Stoves	156	0
Apartments Mid Rise	Non-Catalytic Wood Stoves	156	0
Apartments Mid Rise	Pellet Wood Stoves	0	0
Fast Food Restaurant w/o Drive Thru	Wood Fireplaces	0	0
Fast Food Restaurant w/o Drive Thru	Gas Fireplaces	0	0
Fast Food Restaurant w/o Drive Thru	Propane Fireplaces	0	0
Fast Food Restaurant w/o Drive Thru	Electric Fireplaces	0	0

Fast Food Restaurant w/o Drive Thru	No Fireplaces	0	0
Fast Food Restaurant w/o Drive Thru	Conventional Wood Stoves	0	0
Fast Food Restaurant w/o Drive Thru	Catalytic Wood Stoves	0	0
Fast Food Restaurant w/o Drive Thru	Non-Catalytic Wood Stoves	0	0
Fast Food Restaurant w/o Drive Thru	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
Single Family Housing	Wood Fireplaces	1	1
Single Family Housing	Gas Fireplaces	10	10
Single Family Housing	Propane Fireplaces	0	0
Single Family Housing	Electric Fireplaces	0	0
Single Family Housing	No Fireplaces	1	1
Single Family Housing	Conventional Wood Stoves	0	0
Single Family Housing	Catalytic Wood Stoves	1	1
Single Family Housing	Non-Catalytic Wood Stoves	1	1
Single Family Housing	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)
6,160,271	2,053,424	1,988,661	662,887	—

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

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)
Automobile Care Center	1,039,325	260.788	0.0330	0.0040	4,637,376
Bank (with Drive-Through)	96,848.3	260.788	0.0330	0.0040	432,128
Day-Care Center	452,508	260.788	0.0330	0.0040	1,517,916
Gasoline/Service Station	165,695	260.788	0.0330	0.0040	739,318
General Office Building	1,226,339	260.788	0.0330	0.0040	1,744,268
Government Office Building	486,137	260.788	0.0330	0.0040	691,452
Motel	102,350	260.788	0.0330	0.0040	211,168
High Turnover (Sit Down Restaurant)	2,974,918	260.788	0.0330	0.0040	9,890,381
Strip Mall	5,078,962	260.788	0.0330	0.0040	3,096,052
Fast Food Restaurant w/o Drive Thru	3,160,328	260.788	0.0330	0.0040	10,506,795
Health Club	767,419	260.788	0.0330	0.0040	3,424,155

Strip Mall	471,426	260.788	0.0330	0.0040	287,373
Medical Office Building	570,249	260.788	0.0330	0.0040	811,087
General Office Building	570,249	260.788	0.0330	0.0040	811,087
Apartments Mid Rise	11,466,729	260.788	0.0330	0.0040	34,742,205
Fast Food Restaurant w/o Drive Thru	2,216,341	260.788	0.0330	0.0040	7,368,423
High Turnover (Sit Down Restaurant)	2,216,341	260.788	0.0330	0.0040	7,368,423
Single Family Housing	82,741.7	260.788	0.0330	0.0040	460,024

5.11.2. Mitigated

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)
Automobile Care Center	1,039,325	260.788	0.0330	0.0040	4,637,376
Bank (with Drive-Through)	96,848.3	260.788	0.0330	0.0040	432,128
Day-Care Center	452,508	260.788	0.0330	0.0040	1,517,916
Gasoline/Service Station	165,695	260.788	0.0330	0.0040	739,318
General Office Building	1,226,339	260.788	0.0330	0.0040	1,744,268
Government Office Building	486,137	260.788	0.0330	0.0040	691,452
Motel	102,350	260.788	0.0330	0.0040	211,168
High Turnover (Sit Down Restaurant)	2,974,918	260.788	0.0330	0.0040	9,890,381
Strip Mall	5,078,962	260.788	0.0330	0.0040	3,096,052
Fast Food Restaurant w/o Drive Thru	3,160,328	260.788	0.0330	0.0040	10,506,795
Health Club	767,419	260.788	0.0330	0.0040	3,424,155
Strip Mall	471,426	260.788	0.0330	0.0040	287,373
Medical Office Building	570,249	260.788	0.0330	0.0040	811,087
General Office Building	570,249	260.788	0.0330	0.0040	811,087
Apartments Mid Rise	11,466,729	260.788	0.0330	0.0040	34,742,205

Fast Food Restaurant w/o Drive Thru	2,216,341	260.788	0.0330	0.0040	7,368,423
High Turnover (Sit Down Restaurant)	2,216,341	260.788	0.0330	0.0040	7,368,423
Single Family Housing	82,741.7	260.788	0.0330	0.0040	460,024

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Automobile Care Center	10,193,218	151,956
Bank (with Drive-Through)	400,033	14,164.8
Day-Care Center	3,103,103	101,468
Gasoline/Service Station	398,457	24,220.5
General Office Building	12,231,103	96,517.2
Government Office Building	5,419,436	38,259.1
Motel	811,737	10,266.0
High Turnover (Sit Down Restaurant)	26,075,064	120,471
Strip Mall	38,305,419	725,253
Fast Food Restaurant w/o Drive Thru	27,700,183	127,988
Health Club	4,731,452	112,197
Strip Mall	3,555,481	67,318.0
Medical Office Building	4,015,377	44,878.7
General Office Building	5,687,480	44,878.7
Apartments Mid Rise	116,592,446	5,147,284
Fast Food Restaurant w/o Drive Thru	19,426,158	89,757.3
High Turnover (Sit Down Restaurant)	19,426,158	89,757.3
Single Family Housing	447,286	2,409,258

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Automobile Care Center	10,193,218	151,956
Bank (with Drive-Through)	400,033	14,164.8
Day-Care Center	3,103,103	101,468
Gasoline/Service Station	398,457	24,220.5
General Office Building	12,231,103	96,517.2
Government Office Building	5,419,436	38,259.1
Motel	811,737	10,266.0
High Turnover (Sit Down Restaurant)	26,075,064	120,471
Strip Mall	38,305,419	725,253
Fast Food Restaurant w/o Drive Thru	27,700,183	127,988
Health Club	4,731,452	112,197
Strip Mall	3,555,481	67,318.0
Medical Office Building	4,015,377	44,878.7
General Office Building	5,687,480	44,878.7
Apartments Mid Rise	116,592,446	5,147,284
Fast Food Restaurant w/o Drive Thru	19,426,158	89,757.3
High Turnover (Sit Down Restaurant)	19,426,158	89,757.3
Single Family Housing	447,286	2,409,258

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Automobile Care Center	413.878	0.00000
Bank (with Drive-Through)	9.41957	0.00000
Day-Care Center	94.0563	0.00000

Gasoline/Service Station	16.1680	0.00000
General Office Building	63.9998	0.00000
Government Office Building	25.3704	0.00000
Motel	17.5200	0.00000
High Turnover (Sit Down Restaurant)	1,022.27	0.00000
Strip Mall	542.991	0.00000
Fast Food Restaurant w/o Drive Thru	1,051.21	0.00000
Health Club	456.000	0.00000
Strip Mall	50.4000	0.00000
Medical Office Building	345.600	0.00000
General Office Building	29.7600	0.00000
Apartments Mid Rise	2,313.08	0.00000
Fast Food Restaurant w/o Drive Thru	737.211	0.00000
High Turnover (Sit Down Restaurant)	761.600	0.00000
Single Family Housing	9.55055	0.00000

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Automobile Care Center	413.878	0.00000
Bank (with Drive-Through)	9.41957	0.00000
Day-Care Center	94.0563	0.00000
Gasoline/Service Station	16.1680	0.00000
General Office Building	63.9998	0.00000
Government Office Building	25.3704	0.00000
Motel	17.5200	0.00000
High Turnover (Sit Down Restaurant)	1,022.27	0.00000
Strip Mall	542.991	0.00000
Fast Food Restaurant w/o Drive Thru	1,051.21	0.00000

Health Club	456.000	0.00000
Strip Mall	50.4000	0.00000
Medical Office Building	345.600	0.00000
General Office Building	29.7600	0.00000
Apartments Mid Rise	2,313.08	0.00000
Fast Food Restaurant w/o Drive Thru	737.211	0.00000
High Turnover (Sit Down Restaurant)	761.600	0.00000
Single Family Housing	9.55055	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 Served
Automobile Care Center	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
Bank (with Drive-Through)	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
Bank (with Drive-Through)	Household refrigerators and/or freezers	R-134a	1,430.00	0.01679	0.60000	0.00000	1.000000
Day-Care Center	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
Day-Care Center	Stand-alone retail refrigerators and freezers	R-134a	1,430.00	0.00004	1.000000	0.00000	1.000000
Day-Care Center	Walk-in refrigerators and freezers	R-404A	3,922.00	0.00040	7.50000	7.50000	20.0000
Day-Care Center	Household refrigerators and/or freezers	R-134a	1,430.00	0.01679	0.60000	0.00000	1.000000
General Office Building	Household refrigerators and/or freezers	R-134a	1,430.00	0.01679	0.60000	0.00000	1.000000

General Office Building	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
Government Office Building	Household refrigerators and/or freezers	R-134a	1,430.00	0.01679	0.60000	0.00000	1.000000
Government Office Building	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
Motel	Household refrigerators and/or freezers	R-134a	1,430.00	0.00000	0.60000	0.00000	1.000000
Motel	Other commercial A/C and heat pumps	R-410A	2,088.00	1.80000	4.00000	4.00000	18.0000
Motel	Walk-in refrigerators and freezers	R-404A	3,922.00	0.00040	7.50000	7.50000	20.0000
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
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430.00	0.03750	1.000000	0.00000	1.000000
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922.00	0.00040	7.50000	7.50000	20.0000
Fast Food Restaurant w/o Drive Thru	Household refrigerators and/or freezers	R-134a	1,430.00	0.00000	0.60000	0.00000	1.000000
Fast Food Restaurant w/o Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088.00	1.80000	4.00000	4.00000	18.0000
Fast Food Restaurant w/o Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922.00	0.00040	7.50000	7.50000	20.0000

Health Club	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
Health Club	Stand-alone retail refrigerators and freezers	R-134a	1,430.00	0.03750	1.000000	0.00000	1.000000
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430.00	0.03750	1.000000	0.00000	1.000000
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922.00	0.00040	7.50000	7.50000	20.0000
Medical Office Building	Household refrigerators and/or freezers	R-134a	1,430.00	0.45455	0.60000	0.00000	1.000000
Medical Office Building	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00230	4.00000	4.00000	18.0000
General Office Building	Household refrigerators and/or freezers	R-134a	1,430.00	0.01679	0.60000	0.00000	1.000000
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
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
Fast Food Restaurant w/o Drive Thru	Household refrigerators and/or freezers	R-134a	1,430.00	0.00000	0.60000	0.00000	1.000000
Fast Food Restaurant w/o Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088.00	1.80000	4.00000	4.00000	18.0000
Fast Food Restaurant w/o Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922.00	0.00040	7.50000	7.50000	20.0000

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
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088.00	0.00225	2.50000	2.50000	10.00000
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430.00	0.11538	0.60000	0.00000	1.000000

5.14.2. Mitigated

Land Use	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Automobile Care Center	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
Bank (with Drive-Through)	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
Bank (with Drive-Through)	Household refrigerators and/or freezers	R-134a	1,430.00	0.01679	0.60000	0.00000	1.000000
Day-Care Center	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
Day-Care Center	Stand-alone retail refrigerators and freezers	R-134a	1,430.00	0.00004	1.000000	0.00000	1.000000
Day-Care Center	Walk-in refrigerators and freezers	R-404A	3,922.00	0.00040	7.50000	7.50000	20.0000
Day-Care Center	Household refrigerators and/or freezers	R-134a	1,430.00	0.01679	0.60000	0.00000	1.000000

General Office Building	Household refrigerators and/or freezers	R-134a	1,430.00	0.01679	0.60000	0.00000	1.000000
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
Government Office Building	Household refrigerators and/or freezers	R-134a	1,430.00	0.01679	0.60000	0.00000	1.000000
Government Office Building	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
Motel	Household refrigerators and/or freezers	R-134a	1,430.00	0.00000	0.60000	0.00000	1.000000
Motel	Other commercial A/C and heat pumps	R-410A	2,088.00	1.80000	4.00000	4.00000	18.0000
Motel	Walk-in refrigerators and freezers	R-404A	3,922.00	0.00040	7.50000	7.50000	20.0000
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
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430.00	0.03750	1.000000	0.00000	1.000000
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922.00	0.00040	7.50000	7.50000	20.0000
Fast Food Restaurant w/o Drive Thru	Household refrigerators and/or freezers	R-134a	1,430.00	0.00000	0.60000	0.00000	1.000000
Fast Food Restaurant w/o Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088.00	1.80000	4.00000	4.00000	18.0000

Fast Food Restaurant w/o Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922.00	0.00040	7.50000	7.50000	20.0000
Health Club	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
Health Club	Stand-alone retail refrigerators and freezers	R-134a	1,430.00	0.03750	1.000000	0.00000	1.000000
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430.00	0.03750	1.000000	0.00000	1.000000
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922.00	0.00040	7.50000	7.50000	20.0000
Medical Office Building	Household refrigerators and/or freezers	R-134a	1,430.00	0.45455	0.60000	0.00000	1.000000
Medical Office Building	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00230	4.00000	4.00000	18.0000
General Office Building	Household refrigerators and/or freezers	R-134a	1,430.00	0.01679	0.60000	0.00000	1.000000
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
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
Fast Food Restaurant w/o Drive Thru	Household refrigerators and/or freezers	R-134a	1,430.00	0.00000	0.60000	0.00000	1.000000
Fast Food Restaurant w/o Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088.00	1.80000	4.00000	4.00000	18.0000
Fast Food Restaurant w/o Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922.00	0.00040	7.50000	7.50000	20.0000

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
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088.00	0.00225	2.50000	2.50000	10.00000
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430.00	0.11538	0.60000	0.00000	1.000000

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

5.16. Stationary Sources

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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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5.18.1.2. Mitigated

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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5.18.1.2. Mitigated

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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5.18.2.2. Mitigated

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	17.7600	annual days of extreme heat
Extreme Precipitation	5.80000	annual days with precipitation above 20 mm

Sea Level Rise	—	meters of inundation depth
Wildfire	0.48000	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 ¾ 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	2	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	2	1	1	3

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	71.6615
AQ-PM	86.9944
AQ-DPM	84.2813
Drinking Water	77.5946
Lead Risk Housing	75.6018
Pesticides	0.00000
Toxic Releases	81.6704
Traffic	52.5375
Effect Indicators	—

CleanUp Sites	69.5222
Groundwater	86.2693
Haz Waste Facilities/Generators	61.7869
Impaired Water Bodies	58.6938
Solid Waste	59.1753
Sensitive Population	—
Asthma	80.7203
Cardio-vascular	81.6426
Low Birth Weights	8.78881
Socioeconomic Factor Indicators	—
Education	80.5745
Housing	32.7123
Linguistic	75.1929
Poverty	57.7889
Unemployment	39.2113

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	53.50955986
Employed	38.39343
Median HI	56.88438342
Education	—
Bachelor's or higher	32.58052098
High school enrollment	100
Preschool enrollment	40.06159374
Transportation	—

Auto Access	58.83485179
Active commuting	22.67419479
Social	—
2-parent households	46.06698319
Voting	25.81804183
Neighborhood	—
Alcohol availability	60.02823046
Park access	81.35506224
Retail density	41.25497241
Supermarket access	14.9108174
Tree canopy	24.74015142
Housing	—
Homeownership	75.05453612
Housing habitability	49.26215835
Low-inc homeowner severe housing cost burden	81.11125369
Low-inc renter severe housing cost burden	9.636853587
Uncrowded housing	32.32388041
Health Outcomes	—
Insured adults	29.01321699
Arthritis	0.0
Asthma ER Admissions	22.5
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	67.8

Cognitively Disabled	74.6
Physically Disabled	54.0
Heart Attack ER Admissions	19.1
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	43.5
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	36.4
Elderly	61.9
English Speaking	16.3
Foreign-born	72.6
Outdoor Workers	51.7
Climate Change Adaptive Capacity	—
Impervious Surface Cover	57.0
Traffic Density	64.4
Traffic Access	51.6
Other Indices	—
Hardship	61.6
Other Decision Support	—

2016 Voting	31.0
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7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	86.0000
Healthy Places Index Score for Project Location (b)	41.0000
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	Based on site specific information
Construction: Construction Phases	Adjusted for 1-year total building construction
Construction: Off-Road Equipment	Building construction phase equipment increased to account for construction compressed to 1 year from 1.15 years.
Construction: Demolition	Based on average year buildout.

Construction: Trips and VMT	Based on average year of construction.
Operations: Vehicle Data	New mix-use commercial adjusted trip rate to account for internal trips from mixed-use apartments.

8.3. Land Use

Model Parameter	Units	Default Value	New Value
Building Area	sq. ft	4,235.00	17,273.0
Landscape Area	sq. ft	—	1,727.00
Special Landscape Area	sq. ft	—	0.00000
Building Area	sq. ft	62,726.0	7,314.00
Landscape Area	sq. ft	—	732.000
Special Landscape Area	sq. ft	—	0.00000
Building Area	sq. ft	23,400.0	39,229.0
Special 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
Health Club	Weekday Trip Rate	size/day	32.9300	26.3440
Health Club	Saturday Trip Rate	size/day	20.8700	16.6960
Health Club	Sunday Trip Rate	size/day	26.7300	21.3840
Strip Mall	Weekday Trip Rate	size/day	44.3200	35.4560
Strip Mall	Saturday Trip Rate	size/day	42.0400	33.6320
Strip Mall	Sunday Trip Rate	size/day	20.4300	16.3440
Medical Office Building	Weekday Trip Rate	size/day	34.8000	27.8400

Medical Office Building	Saturday Trip Rate	size/day	8.57000	6.85600
Medical Office Building	Sunday Trip Rate	size/day	1.42000	1.13600
General Office Building	Weekday Trip Rate	size/day	9.74000	7.79200
General Office Building	Saturday Trip Rate	size/day	2.21000	1.76800
General Office Building	Sunday Trip Rate	size/day	0.70000	0.56000
Apartments Mid Rise	Weekday Trip Rate	size/day	5.44000	4.46000
Apartments Mid Rise	Saturday Trip Rate	size/day	4.91000	4.02550
Apartments Mid Rise	Sunday Trip Rate	size/day	4.09000	3.35320
Fast Food Restaurant w/o Drive Thru	Weekday Trip Rate	size/day	346.230	276.984
Fast Food Restaurant w/o Drive Thru	Saturday Trip Rate	size/day	696.000	556.800
Fast Food Restaurant w/o Drive Thru	Sunday Trip Rate	size/day	500.000	400.000
High Turnover (Sit Down Restaurant)	Weekday Trip Rate	size/day	112.180	89.7440
High Turnover (Sit Down Restaurant)	Saturday Trip Rate	size/day	122.400	97.9200
High Turnover (Sit Down Restaurant)	Sunday Trip Rate	size/day	142.640	114.112

La Puente Proposed Construction Only Adj Detailed Report

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3.5.2. Offsite - Unmitigated

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3.6.1. Onsite - Unmitigated

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	La Puente Proposed Construction Only Adj
Construction Start Date	1/1/2027
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	1.80000
Precipitation (days)	22.4000
Location	La Puente, CA, USA
County	Los Angeles-South Coast
City	La Puente
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5072
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.39

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
Fast Food Restaurant w/o Drive Thru	6.40000	1000sqft	0.14692	6,400.00	640.000	0.00000	—	—

Health Club	4.00000	1000sqft	0.09183	4,000.00	400.000	0.00000	—	—
Strip Mall	2.40000	1000sqft	0.05510	2,400.00	240.000	0.00000	—	—
Medical Office Building	1.60000	1000sqft	0.03673	1,600.00	160.000	0.00000	—	—
General Office Building	1.60000	1000sqft	0.03673	1,600.00	160.000	0.00000	—	—
Apartments Mid Rise	156.000	Dwelling Unit	4.10526	149,760	14,976.0	0.00000	462.000	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction 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.	2.74731	2.30044	17.2547	29.6750	0.04561	0.57467	2.15078	2.72544	0.52927	0.51420	1.04347	—	6,788.55	6,788.55	0.28130	0.22457	8.24349	6,870.75
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	60.5503	60.5146	28.1869	29.2596	0.08656	1.17263	7.93573	9.10837	1.07889	4.00456	5.08345	—	11,688.4	11,688.4	0.54475	1.41796	0.48942	12,125.1
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.46192	4.16543	11.5608	17.6071	0.02934	0.38940	1.42000	1.80940	0.35880	0.38234	0.74114	—	4,202.12	4,202.12	0.14652	0.16187	2.15174	4,256.18
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.81430	0.76019	2.10984	3.21330	0.00535	0.07107	0.25915	0.33022	0.06548	0.06978	0.13526	—	695.709	695.709	0.02426	0.02680	0.35624	704.658

2.2. Construction Emissions by Year

2.2.1. Total Construction Emissions by Year, Unmitigated

Includes both onsite and offsite emissions.

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	2.74731	2.30044	17.2547	29.6750	0.04561	0.57467	2.15078	2.72544	0.52927	0.51420	1.04347	—	6,788.55	6,788.55	0.28130	0.22457	8.24349	6,870.75
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	60.5503	60.5146	28.1869	29.2596	0.08656	1.17263	7.93573	9.10837	1.07889	4.00456	5.08345	—	11,688.4	11,688.4	0.54475	1.41796	0.48942	12,125.1
2028	60.5404	60.5065	0.90126	2.26941	0.00173	0.01536	0.31370	0.32906	0.01413	0.07353	0.08766	—	430.503	430.503	0.00912	0.01246	0.02310	434.467
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	4.46192	4.16543	11.5608	17.6071	0.02934	0.38940	1.42000	1.80940	0.35880	0.38234	0.74114	—	4,202.12	4,202.12	0.14652	0.16187	2.15174	4,256.18
2028	0.35542	0.35522	0.00529	0.01363	0.00001	0.00009	0.00182	0.00191	0.00008	0.00043	0.00051	—	2.55315	2.55315	0.00005	0.00007	0.00227	2.57856
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.81430	0.76019	2.10984	3.21330	0.00535	0.07107	0.25915	0.33022	0.06548	0.06978	0.13526	—	695.709	695.709	0.02426	0.02680	0.35624	704.658
2028	0.06486	0.06483	0.00097	0.00249	< 0.000005	0.00002	0.00033	0.00035	0.00002	0.00008	0.00009	—	0.42270	0.42270	0.00001	0.00001	0.00038	0.42691

2.2.2. Onsite Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	2.10195	1.75762	15.8030	20.4670	0.03928	0.56750	0.00000	0.56750	0.52210	0.00000	0.52210	—	3,981.20	3,981.20	0.16149	0.03230	0.00000	3,994.86

Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	60.4548	60.4310	27.9724	28.2794	0.04891	1.17173	7.66623	8.83797	1.07799	3.93995	5.01795	—	5,297.82	5,297.82	0.21490	0.04298	0.00000	5,316.00
2028	60.4475	60.4250	0.80814	1.11833	0.00173	0.01536	0.00000	0.01536	0.01413	0.00000	0.01413	—	133.517	133.517	0.00542	0.00108	0.00000	133.975
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	4.09573	3.87037	10.3926	12.9829	0.02432	0.38251	0.19737	0.57988	0.35191	0.08806	0.43997	—	2,481.14	2,481.14	0.10065	0.02013	0.00000	2,489.66
2028	0.35488	0.35475	0.00474	0.00657	0.00001	0.00009	0.00000	0.00009	0.00008	0.00000	0.00008	—	0.78386	0.78386	0.00003	0.00001	0.00000	0.78655
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.74747	0.70634	1.89665	2.36939	0.00444	0.06981	0.03602	0.10583	0.06422	0.01607	0.08030	—	410.782	410.782	0.01666	0.00333	0.00000	412.191
2028	0.06477	0.06474	0.00087	0.00120	< 0.000005	0.00002	0.00000	0.00002	0.00002	0.00000	0.00002	—	0.12978	0.12978	0.00001	< 0.000005	0.00000	0.13022

2.2.3. Offsite Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.64536	0.54281	1.45168	9.20806	0.00632	0.00716	2.15078	2.15794	0.00716	0.51420	0.52136	—	2,807.35	2,807.35	0.11980	0.19227	8.24349	2,875.89
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.67708	0.53192	10.5811	7.87872	0.05923	0.11201	2.57940	2.69141	0.11201	0.69804	0.81005	—	8,728.35	8,728.35	0.42468	1.39395	0.48942	9,154.85
2028	0.09286	0.08148	0.09312	1.15108	0.00000	0.00000	0.31370	0.31370	0.00000	0.07353	0.07353	—	296.986	296.986	0.00370	0.01138	0.02310	300.492
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.36619	0.29506	1.16819	4.62419	0.00502	0.00689	1.22263	1.22952	0.00689	0.29427	0.30116	—	1,720.98	1,720.98	0.04587	0.14174	2.15174	1,766.52
2028	0.00054	0.00048	0.00054	0.00707	0.00000	0.00000	0.00182	0.00182	0.00000	0.00043	0.00043	—	1.76929	1.76929	0.00002	0.00007	0.00227	1.79201
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2027	0.06683	0.05385	0.21319	0.84391	0.00092	0.00126	0.22313	0.22439	0.00126	0.05371	0.05496	—	284.928	284.928	0.00759	0.02347	0.35624	292.467
2028	0.00010	0.00009	0.00010	0.00129	0.00000	0.00000	0.00033	0.00033	0.00000	0.00008	0.00008	—	0.29293	0.29293	< 0.000005	0.00001	0.00038	0.29669

3. Construction Emissions Details

3.1. Demolition (2027)

3.1.1. Onsite - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.63907	2.21478	19.9005	18.6307	0.03253	0.79594	—	0.79594	0.73226	—	0.73226	—	3,426.90	3,426.90	0.13901	0.02780	—	3,438.66
Demolition	—	—	—	—	—	—	0.57520	0.57520	—	0.08710	0.08710	—	—	—	—	—	—	—
Onsite truck	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14461	0.12136	1.09044	1.02086	0.00178	0.04361	—	0.04361	0.04012	—	0.04012	—	187.775	187.775	0.00762	0.00152	—	188.420
Demolition	—	—	—	—	—	—	0.03152	0.03152	—	0.00477	0.00477	—	—	—	—	—	—	—

Onsite truck	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	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02639	0.02215	0.19901	0.18631	0.00033	0.00796	—	0.00796	0.00732	—	0.00732	—	31.0883	31.0883	0.00126	0.00025	—	—	31.1950
Demolition	—	—	—	—	—	—	0.00575	0.00575	—	0.00087	0.00087	—	—	—	—	—	—	—	—
Onsite truck	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	0.00000

3.1.2. Offsite - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06367	0.05573	0.06896	0.81430	0.00000	0.00000	0.20914	0.20914	0.00000	0.04902	0.04902	—	201.584	201.584	0.00282	0.00758	0.01717	203.932
Vendor	0.00785	0.00356	0.13693	0.06415	0.00090	0.00090	0.03422	0.03512	0.00090	0.00946	0.01035	—	122.362	122.362	0.00519	0.01690	0.00828	127.535
Hauling	0.05767	0.01190	0.98811	0.38017	0.00556	0.01058	0.22248	0.23306	0.01058	0.06091	0.07149	—	800.419	800.419	0.03968	0.13043	0.04419	840.322
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00349	0.00305	0.00378	0.04689	0.00000	0.00000	0.01129	0.01129	0.00000	0.00264	0.00264	—	11.2087	11.2087	0.00015	0.00042	0.01565	11.3520
Vendor	0.00044	0.00020	0.00755	0.00348	0.00005	0.00005	0.00185	0.00190	0.00005	0.00051	0.00056	—	6.70263	6.70263	0.00028	0.00093	0.00754	6.99317
Hauling	0.00320	0.00068	0.05475	0.02070	0.00030	0.00058	0.01206	0.01264	0.00058	0.00330	0.00388	—	43.8473	43.8473	0.00217	0.00713	0.04030	46.0674
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00064	0.00056	0.00069	0.00856	0.00000	0.00000	0.00206	0.00206	0.00000	0.00048	0.00048	—	1.85573	1.85573	0.00003	0.00007	0.00259	1.87946
Vendor	0.00008	0.00004	0.00138	0.00063	0.00001	0.00001	0.00034	0.00035	0.00001	0.00009	0.00010	—	1.10970	1.10970	0.00005	0.00015	0.00125	1.15780

Hauling	0.00058	0.00012	0.00999	0.00378	0.00006	0.00011	0.00220	0.00231	0.00011	0.00060	0.00071	—	7.25943	7.25943	0.00036	0.00118	0.00667	7.62698
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3.2. Site Preparation (2027)

3.2.1. Onsite - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.63178	3.05170	27.9724	28.2794	0.04891	1.17173	—	1.17173	1.07799	—	1.07799	—	5,297.82	5,297.82	0.21490	0.04298	—	5,316.00
Dust From Material Movement	—	—	—	—	—	—	7.66623	7.66623	—	3.93995	3.93995	—	—	—	—	—	—	—
Onsite truck	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04975	0.04180	0.38318	0.38739	0.00067	0.01605	—	0.01605	0.01477	—	0.01477	—	72.5729	72.5729	0.00294	0.00059	—	72.8219
Dust From Material Movement	—	—	—	—	—	—	0.10502	0.10502	—	0.05397	0.05397	—	—	—	—	—	—	—
Onsite truck	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

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00908	0.00763	0.06993	0.07070	0.00012	0.00293	—	0.00293	0.00269	—	0.00269	—	12.0153	12.0153	0.00049	0.00010	—	12.0565
Dust From Material Movement	—	—	—	—	—	—	0.01917	0.01917	—	0.00985	0.00985	—	—	—	—	—	—	—
Onsite truck	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

3.2.2. Offsite - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07163	0.06270	0.07758	0.91609	0.00000	0.00000	0.23528	0.23528	0.00000	0.05515	0.05515	—	226.782	226.782	0.00317	0.00853	0.01932	229.424
Vendor	0.00785	0.00356	0.13693	0.06415	0.00090	0.00090	0.03422	0.03512	0.00090	0.00946	0.01035	—	122.362	122.362	0.00519	0.01690	0.00828	127.535
Hauling	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00098	0.00086	0.00106	0.01319	0.00000	0.00000	0.00318	0.00318	0.00000	0.00074	0.00074	—	3.15244	3.15244	0.00004	0.00012	0.00440	3.19276
Vendor	0.00011	0.00005	0.00189	0.00087	0.00001	0.00001	0.00046	0.00048	0.00001	0.00013	0.00014	—	1.67566	1.67566	0.00007	0.00023	0.00189	1.74829
Hauling	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00018	0.00016	0.00019	0.00241	0.00000	0.00000	0.00058	0.00058	0.00000	0.00014	0.00014	—	0.52192	0.52192	0.00001	0.00002	0.00073	0.52860
Vendor	0.00002	0.00001	0.00034	0.00016	< 0.000005	< 0.000005	0.00008	0.00009	< 0.000005	0.00002	0.00003	—	0.27742	0.27742	0.00001	0.00004	0.00031	0.28945

Hauling	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	0.00000
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3.3. Grading (2027)

3.3.1. Onsite - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.88795	1.58640	14.2321	17.2743	0.02733	0.59767	—	0.59767	0.54986	—	0.54986	—	2,960.07	2,960.07	0.12007	0.02401	—	2,970.23
Dust From Material Movement	—	—	—	—	—	—	2.77562	2.77562	—	1.33768	1.33768	—	—	—	—	—	—	—
Onsite truck	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04138	0.03477	0.31194	0.37862	0.00060	0.01310	—	0.01310	0.01205	—	0.01205	—	64.8783	64.8783	0.00263	0.00053	—	65.1009
Dust From Material Movement	—	—	—	—	—	—	0.06084	0.06084	—	0.02932	0.02932	—	—	—	—	—	—	—
Onsite truck	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

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00755	0.00635	0.05693	0.06910	0.00011	0.00239	—	0.00239	0.00220	—	0.00220	—	10.7413	10.7413	0.00044	0.00009	—	10.7782
Dust From Material Movement	—	—	—	—	—	—	0.01110	0.01110	—	0.00535	0.00535	—	—	—	—	—	—	—
Onsite truck	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

3.3.2. Offsite - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06367	0.05573	0.06896	0.81430	0.00000	0.00000	0.20914	0.20914	0.00000	0.04902	0.04902	—	201.584	201.584	0.00282	0.00758	0.01717	203.932
Vendor	0.00785	0.00356	0.13693	0.06415	0.00090	0.00090	0.03422	0.03512	0.00090	0.00946	0.01035	—	122.362	122.362	0.00519	0.01690	0.00828	127.535
Hauling	0.60557	0.12500	10.3752	3.99173	0.05833	0.11111	2.33604	2.44715	0.11111	0.63957	0.75068	—	8,404.40	8,404.40	0.41667	1.36947	0.46396	8,823.38
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00140	0.00122	0.00151	0.01876	0.00000	0.00000	0.00452	0.00452	0.00000	0.00106	0.00106	—	4.48347	4.48347	0.00006	0.00017	0.00626	4.54081
Vendor	0.00018	0.00008	0.00302	0.00139	0.00002	0.00002	0.00074	0.00076	0.00002	0.00020	0.00022	—	2.68105	2.68105	0.00011	0.00037	0.00302	2.79727
Hauling	0.01346	0.00286	0.22996	0.08694	0.00128	0.00244	0.05064	0.05307	0.00244	0.01388	0.01631	—	184.159	184.159	0.00913	0.02995	0.16925	193.483
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00025	0.00022	0.00028	0.00342	0.00000	0.00000	0.00082	0.00082	0.00000	0.00019	0.00019	—	0.74229	0.74229	0.00001	0.00003	0.00104	0.75178
Vendor	0.00003	0.00001	0.00055	0.00025	< 0.000005	< 0.000005	0.00014	0.00014	< 0.000005	0.00004	0.00004	—	0.44388	0.44388	0.00002	0.00006	0.00050	0.46312

Hauling	0.00246	0.00052	0.04197	0.01587	0.00023	0.00044	0.00924	0.00969	0.00044	0.00253	0.00298	—	30.4896	30.4896	0.00151	0.00496	0.02802	32.0333
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3.4. Building Construction (2027)

3.4.1. Onsite - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.10195	1.75762	15.8030	20.4670	0.03928	0.56750	—	0.56750	0.52210	—	0.52210	—	3,981.20	3,981.20	0.16149	0.03230	—	3,994.86
Onsite truck	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.10195	1.75762	15.8030	20.4670	0.03928	0.56750	—	0.56750	0.52210	—	0.52210	—	3,981.20	3,981.20	0.16149	0.03230	—	3,994.86
Onsite truck	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.09993	0.91974	8.26951	10.7101	0.02056	0.29697	—	0.29697	0.27321	—	0.27321	—	2,083.31	2,083.31	0.08451	0.01690	—	2,090.46
Onsite truck	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.20074	0.16785	1.50919	1.95459	0.00375	0.05420	—	0.05420	0.04986	—	0.04986	—	344.916	344.916	0.01399	0.00280	—	346.100
Onsite truck	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

3.4.2. Offsite - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.58742	0.51822	0.50373	8.76948	0.00000	0.00000	1.90836	1.90836	0.00000	0.44732	0.44732	—	1,940.24	1,940.24	0.08208	0.06920	6.04579	1,968.96
Vendor	0.04815	0.02243	0.78996	0.37588	0.00540	0.00540	0.20534	0.21074	0.00540	0.05673	0.06213	—	733.770	733.770	0.03111	0.10138	1.91396	766.672
Hauling	0.00979	0.00216	0.15798	0.06270	0.00093	0.00176	0.03708	0.03884	0.00176	0.01015	0.01192	—	133.344	133.344	0.00661	0.02169	0.28373	140.258
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.58098	0.50856	0.62927	7.43048	0.00000	0.00000	1.90836	1.90836	0.00000	0.44732	0.44732	—	1,839.46	1,839.46	0.02575	0.06920	0.15668	1,860.88
Vendor	0.04709	0.02138	0.82160	0.38487	0.00540	0.00540	0.20534	0.21074	0.00540	0.05673	0.06213	—	734.174	734.174	0.03111	0.10138	0.04970	765.212
Hauling	0.00961	0.00198	0.16469	0.06336	0.00093	0.00176	0.03708	0.03884	0.00176	0.01015	0.01192	—	133.403	133.403	0.00661	0.02174	0.00736	140.054
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.30402	0.26612	0.32929	4.08619	0.00000	0.00000	0.98425	0.98425	0.00000	0.23048	0.23048	—	976.767	976.767	0.01347	0.03621	1.36351	989.259
Vendor	0.02520	0.01146	0.43254	0.19918	0.00282	0.00282	0.10615	0.10898	0.00282	0.02936	0.03219	—	384.061	384.061	0.01628	0.05305	0.43212	400.708
Hauling	0.00510	0.00108	0.08715	0.03295	0.00048	0.00092	0.01919	0.02011	0.00092	0.00526	0.00618	—	69.7903	69.7903	0.00346	0.01135	0.06414	73.3239
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05548	0.04857	0.06009	0.74573	0.00000	0.00000	0.17963	0.17963	0.00000	0.04206	0.04206	—	161.715	161.715	0.00223	0.00600	0.22574	163.783
Vendor	0.00460	0.00209	0.07894	0.03635	0.00052	0.00052	0.01937	0.01989	0.00052	0.00536	0.00587	—	63.5856	63.5856	0.00270	0.00878	0.07154	66.3419
Hauling	0.00093	0.00020	0.01590	0.00601	0.00009	0.00017	0.00350	0.00367	0.00017	0.00096	0.00113	—	11.5546	11.5546	0.00057	0.00188	0.01062	12.1396

3.5. Paving (2027)

3.5.1. Onsite - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.79104	0.66333	6.08588	8.82716	0.01296	0.24176	—	0.24176	0.22242	—	0.22242	—	1,350.39	1,350.39	0.05478	0.01096	—	1,355.03
Paving	0.00000	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03901	0.03271	0.30013	0.43531	0.00064	0.01192	—	0.01192	0.01097	—	0.01097	—	66.5947	66.5947	0.00270	0.00054	—	66.8232
Paving	0.00000	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00712	0.00597	0.05477	0.07944	0.00012	0.00218	—	0.00218	0.00200	—	0.00200	—	11.0255	11.0255	0.00045	0.00009	—	11.0633
Paving	0.00000	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	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	0.00000
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3.5.2. Offsite - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07959	0.06967	0.08620	1.01787	0.00000	0.00000	0.26142	0.26142	0.00000	0.06128	0.06128	—	251.980	251.980	0.00353	0.00948	0.02146	254.915
Vendor	0.00785	0.00356	0.13693	0.06415	0.00090	0.00090	0.03422	0.03512	0.00090	0.00946	0.01035	—	122.362	122.362	0.00519	0.01690	0.00828	127.535
Hauling	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00392	0.00344	0.00425	0.05275	0.00000	0.00000	0.01271	0.01271	0.00000	0.00298	0.00298	—	12.6098	12.6098	0.00017	0.00047	0.01760	12.7710
Vendor	0.00040	0.00018	0.00679	0.00313	0.00004	0.00004	0.00167	0.00171	0.00004	0.00046	0.00051	—	6.03236	6.03236	0.00026	0.00083	0.00679	6.29385
Hauling	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00072	0.00063	0.00078	0.00963	0.00000	0.00000	0.00232	0.00232	0.00000	0.00054	0.00054	—	2.08769	2.08769	0.00003	0.00008	0.00291	2.11439
Vendor	0.00007	0.00003	0.00124	0.00057	0.00001	0.00001	0.00030	0.00031	0.00001	0.00008	0.00009	—	0.99873	0.99873	0.00004	0.00014	0.00112	1.04202
Hauling	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

3.6. Architectural Coating (2027)

3.6.1. Onsite - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
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Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13715	0.11335	0.83116	1.12539	0.00173	0.01905	—	0.01905	0.01752	—	0.01752	—	133.513	133.513	0.00542	0.00108	—	133.971
Architectural Coatings	60.3177	60.3177	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00617	0.00510	0.03741	0.05065	0.00008	0.00086	—	0.00086	0.00079	—	0.00079	—	6.00938	6.00938	0.00024	0.00005	—	6.03000
Architectural Coatings	2.71489	2.71489	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00113	0.00093	0.00683	0.00924	0.00001	0.00016	—	0.00016	0.00014	—	0.00014	—	0.99492	0.99492	0.00004	0.00001	—	0.99834
Architectural Coatings	0.49547	0.49547	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	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	0.00000
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3.6.2. Offsite - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09550	0.08360	0.10344	1.22145	0.00000	0.00000	0.31370	0.31370	0.00000	0.07353	0.07353	—	302.377	302.377	0.00423	0.01138	0.02576	305.898
Vendor	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
Hauling	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00430	0.00376	0.00466	0.05778	0.00000	0.00000	0.01392	0.01392	0.00000	0.00326	0.00326	—	13.8107	13.8107	0.00019	0.00051	0.01928	13.9873
Vendor	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
Hauling	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00078	0.00069	0.00085	0.01054	0.00000	0.00000	0.00254	0.00254	0.00000	0.00059	0.00059	—	2.28652	2.28652	0.00003	0.00008	0.00319	2.31576
Vendor	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
Hauling	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

3.7. Architectural Coating (2028)

3.7.1. Onsite - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
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Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12985	0.10731	0.80814	1.11833	0.00173	0.01536	—	0.01536	0.01413	—	0.01413	—	133.517	133.517	0.00542	0.00108	—	133.975
Architectural Coatings	60.3177	60.3177	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00076	0.00063	0.00474	0.00657	0.00001	0.00009	—	0.00009	0.00008	—	0.00008	—	0.78386	0.78386	0.00003	0.00001	—	0.78655
Architectural Coatings	0.35412	0.35412	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00014	0.00011	0.00087	0.00120	< 0.000005	0.00002	—	0.00002	0.00002	—	0.00002	—	0.12978	0.12978	0.00001	< 0.000005	—	0.13022
Architectural Coatings	0.06463	0.06463	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	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	0.00000
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3.7.2. Offsite - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09286	0.08148	0.09312	1.15108	0.00000	0.00000	0.31370	0.31370	0.00000	0.07353	0.07353	—	296.986	296.986	0.00370	0.01138	0.02310	300.492
Vendor	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
Hauling	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00054	0.00048	0.00054	0.00707	0.00000	0.00000	0.00182	0.00182	0.00000	0.00043	0.00043	—	1.76929	1.76929	0.00002	0.00007	0.00227	1.79201
Vendor	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
Hauling	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00010	0.00009	0.00010	0.00129	0.00000	0.00000	0.00033	0.00033	0.00000	0.00008	0.00008	—	0.29293	0.29293	< 0.000005	0.00001	0.00038	0.29669
Vendor	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
Hauling	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

4. Operations Emissions Details

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
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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

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	1/1/2027	1/29/2027	5.00000	20.0000	—
Site Preparation	Site Preparation	1/30/2027	2/6/2027	5.00000	5.00000	—
Grading	Grading	2/7/2027	2/18/2027	5.00000	8.00000	—
Building Construction	Building Construction	2/19/2027	11/12/2027	5.00000	191.000	—
Paving	Paving	11/13/2027	12/8/2027	5.00000	18.0000	—
Architectural Coating	Architectural Coating	12/9/2027	1/3/2028	5.00000	18.0000	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1.000000	8.00000	33.0000	0.73000
Demolition	Excavators	Diesel	Average	3.00000	8.00000	36.0000	0.38000
Demolition	Rubber Tired Dozers	Diesel	Average	2.00000	8.00000	367.000	0.40000
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00000	8.00000	367.000	0.40000
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Average	4.00000	8.00000	84.0000	0.37000
Grading	Excavators	Diesel	Average	1.000000	8.00000	36.0000	0.38000
Grading	Graders	Diesel	Average	1.000000	8.00000	148.000	0.41000
Grading	Rubber Tired Dozers	Diesel	Average	1.000000	8.00000	367.000	0.40000

Grading	Tractors/Loaders/Back	Diesel	Average	3.00000	8.00000	84.0000	0.37000
Building Construction	Cranes	Diesel	Average	2.00000	7.00000	367.000	0.29000
Building Construction	Forklifts	Diesel	Average	4.00000	8.00000	82.0000	0.20000
Building Construction	Generator Sets	Diesel	Average	2.00000	8.00000	14.0000	0.74000
Building Construction	Tractors/Loaders/Back hoes	Diesel	Average	4.00000	7.00000	84.0000	0.37000
Building Construction	Welders	Diesel	Average	2.00000	8.00000	46.0000	0.45000
Paving	Pavers	Diesel	Average	1.000000	8.00000	81.0000	0.42000
Paving	Paving Equipment	Diesel	Average	2.00000	6.00000	89.0000	0.36000
Paving	Rollers	Diesel	Average	2.00000	6.00000	36.0000	0.38000
Paving	Cement and Mortar Mixers	Diesel	Average	2.00000	6.00000	10.00000	0.56000
Paving	Tractors/Loaders/Back hoes	Diesel	Average	1.000000	8.00000	84.0000	0.37000
Architectural Coating	Air Compressors	Diesel	Average	1.000000	6.00000	37.0000	0.48000

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	Worker	16.0000	18.5000	LDA,LDT1,LDT2
Demolition	Vendor	4.00000	10.2000	HHDT,MHDT
Demolition	Hauling	12.0000	20.0000	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	Worker	18.0000	18.5000	LDA,LDT1,LDT2
Site Preparation	Vendor	4.00000	10.2000	HHDT,MHDT
Site Preparation	Hauling	0.00000	20.0000	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	Worker	16.0000	18.5000	LDA,LDT1,LDT2

Grading	Vendor	4.00000	10.2000	HHDT,MHDT
Grading	Hauling	126.000	20.0000	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	Worker	146.000	18.5000	LDA,LDT1,LDT2
Building Construction	Vendor	24.0000	10.2000	HHDT,MHDT
Building Construction	Hauling	2.00000	20.0000	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	Worker	20.0000	18.5000	LDA,LDT1,LDT2
Paving	Vendor	4.00000	10.2000	HHDT,MHDT
Paving	Hauling	0.00000	20.0000	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	Worker	24.0000	18.5000	LDA,LDT1,LDT2
Architectural Coating	Vendor	0.00000	10.2000	HHDT,MHDT
Architectural Coating	Hauling	0.00000	20.0000	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	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)
Architectural Coating	303,264	101,088	24,000.0	8,000.00	—

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00000	0.00000	0.00000	18,480.0	0.00000
Site Preparation	0.00000	0.00000	7.50000	0.00000	0.00000
Grading	4,000.00	4,000.00	8.00000	0.00000	0.00000
Paving	0.00000	0.00000	0.00000	0.00000	0.00000

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Phase Name	Land Use	Area Paved (acres)	% Asphalt
Paving	Fast Food Restaurant w/o Drive Thru	0.00000	0%
Paving	Health Club	0.00000	0%
Paving	Strip Mall	0.00000	0%
Paving	Medical Office Building	0.00000	0%
Paving	General Office Building	0.00000	0%
Paving	Apartments Mid Rise	—	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2027	0.00000	531.983	0.03300	0.00400
2028	0.00000	531.983	0.03300	0.00400

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	17.7600	annual days of extreme heat
Extreme Precipitation	5.80000	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.48000	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 ¾ 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	2	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	2	1	1	3
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	71.6615
AQ-PM	86.9944
AQ-DPM	84.2813
Drinking Water	77.5946
Lead Risk Housing	75.6018
Pesticides	0.00000
Toxic Releases	81.6704
Traffic	52.5375
Effect Indicators	—
CleanUp Sites	69.5222
Groundwater	86.2693

Haz Waste Facilities/Generators	61.7869
Impaired Water Bodies	58.6938
Solid Waste	59.1753
Sensitive Population	—
Asthma	80.7203
Cardio-vascular	81.6426
Low Birth Weights	8.78881
Socioeconomic Factor Indicators	—
Education	80.5745
Housing	32.7123
Linguistic	75.1929
Poverty	57.7889
Unemployment	39.2113

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	53.50955986
Employed	38.39343
Median HI	56.88438342
Education	—
Bachelor's or higher	32.58052098
High school enrollment	100
Preschool enrollment	40.06159374
Transportation	—
Auto Access	58.83485179
Active commuting	22.67419479

Social	—
2-parent households	46.06698319
Voting	25.81804183
Neighborhood	—
Alcohol availability	60.02823046
Park access	81.35506224
Retail density	41.25497241
Supermarket access	14.9108174
Tree canopy	24.74015142
Housing	—
Homeownership	75.05453612
Housing habitability	49.26215835
Low-inc homeowner severe housing cost burden	81.11125369
Low-inc renter severe housing cost burden	9.636853587
Uncrowded housing	32.32388041
Health Outcomes	—
Insured adults	29.01321699
Arthritis	0.0
Asthma ER Admissions	22.5
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	67.8
Cognitively Disabled	74.6
Physically Disabled	54.0

Heart Attack ER Admissions	19.1
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	43.5
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	36.4
Elderly	61.9
English Speaking	16.3
Foreign-born	72.6
Outdoor Workers	51.7
Climate Change Adaptive Capacity	—
Impervious Surface Cover	57.0
Traffic Density	64.4
Traffic Access	51.6
Other Indices	—
Hardship	61.6
Other Decision Support	—
2016 Voting	31.0

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	86.0000
Healthy Places Index Score for Project Location (b)	41.0000
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
Construction: Construction Phases	Adjusted for 1-year total building construction
Construction: Off-Road Equipment	Building construction phase equipment increased to account for construction compressed to 1 year from 1.15 years.
Construction: Demolition	Based on average year buildout.
Construction: Trips and VMT	Based on average year of construction.
Operations: Hearths	No wood or gas Buring stoves or fireplaces

8.4. Construction

8.4.1. Construction Phases

Phase Type	Phase Name	Model Parameter	Default Value	New Value
Building Construction	Building Construction	End Date	1/7/2028	11/12/2027
Building Construction	Building Construction	Work Days per Phase	230.000	191.000
Paving	Paving	Start Date	1/8/2028	11/13/2027
Paving	Paving	End Date	2/2/2028	12/8/2027
Architectural Coating	Architectural Coating	Start Date	2/3/2028	12/9/2027
Architectural Coating	Architectural Coating	End Date	2/28/2028	1/3/2028

8.4.2. Off-Road Equipment

Phase Name	Equipment Type	Model Parameter	Default Value	New Value
Building Construction	Cranes	Number per Day	1.000000	2.00000
Building Construction	Forklifts	Number per Day	3.00000	4.00000
Building Construction	Generator Sets	Number per Day	1.000000	2.00000
Building Construction	Tractors/Loaders/Backhoes	Number per Day	3.00000	4.00000
Building Construction	Welders	Number per Day	1.000000	2.00000

8.4.5. Demolition

Phase Name	Model Parameter	Units	Default Value	New Value
Demolition	Material Demolished	Building Square Footage	—	18,480.0

8.4.6. Trips and VMT

Phase Name	Trip Type	Model Parameter	Default Value	New Value
Demolition	Worker	One-Way Trips per Day	15.0000	16.0000
Demolition	Hauling	One-Way Trips per Day	10.6500	12.0000

Site Preparation	Worker	One-Way Trips per Day	17.5000	18.0000
Grading	Worker	One-Way Trips per Day	15.0000	16.0000
Grading	Hauling	One-Way Trips per Day	125.000	126.000
Building Construction	Worker	One-Way Trips per Day	118.480	146.000
Building Construction	Vendor	One-Way Trips per Day	19.2988	24.0000
Building Construction	Hauling	One-Way Trips per Day	0.00000	2.00000
Architectural Coating	Worker	One-Way Trips per Day	23.6960	24.0000

CalEEMod Adjustments for Construction to Occur in 1-Year

CalEEMod Base Schedule for Buildout (base on land use quantities)

5. Activity Data

5.1 Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	
Demolition	Demolition	1/1/2027	1/29/2027	5	20	
Site Preparation	Site Preparation	1/30/2027	2/6/2027	5	5	
Grading	Grading	2/7/2027	2/18/2027	5	8	
Building Construction	Building Construction	2/19/2027	1/7/2028	5	230	
Paving	Paving	1/8/2028	2/2/2028	5	18	
Architectural Coating	Architectural Coating	2/3/2028	2/28/2028	5	18	
					299	Total Days

CalEEMod Base Total Duration of Construction:

Years 1.15

CalEEMod Adjusted Schedule for Buildout in 1 Year

5. Activity Data

5.1 Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase
Demolition	Demolition	1/1/2027	1/29/2027	5	20.00
Site Preparation	Site Preparation	1/30/2027	2/6/2027	5	5.00
Grading	Grading	2/7/2027	2/18/2027	5	8.00
<i>Building Construction</i>	<i>Building Construction</i>	<i>2/19/2027</i>	<i>11/12/2027</i>	<i>5</i>	<i>191.00</i>
Paving	Paving	11/13/2027	12/8/2027	5	18.00
Architectural Coating	Architectural Coating	12/9/2027	1/3/2028	5	18.00
Since Base Case is close to 1-year, only adjusted the building construction phase					260

CalEEMod Base Construction Equipment for Buildout (base on land use quantities)

5.2. Off-Road Equipment

5.2.1 Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1	8	33	0.73
Demolition	Excavators	Diesel	Average	3	8	36	0.38
Demolition	Rubber Tired Dozers	Diesel	Average	2	8	367	0.4
Site Preparation	Rubber Tired Dozers	Diesel	Average	3	8	367	0.4
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4	8	84	0.37
Grading	Excavators	Diesel	Average	1	8	36	0.38
Grading	Graders	Diesel	Average	1	8	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1	8	367	0.4
Grading	Tractors/Loaders/Backhoes	Diesel	Average	3	8	84	0.37
Building Construction	Cranes	Diesel	Average	1	7	367	0.29
Building Construction	Forklifts	Diesel	Average	3	8	82	0.2
Building Construction	Generator Sets	Diesel	Average	1	8	14	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3	7	84	0.37
Building Construction	Welders	Diesel	Average	1	8	46	0.45
Paving	Pavers	Diesel	Average	1	8	81	0.42
Paving	Paving Equipment	Diesel	Average	2	6	89	0.36
Paving	Rollers	Diesel	Average	2	6	36	0.38
Paving	Cement and Mortar Mixers	Diesel	Average	2	6	10	0.56
Paving	Tractors/Loaders/Backhoes	Diesel	Average	1	8	84	0.37
Architectural Coating	Air Compressors	Diesel	Average	1	6	37	0.48

CalEEMod Adjusted Construction Equipment for Buildout in 1 Year

5.2. Off-Road Equipment

5.2.1 Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1	8	33	0.73
Demolition	Excavators	Diesel	Average	3	8	36	0.38
Demolition	Rubber Tired Dozers	Diesel	Average	2	8	367	0.4
Site Preparation	Rubber Tired Dozers	Diesel	Average	3	8	367	0.4
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4	8	84	0.37
Grading	Excavators	Diesel	Average	1	8	36	0.38
Grading	Graders	Diesel	Average	1	8	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1	8	367	0.4
Grading	Tractors/Loaders/Backhoes	Diesel	Average	3	8	84	0.37
<i>Building Construction</i>	<i>Cranes</i>	<i>Diesel</i>	<i>Average</i>	<i>2</i>	<i>7</i>	<i>367</i>	<i>0.29</i>
<i>Building Construction</i>	<i>Forklifts</i>	<i>Diesel</i>	<i>Average</i>	<i>4</i>	<i>8</i>	<i>82</i>	<i>0.2</i>
<i>Building Construction</i>	<i>Generator Sets</i>	<i>Diesel</i>	<i>Average</i>	<i>2</i>	<i>8</i>	<i>14</i>	<i>0.74</i>
<i>Building Construction</i>	<i>Tractors/Loaders/Backhoes</i>	<i>Diesel</i>	<i>Average</i>	<i>4</i>	<i>7</i>	<i>84</i>	<i>0.37</i>
<i>Building Construction</i>	<i>Welders</i>	<i>Diesel</i>	<i>Average</i>	<i>2</i>	<i>8</i>	<i>46</i>	<i>0.45</i>
Paving	Pavers	Diesel	Average	1	8	81	0.42
Paving	Paving Equipment	Diesel	Average	2	6	89	0.36
Paving	Rollers	Diesel	Average	2	6	36	0.38
Paving	Cement and Mortar Mixers	Diesel	Average	2	6	10	0.56

Paving	Tractors/Loaders/Backhoes	Diesel	Average	1	8	84	0.37
Architectural Coating	Air Compressors	Diesel	Average	1	6	37	0.48

Since slightly over 1-year in base CalEEMod, only the building phase is adjusted down for a total construction of 1-year

Multiply = 230 / 191.00 = 1.20

Raised resulting number to the next highest whole number.

CalEEMod Base Construction Vehicle Trips for Buildout (base on land use quantities)

5.3. Construction Vehicles
5.3.1 Unmitigated

Phase Name	Trip Type	One-Way Trips per Day Miles per Trip
Demolition	Worker	16
Demolition	Vendor	4
Demolition	Hauling	12
Demolition	Onsite truck	
Site Preparation	Worker	18
Site Preparation	Vendor	4
Site Preparation	Hauling	0
Site Preparation	Onsite truck	
Grading	Worker	16
Grading	Vendor	4
Grading	Hauling	126
Grading	Onsite truck	
Building Construction	Worker	120
Building Construction	Vendor	20
Building Construction	Hauling	1
Building Construction	Onsite truck	
Paving	Worker	20
Paving	Vendor	4
Paving	Hauling	0
Paving	Onsite truck	
Architectural Coating	Worker	24
Architectural Coating	Vendor	0
Architectural Coating	Hauling	0
Architectural Coating	Onsite truck	

CalEEMod Adjusted Construction Vehicle Trips for Buildout in 1 Year

5.3. Construction Vehicles
5.3.1 Unmitigated

Phase Name	Trip Type	One-Way Trips per Day
Demolition	Worker	16
Demolition	Vendor	4
Demolition	Hauling	12
Demolition	Onsite truck	
Site Preparation	Worker	18
Site Preparation	Vendor	4
Site Preparation	Hauling	0
Site Preparation	Onsite truck	
Grading	Worker	16
Grading	Vendor	4
Grading	Hauling	126
Grading	Onsite truck	
<i>Building Construction</i>	<i>Worker</i>	<i>146</i>
<i>Building Construction</i>	<i>Vendor</i>	<i>24</i>
<i>Building Construction</i>	<i>Hauling</i>	<i>2</i>
<i>Building Construction</i>	<i>Onsite truck</i>	
Paving	Worker	20
Paving	Vendor	4
Paving	Hauling	0
Paving	Onsite truck	
Architectural Coating	Worker	24
Architectural Coating	Vendor	0
Architectural Coating	Hauling	0
Architectural Coating	Onsite truck	

Since slightly over 1-year in base CalEEMod, only the building phase is adjusted down for a total construction of 1-year

Multiply = 230 / 191.00 = 1.20

Appendix A3

EMFAC Adjustment Factor Analysis

CalEEMod Adjustments for Construction to Occur in 1-Year

CalEEMod Base Schedule for Buildout (base on land use quantities)

5. Activity Data

5.1 Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	
Demolition	Demolition	1/1/2027	1/29/2027	5	20	
Site Preparation	Site Preparation	1/30/2027	2/6/2027	5	5	
Grading	Grading	2/7/2027	2/18/2027	5	8	
Building Construction	Building Construction	2/19/2027	1/7/2028	5	230	
Paving	Paving	1/8/2028	2/2/2028	5	18	
Architectural Coating	Architectural Coating	2/3/2028	2/28/2028	5	18	
					299	Total Days

CalEEMod Base Total Duration of Construction:

Years 1.15

CalEEMod Adjusted Schedule for Buildout in 1 Year

5. Activity Data

5.1 Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase
Demolition	Demolition	1/1/2027	1/29/2027	5	20.00
Site Preparation	Site Preparation	1/30/2027	2/6/2027	5	5.00
Grading	Grading	2/7/2027	2/18/2027	5	8.00
<i>Building Construction</i>	<i>Building Construction</i>	<i>2/19/2027</i>	<i>11/12/2027</i>	<i>5</i>	<i>191.00</i>
Paving	Paving	11/13/2027	12/8/2027	5	18.00
Architectural Coating	Architectural Coating	12/9/2027	1/3/2028	5	18.00
Since Base Case is close to 1-year, only adjusted the building construction phase					260

CalEEMod Base Construction Equipment for Buildout (base on land use quantities)

5.2. Off-Road Equipment

5.2.1 Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1	8	33	0.73
Demolition	Excavators	Diesel	Average	3	8	36	0.38
Demolition	Rubber Tired Dozers	Diesel	Average	2	8	367	0.4
Site Preparation	Rubber Tired Dozers	Diesel	Average	3	8	367	0.4
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4	8	84	0.37
Grading	Excavators	Diesel	Average	1	8	36	0.38
Grading	Graders	Diesel	Average	1	8	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1	8	367	0.4
Grading	Tractors/Loaders/Backhoes	Diesel	Average	3	8	84	0.37
Building Construction	Cranes	Diesel	Average	1	7	367	0.29
Building Construction	Forklifts	Diesel	Average	3	8	82	0.2
Building Construction	Generator Sets	Diesel	Average	1	8	14	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3	7	84	0.37
Building Construction	Welders	Diesel	Average	1	8	46	0.45
Paving	Pavers	Diesel	Average	1	8	81	0.42
Paving	Paving Equipment	Diesel	Average	2	6	89	0.36
Paving	Rollers	Diesel	Average	2	6	36	0.38
Paving	Cement and Mortar Mixers	Diesel	Average	2	6	10	0.56
Paving	Tractors/Loaders/Backhoes	Diesel	Average	1	8	84	0.37
Architectural Coating	Air Compressors	Diesel	Average	1	6	37	0.48

CalEEMod Adjusted Construction Equipment for Buildout in 1 Year

5.2. Off-Road Equipment

5.2.1 Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1	8	33	0.73
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Site Preparation	Rubber Tired Dozers	Diesel	Average	3	8	367	0.4
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4	8	84	0.37
Grading	Excavators	Diesel	Average	1	8	36	0.38
Grading	Graders	Diesel	Average	1	8	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1	8	367	0.4
Grading	Tractors/Loaders/Backhoes	Diesel	Average	3	8	84	0.37
<i>Building Construction</i>	<i>Cranes</i>	<i>Diesel</i>	<i>Average</i>	<i>2</i>	<i>7</i>	<i>367</i>	<i>0.29</i>
<i>Building Construction</i>	<i>Forklifts</i>	<i>Diesel</i>	<i>Average</i>	<i>4</i>	<i>8</i>	<i>82</i>	<i>0.2</i>
<i>Building Construction</i>	<i>Generator Sets</i>	<i>Diesel</i>	<i>Average</i>	<i>2</i>	<i>8</i>	<i>14</i>	<i>0.74</i>
<i>Building Construction</i>	<i>Tractors/Loaders/Backhoes</i>	<i>Diesel</i>	<i>Average</i>	<i>4</i>	<i>7</i>	<i>84</i>	<i>0.37</i>
<i>Building Construction</i>	<i>Welders</i>	<i>Diesel</i>	<i>Average</i>	<i>2</i>	<i>8</i>	<i>46</i>	<i>0.45</i>
Paving	Pavers	Diesel	Average	1	8	81	0.42
Paving	Paving Equipment	Diesel	Average	2	6	89	0.36
Paving	Rollers	Diesel	Average	2	6	36	0.38
Paving	Cement and Mortar Mixers	Diesel	Average	2	6	10	0.56

Paving	Tractors/Loaders/Backhoes	Diesel	Average	1	8	84	0.37
Architectural Coating	Air Compressors	Diesel	Average	1	6	37	0.48

Since slightly over 1-year in base CalEEMod, only the building phase is adjusted down for a total construction of 1-year

Multiply = 230 / 191.00 = 1.20

Raised resulting number to the next highest whole number.

CalEEMod Base Construction Vehicle Trips for Buildout (base on land use quantities)

5.3. Construction Vehicles
5.3.1 Unmitigated

Phase Name	Trip Type	One-Way Trips per Day Miles per Trip
Demolition	Worker	16
Demolition	Vendor	4
Demolition	Hauling	12
Demolition	Onsite truck	
Site Preparation	Worker	18
Site Preparation	Vendor	4
Site Preparation	Hauling	0
Site Preparation	Onsite truck	
Grading	Worker	16
Grading	Vendor	4
Grading	Hauling	126
Grading	Onsite truck	
Building Construction	Worker	120
Building Construction	Vendor	20
Building Construction	Hauling	1
Building Construction	Onsite truck	
Paving	Worker	20
Paving	Vendor	4
Paving	Hauling	0
Paving	Onsite truck	
Architectural Coating	Worker	24
Architectural Coating	Vendor	0
Architectural Coating	Hauling	0
Architectural Coating	Onsite truck	

CalEEMod Adjusted Construction Vehicle Trips for Buildout in 1 Year

5.3. Construction Vehicles
5.3.1 Unmitigated

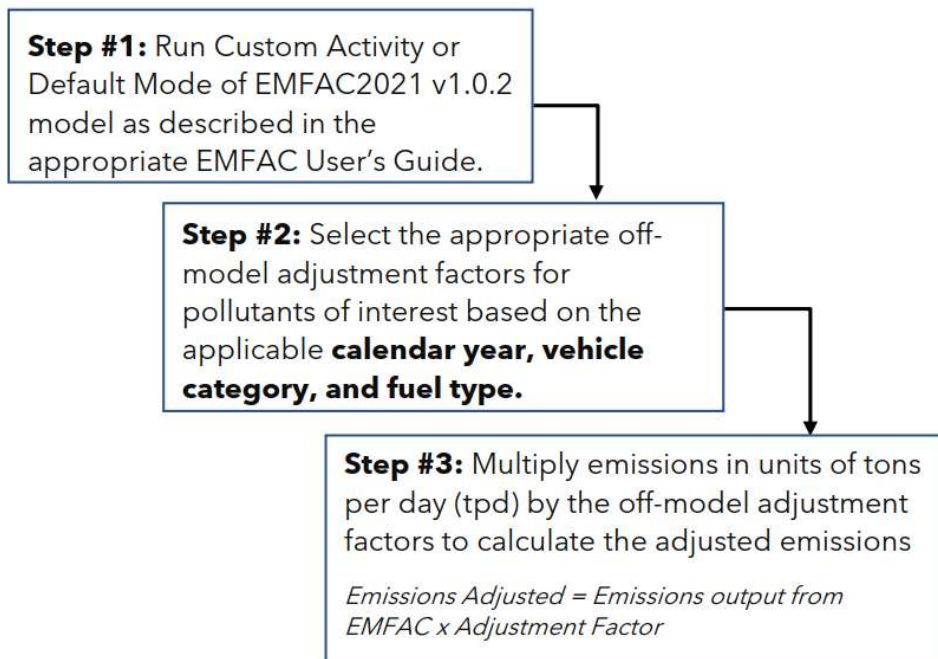
Phase Name	Trip Type	One-Way Trips per Day
Demolition	Worker	16
Demolition	Vendor	4
Demolition	Hauling	12
Demolition	Onsite truck	
Site Preparation	Worker	18
Site Preparation	Vendor	4
Site Preparation	Hauling	0
Site Preparation	Onsite truck	
Grading	Worker	16
Grading	Vendor	4
Grading	Hauling	126
Grading	Onsite truck	
<i>Building Construction</i>	<i>Worker</i>	<i>146</i>
<i>Building Construction</i>	<i>Vendor</i>	<i>24</i>
<i>Building Construction</i>	<i>Hauling</i>	<i>2</i>
<i>Building Construction</i>	<i>Onsite truck</i>	
Paving	Worker	20
Paving	Vendor	4
Paving	Hauling	0
Paving	Onsite truck	
Architectural Coating	Worker	24
Architectural Coating	Vendor	0
Architectural Coating	Hauling	0
Architectural Coating	Onsite truck	

Since slightly over 1-year in base CalEEMod, only the building phase is adjusted down for a total construction of 1-year

Multiply = 230 / 191.00 = 1.20

EMFAC Adjustment Process

Figure 1. Process to apply EMFAC2021 v1.0.2 off-model adjustment factors⁹



EMFAC2021 (v1.0.2) Emissions Inventory Adjustment Factors

Year	2046		A	B	C	D = A / B	E = D x C
Pollutant	Base Emissions	Adjusted Emissions	Percent Change (%)	Percent Statewide Fleet Mix VMT Adjusted	Percent Project CalEEMod VMT Adjusted	Percent Change/EMFAC Statewide % Adjusted	Adjusted Percent Change for Project CalEEMod Fleet Mix
NOx	209.62	267.25	27.49%	11.47	7.12	2.40%	17.07%
PM10	37.11	39.28	5.84%	11.47	7.12	0.51%	3.63%
PM2.5	13.40	14.42	7.62%	11.47	7.12	0.66%	4.73%
VOC	112.98	115.33	2.08%	11.47	7.12	0.18%	1.29%

Source: EMFAC2021 (v1.0.2) Emissions Inventory

Region Type: Statewide

Region: California

Calendar Year: 2046

Season: Annual

Vehicle Classification: EMFAC202X Categories

Units: miles/day for Combustion VMT and Electric VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Gasoline and Diesel Fuel Consumption, 1000 diesel equivalent gallons/day for Natural Gas Fuel Consumption, kWh/day for Energy Consumption

Region	Calendar Year	Vehicle Category	Fuel	NOx_TOTEX	PM2.5_TOTAL	PM10_TOTAL	CO2_TOTEX	CH4_TOTEX	N2O_TOTEX	ROG_TOTAL
Statewide Totals	2046	All Other Buses	Diesel	0.482218741	0.01382686	0.034375078	536.1168414	0.000547859	0.084465427	0.011795257
Statewide Totals	2046	All Other Buses	Natural Gas	0.006834604	0.001183818	0.003448858	50.1987754	0.044225486	0.010233349	0.000631895
Statewide Totals	2046	LDA	Gasoline	21.17829201	2.884384234	8.937456873	128916.4929	2.639587887	3.409100969	35.19364962
Statewide Totals	2046	LDA	Diesel	0.006865509	0.001958505	0.005587777	60.95116011	8.59E-05	0.00960288	0.001850412
Statewide Totals	2046	LDA	Electricity	0	0.273668589	0.958744866	0	0	0	0
Statewide Totals	2046	LDA	Plug-in Hybrid	0.381594975	0.096443586	0.322242156	3210.103411	0.118367048	0.063634242	1.408186241
Statewide Totals	2046	LDT1	Gasoline	1.692266619	0.226510043	0.69066507	10498.55336	0.211086385	0.260210232	3.77989125
Statewide Totals	2046	LDT1	Diesel	1.45E-05	4.22E-06	9.67E-06	0.154313622	3.16E-07	2.43E-05	6.80E-06
Statewide Totals	2046	LDT1	Electricity	0	0.004314314	0.015113497	0	0	0	0
Statewide Totals	2046	LDT1	Plug-in Hybrid	0.013518779	0.003370109	0.011273247	113.1885659	0.004191911	0.002246735	0.045288606
Statewide Totals	2046	LDT2	Gasoline	15.11527293	1.838426751	5.640055031	89591.62282	2.039160528	2.273140368	25.23398359
Statewide Totals	2046	LDT2	Diesel	0.036175568	0.01126413	0.025966631	309.4743324	0.000839665	0.048757807	0.018077485
Statewide Totals	2046	LDT2	Electricity	0	0.03225968	0.113010244	0	0	0	0
Statewide Totals	2046	LDT2	Plug-in Hybrid	0.130262175	0.032085172	0.107224058	1080.654658	0.040396951	0.021570414	0.455341602
Statewide Totals	2046	LHD1	Gasoline	2.470373241	0.386025913	1.106683019	8154.532016	0.148726873	0.234867779	2.689442933
Statewide Totals	2046	LHD1	Diesel	2.529322025	0.410192635	0.945362673	4747.657704	0.029232193	0.747995405	0.629351896
Statewide Totals	2046	LHD1	Electricity	0	0.277791888	0.834263179	0	0	0	0
Statewide Totals	2046	LHD2	Gasoline	0.277929138	0.054777772	0.157023836	1115.620731	0.01660831	0.027422264	0.350968659
Statewide Totals	2046	LHD2	Diesel	1.720501786	0.232109282	0.521740923	2640.323169	0.017383019	0.41598399	0.374246171
Statewide Totals	2046	LHD2	Electricity	0	0.079280234	0.236624407	0	0	0	0
Statewide Totals	2046	MCY	Gasoline	2.252045818	0.038791705	0.088882834	918.3577635	0.855444992	0.168447164	21.00195405
Statewide Totals	2046	MDV	Gasoline	9.517601735	1.048187319	3.208533718	61405.41011	1.246847979	1.357003866	16.636387
Statewide Totals	2046	MDV	Diesel	0.027446376	0.01245566	0.036186345	654.7311154	0.000509577	0.103153154	0.010970887
Statewide Totals	2046	MDV	Electricity	0	0.029307303	0.102657772	0	0	0	0
Statewide Totals	2046	MDV	Plug-in Hybrid	0.082243478	0.019808292	0.066104785	675.5788836	0.025478107	0.013515361	0.303718078
Statewide Totals	2046	MH	Gasoline	0.110260762	0.010518384	0.030784607	995.9453153	0.002072413	0.010023328	0.125529376
Statewide Totals	2046	MH	Diesel	0.690870348	0.013906938	0.026769795	323.7981711	0.000869421	0.051014534	0.018718126
Statewide Totals	2046	Motor Coach	Diesel	0.442171191	0.018116994	0.041177816	544.7450787	0.000663353	0.085824809	0.014281816
Statewide Totals	2046	OBUS	Gasoline	0.097185864	0.003928467	0.011470348	304.1632229	0.005811393	0.006299354	0.084381615
Statewide Totals	2046	OBUS	Electricity	0	0.002452154	0.007788977	0	0	0	0
Statewide Totals	2046	PTO	Diesel	1.282856257	0.001952139	0.002040406	887.8748911	0.000347788	0.139885051	0.007487778
Statewide Totals	2046	PTO	Electricity	0	0	0	0	0	0	0
Statewide Totals	2046	SBUS	Gasoline	0.049990844	0.004522681	0.012896799	192.3863732	0.0132751	0.004609909	0.095741234
Statewide Totals	2046	SBUS	Diesel	0.263661189	0.005237121	0.014363442	272.1627503	0.000170499	0.042879352	0.003670796
Statewide Totals	2046	SBUS	Electricity	0	0.004004868	0.012599395	0	0	0	0
Statewide Totals	2046	SBUS	Natural Gas	0.047319219	0.002169958	0.005745785	143.1630314	0.337279086	0.02918472	0.004819053
Statewide Totals	2046	T6 CAIRP Class 4	Diesel	0.003518508	0.00026003	0.000681981	11.62104726	3.07E-06	0.001830901	6.61E-05
Statewide Totals	2046	T6 CAIRP Class 4	Electricity	0	0.000173762	0.000553737	0	0	0	0
Statewide Totals	2046	T6 CAIRP Class 5	Diesel	0.004629406	0.000357289	0.000936913	15.95629384	4.17E-06	0.002513921	8.99E-05
Statewide Totals	2046	T6 CAIRP Class 5	Electricity	0	0.000238149	0.000758925	0	0	0	0
Statewide Totals	2046	T6 CAIRP Class 6	Diesel	0.015688045	0.000931247	0.002440449	41.69387903	1.17E-05	0.006568888	0.000251841
Statewide Totals	2046	T6 CAIRP Class 6	Electricity	0	0.000623826	0.001987984	0	0	0	0
Statewide Totals	2046	T6 CAIRP Class 7	Diesel	0.115288361	0.011004819	0.028627547	426.6473952	0.000127295	0.067218471	0.002740627
Statewide Totals	2046	T6 CAIRP Class 7	Electricity	0	0.001602907	0.005108083	0	0	0	0
Statewide Totals	2046	T6 CAIRP Class 7	Natural Gas	3.93E-06	1.44E-06	4.23E-06	0.055853134	4.09E-05	1.14E-05	5.84E-07
Statewide Totals	2046	T6 Instate Delivery Class 4	Diesel	0.366002419	0.008789983	0.024446461	432.5670446	0.00019627	0.068151114	0.004225631

Statewide Totals	2046	T6 Instate Delivery Class 4	Electricity	0	0.005049976	0.016016601	0	0	0	0
Statewide Totals	2046	T6 Instate Delivery Class 4	Natural Gas	0.000634512	6.49E-05	0.000184675	3.185202637	0.003306759	0.000649324	4.72E-05
Statewide Totals	2046	T6 Instate Delivery Class 5	Diesel	0.316107524	0.007668485	0.02126768	376.371233	0.00016986	0.059297441	0.003657044
Statewide Totals	2046	T6 Instate Delivery Class 5	Electricity	0	0.004387798	0.013922293	0	0	0	0
Statewide Totals	2046	T6 Instate Delivery Class 5	Natural Gas	0.000561531	5.75E-05	0.000163785	2.809465076	0.00290829	0.000572728	4.16E-05
Statewide Totals	2046	T6 Instate Delivery Class 6	Diesel	0.975961027	0.023725959	0.065691015	1161.404111	0.000523958	0.182979691	0.011280671
Statewide Totals	2046	T6 Instate Delivery Class 6	Electricity	0	0.013573865	0.043075259	0	0	0	0
Statewide Totals	2046	T6 Instate Delivery Class 6	Natural Gas	0.001650976	0.000168469	0.000480576	8.197996953	0.008461788	0.001671215	0.000120902
Statewide Totals	2046	T6 Instate Delivery Class 7	Diesel	0.46585634	0.010776638	0.029265608	512.6906268	0.000227168	0.080774617	0.004890875
Statewide Totals	2046	T6 Instate Delivery Class 7	Electricity	0	0.003344066	0.010609975	0	0	0	0
Statewide Totals	2046	T6 Instate Delivery Class 7	Natural Gas	0.001902921	0.000207747	0.000600881	10.01515778	0.009269403	0.002041655	0.000132441
Statewide Totals	2046	T6 Instate Other Class 4	Diesel	0.634709788	0.018561481	0.050748026	892.517758	0.000387461	0.140616536	0.008341925
Statewide Totals	2046	T6 Instate Other Class 4	Electricity	0	0.010960303	0.034828181	0	0	0	0
Statewide Totals	2046	T6 Instate Other Class 4	Natural Gas	0.001047447	0.000112885	0.000323934	5.323015738	0.005312418	0.001085132	7.59E-05
Statewide Totals	2046	T6 Instate Other Class 5	Diesel	1.511197361	0.044192579	0.120901647	2127.170501	0.000921963	0.335136579	0.019849609
Statewide Totals	2046	T6 Instate Other Class 5	Electricity	0	0.026152788	0.083101824	0	0	0	0
Statewide Totals	2046	T6 Instate Other Class 5	Natural Gas	0.002364047	0.000255803	0.000734297	12.03279558	0.01199188	0.002452964	0.00017134
Statewide Totals	2046	T6 Instate Other Class 6	Diesel	1.207471882	0.035237689	0.096319907	1693.170954	0.000733444	0.266759773	0.015790845
Statewide Totals	2046	T6 Instate Other Class 6	Electricity	0	0.020805993	0.066116098	0	0	0	0
Statewide Totals	2046	T6 Instate Other Class 6	Natural Gas	0.002026712	0.00021879	0.000627904	10.31254458	0.010285759	0.00210228	0.000146963
Statewide Totals	2046	T6 Instate Other Class 7	Diesel	1.25153868	0.027482821	0.073464572	1285.152748	0.000632481	0.202476339	0.013617143
Statewide Totals	2046	T6 Instate Other Class 7	Electricity	0	0.010084503	0.032042655	0	0	0	0
Statewide Totals	2046	T6 Instate Other Class 7	Natural Gas	0.004785994	0.000455913	0.001315227	21.95229855	0.021850762	0.00447512	0.000312204
Statewide Totals	2046	T6 Instate Tractor Class 6	Diesel	0.013094012	0.000428891	0.001173844	20.47908286	8.17E-06	0.003226488	0.000175912
Statewide Totals	2046	T6 Instate Tractor Class 6	Electricity	0	0.00026366	0.000837824	0	0	0	0
Statewide Totals	2046	T6 Instate Tractor Class 6	Natural Gas	1.75E-05	2.14E-06	6.18E-06	0.098886294	9.46E-05	2.02E-05	1.35E-06
Statewide Totals	2046	T6 Instate Tractor Class 7	Diesel	0.816891097	0.023728744	0.063814419	1003.221683	0.000462044	0.158057985	0.009947675
Statewide Totals	2046	T6 Instate Tractor Class 7	Electricity	0	0.00273594	0.008692609	0	0	0	0
Statewide Totals	2046	T6 Instate Tractor Class 7	Natural Gas	0.003165896	0.0004003	0.001158006	18.20937588	0.017047317	0.0037121	0.000243573
Statewide Totals	2046	T6 OOS Class 4	Diesel	0.007116944	0.000366873	0.000957792	15.27275737	4.22E-06	0.002406229	9.09E-05
Statewide Totals	2046	T6 OOS Class 5	Diesel	0.009284324	0.000503557	0.001314203	20.94879344	5.74E-06	0.003300491	0.000123575
Statewide Totals	2046	T6 OOS Class 6	Diesel	0.03263184	0.001314474	0.003432655	54.87001146	1.61E-05	0.008644793	0.000346286
Statewide Totals	2046	T6 OOS Class 7	Diesel	0.120243244	0.009675142	0.025082257	356.3353834	0.000107683	0.056140785	0.002318389
Statewide Totals	2046	T6 Public Class 4	Diesel	0.071170572	0.001599728	0.004261184	78.89239432	5.97E-05	0.012429529	0.0012848
Statewide Totals	2046	T6 Public Class 4	Electricity	0	0.000742829	0.002356518	0	0	0	0
Statewide Totals	2046	T6 Public Class 4	Natural Gas	0.002035454	0.0001501	0.000426163	7.695119577	0.008855162	0.0015687	0.000126523
Statewide Totals	2046	T6 Public Class 5	Diesel	0.113579546	0.002630225	0.007088773	133.2936103	9.89E-05	0.021000463	0.002129603
Statewide Totals	2046	T6 Public Class 5	Electricity	0	0.001222718	0.003877033	0	0	0	0
Statewide Totals	2046	T6 Public Class 5	Natural Gas	0.003038935	0.000214858	0.000610229	11.22613744	0.013174737	0.002288522	0.000188241
Statewide Totals	2046	T6 Public Class 6	Diesel	0.090433614	0.002220919	0.00601582	112.6252784	7.72E-05	0.017744158	0.001662394
Statewide Totals	2046	T6 Public Class 6	Electricity	0	0.001055728	0.003348539	0	0	0	0
Statewide Totals	2046	T6 Public Class 6	Natural Gas	0.002970445	0.000218383	0.000619224	11.32466372	0.013118073	0.002308607	0.000187431
Statewide Totals	2046	T6 Public Class 7	Diesel	0.302869447	0.008141117	0.022173632	405.1951572	0.000249296	0.063838662	0.005367283
Statewide Totals	2046	T6 Public Class 7	Electricity	0	0.003119675	0.009895403	0	0	0	0
Statewide Totals	2046	T6 Public Class 7	Natural Gas	0.009557975	0.000819085	0.002333	41.22479187	0.045431319	0.008403944	0.000649124
Statewide Totals	2046	T6 Utility Class 5	Diesel	0.028105293	0.00111247	0.003096482	54.13457377	1.92E-05	0.008528924	0.000412319
Statewide Totals	2046	T6 Utility Class 5	Electricity	0	0.000823704	0.0026163	0	0	0	0
Statewide Totals	2046	T6 Utility Class 5	Natural Gas	3.34E-05	4.45E-06	1.28E-05	0.204217152	0.000195646	4.16E-05	2.80E-06
Statewide Totals	2046	T6 Utility Class 6	Diesel	0.005429188	0.000215788	0.000601196	10.51551547	3.73E-06	0.001656724	8.02E-05
Statewide Totals	2046	T6 Utility Class 6	Electricity	0	0.000159959	0.000508045	0	0	0	0
Statewide Totals	2046	T6 Utility Class 6	Natural Gas	6.40E-06	8.53E-07	2.46E-06	0.039128366	3.75E-05	7.98E-06	5.36E-07
Statewide Totals	2046	T6 Utility Class 7	Diesel	0.006284448	0.000290402	0.000809414	14.08043586	4.57E-06	0.002218378	9.85E-05
Statewide Totals	2046	T6 Utility Class 7	Electricity	0	0.000220435	0.000700147	0	0	0	0
Statewide Totals	2046	T6 Utility Class 7	Natural Gas	7.56E-06	1.15E-06	3.32E-06	0.052017768	4.82E-05	1.06E-05	6.89E-07
Statewide Totals	2046	T6TS	Gasoline	0.273364075	0.024497093	0.071250633	1853.051037	0.029337079	0.024683313	0.318976001

Statewide Totals	2046 T6TS	Electricity	0	0.015299241	0.048616456	0	0	0	0
Statewide Totals	2046 T7 CAIRP Class 8	Diesel	29.17143467	1.114583435	2.498849235	23220.16803	0.047922946	3.65834693	1.031767878
Statewide Totals	2046 T7 CAIRP Class 8	Electricity	0	0.115217212	0.379932676	0	0	0	0
Statewide Totals	2046 T7 CAIRP Class 8	Natural Gas	0.010868337	0.000983048	0.002930173	29.96486725	0.038893412	0.006108534	0.00055571
Statewide Totals	2046 T7 NNOOS Class 8	Diesel	52.1321343	1.6927693	3.806570357	33718.65659	0.06704202	5.312388077	1.443396297
Statewide Totals	2046 T7 NNOOS Class 8	Diesel	20.53339483	0.630395588	1.399078777	12386.95172	0.028119653	1.951569288	0.605408407
Statewide Totals	2046 T7 Other Port Class 8	Diesel	0.583597842	0.023029993	0.058380533	556.9127116	0.000448045	0.087741825	0.009646279
Statewide Totals	2046 T7 Other Port Class 8	Electricity	0	0.002564269	0.008364837	0	0	0	0
Statewide Totals	2046 T7 POAK Class 8	Diesel	1.147957806	0.037537018	0.094665261	914.021315	0.001185655	0.14400443	0.025526834
Statewide Totals	2046 T7 POAK Class 8	Electricity	0	0.003773172	0.012303785	0	0	0	0
Statewide Totals	2046 T7 POAK Class 8	Natural Gas	0.000324938	4.14E-05	0.000123014	1.187053512	0.00146268	0.000241989	2.09E-05
Statewide Totals	2046 T7 POLA Class 8	Diesel	4.826958418	0.193316876	0.459127014	4428.652356	0.004368322	0.697735982	0.094048781
Statewide Totals	2046 T7 POLA Class 8	Electricity	0	0.014294779	0.046933988	0	0	0	0
Statewide Totals	2046 T7 POLA Class 8	Natural Gas	0.033827809	0.00500274	0.01505487	138.1529253	0.150051905	0.028163378	0.002143946
Statewide Totals	2046 T7 Public Class 8	Diesel	1.769356307	0.034874592	0.093090646	1025.269235	0.00161123	0.161531586	0.034689333
Statewide Totals	2046 T7 Public Class 8	Electricity	0	0.014017399	0.045457261	0	0	0	0
Statewide Totals	2046 T7 Public Class 8	Natural Gas	0.05569161	0.006287016	0.018826072	190.9636125	0.219490356	0.038929182	0.003136084
Statewide Totals	2046 T7 Single Concrete/Transit Mix Class	Diesel	0.243891147	0.010132926	0.026224123	285.5430327	0.000325223	0.044987421	0.00700197
Statewide Totals	2046 T7 Single Concrete/Transit Mix Class	Electricity	0	0.006584634	0.021618209	0	0	0	0
Statewide Totals	2046 T7 Single Concrete/Transit Mix Class	Natural Gas	0.003973529	0.000502567	0.001505386	14.69036016	0.016688005	0.002994726	0.000238439
Statewide Totals	2046 T7 Single Dump Class 8	Diesel	0.963331808	0.029374238	0.073282032	815.2447227	0.001178492	0.128442138	0.025372612
Statewide Totals	2046 T7 Single Dump Class 8	Electricity	0	0.011937876	0.039157219	0	0	0	0
Statewide Totals	2046 T7 Single Dump Class 8	Natural Gas	0.012472509	0.001223815	0.003656496	38.30456145	0.046136738	0.007808635	0.000659203
Statewide Totals	2046 T7 Single Other Class 8	Diesel	3.16390621	0.094609096	0.238042708	2648.229779	0.004113893	0.41722968	0.088570994
Statewide Totals	2046 T7 Single Other Class 8	Electricity	0	0.042886293	0.140666979	0	0	0	0
Statewide Totals	2046 T7 Single Other Class 8	Natural Gas	0.041060992	0.003954534	0.011788075	123.4966612	0.152354829	0.025175602	0.00217685
Statewide Totals	2046 T7 SWCV Class 8	Diesel	0.362115874	0.010164022	0.026914528	355.1436317	0.000212943	0.055953024	0.004584595
Statewide Totals	2046 T7 SWCV Class 8	Electricity	0	0.023930358	0.07375258	0	0	0	0
Statewide Totals	2046 T7 SWCV Class 8	Natural Gas	0.207503871	0.054672637	0.161709582	807.6341696	0.35906737	0.164641509	0.008138873
Statewide Totals	2046 T7 Tractor Class 8	Diesel	24.37357424	0.62131048	1.476435033	14136.75717	0.030292811	2.22725185	0.652195911
Statewide Totals	2046 T7 Tractor Class 8	Electricity	0	0.050821906	0.167011076	0	0	0	0
Statewide Totals	2046 T7 Tractor Class 8	Natural Gas	0.134252674	0.011328049	0.033651266	354.7094858	0.474518276	0.072309849	0.00677993
Statewide Totals	2046 T7 Utility Class 8	Diesel	0.133238308	0.002957327	0.008017462	89.02426633	6.82E-05	0.014025809	0.001467943
Statewide Totals	2046 T7 Utility Class 8	Electricity	0	0.001163496	0.003789436	0	0	0	0
Statewide Totals	2046 T7IS	Gasoline	0.009749984	0.00016246	0.000479081	7.26761355	0.000344501	0.000455039	0.001776359
Statewide Totals	2046 T7IS	Electricity	0	9.70E-05	0.000303438	0	0	0	0
Statewide Totals	2046 UBUS	Gasoline	0.005912903	0.007036463	0.020175881	138.6002875	0.000416482	0.001046454	0.003195226
Statewide Totals	2046 UBUS	Diesel	0.00079746	0.000199982	0.000478683	2.678424942	1.82E-05	0.000421987	0.000391482
Statewide Totals	2046 UBUS	Electricity	0	0.056525402	0.180243706	0	0	0	0
Statewide Totals	2046 UBUS	Natural Gas	0.003064499	0.000949321	0.002376855	12.7015534	5.68E-05	0.002589295	0.00122223

EMFAC Category Adjustment Factors

		Exhaust Nox	Total PM2.5 (exhaust, brake wear, and tire wear)	Total PM10 (exhaust, brake wear, and tire wear)	Total ROG (exhaust and evaporative)			Exhaust Nox	Total PM2.5 (exhaust, brake wear, and tire wear)	Total PM10 (exhaust, brake wear, and tire wear)	Total ROG (exhaust and evaporative)
2046 All Other Buses	DSL	1.218881451	1.005477204	1.002302739	1	2025 All Other Buses	DSL	1.0028	1.000007	1.000004	1
2046 All Other Buses	NG	1	1	1	1	2025 All Other Buses	NG	1	1	1	1
2046 LDA	DSL	1	1	1	1	2025 LDA	DSL	1	1	1	1
2046 LDA	ELEC	1	1	1	1	2025 LDA	ELEC	1	1	1	1
2046 LDA	GAS	1	1	1	1	2025 LDA	GAS	1	1	1	1
2046 LDA	PHE	1	1	1	1	2025 LDA	PHE	1	1	1	1
2046 LDT1	DSL	1	1	1	1	2025 LDT1	DSL	1	1	1	1
2046 LDT1	ELEC	1	1	1	1	2025 LDT1	ELEC	1	1	1	1
2046 LDT1	GAS	1	1	1	1	2025 LDT1	GAS	1	1	1	1
2046 LDT1	PHE	1	1	1	1	2025 LDT1	PHE	1	1	1	1
2046 LDT2	DSL	1	1	1	1	2025 LDT2	DSL	1	1	1	1
2046 LDT2	ELEC	1	1	1	1	2025 LDT2	ELEC	1	1	1	1
2046 LDT2	GAS	1	1	1	1	2025 LDT2	GAS	1	1	1	1
2046 LDT2	PHE	1	1	1	1	2025 LDT2	PHE	1	1	1	1
2046 LHD1	DSL	1.434628882	1.70822913	1.752654839	1.661320828	2025 LHD1	DSL	1.000514	1.004525	1.006363	1.00259
2046 LHD1	ELEC	0	0	0	0	2025 LHD1	ELEC	0	0	0	0
2046 LHD1	GAS	1.552392372	1.847899816	1.847871944	1.284121539	2025 LHD1	GAS	1.002251	1.009485	1.009562	1.001091
2046 LHD2	DSL	1.332680324	1.653392346	1.707697295	1.582635535	2025 LHD2	DSL	1.000871	1.005655	1.00736	1.003783
2046 LHD2	ELEC	0	0	0	0	2025 LHD2	ELEC	0	0	0	0
2046 LHD2	GAS	1.524315398	1.802960408	1.802731938	1.244551714	2025 LHD2	GAS	1.001951	1.008225	1.008244	1.000986
2046 MCY	GAS	1	1	1	1	2025 MCY	GAS	1	1	1	1
2046 MDV	DSL	1	1	1	1	2025 MDV	DSL	1	1	1	1
2046 MDV	ELEC	1	1	1	1	2025 MDV	ELEC	1	1	1	1
2046 MDV	GAS	1	1	1	1	2025 MDV	GAS	1	1	1	1
2046 MDV	PHE	1	1	1	1	2025 MDV	PHE	1	1	1	1
2046 MH	DSL	1	1	1	1	2025 MH	DSL	1	1	1	1
2046 MH	GAS	1	1	1	1	2025 MH	GAS	1	1	1	1
2046 Motor Coach	DSL	1.61444361	1.04277103	1.019668824	1	2025 Motor Coach	DSL	1.01772	1.002028	1.000997	1
2046 OBUS	ELEC	0	0	0	0	2025 OBUS	ELEC	0	0	0	0
2046 OBUS	GAS	2.873180706	2.148032899	2.146800873	1.234485963	2025 OBUS	GAS	1.005193	1.00945	1.009388	1.001749
2046 PTO	DSL	2.15510558	1.896750599	1.896750599	1.837912008	2025 PTO	DSL	1.015319	1.007715	1.007715	1.005964
2046 PTO	ELEC	0	0	0	0	2025 PTO	ELEC	0	0	0	0
2046 SBUS	DSL	2.225452341	1.788288439	1.800570667	1.623725544	2025 SBUS	DSL	1.002508	1.002468	1.003754	1.000642
2046 SBUS	ELEC	0	0	0	0	2025 SBUS	ELEC	0	0	0	0
2046 SBUS	GAS	1.671028693	1.478044783	1.476897912	1.332330204	2025 SBUS	GAS	1.002524	1.004481	1.004428	1.003029
2046 SBUS	NG	1.563609252	1.797519394	1.799044033	1.715740366	2025 SBUS	NG	1.00302	1.007486	1.007442	1.005259
2046 T6 CAIRP Class 4	DSL	3.486276138	2.468579967	2.459419873	2.387584228	2025 T6 CAIRP Class 4	DSL	1.017928	1.013441	1.014496	1.007201
2046 T6 CAIRP Class 4	ELEC	0	0	0	0	2025 T6 CAIRP Class 4	ELEC	0	0	0	0
2046 T6 CAIRP Class 5	DSL	3.441747152	2.464796776	2.455932827	2.382658113	2025 T6 CAIRP Class 5	DSL	1.016169	1.012567	1.013169	1.008519
2046 T6 CAIRP Class 5	ELEC	0	0	0	0	2025 T6 CAIRP Class 5	ELEC	0	0	0	0
2046 T6 CAIRP Class 6	DSL	3.604113537	2.47113729	2.46375155	2.394931072	2025 T6 CAIRP Class 6	DSL	1.032357	1.019586	1.020116	1.012035
2046 T6 CAIRP Class 6	ELEC	0	0	0	0	2025 T6 CAIRP Class 6	ELEC	0	0	0	0
2046 T6 CAIRP Class 7	DSL	1.704019381	1.330530939	1.324876579	1.302450507	2025 T6 CAIRP Class 7	DSL	1.016339	1.009936	1.009851	1.006777
2046 T6 CAIRP Class 7	ELEC	0	0	0	0	2025 T6 CAIRP Class 7	ELEC	0	0	0	0
2046 T6 CAIRP Class 7	NG	1.313490244	1.319169683	1.31913772	1.319186228	2025 T6 CAIRP Class 7	NG	1.0034	1.007853	1.007751	1.008813
2046 T6 Instate Delivery Class 4	DSL	3.041100324	2.131509205	2.130271552	2.046064114	2025 T6 Instate Delivery Class 4	DSL	1.012032	1.005366	1.00741	1.001597

2046 T6 Instate Delivery Class 4	ELEC	0	0	0	0	2025 T6 Instate Delivery Class 4	ELEC	0	0	0	0
2046 T6 Instate Delivery Class 4	NG	2.094697144	2.157539013	2.158453837	2.132829436	2025 T6 Instate Delivery Class 4	NG	1.013038	1.018739	1.018553	1.017626
2046 T6 Instate Delivery Class 5	DSL	3.043217826	2.131894648	2.130368138	2.046017305	2025 T6 Instate Delivery Class 5	DSL	1.013568	1.0063	1.00757	1.002606
2046 T6 Instate Delivery Class 5	ELEC	0	0	0	0	2025 T6 Instate Delivery Class 5	ELEC	0	0	0	0
2046 T6 Instate Delivery Class 5	NG	2.112339923	2.173124386	2.174134365	2.148141943	2025 T6 Instate Delivery Class 5	NG	1.012876	1.018075	1.017939	1.016819
2046 T6 Instate Delivery Class 6	DSL	3.044387987	2.133920203	2.133165414	2.049329295	2025 T6 Instate Delivery Class 6	DSL	1.013858	1.006232	1.007529	1.002412
2046 T6 Instate Delivery Class 6	ELEC	0	0	0	0	2025 T6 Instate Delivery Class 6	ELEC	0	0	0	0
2046 T6 Instate Delivery Class 6	NG	2.113560906	2.175522543	2.17641982	2.150569686	2025 T6 Instate Delivery Class 6	NG	1.012352	1.018018	1.017835	1.016766
2046 T6 Instate Delivery Class 7	DSL	1.774633133	1.611816474	1.620960749	1.516919281	2025 T6 Instate Delivery Class 7	DSL	1.00578	1.002972	1.003148	1.001814
2046 T6 Instate Delivery Class 7	ELEC	0	0	0	0	2025 T6 Instate Delivery Class 7	ELEC	0	0	0	0
2046 T6 Instate Delivery Class 7	NG	1.442066748	1.5778112	1.574215502	1.564069988	2025 T6 Instate Delivery Class 7	NG	1.001766	1.002845	1.002782	1.002951
2046 T6 Instate Other Class 4	DSL	3.106032264	2.198195182	2.195303431	2.084535527	2025 T6 Instate Other Class 4	DSL	1.012305	1.005079	1.007161	1.001535
2046 T6 Instate Other Class 4	ELEC	0	0	0	0	2025 T6 Instate Other Class 4	ELEC	0	0	0	0
2046 T6 Instate Other Class 4	NG	2.103226948	2.206230008	2.207990533	2.162897742	2025 T6 Instate Other Class 4	NG	1.013609	1.019071	1.018866	1.018297
2046 T6 Instate Other Class 5	DSL	3.098537085	2.200214418	2.197172303	2.084921314	2025 T6 Instate Other Class 5	DSL	1.015117	1.006931	1.007584	1.004039
2046 T6 Instate Other Class 5	ELEC	0	0	0	0	2025 T6 Instate Other Class 5	ELEC	0	0	0	0
2046 T6 Instate Other Class 5	NG	2.111597919	2.21387795	2.215597157	2.170658606	2025 T6 Instate Other Class 5	NG	1.010872	1.015308	1.015156	1.014529
2046 T6 Instate Other Class 6	DSL	3.086760249	2.197036888	2.19496578	2.084238874	2025 T6 Instate Other Class 6	DSL	1.013642	1.005808	1.007298	1.002093
2046 T6 Instate Other Class 6	ELEC	0	0	0	0	2025 T6 Instate Other Class 6	ELEC	0	0	0	0
2046 T6 Instate Other Class 6	NG	2.103192217	2.206634828	2.208387278	2.162889863	2025 T6 Instate Other Class 6	NG	1.010846	1.01491	1.014771	1.014211
2046 T6 Instate Other Class 7	DSL	1.846752585	1.739343514	1.752510769	1.568268124	2025 T6 Instate Other Class 7	DSL	1.010919	1.00764	1.00837	1.003527
2046 T6 Instate Other Class 7	ELEC	0	0	0	0	2025 T6 Instate Other Class 7	ELEC	0	0	0	0
2046 T6 Instate Other Class 7	NG	1.510788603	1.728648067	1.727958624	1.651171624	2025 T6 Instate Other Class 7	NG	1.004063	1.007981	1.007869	1.007171
2046 T6 Instate Tractor Class 6	DSL	3.061684144	2.244114515	2.242710909	2.110876678	2025 T6 Instate Tractor Class 6	DSL	1.010261	1.004928	1.006409	1.001547
2046 T6 Instate Tractor Class 6	ELEC	0	0	0	0	2025 T6 Instate Tractor Class 6	ELEC	0	0	0	0
2046 T6 Instate Tractor Class 6	NG	2.124756701	2.259778503	2.26176526	2.207747471	2025 T6 Instate Tractor Class 6	NG	1.006939	1.011219	1.011093	1.0106
2046 T6 Instate Tractor Class 7	DSL	1.463900161	1.23496905	1.235969863	1.190244913	2025 T6 Instate Tractor Class 7	DSL	1.008024	1.003685	1.003909	1.001872
2046 T6 Instate Tractor Class 7	ELEC	0	0	0	0	2025 T6 Instate Tractor Class 7	ELEC	0	0	0	0
2046 T6 Instate Tractor Class 7	NG	1.185092202	1.232680127	1.232316509	1.222374859	2025 T6 Instate Tractor Class 7	NG	1.002289	1.004087	1.004031	1.003938
2046 T6 OOS Class 4	DSL	1	1	1	1	2025 T6 OOS Class 4	DSL	1	1	1	1
2046 T6 OOS Class 5	DSL	1	1	1	1	2025 T6 OOS Class 5	DSL	1	1	1	1
2046 T6 OOS Class 6	DSL	1	1	1	1	2025 T6 OOS Class 6	DSL	1	1	1	1
2046 T6 OOS Class 7	DSL	1	1	1	1	2025 T6 OOS Class 7	DSL	1	1	1	1
2046 T6 Public Class 4	DSL	2.064547591	1.835834123	1.870083905	1.589285985	2025 T6 Public Class 4	DSL	1.004548	1.005857	1.008391	1.001959
2046 T6 Public Class 4	ELEC	0	0	0	0	2025 T6 Public Class 4	ELEC	0	0	0	0
2046 T6 Public Class 4	NG	1.80050048	1.908819783	1.910386245	1.859183186	2025 T6 Public Class 4	NG	1.014802	1.01829	1.018121	1.01755
2046 T6 Public Class 5	DSL	2.125226569	1.849746532	1.875672001	1.608149087	2025 T6 Public Class 5	DSL	1.006522	1.006401	1.007967	1.002362
2046 T6 Public Class 5	ELEC	0	0	0	0	2025 T6 Public Class 5	ELEC	0	0	0	0
2046 T6 Public Class 5	NG	1.733908482	1.87113167	1.87098349	1.810211637	2025 T6 Public Class 5	NG	1.007397	1.010523	1.010366	1.009587
2046 T6 Public Class 6	DSL	2.207654291	1.858214912	1.877422646	1.655782601	2025 T6 Public Class 6	DSL	1.004886	1.005116	1.007664	1.001783
2046 T6 Public Class 6	ELEC	0	0	0	0	2025 T6 Public Class 6	ELEC	0	0	0	0
2046 T6 Public Class 6	NG	1.77557969	1.882312281	1.88394969	1.833633264	2025 T6 Public Class 6	NG	1.013393	1.01595	1.015823	1.015263
2046 T6 Public Class 7	DSL	1.917367371	1.688104596	1.700825521	1.533527437	2025 T6 Public Class 7	DSL	1.004635	1.006087	1.009193	1.001777
2046 T6 Public Class 7	ELEC	0	0	0	0	2025 T6 Public Class 7	ELEC	0	0	0	0
2046 T6 Public Class 7	NG	1.623830477	1.707804292	1.708979333	1.673669622	2025 T6 Public Class 7	NG	1.01436	1.019366	1.019303	1.01784
2046 T6 Utility Class 5	DSL	3.913122331	2.461814328	2.459381876	2.413568888	2025 T6 Utility Class 5	DSL	1.035098	1.017821	1.018318	1.013325

2046 T6 Utility Class 5	ELEC	0	0	0	0	2025 T6 Utility Class 5	ELEC	0	0	0	0
2046 T6 Utility Class 5	NG	2.424997415	2.456642758	2.45719864	2.445131489	2025 T6 Utility Class 5	NG	1.009202	1.0164	1.01614	1.015577
2046 T6 Utility Class 6	DSL	3.93651602	2.463542981	2.459786095	2.412987441	2025 T6 Utility Class 6	DSL	1.037777	1.018375	1.018639	1.014338
2046 T6 Utility Class 6	ELEC	0	0	0	0	2025 T6 Utility Class 6	ELEC	0	0	0	0
2046 T6 Utility Class 6	NG	2.424572737	2.456353982	2.456911573	2.444819721	2025 T6 Utility Class 6	NG	1.006155	1.011688	1.01145	1.011289
2046 T6 Utility Class 7	DSL	3.918461964	2.496949688	2.493503332	2.434137403	2025 T6 Utility Class 7	DSL	1.039273	1.021562	1.02171	1.017156
2046 T6 Utility Class 7	ELEC	0	0	0	0	2025 T6 Utility Class 7	ELEC	0	0	0	0
2046 T6 Utility Class 7	NG	2.440439829	2.48979644	2.490560913	2.473177653	2025 T6 Utility Class 7	NG	1.005479	1.012445	1.012212	1.011516
2046 T6TS	ELEC	0	0	0	0	2025 T6TS	ELEC	0	0	0	0
2046 T6TS	GAS	2.981805601	2.15142028	2.152738557	1.47715052	2025 T6TS	GAS	1.008561	1.011678	1.011668	1.00263
2046 T7 CAIRP Class 8	DSL	1.61233489	1.29568164	1.292828885	1.278091332	2025 T7 CAIRP Class 8	DSL	1.036462	1.010667	1.011403	1.011584
2046 T7 CAIRP Class 8	ELEC	0	0	0	0	2025 T7 CAIRP Class 8	ELEC	0	0	0	0
2046 T7 CAIRP Class 8	NG	1.284144749	1.290800555	1.290973099	1.286617078	2025 T7 CAIRP Class 8	NG	1.008672	1.010213	1.01015	1.00974
2046 T7 NNOOS Class 8	DSL	1	1	1	1	2025 T7 NNOOS Class 8	DSL	1	1	1	1
2046 T7 NOOS Class 8	DSL	1	1	1	1	2025 T7 NOOS Class 8	DSL	1	1	1	1
2046 T7 Other Port Class 8	DSL	1.445873277	1.258372183	1.25529061	1.234999469	2025 T7 Other Port Class 8	DSL	1.009426	1.00471	1.005045	1.003956
2046 T7 Other Port Class 8	ELEC	0	0	0	0	2025 T7 Other Port Class 8	ELEC	0	0	0	0
2046 T7 POAK Class 8	DSL	1.45884683	1.235709994	1.232516377	1.229405364	2025 T7 POAK Class 8	DSL	1.011613	1.004166	1.004451	1.004742
2046 T7 POAK Class 8	ELEC	0	0	0	0	2025 T7 POAK Class 8	ELEC	0	0	0	0
2046 T7 POAK Class 8	NG	1.231597776	1.230298168	1.230272962	1.230942871	2025 T7 POAK Class 8	NG	1.019162	1.018136	1.018106	1.01861
2046 T7 POLA Class 8	DSL	1.334241652	1.183670121	1.181913483	1.177603265	2025 T7 POLA Class 8	DSL	1.004406	1.001621	1.00178	1.001943
2046 T7 POLA Class 8	ELEC	0	0	0	0	2025 T7 POLA Class 8	ELEC	0	0	0	0
2046 T7 POLA Class 8	NG	1.184555067	1.186217029	1.186143805	1.186017686	2025 T7 POLA Class 8	NG	1.003627	1.005948	1.005857	1.005806
2046 T7 Public Class 8	DSL	1.731934387	1.626236404	1.651153007	1.431622812	2025 T7 Public Class 8	DSL	1.006113	1.005247	1.00704	1.002264
2046 T7 Public Class 8	ELEC	0	0	0	0	2025 T7 Public Class 8	ELEC	0	0	0	0
2046 T7 Public Class 8	NG	1.675907759	1.804525964	1.804305454	1.752280197	2025 T7 Public Class 8	NG	1.010779	1.018058	1.017993	1.016297
2046 T7 Single Concrete/Transit Mix Class 8	DSL	3.142348371	2.347829867	2.341735934	2.253845887	2025 T7 Single Concrete/Transit Mix Class 8	DSL	1.039218	1.019673	1.020125	1.017215
2046 T7 Single Concrete/Transit Mix Class 8	ELEC	0	0	0	0	2025 T7 Single Concrete/Transit Mix Class 8	ELEC	0	0	0	0
2046 T7 Single Concrete/Transit Mix Class 8	NG	2.283880908	2.335712006	2.336613154	2.307837467	2025 T7 Single Concrete/Transit Mix Class 8	NG	1.014308	1.019911	1.019847	1.018509
2046 T7 Single Dump Class 8	DSL	2.176968254	1.868850534	1.885061029	1.693850116	2025 T7 Single Dump Class 8	DSL	1.013918	1.007514	1.008106	1.005429
2046 T7 Single Dump Class 8	ELEC	0	0	0	0	2025 T7 Single Dump Class 8	ELEC	0	0	0	0
2046 T7 Single Dump Class 8	NG	1.7032723	1.892610334	1.893388829	1.800033047	2025 T7 Single Dump Class 8	NG	1.00477	1.009187	1.009112	1.007848
2046 T7 Single Other Class 8	DSL	2.339660291	1.960905519	1.9753722	1.794564318	2025 T7 Single Other Class 8	DSL	1.019801	1.011032	1.01142	1.008402
2046 T7 Single Other Class 8	ELEC	0	0	0	0	2025 T7 Single Other Class 8	ELEC	0	0	0	0
2046 T7 Single Other Class 8	NG	1.830274232	1.99664684	1.998293969	1.907346179	2025 T7 Single Other Class 8	NG	1.00751	1.012167	1.012099	1.010732
2046 T7 SWCV Class 8	DSL	1.168188938	1.431175889	1.414503526	1.396003691	2025 T7 SWCV Class 8	DSL	1.000644	1.002364	1.002084	1.002338
2046 T7 SWCV Class 8	ELEC	0	0	0	0	2025 T7 SWCV Class 8	ELEC	0	0	0	0
2046 T7 SWCV Class 8	NG	1.187772151	1.734802579	1.735903067	1.07476151	2025 T7 SWCV Class 8	NG	1.000479	1.008838	1.008937	1.000163
2046 T7 Tractor Class 8	DSL	1.431465086	1.204318303	1.203036387	1.182618424	2025 T7 Tractor Class 8	DSL	1.01451	1.005292	1.005648	1.004918
2046 T7 Tractor Class 8	ELEC	0	0	0	0	2025 T7 Tractor Class 8	ELEC	0	0	0	0
2046 T7 Tractor Class 8	NG	1.180176789	1.198069873	1.198281488	1.187707673	2025 T7 Tractor Class 8	NG	1.002811	1.004616	1.004564	1.003994
2046 T7 Utility Class 8	DSL	2.176494742	1.795278451	1.798539504	1.682804807	2025 T7 Utility Class 8	DSL	1.017242	1.008526	1.008387	1.005914
2046 T7 Utility Class 8	ELEC	0	0	0	0	2025 T7 Utility Class 8	ELEC	0	0	0	0
2046 T7IS	ELEC	0	0	0	0	2025 T7IS	ELEC	0	0	0	0
2046 T7IS	GAS	3.155744114	2.087693853	2.087761418	1.894927133	2025 T7IS	GAS	1.006641	1.008867	1.00904	1.00146
2046 UBUS	DSL	1	1	1	1	2025 UBUS	DSL	1	1	1	1
2046 UBUS	ELEC	1	1	1	1	2025 UBUS	ELEC	1	1	1	1

2046 UBUS
2046 UBUS

GAS
NG

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2025 UBUS
2025 UBUS

GAS
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1

EMFAC Adjusted Results

Vehicle Category	Fuel	EMFAC Adjustment Factors				NOx_TOTEX	Adjusted NOx_TOTEX	PM2.5_TOTAL	Adjusted PM2.5_TOTAL	PM10_TOTAL	Adjusted PM10_TOTAL	ROG_TOTAL	Adjusted ROG_TOTAL		
		Exhaust Nox	PM10	ROG	PM10										
All Other Buses	Diesel	All Other Buses	DSL	1.218881451	1.005477204	1.002302739	1	0.482218741	0.587774779	0.01382666	0.013902593	0.034375078	0.034454235	0.011795257	0.011795257
All Other Buses	Natural Gas	All Other Buses	NG	1	1	1	1	0.006834604	0.006834604	0.001183818	0.001183818	0.003448858	0.003448858	0.000631895	0.000631895
LDA	Gasoline	LDA	GAS	1	1	1	1	21.17829201	21.17829201	2.884384234	2.884384234	8.937456873	8.937456873	35.19364962	35.19364962
LDA	Diesel	LDA	DSL	1	1	1	1	0.006865509	0.006865509	0.001958505	0.001958505	0.005587777	0.005587777	0.001850412	0.001850412
LDA	Electricity	LDA	ELEC	1	1	1	1	0	0	0.273668589	0.273668589	0.958744866	0.958744866	0	0
LDA	Plug-in Hybrid	LDA	PHE	1	1	1	1	0.381594975	0.381594975	0.096443586	0.096443586	0.322242156	0.322242156	1.408186241	1.408186241
LDT1	Gasoline	LDT1	GAS	1	1	1	1	1.692266619	1.692266619	0.226510043	0.226510043	0.69066507	0.69066507	3.77989125	3.77989125
LDT1	Diesel	LDT1	DSL	1	1	1	1	1.45257E-05	1.45257E-05	4.22088E-06	4.22088E-06	9.67102E-06	9.67102E-06	6.79894E-06	6.79894E-06
LDT1	Electricity	LDT1	ELEC	1	1	1	1	0	0	0.004314314	0.004314314	0.015113497	0.015113497	0	0
LDT1	Plug-in Hybrid	LDT1	PHE	1	1	1	1	0.013518779	0.013518779	0.003370109	0.003370109	0.011273247	0.011273247	0.045288606	0.045288606
LDT2	Gasoline	LDT2	GAS	1	1	1	1	15.11527293	15.11527293	1.838426751	1.838426751	5.640055031	5.640055031	25.23398359	25.23398359
LDT2	Diesel	LDT2	DSL	1	1	1	1	0.036175568	0.036175568	0.01126413	0.01126413	0.025966631	0.025966631	0.018077485	0.018077485
LDT2	Electricity	LDT2	ELEC	1	1	1	1	0	0	0.03225968	0.03225968	0.113010244	0.113010244	0	0
LDT2	Plug-in Hybrid	LDT2	PHE	1	1	1	1	0.130262175	0.130262175	0.032085172	0.032085172	0.107224058	0.107224058	0.455341602	0.455341602
LHD1	Gasoline	LHD1	GAS	1.552392372	1.847899616	1.847871944	1.284121539	2.470373241	3.834988574	0.386025913	0.713337213	1.106683019	2.045008501	2.689442933	3.453571597
LHD1	Diesel	LHD1	DSL	1.434628882	1.708229133	1.752654839	1.661322028	2.529322025	3.628638427	0.410192635	0.700703008	0.945362673	1.656894463	6.269351896	1.045555413
LHD1	Electricity	LHD1	ELEC	0	0	0	0	0	0	0.277791888	0.277791888	0	0	0	0
LHD2	Gasoline	LHD2	GAS	1.524315398	1.802960408	1.802731938	1.244551714	2.77929139	4.23651665	0.45777772	0.098762154	0.157023836	0.283071484	0.350968659	0.436798646
LHD2	Diesel	LHD2	DSL	1.332680324	1.653392346	1.707697295	1.582635535	1.720501786	2.29287878	0.232109282	0.383767711	0.521740923	0.890975562	0.374246171	0.592295289
LHD2	Electricity	LHD2	ELEC	0	0	0	0	0	0	0.079280234	0.079280234	0	0	0	0
MCY	Gasoline	MCY	GAS	1	1	1	1	2.252045818	2.252045818	0.038791705	0.038791705	0.088882834	0.088882834	21.00195405	21.00195405
MDV	Gasoline	MDV	GAS	1	1	1	1	9.517601735	9.517601735	1.048187319	1.048187319	3.208533718	3.208533718	16.636387	16.636387
MDV	Diesel	MDV	DSL	1	1	1	1	0.027446376	0.027446376	0.01245566	0.01245566	0.036186345	0.036186345	0.010970887	0.010970887
MDV	Electricity	MDV	ELEC	1	1	1	1	0	0	0.029307303	0.029307303	0.102657772	0.102657772	0	0
MDV	Plug-in Hybrid	MDV	PHE	1	1	1	1	0.082243478	0.082243478	0.019808292	0.019808292	0.066104785	0.066104785	0.303718078	0.303718078
MH	Gasoline	MH	GAS	1	1	1	1	0.110260762	0.110260762	0.010518384	0.010518384	0.030784607	0.030784607	0.125529376	0.125529376
MH	Diesel	MH	DSL	1	1	1	1	0.690870348	0.690870348	0.013906938	0.013906938	0.026769795	0.026769795	0.018718126	0.018718126
Motor Coach	Diesel	Motor Coach	DSL	1.61444361	1.04277103	1.019668824	1	0.442171191	0.713860454	0.018116994	0.018981876	0.041177816	0.041987736	0.014281816	0.014281816
OBUS	Gasoline	OBUS	GAS	2.873180706	2.148032899	2.146800873	1.234485963	0.097185864	0.27923255	0.003928467	0.008438476	0.011470348	0.024624553	0.083481615	0.104167919
OBUS	Electricity	OBUS	ELEC	0	0	0	0	0	0	0.002452154	0.002452154	0.007788977	0.007788977	0	0
PTO	Diesel	PTO	DSL	2.15510558	1.896750599	1.896750599	1.837912008	1.282856257	2.764690677	0.001952139	0.003702722	0.002040406	0.003870142	0.007487778	0.013761877
PTO	Electricity	PTO	ELEC	0	0	0	0	0	0	0	0	0	0	0	0
SBUS	Gasoline	SBUS	GAS	1.671028693	1.478044783	1.468997912	1.332330204	0.049990844	0.08356135	0.004522681	0.006684726	0.012896799	0.019047255	0.095714124	0.127558938
SBUS	Diesel	SBUS	DSL	2.225452341	1.788288439	1.780070667	1.623725544	0.263661189	0.586765409	0.005237121	0.009365482	0.014363442	0.025862393	0.003679696	0.005960365
SBUS	Electricity	SBUS	ELEC	0	0	0	0	0	0	0.004004868	0.004004868	0.012599395	0.012599395	0	0
SBUS	Natural Gas	SBUS	NG	1.563609252	1.797519394	1.799044033	1.715740366	0.047319219	0.073988769	0.002169958	0.003900542	0.005745785	0.01033692	0.004819053	0.008268243
T6 CAIRP Class 4	Diesel	T6 CAIRP Class 4	DSL	3.486276138	2.468579967	2.459419873	2.387584228	0.003518508	0.01226489	0.00026003	0.000641904	0.000681981	0.001677278	6.61486E-05	0.000157935
T6 CAIRP Class 4	Electricity	T6 CAIRP Class 4	ELEC	0	0	0	0	0	0	0.000173762	0.000173762	0.000553737	0.000553737	0	0
T6 CAIRP Class 5	Diesel	T6 CAIRP Class 5	DSL	3.441747152	2.464796776	2.455932827	2.382658113	0.004629406	0.015933243	0.000357289	0.000880644	0.000936913	0.002300995	8.98559E-05	0.000214096
T6 CAIRP Class 5	Electricity	T6 CAIRP Class 5	ELEC	0	0	0	0	0	0	0.000238149	0.000238149	0.000758925	0.000758925	0	0
T6 CAIRP Class 6	Diesel	T6 CAIRP Class 6	DSL	3.604113537	2.47113729	2.46375155	2.394931072	0.015688045	0.056541497	0.000931247	0.002301238	0.002444449	0.00601266	0.000251841	0.000603141
T6 CAIRP Class 6	Electricity	T6 CAIRP Class 6	ELEC	0	0	0	0	0	0	0.000628626	0.000628626	0.001897984	0.001897984	0	0
T6 CAIRP Class 7	Diesel	T6 CAIRP Class 7	DSL	1.704019381	1.330530939	1.324878579	1.302450507	0.011528866	0.196453601	0.011004819	0.016442256	0.028627547	0.037927966	0.002740627	0.003569531
T6 CAIRP Class 7	Electricity	T6 CAIRP Class 7	ELEC	0	0	0	0	0	0	0.001602907	0.001602907	0.005108083	0.005108083	0	0
T6 CAIRP Class 7	Natural Gas	T6 CAIRP Class 7	NG	1.313490244	1.319169683	1.31913772	1.319186228	3.9309E-06	5.1632E-06	1.43843E-06	4.2273E-06	5.7839E-06	5.8389E-06	7.70219E-07	0
T6 Instate Delivery Class 4	Diesel	T6 Instate Delivery Class 4	DSL	3.041100324	2.131509205	2.130271552	2.046064114	0.366002419	1.113050075	0.008789983	0.018735931	0.024446461	0.0520776	0.004225631	0.008645913
T6 Instate Delivery Class 4	Electricity	T6 Instate Delivery Class 4	ELEC	0	0	0	0	0	0	0.005049976	0.005049976	0.016016601	0.016016601	0	0
T6 Instate Delivery Class 4	Natural Gas	T6 Instate Delivery Class 4	NG	2.094697144	2.157539013	2.158453837	2.132829436	0.000634512	0.010329111	6.48521E-05	0.000139921	0.000184675	0.000399613	4.72471E-05	0.000100777
T6 Instate Delivery Class 4	Diesel	T6 Instate Delivery Class 4	DSL	3.043217826	2.131894648	2.130368138	2.046017305	0.000634512	0.961980452	0.007668485	0.016348402	0.02126768	0.043079987	0.003657044	0.007482376
T6 Instate Delivery Class 5	Electricity	T6 Instate Delivery Class 5	ELEC	0	0	0	0	0	0	0.004387798	0.004387798	0.013922923	0.013922923	0	0
T6 Instate Delivery Class 5	Natural Gas	T6 Instate Delivery Class 5	NG	2.112339923	2.173124386	2.174134365	2.148141943	0.000561531	0.001186144	5.74713E-05	0.000124892	0.000163785	0.000356609	4.15537E-05	8.92633E-05
T6 Instate Delivery Class 6	Diesel	T6 Instate Delivery Class 6	DSL	3.044387987	2.133920203	2.133165414	2.049329295	0.975961027	2.971204025	0.023759599	0.050629304	0.065691015	0.140129801	0.011280671	0.023117809
T6 Instate Delivery Class 6	Electricity	T6 Instate Delivery Class 6	ELEC	0	0	0	0	0	0	0.013573865	0.013573865	0.043075259	0.043075259	0	0
T6 Instate Delivery Class 6	Natural Gas	T6 Instate Delivery Class 6	NG	2.113560906	2.175522543	2.17641982	2.150569686	0.001650976	0.003489438	0.000168469	0.000366509	0.000480576	0.010145934	0.000120902	0.000260009
T6 Instate Delivery Class 7	Diesel	T6 Instate Delivery Class 7	DSL	1.774633133	1.611818674	1.620960749	1.516919281	0.46585634	0.826724097	0.010776638	0.017369963	0.029265608	0.047438402	0.004898705	0.007419062
T6 Instate Delivery Class 7	Electricity	T6 Instate Delivery Class 7	ELEC	0	0	0	0	0	0	0.003344066	0.003344066	0.010609975	0.010609975	0	0
T6 Instate Delivery Class 7	Natural Gas	T6 Instate Delivery Class 7	NG	1.442066748	1.5778112	1.574215502	1.564069988	0.001902921	0.00274414	0.000207747	0.000327788	0.000600881	0.000945916	0.000132441	0.000207148
T6 Instate Other Class 4	Diesel	T6 Instate Other Class 4	DSL	3.106032264	2.198195182	2.195303431	2.084535527	0.634709788	1.97142908	0.018561481	0.040801759	0.050748026	0.111407315	0.008341925	0.01738904
T6 Instate Other Class 4	Electricity														

Appendix A4

Energy Demand Calculations

Operational Electricity for Water/Wastewater Conveyance

Electricity Intensity Factors - Water/Wastewater

Process	Units	
Supply	kwh/MG	3,044
Treat	kwh/MG	725
Distribute	kwh/MG	1,537
Wastewater Treatment	kwh/MG	1,501
Total	kwh/MG	6,807

* Electricity intensity factors from CalEEMod Appendix D for [Los Angeles-South Coast County](#)

Electricity Demand - Water/Wastewater

	Units	Potable Water - Indoor	Potable Water - Outdoor	Total
Electricity Intensity Factor				
Supply	kwh/MG	3,044	3,044	N/A
Treat	kwh/MG	725	725	N/A
Distribute	kwh/MG	1,537	1,537	N/A
Wastewater Treatment	kwh/MG	1,501	-	N/A
Total	kwh/MG	6,807	5,306	N/A
Water Consumption - Project				
Project Water	MG/yr	298.5196	9.415893404	307.94
Total	MG/yr	298.5	9.4	307.9
Electricity Usage - Project	kwh/yr	2,032,023	49,961	2,081,984

Project Operational Energy Demand

Mobile Source Gasoline Demand

Scenario	Vehicle MT CO ₂	Kg CO ₂ /Gallon	Gallons
Project mobile	130,423.67	8.78	14,854,631.68
Landscaping Emissions	81.18617105	8.78	9,246.72
Total	130,504.85		14,863,878.39

Mobile Source Diesel Demand

Scenario	Vehicle MT CO ₂	Kg CO ₂ /Gallon	Gallons
Project mobile	8,382.86	10.21	821,044.12

Electricity Demand

Project Facility	kWh/Year
<i>Building and Lighting Electricity Demand</i>	
Project	33,144,906 from CalEEMod
<i>Water/Wastewater Electricity Demand</i>	
Project	2,081,984
Total	35,226,890

Natural Gas Demand

Project Facility	kBtu/Year
Project	88,739,631 from CalEEMod

1 kBtu = 0.010002388 therms

1.00 kBtu

0.010002388 therms

	887,608.22	therms
Los Angeles County Gas Consumption	2,830,000,000.00	therms
		kBTU
Project proportion of SoCalGas natural gas consumption	0.0314%	

Fuel	KgCO ₂ /Gallon
Gasoline	8.78
Diesel	10.21

EXISTING USES

Electricity Demand

Project Facility	kWh/Year
<i>Building and Lighting Electricity Demand</i>	
Project	19,871,632 from CalEEMod
<i>Water/Wastewater Electricity Demand</i>	
Project	-
Total	19,871,632

Natural Gas Demand

Project Facility	kBtu/Year
Project	42,190,784 from CalEEMod

1 kBtu = 0.010002388 therms

1.00 kBtu

0.010002388

	422,008.59	therms
Los Angeles County Gas Consumption	2,830,000,000.00	therms
		kBTU
Project proportion of SoCalGas natural gas consumption	0.0149%	