Appendix FEIR-9

Confirmatory Air Quality, GHG, and Energy Analysis in Response to Public Comments

CONFIRMATORY AIR QUALITY, GHG, AND ENERGY ANALYSIS IN RESPONSE TO COMMENTS (CONFIRMATORY ANALYSIS)

TVC 2050 Project

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TVC 2050 Project

Confirmatory Air Quality, GHG, and Energy Analysis in Response to Comments

1. Introduction

Appendix B, Air Quality and Greenhouse Gas Emissions, of the Draft EIR provided a comprehensive greenhouse gas (GHG) and criteria air pollutant emissions assessment for the TVC 2050 Project (Project). Emissions during both construction and operation of the Project were quantified. In addition, Appendix D, Energy Calculations, of the Draft EIR provided a comprehensive energy assessment of the Project. Subsequent to the completion of the Draft EIR, in response to public comments, regulatory changes, modeling software updates, and the introduction of additional Project Design Features (PDFs) and mitigation measures committed to in the Final EIR, additional analysis was conducted. Presented herein are the analyses that confirms the conclusions of the analyses related to air quality, GHG and energy in the Draft EIR (hereafter referred to as the Confirmatory Analysis).

2. Updates to the Analyses

2.1 CalEEMod 2022

Project-related construction and operation emissions were calculated in the Draft EIR using SCAQMD's recommended California Emissions Estimator Model (CalEEMod) Version 2020.4.0. CalEEMod 2020.4.0 was the most current model available at the time the Draft EIR Notice of Completion and Availability (NOC/NOA) was published (on July 14, 2022). CalEEMod 2022.1 was subsequently released for use "full launch" on December 21, 2022.

It was appropriate and consistent with CEQA for the City to prepare the Draft EIR using the CalEEMod model available at the time the NOC/NOA was published. Nevertheless, in response to Comment No. 26-E.1-35, calculation of Project emissions using CalEEMod 2022.1 was prepared as part of the Final EIR to confirm the analyses and significance conclusions in the Draft EIR.

The key updates in CalEEMod 2022.1 include updated default factors for off-road equipment such as emissions, horsepower rating, and load factors; additional construction

dust control measures; updated VOC content for architectural coatings and paints; new energy (electricity and natural gas) usage factors based on updated surveys; electricity intensity factors for water and wastewater, new fleet mix and emission factors based on EMFAC2021; and emission reduction measures from the California Air Pollution Control Officers Association (CAPCOA) Handbook for Analyzing Greenhouse Gas Emissions Reductions (CAPCOA GHG Handbook) released in December 2021. Updates to the California Air Resources Board (CARB) OFFROAD and EMission FACtor (EMFAC) models, which are incorporated into the CalEEMod software, are based on newer construction equipment and motor vehicle registration data and take into account newer emissions regulations and technologies.

2.2 All-Electric Ordinance

In December 2022, the City approved Ordinance No. 187714, which amended Chapter IX of the LAMC to require that all new buildings be all-electric, with some exceptions. Exceptions are made for commercial restaurants, laboratory, and research and development uses. Cooking equipment contained within kitchens in a public use area, such as restaurants, commissaries, cafeterias, and community kitchens are exempt as long as electrical infrastructure is installed. Occupancy Groups I-2 (institutions such as hospitals), F (industrial) and L (laboratories) are also exempt. The Project would be required to comply with the new all-electric ordinance.

By default, CalEEMod 2022.1 assumes appliances such as water heating, clothes dryers and space heating are powered by natural gas. The CalEEMod 2022.1 model contains adjustments to take into account the increased electricity usage and decrease in GHG emissions as a result of all-electric development for residential uses. However, these adjustments are not yet available in CalEEMod 2022.1 for commercial uses (e.g., the Project). The CAPCOA GHG Handbook provides a methodology to calculate the equivalent electricity usage of an appliance that is normally powered by natural gas, such as clothes dryers, water heaters and space heating.[1] In order to account for the Project's compliance with the new all-electric ordinance, calculations were performed to convert appliances which are typically powered by natural gas, to electricity powered. Conversely, the CAPCOA GHG Handbook also assumes some appliances that are typically powered by electricity to be powered by natural gas by default (e.g., refrigeration and air conditioning). As CalEEMod 2022.1 categorizes electricity usage as either Title 24 (e.g., space heating and water heating) versus non-Title 24 (e.g., appliances), a specific conversion for each category provided in the CAPCOA guidance was not available. Thus, some natural gas

[1] *California Air Pollution Control Officers Association, Handbook for Analyzing Greenhouse Gas Emissions Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity, December 2021, Appendix C, Table E-15.*

categories within the CAPCOA GHG Handbook (e.g., refrigeration) are likely already included as electric within CalEEMod. Thus, the conversion between natural gas to electricity for these categories within the CAPCOA GHG Handbook is conservative and overstates the total electricity usage. The calculations are provided in Appendix C-3 of this Confirmatory Analysis.

2.3 Construction

A memorandum detailing the construction assumptions used for the Project is provided in Appendix FEIR-8 of this Final EIR. This memo contains assumptions relating to the type and number of equipment used, number of truck trips, and the amount of excavation and other construction activities such as dewatering and contaminated soil excavation.

2.3.1 On-Site Construction Truck/Vehicle Activity

As discussed on page IV.A-41 in Section IV.A, Air Quality, of the Draft EIR, the Project's emissions were estimated using CalEEMod 2020.4.0 software, an emissions inventory software program recommended by SCAQMD. The CalEEMod 2020.4.0 software did not have the ability to calculate on-site vehicle travel emissions. As CalEEMod 2022.1 is able to calculate on-site vehicle travel emissions, on-site vehicular activity (delivery and haul trucks and construction employee trips) is included in this Confirmatory Analysis.

Please refer to Appendix A-5 of this Confirmatory Analysis for a summary of the parameters used for on-site construction truck/vehicle activity and calculation of emissions. Speed limits and fugitive dust control measures are included as PDFs in Section III, Revisions, Clarifications, and Corrections to the Draft EIR.

2.3.2 Dewatering

Per Project Design Feature GEO-PDF-1, which is included on pages IV.D-18 to IV.D-19 in Section IV.D, Geology and Soils, of the Draft EIR, the proposed subterranean structures will be designed to resist the hydrostatic pressure and will be waterproofed, such that a permanent dewatering system (post-construction dewatering) will not be required. The temporary dewatering system will be decommissioned and removed following completion of the individual subterranean structures.

The Dewatering Report is included in Appendix FEIR-13 of this Final EIR for further details regarding proposed temporary dewatering. As discussed therein, the installation of temporary groundwater wells is anticipated to be initiated during the demolition construction phase pre-excavation. The Draft EIR's air quality, GHG and energy analyses assumed that

the installation of the wells could occur using the off-road equipment mix provided during the overlap of demolition and excavation phases which would conservatively evaluate overlapping emissions. Nonetheless, off-road construction equipment (two drill rigs, one front-end loader, one backhoe, and one excavator) have been included in the demolition phase pre-excavation in this Confirmatory Analysis, which overestimates the construction equipment and is therefore a conservative analysis. In addition, 28 small electric pumps would be used during dewatering and treatment.[2] Please refer to Appendix FEIR-8 of this Final EIR, Details of Project Buildout and Construction Activities, for detailed construction information.

2.3.3 Potentially Contaminated Soils During Excavation/Export

Project construction also has the potential to release VOCs associated with soil excavation and export activities. During excavation and export activities, materials that would be removed or disturbed may have the potential to release limited amounts of VOCs during soil handling. Please refer to the quantitative Health Risk Assessment (HRA) in Appendix FEIR-10 of this Final EIR for a detailed discussion of potential emissions associated with potentially contaminated soils. Please refer to Appendix A-5 of this Confirmatory Analysis for a summary of potential VOC emissions during excavation and export of soils.

2.3.4 Additional PDFs and Mitigation Measures

In response to comments on the Draft EIR, new and modified PDFs and mitigation measures are included in this Final EIR to further reduce construction emissions. Speed limits and fugitive dust control measures are included in this Final EIR related to on-site truck/vehicle activity. In response to Comment No. 26-40, Mitigation Measure AIR-MM-1 (off-road construction equipment) expanded the use of Tier 4 equipment to include equipment less than 50 horsepower for all phases of construction. This modification was accounted for in this Confirmatory Analysis, as shown in Appendix A-2. In response to Comment No. 26-E.1-39, Mitigation Measure AIR-MM-1 was also expanded to provide that to the extent commercially available, electric small (i.e., less than 19 kilowatts) off-road equipment shall be used during Project construction in lieu of conventional small gasoline or diesel off-road equipment, and that electric pumps shall be used for temporary dewatering during Project construction. In addition, in response to Comment No. 1-2, Mitigation Measure AIR-MM-1 was expanded to provide that where commercially available, construction equipment shall meet Tier V requirements. This modification was conservatively not included in this analysis since CalEEMod 2022.1 does not include Tier V

[2] *Please note that electric equipment is not included in CalEEMod 2020 and, therefore, was not included in the associated air quality and GHG analyses in the Draft EIR.*

emission factors. In response to Comment No. 26-40, Mitigation Measure AIR-MM-2 (construction trucks) was modified to further reduce construction truck emissions beyond the commitment to use 2010 model year or newer engines that meet CARB's 2010 engine emissions standards. The Project, where commercially available, would require the Project's truck operator(s)/construction contractor(s) to use 2014 model year or newer heavy-duty trucks meeting CARB's 2013 optional low-NOx standard. This modification was conservatively not included in this analysis since CalEEMod 2022.1 does not include these emission factors.

In response to Comment No. 26-E.1-39, the following additional construction-related mitigation measure is included in the Final EIR.

Mitigation Measure AIR-MM-5: To the extent commercially available for the Project Site, renewable diesel fuel shall be used in Project construction equipment in lieu of conventional diesel.

2.4 Operations

In response to comments on the Draft EIR, additional clarification regarding specific operational sources is provided below.

2.4.1 Utilities

In response to Comment No. 26-E.1-35, additional clarification is provided regarding the use of CalEEMod energy use factors. AMA Group Engineers (AMA) peer-reviewed the energy usage calculations provided in the Draft EIR and confirmed the energy consumption usage rates adequately accounted for the types of land uses proposed as part of the Project. This Technical Memorandum is provided as Appendix C-4 of this Confirmatory Analysis.

TVC's 2021 electricity and natural gas usage data is provided in Appendix C-1 of this Confirmatory Analysis. As shown therein, TVC's 2021 energy usage would be higher than what would be estimated using CalEEMod 2020.4.0 default energy usage factors. Thus, the Draft EIR's use of CalEEMod to estimate the baseline energy use was conservative because it resulted in a lower level of baseline energy use than would occur using TVC's 2021 utility data resulting in a larger incremental change in energy use and pollutant emissions caused by the Project than would actually occur from removal of existing uses with use of the utility bills.

2.4.2 Basecamp Operations

As discussed on page II-7 of Section II, Project Description, of the Draft EIR, basecamp areas would include parking, storage of mobile facilities, support vehicles, etc. While existing production activities occasionally require the use of small portable generators when electrical hookups are not available, the Project will provide a sufficient number of electrical hookups in basecamp areas such that use of gasoline or diesel portable generators will not be needed. A PDF is included in Section III, Revisions, Clarifications, and Corrections to the Draft EIR, of this Final EIR to require the installation of additional electrical hookups (e.g., for cast, wardrobe, hair trailers) at all basecamp areas. This Confirmatory Analysis conservatively assumes no portable generators are used under the existing condition scenario (which is not the case). AMA's Technical Memorandum provides the calculation of the electricity required for electrical hook-ups (see Appendix C-4 of this Confirmatory Analysis). In addition, the electricity usage and resultant GHG emissions associated with lighting and ventilation in basecamp areas is specifically included in this Confirmatory Analysis.

2.4.3 On-Site Operational Truck/Vehicle Activity

As discussed above, CalEEMod 2020.4.0 software did not have the ability to specifically calculate on-site vehicle travel emissions. In response to Comment No. 26-E.1-17, on-site vehicular activity is included in this Confirmatory Analysis. Diesel trucks including food trucks accessing basecamp areas would travel on-site for short distances and would plug into electric power when parked. Emissions are associated with delivery trucks, catering and services trucks, and other trucks used to deliver materials or provide services to television production operations. Please refer to Appendix A-7 of this Confirmatory Analysis for a summary of the parameters used for on-site operational truck/vehicle activity and calculation of emissions.

2.4.4 Mobility Hub

As discussed in the Draft EIR, the Project would include a Mobility Hub for employees, which would provide an off-street area for additional passenger pick-up/drop-off and temporary parking of carpools, vanpools, shuttles, ride-share, taxi, and other commercial and non-commercial vehicles. While the Mobility Hub would serve to reduce overall Project regional and localized operational emissions resulting from vehicle trips, emissions from shuttles and ridesharing services were calculated for on-site Project operations. Please refer to Appendix A-7 of this Confirmatory Analysis for a summary of the parameters used for shuttles and ridesharing services activity and calculation of emissions.

A PDF is included in Section III, Revisions, Clarifications, and Corrections to the Draft EIR to include four EV chargers to be provided for the shuttle parking spaces. AMA's Technical Memorandum provides calculation of the electricity required for the EV chargers (see Appendix C-4 of this Confirmatory Analysis).

2.4.5 Food Trucks

In response to Comment No. 26-28, additional clarification is provided regarding the use of food trucks on the Project Site. Commercial cooking activities are capable of producing criteria pollutants. Television City currently allows food trucks to access the Project Site. Most of the food trucks are not equipped with cooking equipment (i.e., char broilers) since meals are often prepared off-site (e.g., sandwiches, salads). Detailed emissions calculations under both existing and buildout conditions are provided in Appendix A-7 of this Confirmatory Analysis.

2.4.6 Spray Booths

As discussed in Response to Comment No. 26-E.1-18, the latest available Annual Emission Reports (AER) data from 2019 through 2022 (Quarter 1) were submitted to SCAQMD annually as required. The 2019–2021 AERs for TVC are provided in Appendix A-7 of this Confirmatory Analysis. During years 2020 and 2021, spray paint usage was reduced due to the COVID-19 pandemic. Extrapolating 2021 Quarter 1 usage to an annual basis would result in an annual usage similar to 2019. Therefore, VOC and PM emissions from the 2019 AER were used to characterize the existing spray paint booth emissions consistent with spray booth emissions in Appendix B, Air Quality and Greenhouse Gas Emissions, of the Draft EIR. Please see the summary of usage and emissions in Appendix A-7 of this Confirmatory Analysis.

As discussed in Appendix A-6 of this Confirmatory Analysis, legacy studio lots, such as Television City, often lag behind advancements made in modern technology and sustainability infrastructure. Television City began operations in the era of analog broadcast, with physical film reels being the primary medium to capture media content. The existing Project Site has a large amount of production support uses relative to the mix of sound stage and production office space on-site. Modern studios, such as the Project, no longer offer the full-service gamut of production support but more so to function in a manner that provides each individual production with the flexibility to choose how to use their space to meet their specific needs. Traditional set making and processes, such as fabrication and painting, have shifted to digital production and virtual environments, reducing the needs for physical construction techniques. Furthermore, any new spray paint booths at the Project Site would include the most up-to-date equipment, which would comply with current SCAQMD requirements (e.g., more efficient paint sprayers and HEPA filtration increasing PM_{10} filtration from 90 percent to 99.97 percent) and SCAQMD permit

conditions. Based on this information, the HRA conservatively used the same level of paint/solvent/adhesive usage reported in TVC's 2019 AER for future operations. This is also discussed in footnote b of Table IV.A-7 on page IV.A-64 in Section IV.A, Air Quality, of the Draft EIR.

2.4.8 Signage

In response to Comment No. 102-6, additional clarification (see Appendix C-3 of this Confirmatory Analysis) is provided regarding electricity usage associated with existing and proposed signage (i.e., unlit static display, lighted static display, and digital display). For analytical purposes, it was assumed conservatively that the Project would contain approximately 120,000 square feet of interior signage (including 12,000 square feet of digital display signage) and that up to approximately 40 percent (48,000 square feet) of the interior signs would be lighted static display signs, which would include approximately 4,137 square feet of existing lighted static display signs.

2.4.9 On-Site Maintenance Activities

2.4.9.1 Architectural Coatings

As discussed in Comment No. 26-40, the Project would be required to comply with SCAQMD Rule 1113, which limits the VOC content in architectural coatings. Architectural coating emissions presented in the Draft EIR were calculated using CalEEMod 2020 default factors for the South Coast Air Basin, which assumed a VOC content of 100 grams per liter (g/L) for exterior coatings. VOC content of architectural coatings is based on the commercial availability of low-VOC products. This rule was most recently amended in 2015, limiting building envelope coatings to low-VOC content levels (50 g/L) beginning in 2019. Project construction and operational emissions inventories were updated with CalEEMod 2022.1 and a VOC content of 50 g/L for architectural coatings was used in this Confirmatory Analysis consistent with SCAQMD Rule 1113.

2.4.9.2 On-Site Equipment

The existing Project Site has limited landscaping areas and as a result limited use of landscape equipment. A list of existing on-site equipment (e.g., street sweeper, forklift, and aerial lift) and hours of usage, along with supporting documentation for the landscape equipment assumptions, is provided in Appendix A-7 of this Confirmatory Analysis. In response to Comment No. 26-E.1-39, the Project includes a PDF to require all-electric maintenance equipment including landscaping equipment and is presented in Section III, Revisions, Clarifications, and Corrections to the Draft EIR. The new PDFs would result in lower on-site operational emissions than presented in the Draft EIR.

3. Summary of Analyses

The following summary of air quality, GHG, and energy impacts accounts for regulatory changes and modeling software updates subsequent to the completion of the Draft EIR, public comments on the Draft EIR, and the introduction of additional PDFs and mitigation measures committed to in the Final EIR. The results of the analyses are provided for comparison to the results included in the Draft EIR to confirm that the Draft EIR adequately addressed potential air quality, GHG, and energy impacts. The analyses focus on mitigated impacts since they are used to determine significance. However, please note that the unmitigated analyses are also presented in Appendix A of this Confirmatory Analysis.

3.1 Air Quality

Section IV.A, Air Quality, of the Draft EIR evaluated the Project's potential impacts on air quality and relied on calculation worksheets, assumptions, and model outputs prepared by Eyestone Environmental, which were included in Appendix B, Air Quality and Greenhouse Gas Emissions, of the Draft EIR. This section estimates the air emissions generated by construction and operation of the Project based on regulatory changes and modeling software updates subsequent to the completion of the Draft EIR, public comments on the Draft EIR, and the introduction of additional PDFs and mitigation measures committed to in the Final EIR. The results of the analyses are provided for comparison to the results included in the Draft EIR for confirmation that the Draft EIR adequately addressed potential air quality impacts.

3.1.1 Regional Emissions

3.1.1.1 Construction

The emissions levels presented in Table IV.A-8 on page IV.A-67 of the Draft EIR provide the peak daily mitigated regional emissions by construction year. As shown in Table IV.A-8 of the Draft EIR, with the implementation of mitigation measures, peak daily regional NO_X emissions would be reduced but would still exceed the SCAQMD regional threshold of 100 pounds per day. The regional construction impact would primarily occur over a nine month duration beginning in the fourth quarter of 2023 during concurrent demolition and grading/excavation activities. As shown in Table 1 on page 10 of this Confirmatory Analysis, emissions for NOx, the pollutant that exceeds the SCAQMD regional threshold, would be reduced in comparison to the Draft EIR. This reduction is primarily the result of using CalEEMod 2022.1, as CalEEMod 2022.1 incorporates updated emission factors for off-road equipment and vehicles. Although maximum daily emissions for CO and PM_{10} increase in comparison to the emission levels presented in Table IV.A-8 of the Draft EIR, these emissions remain below SCAQMD regional thresholds. As such,

Table 1
Estimated Maximum Regional Project Daily Construction (Mitigated) Emissions (pounds per day)[a]

Construction Year	VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Regional Construction Emissions (Draft EIR CalEEMod 2020.4.0)[a]						
2023	8	205	193	1	44	15
2024	6	185	150	1	38	13
2025	69	18	136	<1	33	9
2026	64	10	72	<1	18	5
Maximum Mitigated Construction Emissions	69	205	193	1	44	15
SCAQMD Daily Significance Thresholds	**75**	**100**	**550**	**150**	**150**	**55**
Maximum Unmitigated Construction Emissions Exceed Threshold?	**No**	**Yes**	**No**	**No**	**No**	**No**
Regional Construction Emissions (Final EIR CalEEMod 2022.1)[b,c]						
2023	7	165	251	1	49	14
2024	7	139	185	1	39	12
2025	44	39	272	<1	45	11
2026	38	23	150	<1	26	6
Maximum Mitigated Construction Emissions	44	165	272	1	49	14
SCAQMD Daily Significance Thresholds	**75**	**100**	**550**	**150**	**150**	**55**
Maximum Unmitigated Construction Emissions Exceed Threshold?	**No**	**Yes**	**No**	**No**	**No**	**No**
Comparison of Draft EIR to Final EIR Maximum Regional Construction Emissions						
Draft EIR	69	205	193	1	44	15
Final EIR	44	165	272	1	49	14
Difference (Net) Emissions	**(25)**	**(40)**	**81**	**----**	**5**	**(1)**

Numbers may not add up exactly due to rounding.

[a] *Table IV.A-8 on page IV.A-67 of the Draft EIR.*

[b] *The CalEEMod model printout sheets and/or calculation worksheets are presented in Appendix A-3 (CalEEMod Output) and Appendix A-5 of this Confirmatory Analysis.*

[c] *Emissions represent maximum daily emissions of summer/winter for each pollutant.*

Source: Eyestone Environmental, 2023.

this Confirmatory Analysis confirms the Draft EIR's conclusion that Project construction would result in a significant Project-level impact related to regional NO_X emissions, even with the incorporation of feasible mitigation measures. However, the impact would be reduced in comparison to the emission levels presented in Table IV.A-8 on page IV.A-67 of the Draft EIR.

3.1.1.2 Operation

Table IV.A-7 on page IV.A-64 of the Draft EIR provides the Project's operational emissions with the incorporation of PDFs. As shown in Table IV.A-7 of the Draft EIR, regional emissions resulting from operation of the Project would not exceed SCAQMD's daily regional operational thresholds. As shown in Table 2 on page 12 of this Confirmatory Analysis, the Project's operational emissions would be reduced (with the exception of a small increase in VOC), which is primarily the result of using CalEEMod 2022.1 and compliance with the new all-electric ordinance (Ordinance No. 187714). **As such, this Confirmatory Analysis confirms the Draft EIR's conclusion that Project regional operational emissions would be less than significant.**

The proposed Specific Plan would provide development flexibility by allowing for exchanges between certain categories of permitted land uses and associated floor areas in order to respond to the future needs and demands of the entertainment industry. Table IV.A-7 on page IV.A-64 of the Draft EIR also provides the land use mix under the Land Use Exchange Program that would generate the highest potential regional operational emissions. As shown in Table IV.A-7 of the Draft EIR, regional emissions from this land use exchange would result in an increase in operational emissions but would not exceed SCAQMD's daily regional operational thresholds, and impacts would be less than significant. As shown in Table 3 on page 13 of this Confirmatory Analysis, the Project's operational emissions would be reduced, which is primarily the result of using CalEEMod 2022.1 and compliance with the new all-electric ordinance (Ordinance No. 187714). **As such, this Confirmatory Analysis confirms the Draft EIR's conclusion that Project regional operational emissions from the proposed Land Use Exchange Program would be less than significant. The impact would be reduced in comparison to the emission levels presented in Table IV.A-7 of the Draft EIR.**

Table 2
Estimated Maximum Regional Daily Operational Emissions at Project Buildout for the Proposed Development Program (2026)

Emission Source	Emissions (pounds per day)					
	VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Project (Draft EIR CalEEMod 2020.4.0)[a]						
Area	26	<1	<1	<1	<1	<1
Energy (Natural Gas)	<1	4	3	<1	<1	<1
Mobile	18	18	165	<1	40	11
Emergency Generators	<1	(<1)	(<1)	(<1)	(<1)	(<1)
Paint Spray Booths	<1	<1	<1	<1	<1	<1
Total Proposed Uses Emissions	45	20	168	<1	40	11
SCAQMD Significance Threshold	55	55	550	150	150	55
Over/(Under)	(10)	(35)	(382)	(149)	(110)	(44)
Exceed Threshold?	**No**	**No**	**No**	**No**	**No**	**No**
Project (Final EIR CalEEMod 2022.1)[b,c]						
Area	23	(<1)	(62)	(<1)	(<1)	(<1)
Energy (Natural Gas)	(<1)	(3)	(2)	(<1)	(<1)	(<1)
Mobile	23	17	176	<1	15	3
On-Site Equipment	(<1)	(<1)	(4)	(<1)	(<1)	(<1)
Emergency Generators	(<1)	(4)	(<1)	(<1)	(<1)	(<1)
Paint Spray Booths	<1	<1	<1	<1	<1	<1
On-Site Vehicles (Truck/Employee/Visitor Travel/Idle)	<1	2	5	<1	1	<1
On-Site Food Trucks (char broiler)	<1	0	0	0	<1	<1
Total Proposed Uses Emissions	46	11	113	<1	17	4
SCAQMD Significance Threshold	55	55	550	150	150	55
Over/(Under)	(9)	(44)	(437)	(149)	(133)	(51)
Exceed Threshold?	**No**	**No**	**No**	**No**	**No**	**No**
Comparison of Draft EIR to Final EIR Regional Operational Emissions						
Draft EIR	45	20	168	<1	40	11
Final EIR	46	11	113	<1	17	4
Difference (Net) Emissions	**1**	**(9)**	**(55)**	**---**	**(23)**	**(7)**

Numbers may not add up exactly due to rounding.

[a] *Table IV.A-7 on page IV.A-64 of the Draft EIR.*

[b] *The CalEEMod model printout sheets and/or calculation worksheets are presented in Appendix A-3 (CalEEMod Output) of this Confirmatory Analysis. The table reflects net emissions (i.e., Project emissions less existing emissions).*

[c] *Emissions represent maximum daily emissions of summer/winter for each pollutant.*

Source: Eyestone Environmental, 2023.

Table 3
Estimated Maximum Regional Daily Operational Emissions at Project Buildout (2026) for Maximum Land Use Exchange Scenario[a]

Emission Source	Emissions (pounds per day)					
	VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Project (Draft EIR CalEEMod 2020.4.0)[b]						
Area	26	<1	<1	<1	<1	<1
Energy (Natural Gas)	<1	4	3	<1	<1	<1
Mobile	21	21	200	<1	48	13
Emergency Generators	<1	(<1)	(<1)	(<1)	(<1)	(<1)
Paint Spray Booths	<1	<1	<1	<1	<1	<1
Total Proposed Uses Emissions	48	23	204	<1	48	13
SCAQMD Significance Threshold	55	55	550	150	150	55
Over/(Under)	(7)	(32)	(346)	(149)	(102)	(42)
Exceed Threshold?	**No**	**No**	**No**	**No**	**No**	**No**
Project (Final EIR CalEEMod 2022.1)[c,d]						
Area	23	(<1)	(62)	(<1)	(<1)	(<1)
Energy (Natural Gas)	(<1)	(3)	(2)	(<1)	(<1)	(<1)
Mobile	24	17	179	<1	15	3
On-Site Equipment	(<1)	(<1)	(4)	(<1)	(<1)	(<1)
Emergency Generators	(<1)	(4)	(<1)	(<1)	(<1)	(<1)
Paint Spray Booths	<1	<1	<1	<1	<1	<1
On-Site Vehicles (Truck/Employee/Visitor Travel/Idle)	<1	2	5	<1	1	<1
On-Site Food Trucks (char broiler)	<1	0	0	0	<1	<1
Total Proposed Uses Emissions	46	11	116	<1	17	4
SCAQMD Significance Threshold	55	55	550	150	150	55
Over/(Under)	(9)	(44)	(434)	(149)	(133)	(51)
Exceed Threshold?	**No**	**No**	**No**	**No**	**No**	**No**
Comparison of Draft EIR to Final EIR Regional Operational Emissions						
Draft EIR	48	23	204	<1	48	13
Final EIR	46	11	116	<1	17	4
Difference (Net) Emissions	**(2)**	**(12)**	**(88)**	**---**	**(31)**	**(9)**

Numbers may not add up exactly due to rounding.

[a] *As discussed in Section II, Project Description, of the Draft EIR, the Specific Plan would provide development flexibility by allowing for exchanges between certain categories of permitted land uses and associated floor areas in order to respond to the future needs and demands of the entertainment industry. Under the land use mix that generates maximum air emissions, the Project would exchange 100,000 square feet of production support for 100,000 square feet of sound stages. Under this development scenario, all impacts would remain less than significant.*

[b] *Table IV.A-7 on page IV.A-64 of the Draft EIR.*

[c] *The CalEEMod model printout sheets and/or calculation worksheets are presented in Appendix A-3 (CalEEMod Output) of this Confirmatory Analysis. The table reflects net emissions (i.e., Project emissions less existing emissions).*

[d] *Emissions represent maximum daily emissions of summer/winter for each pollutant.*

Source: Eyestone Environmental, 2023.

3.1.2 Localized Emissions

3.1.2.1 Construction

Table IV.A-10 on page IV.A-70 of the Draft EIR provides the Project's localized construction emissions. As shown therein, maximum construction emissions with incorporation of mitigation measures would not exceed the SCAQMD-recommended LSTs. As shown in Table 4 on page 15 of this Confirmatory Analysis, the Project's localized construction emissions would increase as a result of including on-site vehicular travel, (as discussed above, CalEEMod 2020.4.0 software did not have the ability to specifically calculate on-site vehicle travel emissions). However, localized impacts would remain less than significant with no additional mitigation measures. **As such, this Confirmatory Analysis confirms the Draft EIR's conclusion that Project localized impacts during construction would be less than significant.**

3.1.2.2 Operations

Table IV.A-10 on page IV.A-70 of the Draft EIR provides the Project's localized operational emissions with the incorporation of PDFs. As shown in Table IV.A-10 of the Draft EIR, localized emissions resulting from operation of the Project would not exceed SCAQMD's daily localized operational thresholds. As shown in Table 5 on page 16 of this Confirmatory Analysis, the Project's operational emissions would be reduced for CO and NO_X primarily from compliance with the new all-electric ordinance (Ordinance No. 187714) and implementation of a PDF to require all-electric maintenance equipment including landscaping equipment (included in Section III, Revisions, Clarifications, and Corrections to the Draft EIR, of this Final EIR). PM_{10} and $PM_{2.5}$ emissions would increase as a result of including on-site vehicular travel and food trucks (as discussed above, CalEEMod 2020.4.0 software did not have the ability to calculate on-site vehicle travel emissions). **This Confirmatory Analysis confirms the Draft EIR's conclusion that Project localized operational emissions would be less than significant.**

Table IV.A-10 on page IV.A-70 of the Draft EIR also provides the land use mix under the Land Use Exchange Program that would generate the highest potential localized operational emissions. As shown in Table IV.A-10 of the Draft EIR, localized emissions from this land use exchange would result in similar emissions as the Project and would not exceed SCAQMD's daily localized operational thresholds, and impacts would be less than significant. As shown in Table 6 on page 17 of this Confirmatory Analysis, the Project's operational emissions under the Land Use Exchange Program would be reduced for CO and NO_X primarily from compliance with the new all-electric ordinance (Ordinance No. 187714) and implementation of a PDF to require all-electric maintenance equipment including landscaping equipment (included in Section III, Revisions, Clarifications, and Corrections to the Draft EIR, of this Final EIR). PM_{10} and $PM_{2.5}$ emissions would increase as a result of including on-site vehicular travel and food trucks (as discussed above,

Table 4
Estimated Maximum Daily Localized Project Construction (Mitigated) Emissions
(pounds per day)

Construction Year	NO_X	CO	PM_{10}	$PM_{2.5}$
Localized Construction Emissions (Draft EIR CalEEMod 2020.4.0)[a]				
2023	15	132	11	5
2024	12	96	8	4
2025	6	52	<1	<1
2026	4	28	<1	<1
Maximum Unmitigated Daily Localized Emissions	15	132	11	5
SCAQMD Localized Significance Thresholds[b,c]	**119**	**1,861**	**16**	**8**
Over/(Under)	**(104)**	**(1,729)**	**(8)**	**(3)**
Exceed Threshold?	**No**	**No**	**No**	**No**
Localized Construction Emissions (Final EIR CalEEMod 2021.1)[d,e]				
2023	35	150	14	4
2024	30	112	9	3
2025	17	40	<1	<1
2026	13	24	<1	<1
Maximum Unmitigated Daily Localized Emissions	**35**	150	14	4
SCAQMD Localized Significance Thresholds[b,c]	**119**	**1,861**	**16**	**8**
Over/(Under)	**(84)**	**(1,711)**	**(2)**	**(4)**
Exceed Threshold?	**No**	**No**	**No**	**No**
Comparison of Draft EIR to Final EIR Localized Construction Emissions				
Draft EIR	**15**	**132**	**11**	**5**
Final EIR	**35**	**150**	**14**	**4**
Difference (Net) Emissions	**20**	**22**	**4**	**(1)**

Numbers may not add up exactly due to rounding.

[a] *Table IV.A-11 on page IV.A-74 of the Draft EIR.*

[b] *Potential localized construction impacts were evaluated using SCAQMD's LSTs for Source Receptor Area 1.*

[c] *The SCAQMD Daily Significance Thresholds are based on a 5-acre project site. The localized threshold is based on a 25-meter receptor distance, which is the closest receptor distance on the SCAQMD mass rate LST look-up table.*

[d] *The CalEEMod model printout sheets and/or calculation worksheets are presented in Appendix A-3 (CalEEMod Output) and Appendix A-5 of this Confirmatory Analysis.*

[e] *Emissions represent maximum daily emissions of summer/winter for each pollutant.*

Source: Eyestone Environmental, 2023.

Table 5
Estimated Maximum Localized Daily Operational Emissions at Project Buildout (2026) for the Proposed Development Program (pounds per day)

Emission Source	NO_X	CO	PM_{10}	$PM_{2.5}$
Project (Draft EIR CalEEMod 2020.4.0)[a]				
Area	<1	<1	<1	<1
Energy (Natural Gas)	2	3	<1	<1
Stationary (Emergency Generators)	<1	(<1)	(<1)	(<1)
On-Site Total	**1.9**	**3.0**	**0.2**	**0.2**
SCAQMD Significance Threshold[b,c]	**119**	**1,861**	**3**	**2**
Over/(Under)	**(117)**	**(1,858)**	**(3)**	**(2)**
Exceed Threshold?	**No**	**No**	**No**	**No**
Project (Final EIR CalEEMod 2022.1)[d,e]				
Area	(<1)	(62)	(<1)	(<1)
Energy (Natural Gas)	(3)	(2)	(<1)	(<1)
On-Site Equipment	(<1)	(4)	(<1)	(<1)
Stationary (Emergency Generators)	(4)	(<1)	(<1)	(<1)
On-Site Vehicles (Truck/Employee/Visitor Travel/Idle)	2	5	1	<1
On-Site Food Trucks (char broiler)	<1	0	<1	<1
On-Site Total	**(6.1)**	**(63.4)**	**2.5**	**1.6**
SCAQMD Significance Threshold[b,c]	**119**	**1,861**	**3**	**2**
Over/(Under)	**(125)**	**(1,924)**	**(0.5)**	**(0.4)**
Exceed Threshold?	**No**	**No**	**No**	**No**
Comparison of Draft EIR to Final EIR Regional Operational Emissions				
Draft EIR	1.9	3.0	0.2	0.2
Final EIR	(6.1)	(63.4)	2.5	1.6
Difference (Net) Emissions	**(8.0)**	**(60.4)**	**2.3**	**1.4**

Numbers may not add up exactly due to rounding.

[a] *Table IV.A-10 on page IV.A-70 of the Draft EIR.*

[b] *Potential localized construction impacts were evaluated using SCAQMD's LSTs for Source Receptor Area 1.*

[c] *The SCAQMD Daily Significance Thresholds are based on a 5-acre project site. The localized threshold is based on a 25-meter receptor distance, which is the closest receptor distance on the SCAQMD mass rate LST look-up table.*

[d] *The CalEEMod model printout sheets and/or calculation worksheets are presented in Appendix A-3 (CalEEMod Output) of this Confirmatory Analysis.*

[e] *Emissions represent maximum daily emissions of summer/winter for each pollutant.*

Source: Eyestone Environmental, 2023.

Table 6
Estimated Maximum Localized Daily Operational Emissions at Project Buildout (2026) for the Maximum Land Use Exchange Scenario (pounds per day)[a]

Emission Source	NO_X	CO	PM_{10}	$PM_{2.5}$
Project (Draft EIR CalEEMod 2020.4.0)[b]				
Area	<1	<1	<1	<1
Energy (Natural Gas)	2	3	<1	<1
Stationary (Emergency Generators)	<1	(<1)	(<1)	(<1)
On-Site Total	**2.2**	**3.2**	**0.2**	**0.2**
SCAQMD Significance Threshold[c,d]	**119**	**1,861**	**3**	**2**
Over/(Under)	**(117)**	**(1,858)**	**(3)**	**(2)**
Exceed Threshold?	**No**	**No**	**No**	**No**
Project (Final EIR CalEEMod 2022.1)[e,f]				
Area	(<1)	(62)	(<1)	(<1)
Energy (Natural Gas)	(3)	(2)	(<1)	(<1)
On-Site Equipment	(<1)	(4)	(<1)	(<1)
Stationary (Emergency Generators)	(4)	(<1)	(<1)	(<1)
On-Site Vehicles (Truck/Employee/Visitor Travel/Idle)	2	5	1	<1
On-Site Food Trucks (char broiler)	<1	0	<1	<1
On-Site Total	**(6.1)**	**(63.4)**	**2.5**	**1.6**
SCAQMD Significance Threshold[c,d]	**119**	**1,861**	**3**	**2**
Over/(Under)	**(125)**	**(1,924)**	**(0.5)**	**(0.4)**
Exceed Threshold?	**No**	**No**	**No**	**No**
Comparison of Draft EIR to Final EIR Regional Operational Emissions				
Draft EIR	2.2	3.2	0.2	0.2
Final EIR	(6.1)	(63.4)	2.5	1.6
Difference (Net) Emissions	**(8.3)**	**(60.2)**	**2.3**	**1.4**

Numbers may not add up exactly due to rounding.

[a] *As discussed in Section II, Project Description, of the Draft EIR, the Specific Plan would provide development flexibility by allowing for exchanges between certain categories of permitted land uses and associated floor areas in order to respond to the future needs and demands of the entertainment industry. Under the land use mix that generates maximum air emissions, the Project would exchange 100,000 square feet of production support for 100,000 square feet of sound stages. Under this development scenario, all impacts would remain less than significant.*

[b] *Table IV.A-10 on page IV.A-70 of the Draft EIR.*

[c] *Potential localized construction impacts were evaluated using SCAQMD's LSTs for Source Receptor Area 1.*

[d] *The SCAQMD Daily Significance Thresholds are based on a 5-acre project site. The localized threshold is based on a 25-meter receptor distance, which is the closest receptor distance on the SCAQMD mass rate LST look-up table.*

[e] *The CalEEMod model printout sheets and/or calculation worksheets are presented in Appendix A-3 (CalEEMod Output) of this Confirmatory Analysis.*

[f] *Emissions represent maximum daily emissions of summer/winter for each pollutant.*

Source: Eyestone Environmental, 2023.

CalEEMod 2020.4.0 software did not have the ability to calculate on-site vehicle travel emissions). **This Confirmatory Analysis confirms the Draft EIR's conclusion that Project localized operational emissions would be less than significant.**

3.1.3 Long-Term Buildout Emissions

As discussed on page IV.A-74 of the Draft EIR, the Project buildout is anticipated in 2026. However, the Applicant is seeking a Development Agreement with a term of 20 years, which could extend the full buildout year to approximately 2043. Extending the full buildout year to approximately 2043 also has the potential to result in concurrent construction and operational activities. Analysis of these concurrent activities were considered in five-year increments, and construction activities were conservatively assumed to occur at approximately 50 percent of the maximum daily intensity as would occur during the 32-month buildout scenario.[3]

3.1.3.1 Regional Emissions

As shown in Table IV.A-12 on page IV.A-76 of the Draft EIR and summarized in Table 7 on page 19 of this Confirmatory Analysis, regional NO_X and VOC emissions would exceed the SCAQMD regional operational significance threshold (55 pounds per day) and result in a significant and unavoidable air quality impact. As shown in Table 7 of this Confirmatory Analysis, the Project's concurrent construction and operational emissions would be reduced (with the exception of CO) in comparison the Draft EIR, which is primarily the result of using CalEEMod 2022.1 and compliance with the new all-electric ordinance (Ordinance No. 187714). **As such, this Confirmatory Analysis confirms the Draft EIR's conclusion that Project concurrent construction and operational emissions would be significant and unavoidable. However, the impact would be reduced in comparison to the emission levels presented in Table IV.A-12 of the Draft EIR.**

3.1.3.2 Localized Emissions

As shown in Table IV.A-13 on page IV.A-78 of the Draft EIR and summarized below in Table 8 on page 20 of this Confirmatory Analysis, concurrent construction (mitigated) and operational localized emissions would not exceed SCAQMD LSTs. As shown in Table 8 of this Confirmatory Analysis, the Project's concurrent construction and operational

[3] *Please refer to Appendix FEIR-8 of the Final EIR. For example, Project buildout by 2026 would require two separate excavation operations. With a long-term buildout and operation of some facilities on-site while construction is occurring, only a single excavation operation could be accommodated on-site, thus reducing the excavation activities and associated haul truck trips by half. Other construction activities such as building construction and finishing would likely occur at a further reduced level.*

Table 7
Estimated Maximum Daily Regional Emissions from Project Concurrent Construction (Mitigated) and Operations[a]

Analysis Year	Emissions (pounds per day)					
	VOC	**NO_X**	**CO**	**SO_X**	**PM_{10}**	**$PM_{2.5}$**
Year 2026 (20% Buildout of Proposed Development Program) (Final EIR CalEEMod 2022.1)						
Construction (2026–2029 Max Daily)	21	69	108	<1	25	7
Operation	9	2	20	<1	3	1
Total	**30**	**71**	**129**	**1**	**28**	**9**
Year 2030 (40% Buildout of Proposed Development Program) (Final EIR CalEEMod 2022.1)						
Construction (2030–2033 Max Daily)	20	67	103	<1	25	8
Operation	17	3	30	<1	7	1
Total	**37**	**70**	**133**	**1**	**32**	**9**
Year 2035 (60% Buildout of Proposed Development Program) (Final EIR CalEEMod 2022.1)						
Construction (2035–2038 Max Daily)	19	59	97	<1	25	8
Operation	24	3	34	<1	10	2
Total	**43**	**62**	**131**	**1**	**35**	**10**
Year 2040 (80% Buildout of Proposed Development Program) (Final EIR CalEEMod 2022.1)						
Construction (2040–2043 Max Daily)	**18**	55	94	<1	25	7
Operation	30	2	38	<1	14	3
Total	**48**	**57**	**132**	**1**	**39**	**11**
Year 2043 (100% Buildout of Proposed Development Program) (Final EIR CalEEMod 2022.1)						
Construction	0	0	0	0	0	0
Operation	38	2	52	<1	17	3
Total	**38**	**2**	**52**	**<1**	**17**	**3**
Max Daily Concurrent Emissions[a,b]	**48**	**71**	**133**	**1**	**39**	**11**
SCAQMD Significance Threshold	55	55	550	150	150	55
Over/(Under)	**(7)**	**16**	(417)	(149)	(111)	(44)
Exceed Threshold?	**No**	**Yes**	**No**	**No**	**No**	**No**
Comparison of Draft EIR to Final EIR Regional Operational Emissions						
Draft EIR[c]	71	120	224	1	59	17
Final EIR	48	71	133	1	39	11
Difference (Net) Emissions	**(23)**	**(49)**	**(91)**	**—**	**(20)**	**(6)**

Numbers may not add up exactly due to rounding.

[a] *The CalEEMod model printout sheets and/or calculation worksheets are presented in Appendix A-3 (CalEEMod Output) of this Confirmatory Analysis.*

[b] *Emissions represent maximum daily emissions of summer/winter for each pollutant.*

[c] *Table IV.A-12 on page IV.A-76 of the Draft EIR.*

Source: Eyestone Environmental, 2023.

Table 8
Estimated Maximum Daily Localized Emissions from Project Concurrent Construction (Mitigated) and Operations[a]

Analysis Year	Emissions (pounds per day)			
	NO_X	CO	PM_{10}	$PM_{2.5}$
Year 2026 (20% Buildout of Proposed Development Program) (Final EIR CalEEMod 2022.1)				
Construction (2026–2029 Max Daily)	17	75	7	2
Operation	9	47	3	2
Total	**27**	**122**	**10**	**4**
Year 2030 (40% Buildout of Proposed Development Program) (Final EIR CalEEMod 2022.1)				
Construction (2030–2033 Max Daily)	17	75	7	2
Operation	5	19	3	2
Total	**23**	**94**	**10**	**4**
Year 2035 (60% Buildout of Proposed Development Program) (Final EIR CalEEMod 2022.1)				
Construction (2035–2038 Max Daily)	17	75	7	2
Operation	1	(8)	3	1
Total	**19**	**67**	**10**	**3**
Year 2040 (80% Buildout of Proposed Development Program) (Final EIR CalEEMod 2022.1)				
Construction (2040–2043 Max Daily)	17	75	7	2
Operation	(3)	(36)	3	1
Total	**15**	**39**	**10**	**3**
Year 2043 (100% Buildout of Proposed Development Program) (Final EIR CalEEMod 2022.1)				
Construction	0	0	0	0
Operation	**(6)**	(64)	2.5	0.9
Total	(6)	**(64)**	**2.5**	**0.9**
Max Daily Concurrent Emissions[a,b]	**27**	**122**	**10**	**4**
SCAQMD Significance Threshold[c,d]	119	1,861	16	8
Over/(Under)	(92)	(1,790)	(6)	(3)
Exceed Threshold?	**No**	**No**	**No**	**No**
Comparison of Draft EIR to Final EIR Regional Operational Emissions				
Draft EIR[e]	15	71	6	3
Final EIR[a]	27	122	10	4
Difference (Net) Emissions	**12**	**51**	**4**	**1**

Numbers may not add up exactly due to rounding.

[a] *The CalEEMod model printout sheets and/or calculation worksheets are presented in Appendix A-3 (CalEEMod Output) of this Confirmatory Analysis.*

[b] *Emissions represent maximum daily emissions of summer/winter for each pollutant.*

[c] *Potential localized construction impacts were evaluated using SCAQMD's LSTs for Source Receptor Area 1.*

[d] *The SCAQMD Daily Significance Thresholds are based on a 5-acre project site. The localized threshold is based on a 25-meter receptor distance, which is the closest receptor distance on the SCAQMD mass rate LST look-up table.*

[e] *Table IV.A-13 on page IV.A-78 of the Draft EIR.*

Source: Eyestone Environmental, 2023.

emissions would increase as a result of including on-site vehicular travel and food trucks (as discussed above, CalEEMod 2020.4.0 software did not have the ability to calculate on-site vehicle travel emissions). However, localized impacts would remain less than significant with no additional mitigation measures. **As such, this Confirmatory Analysis confirms the Draft EIR's conclusion that concurrent construction and operations would result in less-than-significant Project-level localized impacts.**

3.2 Greenhouse Gas Emissions

Section IV.E, Greenhouse Gas Emissions, of the Draft EIR compared the Project's characteristics with applicable regulations, plans, and policies set forth by the State of California, the Southern California Association of Governments (SCAG), and the City of Los Angeles (City) to reduce GHG emissions to determine whether the Project is consistent with the applicable plans and policies. To assist in analyzing the Project's potential to conflict with applicable regulations, plans, and policies, the Draft EIR estimated the GHG emissions generated by Project construction and operations, taking into account mandatory and voluntary energy and resource conservation measures that have been incorporated into the Project to reduce GHG emissions. Details of the GHG analysis were provided in Appendix B, Air Quality and Greenhouse Gas Emissions, of the Draft EIR.[4]

This Confirmatory Analysis estimates the GHG emissions generated by construction and operation of the Project based on regulatory changes and modeling software updates subsequent to the completion of the Draft EIR, public comments on the Draft EIR, and the introduction of additional PDFs and mitigation measures committed to in the Final EIR. The results of the analyses are provided for comparison to the results included in the Draft EIR for informational purposes, as the City has not adopted a numeric threshold for the analysis of GHG impacts. CEQA Guidelines Section 15064.4(b)(2) allows the City to determine a threshold of significance that applies to the Project, and, accordingly, the threshold of significance applied in the Draft EIR is whether the Project complies with applicable plans, policies, regulations and requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions.

3.2.1 CARB's 2022 Scoping Plan Update

CARB's 2022 Scoping Plan Update was published in draft form on May 10, 2022 and was not finalized until November 16, 2022. The Draft EIR was published on July 14, 2022 before the finalization of the 2022 Scoping Plan Update. The Draft EIR analyzed the Project's consistency with key aspects of CARB's Climate Change Scoping Plan and cumulative updates, as analyzed in Tables IV.E-6 and IV.E-7 of the Draft EIR. The

[4] *Eyestone Environmental, Air Quality and Greenhouse Gas Technical Appendix, February 2022.*

analysis was properly based on the 2008 Scoping Plan and subsequent updates (through 2017) that had been adopted at the time the Draft EIR was prepared, consistent with CEQA.

The 2022 Scoping Plan Update includes Appendix D, which is focused on actionable strategies for local governments to contribute to achieving State climate goals. The strategies in Appendix D reflect CARB's recommendations and are not binding on local lead agencies. Further, the project-level strategies in Appendix D only apply to residential and mixed-use projects, which the Project is not. Many of the reduction strategies listed in Appendix D are already in place at the City level, and few are directly applicable to the Project (although many of the project-level project attributes listed on pages 22-23 of Appendix D are incorporated in the Project). For example, the priority strategies listed in Table 1 of Appendix D of the 2022 Scoping Plan Update include electrification of local government fleets, jurisdiction-wide ZEV ecosystem planning, reduction or limitation of parking standards, increasing development density near transit, increasing public mobility options, implementing TDM strategies, modifying zoning to enhanced mixed-use and walkable development, preventing the development of "greenfield" land, adopting all-electric construction codes, adopting electrification retrofit programs, incentivizing appliance replacements in existing buildings, facilitating renewable energy deployment on private uses, and deploying renewable energy on public uses. Most of these strategies are applicable at a city level, and the City has already made, and continues to make, substantial progress in implementing the strategies. Of these strategies, only the improved public mobility options, TDM, all-electric new construction, and renewable energy deployment are potentially applicable at a project level, and each of these strategies are already included in the currently proposed Project through the implementation of Project Design Feature TR-PDF-2 (mobility and TDM), Project Design Feature GHG-PDF-2 (renewables), and additional PDFs presented in Section III, Revisions, Clarifications, and Corrections to the Draft EIR, of this Final EIR. Those measures require the use of all electric off-road operational equipment, provision of electrical tie-ins at basecamps, and compliance with the new all-electric ordinance (Ordinance No. 187714), which was adopted after the publication of the Draft EIR and requires all newly constructed buildings to be all-electric, with certain exceptions. Additionally, as stated on page IV.E-51 of the Draft EIR, the Project would comply with the City's Green Building Ordinance EV charging requirements.

Refer to Appendix B-3 of this Confirmatory Analysis for a detailed discussion of the Project's consistency with the 2022 Scoping Plan Update. As concluded therein, the Project would be consistent with the applicable policies in the 2022 Scoping Plan Update.

3.2.2 GHG Emissions

As shown in Table IV.E-11 on page IV.E-78 of the Draft EIR and summarized below in Table 9 on page 24 of this Confirmatory Analysis, the Project as analyzed in the Draft EIR would result in approximately 9,733 $MTCO_2e$ per year. As discussed above, this Confirmatory Analysis accounts for regulatory changes and modeling software updates subsequent to the completion of the Draft EIR, public comments on the Draft EIR, and the introduction of additional PDFs and mitigation measures committed to in the Final EIR. The results are provided in Table 9 of this Confirmatory Analysis. As shown therein, the Project's emissions are generally similar or decrease for most sources in comparison to the Draft EIR. This Confirmatory Analysis specifically includes off-road equipment and miscellaneous electricity usage across the Project Site in response to comments on the Draft EIR, and also includes refrigeration which is now evaluated in CalEEMod 2022.1. In addition, operational GHG emissions with increased electrification of the Project as a result of the new all-electric ordinance would increase in comparison to what was reported in Table IV.E-11 of the Draft EIR. As discussed above, some natural gas categories within the CAPCOA GHG Handbook (e.g., refrigeration) are already included as electric within CalEEMod. Thus, the conversion between natural gas to electricity for these categories within the CAPCOA GHG Handbook overstates the total electricity usage. The calculations are provided in Appendix C-3 of this Confirmatory Analysis

Furthermore, electricity generation only takes into account carbon intensity at buildout year and does not take into account decreasing carbon intensity in subsequent years required by SB 100, which accelerated the State's Renewable Portfolio Standard (RPS) target dates. It should be recognized that the RPS would require utilities to supply 100 percent renewable energy by 2045. Thus, overall Project-related GHG emissions would similarly decrease as increased renewable energy is available. Without increased electrification of the Project, GHG emissions from natural gas use would not be reduced in future years. As discussed in Section IV.E, Greenhouse Gas Emissions, of the Draft EIR, the Project would continue to support GHG reduction measures detailed in the Southern California Association of Government's 2020–2045 Regional Transportation Plan/ Sustainable Communities Strategies, LA's Green New Deal and Senate Bill 375. Therefore, increased electrification of the Project would not have a significant impact with respect to GHG emissions. As such, increased electrification of the Project would be supportive of CARB's 2022 Scoping Plan and not create any new significant impacts related to GHG emissions nor result in a substantial increase in a previously identified significant impact in the Draft EIR. **As such, this Confirmatory Analysis confirms the Draft EIR's conclusion that the Project would result in less-than-significant Project-level GHG impacts.**

Table 9
Annual Project (Proposed Development Program) GHG Emissions Summary (2026 Buildout Year) ($MTCO_2e$)[a]

Scope	Project without Project Design Features	Project with Project Design Features	Reduction from Project Design Features
Draft EIR (CalEEMod 2020.4.0)			
Area[a]	<1	<1	0
Energy[b]	5,160	4,509	(651)
EV Chargers[c]	(968)	(968)	0
Solar[d]	431	(102)	(533)
Mobile[e]	9,183	4,795	(4,388)
Stationary[f]	4	4	0
Solid Waste[g]	133	133	0
Water/Wastewater[h]	889	889	0
Construction[i]	477	477	0
Total Emissions[m]	**15,308**	**9,736**	**(5,572)**
Final EIR (CalEEMod 2022.1)[n]			
Area[a]	<1	(3)	(3)
Energy[b]	9,219	9,219	0
EV Chargers[c]	(968)	(968)	0
Solar[d]	431	(102)	(533)
Mobile[e]	9,778	5,136	(4,642)
Stationary[f]	4	4	0
Solid Waste[g]	85	85	0
Water/Wastewater[h]	537	537	0
Refrigeration[j]	13	13	0
Off-Road Equipment[k]	0	(12)	(12)
Miscellaneous Electrical[l]	685	685	0
Construction[i]	587	587	0
Total Emissions	19,685	14,496	(5,189)

Numbers may not add up exactly due to rounding.

[a] *Area source emissions are from landscape equipment. The Final EIR accounts for a PDF requiring use of electric landscape equipment.*

[b] *Energy source emissions account for electricity and natural gas usage. The Final EIR accounts for compliance with the new all-electric ordinance (City Ordinance No. 187714). Emissions from electricity generation conservatively only take into account carbon intensity at buildout year and do not take into account decreasing carbon intensity in subsequent years required by SB 100 (RPS). However, it is recognized that the RPS would require utilities to supply 100-percent renewable energy by 2045.*

[c] *Emissions were calculated consistent with the City requirements which specify 10 percent of new parking spaces must include EV charging equipment.*

[d] *Project Design Feature GHG-PDF-2 requires the generation of a minimum of 2,000,000 kilowatt-hours per year by photovoltaic panels on the Project Site.*

Table 9 (Continued)
Annual Project (Proposed Development Program) GHG Emissions Summary (2026 Buildout Year)
($MTCO_2e$)

Scope	Project without Project Design Features	Project with Project Design Features	Reduction from Project Design Features
[e] *Mobile source emissions conservatively do not account for reductions from increasing fuel economy standards for future years. The Final EIR accounts for CalEEMod updated mobile emissions factors.*			
[f] *Stationary source emissions are from on-site emergency generators.*			
[g] *Solid waste emissions are calculated based on CalEEMod default solid waste generation rates.*			
[h] *Water/wastewater emissions are calculated based on CalEEMod default water consumption rates.*			
[i] *Construction emissions reflect total emissions amortized over 30 years.*			
[j] *Refrigeration emissions reflect hydrofluorocarbons released from refrigerants used in air conditioners. This source of emissions is included in CalEEMod 2022.1 and accounted for in this Confirmatory Analysis.*			
[k] *Operational off-road equipment (e.g., sweeper) is accounted for in this Confirmatory Analysis. The Final EIR also accounts for a PDF requiring use of electric equipment.*			
[l] *Miscellaneous electrical includes basecamp operations (lighting, ventilation, additional electrical hookups), Mobility Hub (lighting, ventilation, and four new EV chargers), signage, circulation areas (lighting), and methane ventilation for sound stage slab foundations).*			
[m] *Table IV.E-11 on page IV.A-78 of the Draft EIR.*			
[n] *The CalEEMod model printout sheets and/or calculation worksheets are presented in Appendix A-3 (CalEEMod Output) and GHG Emission Summary is presented in Appendix B-1 of this Confirmatory Analysis.*			
Source: Eyestone Environmental, 2023.			

As shown in Table IV.E-12 on page IV.E-84 of the Draft EIR and summarized below in Table 10 on page 26 of this Confirmatory Analysis, the land use mix under the Land Use Exchange Program that would generate the most GHG emissions as analyzed in the Draft EIR would result in approximately 10,672 $MTCO_2e$ per year. As discussed above, this Confirmatory Analysis accounts for regulatory changes and modeling software updates subsequent to the completion of the Draft EIR, public comments on the Draft EIR, and the introduction of additional PDFs and mitigation measures committed to in the Final EIR. The results are similar to the proposed development program in which the Project's emissions are generally similar or decrease for most sources in comparison to the Draft EIR. However, operational GHG emissions with increased electrification of the Project would increase in comparison to what was reported in Table IV.E-12 of the Draft EIR as a result of use of the conservative CAPCOA GHG methodology used to account for compliance with the City's new all-electric ordinance.

Table 10
Annual Project (Maximum Land Use Exchange Scenario) GHG Emissions Summary (2026 Buildout Year)[m] ($MTCO_2e$)

Scope	Project without Project Design Features	Project with Project Design Features	Reduction from Project Design Features
Draft EIR (CalEEMod 2020.4.0)[o]			
Area[a]	<1	<1	0
Energy[b]	5,160	4,551	(609)
EV Chargers[c]	(968)	(968)	0
Solar[d]	431	(102)	(533)
Mobile[e]	6,363	5,691	(672)
Stationary[f]	4	4	0
Solid Waste[g]	132	132	0
Water/Wastewater[h]	889	889	0
Construction[i]	477	477	0
Total Emissions	**12,489**	**10,675**	**(1,814)**
Final EIR (CalEEMod 2022.1)[n]			
Area[a]	(<1)	(3)	(3)
Energy[b]	9,307	9,307	0
EV Chargers[c]	(968)	(968)	0
Solar[d]	431	(102)	(533)
Mobile[e]	6,846	5,214	(1,632)
Stationary[f]	4	4	0
Solid Waste[g]	87	87	0
Water/Wastewater[h]	518	518	0
Refrigeration[j]	13	13	0
Off-Road Equipment[k]	0	(12)	(12)
Miscellaneous Electrical[l]	747	747	0
Construction[i]	587	587	0
Total Emissions	**217,571**	**15,392**	**(2,180)**

Numbers may not add up exactly due to rounding.

[a] *Area source emissions are from landscape equipment. The Final EIR accounts for a PDF requiring use of electric landscape equipment.*

[b] *Energy source emissions account for electricity and natural gas usage. The Final EIR accounts for compliance with the new all-electric ordinance (City Ordinance No. 187714). Emissions from electricity generation only take into account carbon intensity at buildout year and do not take into account decreasing carbon intensity in subsequent years required by SB 100 (RPS). However, it is recognized that the RPS would require utilities to supply 100-percent renewable energy by 2045.*

[c] *Emissions were calculated consistent with the City requirements which specify 10 percent of new parking spaces must include EV charging equipment.*

[d] *Project Design Feature GHG-PDF-2 requires the generation of a minimum of 2,000,000 kilowatt-hours per year by photovoltaic panels on the Project Site.*

Table 10 (Continued)
Annual Project (Maximum Land Use Exchange Scenario) GHG Emissions Summary (2026 Buildout Year)[m] ($MTCO_2e$)

Scope	Project without Project Design Features	Project with Project Design Features	Reduction from Project Design Features
[e] *Mobile source emissions conservatively do not account for reductions from increasing fuel economy standards for future years. The Final EIR accounts for CalEEMod updated mobile emissions factors.*			
[f] *Stationary source emissions are from on-site emergency generators.*			
[g] *Solid waste emissions are calculated based on CalEEMod default solid waste generation rates.*			
[h] *Water/wastewater emissions are calculated based on CalEEMod default water consumption rates.*			
[i] *Construction emissions reflect total emissions amortized over 30 years.*			
[j] *Refrigeration emissions reflect hydrofluorocarbons released from refrigerants used in air conditioners. This source of emissions is included in CalEEMod 2022.1 and accounted for in this Confirmatory Analysis.*			
[k] *Operational off-road equipment (e.g., sweeper) is accounted for in this Confirmatory Analysis. The Final EIR also accounts for a PDF requiring use of electric equipment.*			
[l] *Miscellaneous electrical includes basecamp operations (lighting, ventilation, additional electrical hookups), Mobility Hub (lighting, ventilation, and four new EV chargers), signage, circulation areas (lighting), and methane ventilation for sound stage slab foundations).*			
[m] *As discussed in Section II, Project Description, of the Draft EIR, the Specific Plan would provide development flexibility by allowing for exchanges between certain categories of permitted land uses and associated floor areas in order to respond to the future needs and demands of the entertainment industry. Under the land use mix that generates maximum air emissions, the Project would exchange 100,000 square feet of production support for 100,000 square feet of sound stages. Under this development scenario, all impacts would remain less than significant.*			
[n] *The CalEEMod model printout sheets and/or calculation worksheets are presented in Appendix A-3 (CalEEMod Output) and GHG Emission Summary is presented in Appendix B-3 of this Confirmatory Analysis.*			
[o] *Table IV.E-12 on page IV.E-84 of the Draft EIR.*			
Source: Eyestone Environmental, 2023.			

3.3 Energy

Section IV.C, Energy, of the Draft EIR analyzed impacts on energy resources due to construction and operation of the Project. Section 15126.2 (b) of the CEQA Guidelines states that a project's energy use shall be analyzed to determine the potential energy impacts of proposed projects, with particular emphasis on avoiding or reducing inefficient, wasteful, and unnecessary consumption of energy, as well as being compliant with building codes and renewable energy features. The Draft EIR included relevant information and analyses that address the energy implications of the Project, focusing on the following three energy resources: electricity, natural gas, and transportation-related energy

(petroleum-based fuels). Detailed energy calculations were included in Appendix D of the Draft EIR.[5]

3.3.1 Construction

During Project construction, energy would be consumed in the form of electricity associated with the conveyance of water used for dust control and, on a limited basis, powering lights, electric equipment, or other construction activities necessitating electrical power. Electricity from these construction activities would be limited in comparison to the existing operational electricity usage at the Project Site given that construction activities would be intermittent and temporary. Project construction would also consume energy in the form of petroleum-based fuels associated with the use of off-road construction vehicles and equipment on the Project Site, construction worker travel to and from the Project Site, and delivery and haul truck trips (e.g., hauling demolition materials and excavated soils to off-site reuse and disposal facilities). As shown in Table IV.C-1 on page IV.C-24 of the Draft EIR and included in Table 11 on page 29 of this Confirmatory Analysis, a total of approximately 244,196 kWh of electricity, approximately 432,628 gallons of gasoline, and approximately 997,686 gallons of diesel were estimated to be consumed during Project construction.

As discussed above, this Confirmatory Analysis accounts for regulatory changes and modeling software updates subsequent to the completion of the Draft EIR, public comments on the Draft EIR, and the introduction of additional PDFs and mitigation measures committed to in the Final EIR. The results are provided in Table 11 of this Confirmatory Analysis. As shown therein, the Project's construction energy usage is generally higher in comparison to the energy consumption rates based on CalEEMod 2020. This is due to updates within CalEEMod 2022.1 to include the use of electrical construction equipment, increased horsepower rating for off-road equipment and increased default trip distances for construction vehicles including heavy duty trucks, delivery trucks and worker vehicles. In addition, CalEEMod 2020.4.0 was not able to account for electricity calculations for construction equipment which is now included in CalEEMod 2022.1. Default trip lengths for construction vehicles also increased in CalEEMod 2022.1 in comparison to CalEEMod 2020.4.0. Default worker trip lengths increased from 14.7 miles to 18.5 miles and delivery default trip lengths increased from 6.9 miles to 10.2 miles. Although the number of construction trips remains similar to those analyzed using CalEEMod 2020.4.0, the overall VMT and associated fuel consumption increased when using CalEEMod 2022.1 primarily as a result of the change in default trip lengths.

[5] *Eyestone Environmental, Energy Calculations for the Television City Project, February 2022.*

Table 11
Summary of Energy Use During Project Construction

Fuel Type	Energy Use (Draft EIR CalEEMod 2020.4.0)[a]	Energy Use (Final EIR CalEEMod 2022.1)[b]
Electricity		
Water Consumption	52,024 kWh	53,610 kWh
Lighting, Electric Equipment, and Other Construction Activities Necessitating Electrical Power[c]	61,236 kWh	190,586 kWh
Total Electricity	**113,260 kWh**	**244,196 kWh**
Gasoline		
On-Road Construction Equipment	274,297 gal	432,628 gal
Off-Road Construction Equipment	0 gal	0 gal
Total Gasoline	**274,297 gal**	**432,628 gal**
Diesel		
On-Road Construction Equipment	636,191 gal	864,685 gal
Off-Road Construction Equipment	144,126 gal	133,001 gal
Total Diesel	**780,317 gal**	**997,686 gal**

gal = gallons

kWh = kilowatt hours

[a] *Table IV.C-1 on page IV.C-24 of the Draft EIR.*

[b] *The CalEEMod model printout sheets and/or calculation worksheets are presented in Appendix A-3 (CalEEMod Output) and Construction Energy Summary is presented in Appendix C-2 of this Confirmatory Analysis.*

Source: Eyestone Environmental, 2023.

Consistent with the conclusion in the Draft EIR (see page IV.C-24 of Section IV.C, Energy, of the Draft EIR), updating the modeling to CalEEMod 2022.1 in this Confirmatory Analysis would not increase the demand for energy during construction that would cause the wasteful, inefficient, and unnecessary use of energy, and impacts would be less than significant.

3.3.2 Operation

During operation of the Project, energy would be consumed for multiple purposes, including, but not limited to, the following: HVAC; refrigeration; lighting; and the use of electronics, equipment, and machinery. Energy would also be consumed during Project operations in conjunction with water usage, solid waste disposal, and vehicle trips. As shown in Table IV.C-2 on page IV.C-27 of the Draft EIR, the Project's net energy demand would be approximately 18,445,439 kWh of electricity per year and approximately 13,654,855 cubic feet (cf) of natural gas per year. The Project would also result in the

annual consumption of an estimated 545,262 gallons of gasoline and approximately 95,071 gallons of diesel fuel.

As discussed above, this Confirmatory Analysis accounts for regulatory changes and modeling software updates subsequent to the completion of the Draft EIR, public comments on the Draft EIR, and the introduction of additional PDFs and mitigation measures committed to in the Final EIR. The results are provided in Table 12 on page 31 of this Confirmatory Analysis. The results of the maximum land use exchange scenario are provided in Table 13 on page 32 of this Confirmatory Analysis. As shown in Table 12 and Table 13, the Project's operational transportation energy usage remains similar for fuel sources in comparison to the Draft EIR. However, the Project's electricity usage for buildings increased in comparison to the electricity usage calculated using CalEEMod 2020.4.0 in the Draft EIR. This is due to the updated default electricity usage factors included within CalEEMod 2022.1. In addition, the conservative CAPCOA GHG methodology used to account for compliance with the City's new all-electric ordinance overstates the total electricity as some natural gas categories within the CAPCOA GHG Handbook (e.g., refrigeration) are already included as electric within CalEEMod. The calculations are provided in Appendix C-3 of this Confirmatory Analysis.

As discussed above, energy usage for the Project was calculated using natural gas consumption and electricity demand rates based on CalEEMod default rates and the CAPCOA GHG Handbook.[6] As shown in Table 12, increased electrification of the Project due to compliance with the new all-electric ordinance would result in a reduction of natural gas usage and an increase in electricity usage in comparison to the usage rates in Table IV.C-2 (Summary of Annual Energy Use During Project Operation) of the Draft EIR. The Project would comply with applicable regulatory requirements set forth in California Building Energy Efficiency Standards (California Code of Regulations Title 24, Part 6) as well as the California Green Building Standards Code (Title 24, Part 11), commonly referred to as the CALGreen Code. Compliance with these regulations would ensure electricity and natural gas usage would not occur in a manner that is wasteful, inefficient, or unnecessary. Moreover, the Project's annual electricity and natural gas consumption is a small fraction of future demand within the Los Angeles Department of Water and Power (LADWP) and Southern California Gas Company (SoCalGas) service areas. LADWP and SoCalGas have confirmed that the Project's electricity and natural gas demand can be served by the facilities in the Project area.

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[6] *California Air Pollution Control Officers Association, Handbook for Analyzing Greenhouse Gas Emissions Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity, December 2021, Appendix C, Table E-15.*

Table 12
Summary of Net Annual Energy Use During Project Operation (Proposed Development Program)

Source	Estimated Energy Demand	
	Project as Analyzed in the Draft EIR[a]	**Project with Compliance with All-Electric Ordinance[b]**
Electricity		
Building	14,183,261 kWh	24,597,221 kWh
Water	3,390,577 kWh	1,617,892 kWh
EV Chargers	1,254,601 kWh	1,253,058 kWh
Solar	(383,000) kWh	(383,000) kWh
Miscellaneous[c]	0 kWh	2,532,442 kWh
Conversion of Natural Gas Usage to Electricity		11,606,918 kWh
Total Electricity	**13,654,855 kWh**	**41,224,531 kWh**
Natural Gas		
Building	13,654,855 cf	0 cf
Total Natural Gas	**13,654,855 cf**	**0 cf**
Emergency Generators	**4,594 gal**	**(87) gal**
Transportation (On-Road Vehicles)		
Gasoline	**545,262 gal**	**546,470 gal**
Diesel	**90,476 gal**	**90,677 gal**
Total Transportation Fuel (Including Emergency Generators)	**640,333 gal**	**637,147 gal**

cf = cubic feet

gal = gallons

kWh = thousand kilowatt hours

[a] *Table IV.C-2 on page IV.C-27 of the Draft EIR.*

[b] *The CalEEMod model printout sheets and/or calculation worksheets are presented in Appendix A-3 (CalEEMod Output) and Operational Energy Summary is presented in Appendix C-3 of this Confirmatory Analysis.*

[c] *Miscellaneous sources include basecamp and Mobility Hub lighting and ventilation, Mobility Hub EV chargers, signage, and a methane gas extraction ventilation system.*

Source: Eyestone Environmental, 2023.

Table 13
Summary of Net Annual Energy Use During Project Operation (Maximum Land Use Exchange Scenario)

Source	Estimated Energy Demand	
	Project as Analyzed in the Draft EIR[a]	**Project with Compliance with All-Electric Ordinance[b]**
Electricity		
Building	14,183,261 kWh	24,735,568 kWh
Water	3,390,577 kWh	1,725,397 kWh
EV Chargers	1,254,601 kWh	1,253,058 kWh
Solar	(383,000) kWh	(383,000) kWh
Miscellaneous[c]	0 kWh	2,532,442 kWh
Conversion of Natural Gas Usage to Electricity		11,799,118 kWh
Total Electricity	**13,654,855 kWh**	**41,896,700 kWh**
Natural Gas		
Building	14,654,855 cf	0 cf
Total Natural Gas	**14,654,855 cf**	**0 cf**
Emergency Generators	**4,594 gal**	**(87) gal**
Transportation (On-Road Vehicles)[d]		
Gasoline	**649,476 gal**	**554,826 gal**
Diesel	**107,769 gal**	**92,063 gal**
Total Transportation Fuel (Including Emergency Generators)	**761,839 gal**	**646,803 gal**

cf = cubic feet

gal = gallons

kWh = thousand kilowatt hours

[a] *Table IV.C-2 on page IV.C-27 of the Draft EIR.*

[b] *The CalEEMod model printout sheets and/or calculation worksheets are presented in Appendix A-3 (CalEEMod Output) and Operational Energy Summary is presented in Appendix C-3 of this Confirmatory Analysis.*

[c] *Miscellaneous sources include basecamp and Mobility Hub lighting and ventilation, Mobility Hub EV chargers, signage, and a methane gas extraction ventilation system.*

[d] *Transportation fuel usage in the Draft EIR accounted for TDM VMT reductions. While the proposed development program fuel usage included TDM VMT reduction, the maximum land use exchange scenario inadvertently did not include TDM VMT reductions. Therefore, this Confirmatory Analysis using CalEEMod 2022.1 includes TDM VMT reductions.*

Source: Eyestone Environmental, 2023.

As discussed on page IV.C-29 in the Section IV.C, Energy, of the Draft EIR, the Project would account for less than approximately 0.08 percent of LADWP's projected

electricity sales for the Project's buildout year. LADWP forecasts that its total energy sales in the 2026-2027 fiscal year (the Project buildout year) will be 23,807 GWh of electricity. With increased electrification of the Project due to compliance with the new all-electric ordinance, based on the Project's estimated electrical consumption of 41,224,531 kWh per year, the Project would account for approximately 0.17 percent of LADWP's projected sales for the Project's buildout year. The City requested LADWP to provide an updated will-serve letter demonstrating that the Project's estimated electricity demand (including EV chargers and electrical hook-ups) could be met by the existing electrical infrastructure in the Project area. The updated LADWP will-serve letter is provided in Appendix C-5 of this Confirmatory Analysis and confirms: (a) that LADWP's infrastructure, including distribution grid, is sufficient to address the Project's electricity demands; and (b) the Project's less than significant electricity impact conclusion in the Draft EIR.

As discussed on page IV.C-29 in Section IV.C, Energy, of the Draft EIR, SoCalGas forecasts that its total natural gas consumption in 2026 will be 2.435 billion cf/day. As discussed above, the Project would comply with the City's new all-electric ordinance which does not allow natural gas-powered appliances in most land uses, with certain exceptions. This would not affect SoCalGas' ability to provide natural gas service to the Project Site.

Based on the above, impacts related to energy consumption would be less than significant. With compliance with the new all-electric ordinance, the Project would decrease a long-term commitment of non-renewable resources. SB 100 (RPS) requires utilities to supply 100 percent renewable energy by 2045. Thus, while the Project would result in an increase in electricity usage as compared to what was analyzed in the Draft EIR, by 2045 the electricity consumed would be from a renewable source. In addition, the Project would not result in an increase in demand for natural gas or electricity that exceeds available supply or distribution infrastructure capabilities that could result in the construction of new energy facilities or expansion of existing facilities, the construction of which could cause significant environmental effects. Accordingly, such impacts would be within the envelope of impacts analyzed in the Draft EIR.

This Confirmatory Analysis confirms that, consistent with the conclusion in the Draft EIR (see pages IV.C-40 through -43 of Section IV.C, Energy, of the Draft EIR), refinements to the analysis (e.g., additional PDFs), updating the modeling to CalEEMod 2022.1, and compliance with the new all-electric ordinance would not increase the Project's demand for energy during operation that would cause the wasteful, inefficient, and unnecessary use of energy, and impacts would be less than significant. In addition, the Project would not conflict with or obstruct the existing applicable energy conservation plans or violate state or local energy standards for renewable energy or energy efficiency. Therefore, Project impacts related to energy use would be less-than-significant, consistent with the conclusions in the Draft EIR.

Appendix A

TVC 2050 Project Air Quality Appendix

TVC 2050 Project

Final EIR

Appendix A-Air Emissions

- Appendix A-1-Summary of Air Emissions
- Appendix A-2-Comparision of DEIR (CalEEMod 2020) and FEIR (CalEEMod 2022) parameters
- Appendix A-3-CalEEMod 2022 Output Files
- Appendix A-4-Threshold Calculations
- Appendix A-5-Construction
- Appendix A-6-Operations of a Modern Studio
- Appendix A-7-Operations

TVC 2050 Project

Final EIR

Appendix A-1-Summary of Air Pollutant Emissions

- Construction Emissions Summary
- 2026 Buildout
    - Conceptual Plan (Proposed Development Program)
    - Max Equivalency Scenario (Maximum Land Use Exchange Scenario)
- Concurrent Construction and Operation (2043 Buildout)

Television City - Construction Emissions Summary

Construction Regional Emissions

Winter	Year	Phase	Sum of TOG	Sum of ROG	Sum of NOx	Sum of CO	Sum of SO_2	Sum of PM10T	Sum of PM2.5T
	2023	Demolition/Grading	14	7	164	233	<1	50	15
	2024	Building Construction/Grading (No Overlap)	10	6	139	173	<1	39	12
	2025	Building Construction/Architectural Coatings (No Ov	10	37	20	130	<1	26	6
	2026	Architectural Coatings	9	36	19	123	<1	26	6

Summer	Year	Phase	Sum of TOG	Sum of ROG	Sum of NOx	Sum of CO	Sum of SO_2	Sum of PM10T	Sum of PM2.5T
	2024	No Overlap	11	7	135	186	<1	41	13
	2025	Building Construction / Architectural Coatings	17	44	37	272	<1	45	11
	2026	Architectural Coatings / Paving	9	38	23	150	<1	26	6

Maximum	Year	Phase	Sum of TOG	Sum of ROG	Sum of NOx	Sum of CO	Sum of SO_2	Sum of PM10T	Sum of PM2.5T
	2023		14	7	164	233	<1	50	15
	2024		11	7	139	186	<1	41	13
	2025		17	44	37	272	<1	45	11
	2026		9	38	23	150	<1	26	6
	Max		17	44	164	272	<1	50	15
		Threshold	75	75	100	550	150	150	55
		Over/(Under)	(58)	(31)	64	(278)	(149)	(100)	(40)
		Significant Impact?	No	No	Yes	No	No	No	No

Construction Localized Emissions

Winter	Year	Phase	Sum of TOG	Sum of ROG	Sum of NOx	Sum of CO	Sum of SO_2	Sum of PM10T	Sum of PM2.5T
	2023	Demolition/Grading	3	3	35	150	<1	14	4
	2024	No Overlap	2	2	28	112	<1	9	3
	2025	Building Construction/Architectural Coatings	<1	29	8	26	<1	<1	<1
	2026	No Overlap	<1	29	8	15	<1	<1	<1

Summer	Year	Phase	Sum of TOG	Sum of ROG	Sum of NOx	Sum of CO	Sum of SO_2	Sum of PM10T	Sum of PM2.5T
	2024	No Overlap	2	2	30	112	<1	9	3
	2025	Building Construction / Architectural Coatings	<1	29	17	40	<1	<1	<1
	2026	Architectural Coatings / Paving	<1	30	13	24	<1	<1	<1

Maximum	Year	Phase	Sum of TOG	Sum of ROG	Sum of NOx	Sum of CO	Sum of SO_2	Sum of PM10T	Sum of PM2.5T
	2023		3	3	35	150	<1	14	4
	2024		2	2	30	112	<1	9	3
	2025		<1	29	17	40	<1	<1	<1
	2026		<1	30	13	24	<1	<1	<1
	Max		3	30	35	150	<1	14	4
		Threshold			119	1861		16	8
		Over/(Under)			(84)	(1711)		(2)	(4)
		Significant Impact?			No	No		No	No

SUMMARY OF AIR EMISSIONS
CONCEPTUAL LAND USE DEVELOPMENT SCENARIO
Operation Emissions (Unmitigated) DEIR CalEEMod 2020
Winter

	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Regional Existing						
Area	17	<1	<1	<1	<1	<1
Energy	<1	2	1	<1	<1	<1
Mobile	11	14	111	<1	22	6
Onsite Equipment						
CalEEMod Total	29	16	112	<1	22	6
Emergency Generator	<1	8	4	<1	<1	<1
Spray Booths	9	0	0	0	1	1
Onsite (Truck/Employee/Visitor Travel/Idle)						
Onsite Food Trucks (char broiler)						
Total	**38**	**24**	**116**	**<1**	**23**	**8**
Regional Existing (Buidout Year)	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Area	17	<1	<1	<1	<1	<1
Energy	<1	2	1	<1	<1	<1
Mobile	9	9	88	<1	22	6
Onsite Equipment						
CalEEMod Total	27	11	89	<1	22	6
Emergency Generator	<1	8	4	<1	<1	<1
Spray Booths	9	0	0	0	1	1
Onsite (Truck/Employee/Visitor Travel/Idle)						
Onsite Food Trucks (char broiler)						
Total	**36**	**19**	**93**	**<1**	**23**	**8**
Regional Buildout (Buildout Year) With PDFs	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Area	43	<1	<1	<1	<1	<1
Energy	<1	5	4	<1	<1	<1
Mobile	27	27	253	<1	61	17
Onsite Equipment						
CalEEMod Total	71	32	258	<1	62	17
Emergency Generator	<1	4	3	<1	<1	<1
Spray Booths	9	0	0	0	1	1
Onsite (Truck/Employee/Visitor Travel/Idle)						
Onsite Food Trucks (char broiler)						
Total	**80**	**36**	**261**	**<1**	**63**	**18**
Project Regional (Buildout Less Existing (Buildout Year)) With PDFs						
	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Area	26	<1	<1	<1	<1	<1
Energy	<1	4	3	<1	<1	<1
Mobile	18	18	165	<1	40	11
Onsite Equipment						
CalEEMod Total	44	21	168	<1	40	11
Emergency Generator	-0.2	-4.1	-0.2	-0.2	-0.2	-0.2
Spray Booths	0	0	0	0	0	0
Onsite (Truck/Employee/Visitor Travel/Idle)						
Onsite Food Trucks (char broiler)						
Total	**44**	**17**	**168**	**<1**	**40**	**11**
Threshold	**55**	**55**	**550**	**150**	**150**	**55**
Difference	**(11)**	**(38)**	**(382)**	**(150)**	**(110)**	**(44)**
Impact	No	No	No	No	No	No
Project Localized (Buildout Less Baseline (Buildout Year))						
Onsite Total		-0.4	3.3		0.1	0.1
Threshold		**119**	**1861**		**3**	**2.0**
Difference		**(119)**	**(1858)**		**(3)**	**(2)**
Impact		**No**	**No**		**No**	**No**

CONCEPTUAL LAND USE DEVELOPMENT SCENARIO
Operation Emissions (Unmitigated) FEIR CalEEMod 2022
Winter

	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Regional Existing						
Area	17	<1	62	<1	<1	<1
Energy	<1	3	2	<1	<1	<1
Mobile	16	15	125	<1	8	2
Onsite Equipment	<1	<1	4	<1	<1	<1
CalEEMod Total	33	18	193	<1	8	2
Emergency Generator	<1	8	4	<1	<1	<1
Spray Booths	9	0	0	0	1	1
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	1	3	<1	<1	<1
Onsite Food Trucks (char broiler)	<1	0	0	0	2	1
Total	**43**	**28**	**200**	**<1**	**13**	**5**
Regional Existing (Buidout Year)	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Area	17	<1	62	<1	<1	<1
Energy	<1	3	2	<1	<1	<1
Mobile	12	9	88	<1	8	2
Onsite Equipment	<1	<1	4	<1	<1	<1
CalEEMod Total	29	13	157	<1	8	2
Emergency Generator	<1	8	4	<1	<1	<1
Spray Booths	9	0	0	0	1	1
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	1	2	<1	<1	<1
Onsite Food Trucks (char broiler)	<1	0	0	0	2	1
Total	**39**	**22**	**163**	**<1**	**13**	**5**
Regional Buildout (Buildout Year) With PDFs	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Area	40	0	0	0	0	0
Energy	0	0	0	0	0	0
Mobile	35	26	253	<1	23	4
Onsite Equipment	0	0	0	0	0	0
CalEEMod Total	75	26	253	<1	23	4
Emergency Generator	<1	4	3	<1	<1	<1
Spray Booths	9	0	0	0	1	1
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	3	8	<1	2	<1
Onsite Food Trucks (char broiler)	<1	0	0	0	4	2
Total	**85**	**33**	**264**	**<1**	**30**	**9**
Project Regional (Buildout Less Existing (Buildout Year)) With PDFs						
	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Area	23	-0.4	-62	-0.01	-0.01	-0.02
Energy	-0.2	-2.7	-2.3	0.0	-0.2	-0.2
Mobile	23	17	165	<1	14.7	2.8
Onsite Equipment	0	-0.4	-4.4	0	0.0	0.0
CalEEMod Total	45	14	96	<1	14.4	2.6
Emergency Generator	-0.2	-4.1	-0.2	-0.2	-0.2	-0.2
Spray Booths	0	0	0	0	0	0
Onsite (Truck/Employee/Visitor Travel/Idle)	0.3	1.5	5.3	0.0	1.3	0.3
Onsite Food Trucks (char broiler)	0.3	0.0	0.0	0.0	1.7	1.7
Total	**46**	**11**	**101**	**<1**	**17.2**	**4**
Threshold	**55**	**55**	**550**	**150**	**150**	**55**
Difference	**(9)**	**(44)**	**(449)**	**(150)**	**(133)**	**(51)**
Impact	No	No	No	No	No	No
Project Localized (Buildout Less Baseline (Buildout Year))						
Onsite Total		-6.1	-63.4		2.5	1.6
Threshold		**119**	**1861**		**3**	**2.0**
Difference		**(125)**	**(1924)**		**(0)**	**(0)**
Impact		**No**	**No**	**No**	**No**	**No**

CONCEPTUAL LAND USE DEVELOPMENT SCENARIO
Operation Emissions (Unmitigated) FEIR CalEEMod 2022
Summer

	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Regional Existing						
Area	17	<1	62	<1	<1	<1
Energy	<1	3	2	<1	<1	<1
Mobile	16	14	134	<1	8	2
Onsite Equipment	<1	<1	4	<1	<1	<1
CalEEMod Total	33	17	202	<1	8	2
Emergency Generator	<1	8	4	<1	<1	<1
Spray Booths	9	0	0	0	1	1
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	1	3	<1	<1	<1
Onsite Food Trucks (char broiler)	<1	0	0	0	2	1
Total	**43**	**27**	**209**	**<1**	**13**	**5**
Regional Existing (Buidout Year)	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Area	17	<1	62	<1	<1	<1
Energy	<1	2	1	<1	<1	<1
Mobile	12	8	95	<1	8	2
Onsite Equipment	<1	<1	4	<1	<1	<1
CalEEMod Total	29	12	163	<1	8	2
Emergency Generator	<1	8	4	<1	<1	<1
Spray Booths	9	0	0	0	1	1
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	1	2	<1	<1	<1
Onsite Food Trucks (char broiler)	<1	0	0	0	2	1
Total	**39**	**21**	**169**	**<1**	**13**	**5**
Regional Buildout (Buildout Year) With PDFs	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Area	40	0	0	0	0	0
Energy	0	0	0	0	0	0
Mobile	36	27	256	<1	23	4
Onsite Equipment	0	0	0	0	0	0
CalEEMod Total	76	24	274	<1	23	4
Emergency Generator	<1	4	3	<1	<1	<1
Spray Booths	9	0	0	0	1	1
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	3	8	<1	2	<1
Onsite Food Trucks (char broiler)	<1	0	0	0	4	1
Total	**86**	**31**	**285**	**<1**	**30**	**8**
Project Regional (Buildout Less Existing (Buildout Year)) With PDFs						
	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Area	23	-0.4	-62	0.0	0.0	0.0
Energy	-0.2	-2.7	-2.3	0.0	-0.2	-0.2
Mobile	24	16	179	<1	15	3
Onsite Equipment	0.0	-0.4	-4.4	0.0	0.0	0.0
CalEEMod Total	46	12	111	<1	15	3
Emergency Generator	-0.2	-4.1	-0.2	-0.2	-0.2	-0.2
Spray Booths	0	0	0	0	0	0
Onsite (Truck/Employee/Visitor Travel/Idle)	0.3	1.5	5.3	0.0	1.3	0.3
Onsite Food Trucks (char broiler)	0.3	0.0	0.0	0.0	1.7	1.7
Total	**46**	**10**	**113**	**<1**	**17**	**4**
Threshold	**55**	**55**	**550**	**150**	**150**	**55**
Difference	**(9)**	**(45)**	**(437)**	**(150)**	**(133)**	**(51)**
Impact	No	No	No	No	No	No
Project Localized (Buildout Less Baseline (Buildout Year))						
Onsite Total		-6.1	-63		2.5	1.6
Threshold		**119**	**1861**		**3**	**2.0**
Difference		**(125)**	**(1924)**		**(0)**	**(0)**
Impact		**No**	**No**	**No**	**No**	**No**

SUMMARY OF AIR EMISSIONS
MAXIMUM EQUIVALENCY SCENARIO
Operation Emissions (Unmitigated) FEIR CalEEMod 2022
Winter

	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Regional Existing						
Area	17	<1	<1	<1	<1	<1
Energy	<1	2	1	<1	<1	<1
Mobile	11	14	111	<1	22	6
Onsite Equipment						
CalEEMod Total	29	16	112	<1	22	6
Emergency Generator	<1	8	4	<1	<1	<1
Spray Booths	9	<1	<1	<1	1	1
Onsite (Truck/Employee/Visitor Travel/Idle)						
Onsite Food Trucks (char broiler)						
Total	**38**	**24**	**116**	**<1**	**23**	**8**
Regional Existing (Buidout Year)	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Area	17	<1	<1	<1	<1	<1
Energy	<1	2	1	<1	<1	<1
Mobile	9	9	88	<1	22	6
Onsite Equipment	<1	<1	4	<1	<1	<1
CalEEMod Total	27	11	89	<1	22	6
Emergency Generator	<1	8	4	<1	<1	<1
Spray Booths	9	0	0	0	1	1
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	1	2	<1	<1	<1
Onsite Food Trucks (char broiler)	<1	0	0	0	2	1
Total	**36**	**19**	**93**	**<1**	**23**	**8**
Regional Buildout (Buildout Year) With PDFs	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Area	43	<1	<1	<1	<1	<1
Energy	<1	5	5	<1	<1	<1
Mobile	30	30	288	<1	69	19
Onsite Equipment	0	0	0	0	0	0
CalEEMod Total	74	36	294	<1	70	20
Emergency Generator	<1	4	3	<1	<1	<1
Spray Booths	9	0	0	0	1	1
Onsite (Truck/Employee/Visitor Travel/Idle)						
Onsite Food Trucks (char broiler)						
Total	**83**	**40**	**297**	**<1**	**71**	**21**
Project Regional (Buildout Less Existing (Buildout Year)) With PDFs						
	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Area	26	0.0	0.5	0.0	0.0	0.0
Energy	0.4	3.9	3.3	0.0	0.3	0.3
Mobile	21	21	200	<1	48	13
Onsite Equipment	0.0	-0.4	-4.4	0.0	0.0	0.0
CalEEMod Total	47	25	204	<1	48	14
Emergency Generator	-0.2	-4.1	-0.2	-0.2	-0.2	-0.2
Spray Booths	0	0	0	0	0	0
Onsite (Truck/Employee/Visitor Travel/Idle)	0.3	1.5	5.3	0.0	1.3	0.3
Onsite Food Trucks (char broiler)	0.3	0.0	0.0	0.0	1.7	1.7
Total	**47**	**21**	**204**	**<1**	**48**	**13**
Threshold	**55**	**55**	**550**	**150**	**150**	**55**
Difference	**(8)**	**(34)**	**(346)**	**(150)**	**(102)**	**(42)**
Impact	No	No	No	No	No	No
Project Localized (Buildout Less Baseline (Buildout Year))						
Onsite Total		-0.2	4		0.1	0.1
Threshold		**119**	**1861**		**3**	**2.0**
Difference		**(119)**	**(1857)**		**(3)**	**(2)**
Impact		**No**	**No**	**No**	**No**	**No**

MAXIMUM EQUIVALENCY SCENARIO
Operation Emissions (Unmitigated) FEIR CalEEMod 2022
Winter

	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Regional Existing						
Area	17	<1	62	<1	<1	<1
Energy	<1	3	2	<1	<1	<1
Mobile	16	15	125	<1	8	2
Onsite Equipment	<1	<1	4	<1	<1	<1
CalEEMod Total	33	18	193	<1	8	2
Emergency Generator	<1	8	4	<1	<1	<1
Spray Booths	9	<1	<1	<1	1	1
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	1	3	<1	<1	<1
Onsite Food Trucks (char broiler)	<1	<1	<1	<1	2	1
Total	**43**	**28**	**200**	**<1**	**13**	**5**
Regional Existing (Buidout Year)	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Area	17	<1	62	<1	<1	<1
Energy	<1	3	2	<1	<1	<1
Mobile	12	9	88	<1	8	2
Onsite Equipment	<1	<1	4	<1	<1	<1
CalEEMod Total	29	13	157	<1	8	2
Emergency Generator	<1	8	4	<1	<1	<1
Spray Booths	9	0	0	0	1	1
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	1	2	<1	<1	<1
Onsite Food Trucks (char broiler)	<1	0	0	0	2	1
Total	**39**	**22**	**163**	**<1**	**13**	**5**
Regional Buildout (Buildout Year) With PDFs	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Area	40	0	0	0	0	0
Energy	0	0	0	0	0	0
Mobile	36	27	256	<1	23	4
Onsite Equipment	0	0	0	0	0	0
CalEEMod Total	75	27	256	<1	23	4
Emergency Generator	<1	4	3	<1	<1	<1
Spray Booths	9	0	0	0	1	1
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	3	8	<1	2	<1
Onsite Food Trucks (char broiler)	<1	0	0	0	4	2
Total	**85**	**33**	**267**	**<1**	**30**	**9**
Project Regional (Buildout Less Existing (Buildout Year)) With PDFs						
	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Area	23	-0.4	-62	0.0	0.0	0.0
Energy	-0.2	-2.7	-2.3	0.0	-0.2	-0.2
Mobile	24	17	168	<1	15	3
Onsite Equipment	0.0	-0.4	-4.4	0.0	0.0	0.0
CalEEMod Total	46	14	99	<1	15	3
Emergency Generator	-0.2	-4.1	-0.2	-0.2	-0.2	-0.2
Spray Booths	0	0	0	0	0	0
Onsite (Truck/Employee/Visitor Travel/Idle)	0.3	1.5	5.3	0.0	1.3	0.3
Onsite Food Trucks (char broiler)	0.3	0.0	0.0	0.0	1.7	1.7
Total	**46**	**11**	**104**	**<1**	**17**	**4**
Threshold	**55**	**55**	**550**	**150**	**150**	**55**
Difference	**(9)**	**(44)**	**(446)**	**(150)**	**(133)**	**(51)**
Impact	No	No	No	No	No	No
Project Localized (Buildout Less Baseline (Buildout Year))						
Onsite Total		-6.1	-63		2.5	1.6
Threshold		**119**	**1861**		**3**	**2.0**
Difference		**(125)**	**(1924)**		**(0)**	**(0)**
Impact		**No**	**No**	**No**	**No**	**No**

MAXIMUM EQUIVALENCY SCENARIO
Operation Emissions (Unmitigated) FEIR CalEEMod 2022
Summer

	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Regional Existing						
Area	17	<1	62	<1	<1	<1
Energy	<1	3	2	<1	<1	<1
Mobile	16	14	134	<1	8	2
Onsite Equipment	<1	<1	4	<1	<1	<1
CalEEMod Total	33	17	202	<1	8	2
Emergency Generator	<1	8	4	<1	<1	<1
Spray Booths	9	<1	<1	<1	1	1
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	1	3	<1	<1	<1
Onsite Food Trucks (char broiler)	<1	<1	<1	<1	2	1
Total	**43**	**27**	**209**	**<1**	**13**	**5**
Regional Existing (Buidout Year)	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Area	17	<1	62	<1	<1	<1
Energy	<1	3	2	<1	<1	<1
Mobile	12	8	95	<1	8	2
Onsite Equipment	<1	<1	4	<1	<1	<1
CalEEMod Total	29	12	163	<1	8	2
Emergency Generator	<1	8	4	<1	<1	<1
Spray Booths	9	0	0	0	1	1
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	1	2	<1	<1	<1
Onsite Food Trucks (char broiler)	<1	0	0	0	2	1
Total	**39**	**21**	**169**	**<1**	**13**	**5**
Regional Buildout (Buildout Year) With PDFs	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Area	40	0	0	0	0	0
Energy	0	0	0	0	0	0
Mobile	36	27	256	<1	23	4
Onsite Equipment	0	0	0	0	0	0
CalEEMod Total	76	24	274	<1	23	4
Emergency Generator	<1	4	3	<1	<1	<1
Spray Booths	9	0	0	0	1	1
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	3	8	<1	2	<1
Onsite Food Trucks (char broiler)	<1	0	0	0	4	1
Total	**86**	**31**	**285**	**<1**	**30**	**8**
Project Regional (Buildout Less Existing (Buildout Year)) With PDFs						
	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Area	23	-0.4	-62	0.0	0.0	0.0
Energy	-0.2	-2.7	-2.3	0.0	-0.2	-0.2
Mobile	24	16	179	<1	15	3
Onsite Equipment	0.0	-0.4	-4.4	0.0	0.0	0.0
CalEEMod Total	46	12	111	<1	15	3
Emergency Generator	-0.2	-4.1	-0.2	-0.2	-0.2	-0.2
Spray Booths	0	0	0	0	0	0
Onsite (Truck/Employee/Visitor Travel/Idle)	0.3	1.5	5.3	0.0	1.3	0.3
Onsite Food Trucks (char broiler)	0.3	0.0	0.0	0.0	1.7	1.7
Total	**46**	**10**	**116**	**<1**	**17**	**4**
Threshold	**55**	**55**	**550**	**150**	**150**	**55**
Difference	**(9)**	**(45)**	**(434)**	**(150)**	**(133)**	**(51)**
Impact	No	No	No	No	No	No
Project Localized (Buildout Less Baseline (Buildout Year))						
Onsite Total		-6.1	-63		2.5	1.6
Threshold		**119**	**1861**		**3**	**2.0**
Difference		**(125)**	**(1924)**		**(0)**	**(0)**
Impact		**No**	**No**	**No**	**No**	**No**

Maximum Equivalency Scenario includes 100,000 sf of additioanal sound stages and a reduction of 100,000 sf of production support.

SUMMARY OF AIR EMISSIONS
Winter
Regional Operation Emissions (Mitigated) (pounds per day)

	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Area	17	<1	62	<1	<1	<1
Energy	<1	3	2	<1	<1	<1
Mobile	12	9	88	<1	8	2
Onsite Equipment	<1	<1	4	<1	<1	<1
CalEEMod Total	29	13	157	<1	8	2
Emergency Generator	<1	8	4	<1	<1	<1
Spray Booths	9	0	0	0	1	1
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	1	3	<1	<1	<1
Onsite Food Trucks (char broiler)	<1	<1	<1	<1	2	1
Regional Existing 2026	**39**	**22**	**163**	**<1**	**13**	**5**
Area	17	<1	62	<1	<1	<1
Energy	<1	3	2	<1	<1	<1
Mobile	10	7	74	<1	8	1
Onsite Equipment	<1	<1	4	<1	<1	<1
CalEEMod Total	27	11	143	<1	8	2
Emergency Generator	<1	8	4	<1	<1	<1
Spray Booths	9	0	0	0	1	1
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	1	3	<1	<1	<1
Onsite Food Trucks (char broiler)	<1	0	0	0	2	1
Regional Existing 2030	**37**	**20**	**149**	**<1**	**13**	**5**
Area	17	<1	62	<1	<1	<1
Energy	<1	3	2	<1	<1	<1
Mobile	9	6	65	<1	8	1
Onsite Equipment	<1	<1	4	<1	<1	<1
CalEEMod Total	27	11	143	<1	8	2
Emergency Generator	<1	8	4	<1	<1	<1
Spray Booths	9	0	0	0	1	1
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	1	3	<1	<1	<1
Onsite Food Trucks (char broiler)	<1	0	0	0	2	1
Regional Existing 2035	**36**	**19**	**139**	**<1**	**13**	**5**
Area	17	<1	62	<1	<1	<1
Energy	<1	3	2	<1	<1	<1
Mobile	8	5	59	<1	8	1
Onsite Equipment	<1	<1	4	<1	<1	<1
CalEEMod Total	27	11	143	<1	8	2
Emergency Generator	<1	8	4	<1	<1	<1
Spray Booths	9	0	0	0	1	1
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	1	3	<1	<1	<1
Onsite Food Trucks (char broiler)	<1	0	0	0	2	1
Regional Existing 2040	**35**	**18**	**134**	**<1**	**13**	**5**
Area	17	<1	62	<1	<1	<1
Energy	<1	3	2	<1	<1	<1
Mobile	8	5	58	<1	8	1
Onsite Equipment	<1	<1	4	<1	<1	<1
CalEEMod Total	27	11	143	<1	8	2
Emergency Generator	<1	8	4	<1	<1	<1
Spray Booths	9	0	0	0	1	1
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	1	3	<1	<1	<1
Onsite Food Trucks (char broiler)	<1	0	0	0	2	1
Regional Existing 2043	**35**	**18**	**132**	**<1**	**13**	**5**

	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Area	40	0	0	0	0	0
Energy	0	0	0	0	0	0
Mobile	35	26	253	<1	23	4
Onsite Equipment	0	0	0	0	0	0
CalEEMod Total	75	26	253	<1	23	4
Emergency Generator	<1	4	3	<1	<1	<1
Spray Booths	9	0	0	0	1	1
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	3	8	<1	2	<1
Onsite Food Trucks (char broiler)	<1	0	0	0	4	2
Regional Buildout 2026	**85**	**33**	**264**	**<1**	**30**	**9**
Area	40	0	0	0	0	0
Energy	0	0	0	0	0	0
Mobile	30	20	213	<1	23	4
Onsite Equipment	0	0	0	0	0	0
CalEEMod Total	69	20	213	<1	23	4
Emergency Generator	<1	4	3	<1	<1	<1
Spray Booths	9	0	0	0	1	1
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	3	8	<1	2	<1
Onsite Food Trucks (char broiler)	<1	0	0	0	4	2
Regional Buildout 2030	**79**	**27**	**224**	**<1**	**30**	**8**
Area	40	0	0	0	0	0
Energy	0	0	0	0	0	0
Mobile	26	16	185	<1	22	4
Onsite Equipment	0	0	0	0	0	0
CalEEMod Total	65	16	185	<1	22	4
Emergency Generator	<1	4	3	<1	<1	<1
Spray Booths	9	0	0	0	1	1
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	3	8	<1	2	<1
Onsite Food Trucks (char broiler)	<1	0	0	0	4	2
Regional Buildout 2035	**75**	**23**	**196**	**<1**	**30**	**8**
Area	40	0	0	0	0	0
Energy	0	0	0	0	0	0
Mobile	23	14	170	<1	22	4
Onsite Equipment	0	0	0	0	0	0
CalEEMod Total	63	14	170	<1	22	4
Emergency Generator	<1	4	3	<1	<1	<1
Spray Booths	9	0	0	0	1	1
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	3	8	<1	2	<1
Onsite Food Trucks (char broiler)	<1	<1	<1	<1	4	2
Regional Buildout 2040	**73**	**21**	**181**	**<1**	**30**	**8**
Area	40	<1	<1	<1	<1	<1
Energy	0	0	0	0	0	0
Mobile	22	13	165	<1	22	4
Onsite Equipment	0	0	0	0	0	0
CalEEMod Total	62	13	165	<1	22	4
Emergency Generator	<1	4	3	<1	<1	<1
Spray Booths	9	<1	<1	<1	1	1
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	3	8	<1	2	<1
Onsite Food Trucks (char broiler)	<1	<1	<1	<1	4	2
Regional Buildout 2043	**72**	**20**	**176**	**<1**	**30**	**8**

Project Regional Operational Emissions
Assumes 100% existing is removed for each of the different milestones

	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
2026	46	11	101	<1	17	4
2030	42	7	75	<1	17	4
2035	39	4	57	<1	17	4
2040	38	3	47	<1	17	4
2043	37	2	44	<1	17	4

SUMMARY OF AIR EMISSIONS
Winter
Regional Operation Emissions (Mitigated) (pounds per day)

	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Area	14	<1	49	<1	<1	<1
Energy	<1	2	2	<1	<1	<1
Mobile	10	7	71	<1	6	1
Onsite Equipment	<1	<1	4	<1	<1	<1
CalEEMod Total	23	10	125	<1	7	1
Emergency Generator	<1	7	3	<1	<1	<1
Spray Booths	No change in total use.					
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	1	2	<1	<1	<1
Food Trucks	<1	0	0	0	2	1
80% **Existing Remaining 2026**	**24**	**18**	**131**	**<1**	**9**	**3**
Area	10	<1	37	<1	<1	<1
Energy	<1	2	1	<1	<1	<1
Mobile	6	4	45	<1	5	<1
Onsite Equipment	<1	<1	3	<1	<1	<1
CalEEMod Total	16	6	86	<1	5	1
Emergency Generator	<1	5	2	<1	<1	<1
Spray Booths	No change in total use.					
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	<1	2	<1	<1	<1
Food Trucks	<1	0	0	0	1	<1
60% **Existing Remaining 2030**	**17**	**12**	**90**	**<1**	**7**	**2**
Area	7	<1	25	<1	<1	<1
Energy	<1	1	<1	<1	<1	<1
Mobile	4	2	26	<1	3	<1
Onsite Equipment	<1	<1	2	<1	<1	<1
CalEEMod Total	11	4	57	<1	3	<1
Emergency Generator	<1	3	1	<1	<1	<1
Spray Booths	No change in total use.					
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	<1	1	<1	<1	<1
Food Trucks	<1	0	0	0	1	<1
40% **Existing Remaining 2035**	**11**	**7**	**56**	**<1**	**5**	**1**
Area	3	<1	12	<1	<1	<1
Energy	<1	<1	<1	<1	<1	<1
Mobile	2	<1	12	<1	2	<1
Onsite Equipment	<1	<1	<1	<1	<1	<1
CalEEMod Total	5	2	29	<1	2	<1
Emergency Generator	<1	2	<1	<1	<1	<1
Spray Booths	No change in total use.					
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	<1	<1	<1	<1	<1
Food Trucks	<1	0	0	0	<1	<1
20% **Existing Remaining 2040**	**5**	**4**	**27**	**<1**	**2**	**<1**
Area	0	0	0	0	0	0
Energy	0	0	0	0	0	0
Mobile	0	0	0	0	0	0
Onsite Equipment	0	0	0	0	0	0
CalEEMod Total	0	0	0	0	0	0
Emergency Generator	0	0	0	0	0	0
Spray Booths	No change in total use.					
Onsite (Truck/Employee/Visitor Travel/Idle)	0	0	0	0	0	0
Food Trucks	0	0	0	0	0	0
0% **Existing Remaining 2043**	**0**	**0**	**0**	**0**	**0**	**0**

	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Area	8	0	0	0	0	0
Energy	0	0	0	0	0	0
Mobile	7	5	51	<1	5	<1
Onsite Equipment	0	0	0	0	0	0
CalEEMod Total	15	5	51	<1	5	<1
Emergency Generator	<1	<1	<1	<1	<1	<1
Spray Booths	No change in total use.					
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	<1	2	<1	<1	<1
Food Trucks	<1	<1	<1	<1	<1	<1
20% **New 2026**	**15**	**7**	**53**	**<1**	**6**	**1**
Area	16	0	0	0	0	0
Energy	0	0	0	0	0	0
Mobile	12	8	85	<1	9	2
Onsite Equipment	0	0	0	0	0	0
CalEEMod Total	28	8	85	<1	9	2
Emergency Generator	<1	2	1	<1	<1	<1
Spray Booths	No change in total use.					
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	1	3	<1	<1	<1
Food Trucks	<1	<1	<1	<1	2	<1
40% **New 2030**	**28**	**11**	**90**	**<1**	**11**	**3**
Area	24	0	0	0	0	0
Energy	0	0	0	0	0	0
Mobile	15	10	111	<1	13	2
Onsite Equipment	0	0	0	0	0	0
CalEEMod Total	39	10	111	<1	13	2
Emergency Generator	<1	2	2	<1	<1	<1
Spray Booths	No change in total use.					
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	2	5	<1	1	<1
Food Trucks	<1	<1	<1	<1	2	1
60% **New 2035**	**40**	**14**	**118**	**<1**	**17**	**4**
Area	32	0	0	0	0	0
Energy	0	0	0	0	0	0
Mobile	18	11	136	0	18	3
Onsite Equipment	0	0	0	0	0	0
CalEEMod Total	50	11	136	<1	18	3
Emergency Generator	<1	3	3	<1	<1	<1
Spray Booths	No change in total use.					
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	2	6	<1	1	<1
Food Trucks	<1	<1	<1	<1	3	2
80% **New 2040**	**51**	**17**	**145**	**<1**	**23**	**6**
Area	40	<1	<1	<1	<1	<1
Energy	0	0	0	0	0	0
Mobile	22	13	165	<1	22	4
Onsite Equipment	<1	<1	<1	<1	<1	<1
CalEEMod Total	62	13	165	<1	22	4
Emergency Generator	<1	4	3	<1	<1	<1
Spray Booths	No change in total use.					
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	3	8	<1	2	<1
Food Trucks	<1	<1	<1	<1	4	2
100% **New 2043**	**63**	**20**	**176**	**<1**	**28**	**7**

Project Regional Operational Emissions
Assumes percentage of existing uses are removed with buildout %

	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
2026	9	2	20	<1	3	<1
2030	17	3	30	<1	7	1
2035	24	3	34	<1	10	2
2040	30	2	38	<1	14	3
2043	37	2	44	<1	17	4

SUMMARY OF AIR EMISSIONS
Winter
Regional Operation Emissions (Mitigated) (pounds per day)

	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Area	3	<1	12	<1	<1	<1
Energy	<1	<1	<1	<1	<1	<1
Mobile	2	2	18	<1	2	<1
Onsite Equipment	<1	<1	<1	<1	<1	<1
CalEEMod Total	6	3	31	<1	2	<1
Emergency Generator	<1	2	<1	<1	<1	<1
Spray Booths	No change in total use.					
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	<1	<1	<1	<1	<1
Food Trucks	<1	0	0	0	<1	<1
20% **Existing Removed 2026**	**6**	**4**	**33**	**<1**	**2**	**<1**
Area	7	<1	25	<1	<1	<1
Energy	<1	1	<1	<1	<1	<1
Mobile	4	3	30	<1	3	<1
Onsite Equipment	<1	<1	2	<1	<1	<1
CalEEMod Total	11	4	57	<1	3	<1
Emergency Generator	<1	3	1	<1	<1	<1
Spray Booths	No change in total use.					
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	<1	1	<1	<1	<1
Food Trucks	<1	0	0	0	<1	<1
40% **Existing Removed 2030**	**11**	**8**	**60**	**<1**	**5**	**1**
Area	10	<1	37	<1	<1	<1
Energy	<1	2	1	<1	<1	<1
Mobile	5	3	39	<1	5	<1
Onsite Equipment	<1	<1	3	<1	<1	<1
CalEEMod Total	16	6	86	<1	5	1
Emergency Generator	<1	5	2	<1	<1	<1
Spray Booths	No change in total use.					
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	<1	2	<1	<1	<1
Food Trucks	<1	0	0	0	1	<1
60% **Existing Removed 2035**	**16**	**11**	**84**	**<1**	**7**	**2**
Area	14	<1	49	<1	<1	<1
Energy	<1	2	2	<1	<1	<1
Mobile	6	4	47	<1	6	1
Onsite Equipment	<1	<1	4	<1	<1	<1
CalEEMod Total	22	8	114	<1	6	1
Emergency Generator	<1	7	3	<1	<1	<1
Spray Booths	No change in total use.					
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	1	2	<1	<1	<1
Food Trucks	<1	0	0	0	2	1
80% **Existing Removed 2040**	**21**	**14**	**107**	**<1**	**9**	**3**
Area	17	<1	62	<1	<1	<1
Energy	<1	3	2	<1	<1	<1
Mobile	8	5	58	<1	8	1
Onsite Equipment	<1	<1	4	<1	<1	<1
CalEEMod Total	27	11	143	<1	8	2
Emergency Generator	<1	8	4	<1	<1	<1
Spray Booths	No change in total use.					
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	1	3	<1	<1	<1
Food Trucks	<1	<1	<1	<1	2	1
100% **Existing Removed 2043**	**26**	**18**	**132**	**<1**	**11**	**3**

Regional Construction Emissions (Mitigated) (pounds per day)

Construction 100% Intensity (CalEEMod)	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
2023-2026 Max	37	152	218	<1	45	14
2026-2029 Max	35	126	208	<1	44	14
2030-2033 Max	34	121	197	<1	44	14
2035-2038 Max	33	106	186	<1	44	14
2040-2043 Max	32	98	179	<1	44	14
Additional Employee Trips	<1	<1	7	<1	1	<1
Construction 100% Intensity (Onsite)	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
2023-2026 Max	<1	12	8	<1	4	<1
2026-2029 Max	<1	12	8	<1	4	<1
2030-2033 Max	<1	12	8	<1	4	<1
2035-2038 Max	<1	12	8	<1	4	<1
2040-2043 Max	<1	12	8	<1	4	<1

Note: Onsite emissions from truck and employee travel (i.e., idle and travel)

Combined Regional Construction and Operational Emissions (Mitigated) (pounds per day)

50% Maximum Construction Intensity with Operational Emissions for Milestone Years		ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
2026		**28**	**72**	**135**	**<1**	**29**	**8**
2030		**35**	**70**	**139**	**<1**	**32**	**9**
2035		**41**	**62**	**138**	**<1**	**35**	**10**
2040		**47**	**58**	**138**	**<1**	**39**	**10**
2043		**37**	**2**	**44**	**<1**	**17**	**4**
Max		***47***	***72***	***139***	***1***	***39***	***10***
	Threshold	**55**	**55**	**550**	**150**	**150**	**55**
	Difference	**(8)**	**17**	**(411)**	**(149)**	**(111)**	**(45)**
	Impact	No	Yes	No	No	No	No

Note: ROG represents architectural Coating/Finishing Phase; All other pollutants represent overlap of excavation and demolition

Localized Operational Emissions (Mitigated) (pounds per day)

Project Localized Operational Emissions
Assumes 100% existing is removed for each of the different milestones

	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
2026	23	-6	-64	-<1	2.5	0.9
2030	23	-6	-64	-<1	2.5	0.9
2035	23	-6	-64	-<1	2.5	0.9
2040	23	-6	-64	-<1	2.5	0.9
2043	23	-6	-64	-<1	2.5	0.9

Project Localized Operational Emissions
Assumes percentage of existing uses are removed with buildout %

	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
2026	19.2	9.2	47.1	0.1	3.3	1.8
2030	20.1	5.3	19.4	0.0	3.1	1.6
2035	21.0	1.4	-8.3	0.0	2.9	1.3
2040	21.8	-2.5	-36.1	-0.1	2.7	1.1
2043	22.7	-6.4	-63.8	-0.2	2.5	0.9

Localized Construction Emissions (Mitigated) (pounds per day)

Construction 100% Intensity (CalEEMod)	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
2023-2026 Max	29	23	142	<1	10.2	3.8
2026-2029 Max	29	23	142	<1	10.1	3.8
2030-2033 Max	29	23	142	<1	10.1	3.8
2035-2038 Max	29	23	142	<1	10.1	3.8
2040-2043 Max	29	23	142	<1	10.2	3.8
Construction 100% Intensity (Onsite)	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
2023-2026 Max	<1	12	8	<1	4	<1
2026-2029 Max	<1	12	8	<1	4	<1
2030-2033 Max	<1	12	8	<1	4	<1
2035-2038 Max	<1	12	8	<1	4	<1
2040-2043 Max	<1	12	8	<1	4	<1

Note: Onsite emissions from truck and employee travel (i.e., idle and travel)

Combined Localized Construction and Operational Emissions (Mitigated) (pounds per day)

50% Maximum Construction Intensity with Operational Emissions for Milestone Years		ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
2026		**34**	**27**	**122**	**<1**	**10**	**4**
2030		**35**	**23**	**94**	**<1**	**10**	**4**
2035		**36**	**19**	**67**	**<1**	**10**	**3**
2040		**37**	**15**	**39**	**<1**	**10**	**3**
2043		**23**	**-6.4**	**-63.8**	**-0.2**	**2.5**	**0.9**
Max		***37***	***27***	***122***	***0***	***10***	***4***
	Threshold	**NA**	**119**	**1861**	**NA**	**16**	**8**
	Difference		**(92)**	**(1739)**		**(6)**	**(4)**
	Impact		No	No		No	No

Note: Existing remaining uses are included in the calculation of localized emissions to evaluate total Project Site emissions for purposes of comparing to SCAQMD LST thresholds.

SUMMARY OF AIR EMISSIONS
Summer
Regional Operation Emissions (Mitigated) (pounds per day)

	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Area	17	<1	62	<1	<1	<1
Energy	<1	3	2	<1	<1	<1
Mobile	12	8	95	<1	8	2
Onsite Equipment	<1	<1	4	<1	<1	<1
CalEEMod Total	29	12	163	<1	8	2
Emergency Generator	<1	8	4	<1	<1	<1
Spray Booths	9	0	0	0	1	1
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	1	3	<1	<1	<1
Onsite Food Trucks (char broiler)	<1	<1	<1	<1	2	1
Regional Existing 2026	**39**	**21**	**170**	**<1**	**13**	**5**
Area	17	<1	62	<1	<1	<1
Energy	<1	3	2	<1	<1	<1
Mobile	10	7	80	<1	8	1
Onsite Equipment	<1	<1	4	<1	<1	<1
CalEEMod Total	29	12	163	<1	8	2
Emergency Generator	<1	8	4	<1	<1	<1
Spray Booths	9	0	0	0	1	1
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	1	3	<1	<1	<1
Onsite Food Trucks (char broiler)	<1	0	0	0	2	1
Regional Existing 2030	**37**	**20**	**155**	**<1**	**13**	**5**
Area	17	<1	62	<1	<1	<1
Energy	<1	3	2	<1	<1	<1
Mobile	9	5	70	<1	8	1
Onsite Equipment	<1	<1	4	<1	<1	<1
CalEEMod Total	29	12	163	<1	8	2
Emergency Generator	<1	8	4	<1	<1	<1
Spray Booths	9	0	0	0	1	1
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	1	3	<1	<1	<1
Onsite Food Trucks (char broiler)	<1	0	0	0	2	1
Regional Existing 2035	**36**	**18**	**144**	**<1**	**13**	**5**
Area	17	<1	62	<1	<1	<1
Energy	<1	3	2	<1	<1	<1
Mobile	8	5	64	<1	8	1
Onsite Equipment	<1	<1	4	<1	<1	<1
CalEEMod Total	29	12	163	<1	8	2
Emergency Generator	<1	8	4	<1	<1	<1
Spray Booths	9	0	0	0	1	1
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	1	3	<1	<1	<1
Onsite Food Trucks (char broiler)	<1	0	0	0	2	1
Regional Existing 2040	**35**	**18**	**139**	**<1**	**13**	**5**
Area	17	<1	62	<1	<1	<1
Energy	<1	3	2	<1	<1	<1
Mobile	8	4	62	<1	8	1
Onsite Equipment	<1	<1	4	<1	<1	<1
CalEEMod Total	29	12	163	<1	8	2
Emergency Generator	<1	8	4	<1	<1	<1
Spray Booths	9	0	0	0	1	1
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	1	3	<1	<1	<1
Onsite Food Trucks (char broiler)	<1	0	0	0	2	1
Regional Existing 2043	**35**	**17**	**137**	**<1**	**13**	**5**

	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Area	40	0	0	0	0	0
Energy	<1	0	0	0	0	0
Mobile	36	24	271	1	23	4
Onsite Equipment	<1	0	0	0	0	0
CalEEMod Total	75	24	271	1	23	4
Emergency Generator	<1	4	3	0	0	0
Spray Booths	9	0	0	0	1	1
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	3	8	0	2	0
Onsite Food Trucks (char broiler)	<1	0	0	0	4	1
Regional Buildout 2026	**85**	**31**	**282**	**<1**	**30**	**8**
Area	40	0	0	0	0	0
Energy	0	0	0	0	0	0
Mobile	30	19	229	<1	23	4
Onsite Equipment	0	0	0	0	0	0
CalEEMod Total	70	19	229	<1	23	4
Emergency Generator	<1	4	3	<1	<1	<1
Spray Booths	9	0	0	0	1	1
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	3	8	<1	2	<1
Onsite Food Trucks (char broiler)	<1	0	0	0	4	1
Regional Buildout 2030	**80**	**25**	**240**	**<1**	**30**	**8**
Area	40	0	0	0	0	0
Energy	0	0	0	0	0	0
Mobile	26	15	199	<1	22	4
Onsite Equipment	0	0	0	0	0	0
CalEEMod Total	65	15	199	<1	22	4
Emergency Generator	<1	4	3	<1	<1	<1
Spray Booths	9	0	0	0	1	1
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	3	8	<1	2	<1
Onsite Food Trucks (char broiler)	<1	0	0	0	4	1
Regional Buildout 2035	**75**	**22**	**210**	**<1**	**30**	**7**
Area	40	0	0	0	0	0
Energy	0	0	0	0	0	0
Mobile	23	13	183	<1	22	4
Onsite Equipment	0	0	0	0	0	0
CalEEMod Total	63	13	183	<1	22	4
Emergency Generator	<1	4	3	<1	<1	<1
Spray Booths	9	0	0	0	1	1
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	3	8	<1	2	<1
Onsite Food Trucks (char broiler)	<1	<1	<1	<1	4	1
Regional Buildout 2040	**73**	**20**	**194**	**<1**	**30**	**7**
Area	40	<1	<1	<1	<1	<1
Energy	0	0	0	0	0	0
Mobile	22	12	178	<1	22	4
Onsite Equipment	0	0	0	0	0	0
CalEEMod Total	62	12	178	<1	22	4
Emergency Generator	<1	4	3	<1	<1	<1
Spray Booths	9	<1	<1	<1	1	1
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	3	8	<1	2	<1
Onsite Food Trucks (char broiler)	<1	<1	<1	<1	4	1
Regional Buildout 2043	**72**	**19**	**189**	**<1**	**30**	**7**

Project Regional Operational Emissions
Assumes 100% existing is removed for each of the different milestones

	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
2026	46	9	112	<1	17	3
2030	42	6	85	<1	17	3
2035	40	3	66	<1	17	3
2040	38	2	55	<1	17	3
2043	37	2	52	<1	17	3

SUMMARY OF AIR EMISSIONS
Summer
Regional Operation Emissions (Mitigated) (pounds per day)

	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Area	14	<1	49	<1	<1	<1
Energy	<1	2	2	<1	<1	<1
Mobile	10	7	76	<1	6	1
Onsite Equipment	<1	<1	4	<1	<1	<1
CalEEMod Total	24	9	131	<1	7	1
Emergency Generator	<1	7	3	<1	<1	<1
Spray Booths	No change in total use.					
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	1	2	<1	<1	<1
Food Trucks	<1	0	0	0	2	1
80% **Existing Remaining 2026**	**25**	**17**	**136**	**<1**	**9**	**3**
Area	10	<1	37	<1	<1	<1
Energy	<1	2	1	<1	<1	<1
Mobile	6	4	48	<1	5	<1
Onsite Equipment	<1	<1	3	<1	<1	<1
CalEEMod Total	18	7	98	<1	5	1
Emergency Generator	<1	5	2	<1	<1	<1
Spray Booths	No change in total use.					
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	<1	2	<1	<1	<1
Food Trucks	<1	0	0	0	1	<1
60% **Existing Remaining 2030**	**17**	**12**	**93**	**<1**	**7**	**2**
Area	7	<1	25	<1	<1	<1
Energy	<1	1	<1	<1	<1	<1
Mobile	4	2	28	<1	3	<1
Onsite Equipment	<1	<1	2	<1	<1	<1
CalEEMod Total	12	5	65	<1	3	<1
Emergency Generator	<1	3	1	<1	<1	<1
Spray Booths	No change in total use.					
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	<1	1	<1	<1	<1
Food Trucks	<1	0	0	0	<1	<1
40% **Existing Remaining 2035**	**11**	**7**	**58**	**<1**	**5**	**1**
Area	3	<1	12	<1	<1	<1
Energy	<1	<1	<1	<1	<1	<1
Mobile	2	<1	13	<1	2	<1
Onsite Equipment	<1	<1	<1	<1	<1	<1
CalEEMod Total	6	2	33	<1	2	<1
Emergency Generator	<1	2	<1	<1	<1	<1
Spray Booths	No change in total use.					
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	<1	<1	<1	<1	<1
Food Trucks	<1	0	0	0	<1	<1
20% **Existing Remaining 2040**	**5**	**4**	**28**	**<1**	**2**	**<1**
Area	0	0	0	0	0	0
Energy	0	0	0	0	0	0
Mobile	0	0	0	0	0	0
Onsite Equipment	0	0	0	0	0	0
CalEEMod Total	0	0	0	0	0	0
Emergency Generator	0	0	0	0	0	0
Spray Booths	No change in total use.					
Onsite (Truck/Employee/Visitor Travel/Idle)	0	0	0	0	0	0
Food Trucks	0	0	0	0	0	0
0% **Existing Remaining 2043**	**0**	**0**	**0**	**0**	**0**	**0**

	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Area	8	0	0	0	0	0
Energy	0	0	0	0	0	0
Mobile	7	5	54	<1	5	<1
Onsite Equipment	0	0	0	0	0	0
CalEEMod Total	15	5	54	<1	5	<1
Emergency Generator	<1	<1	<1	<1	<1	<1
Spray Booths	No change in total use.					
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	<1	2	<1	<1	<1
Food Trucks	<1	<1	<1	<1	<1	<1
20% **New 2026**	**15**	**6**	**56**	**<1**	**6**	**1**
Area	16	0	0	0	0	0
Energy	0	0	0	0	0	0
Mobile	12	7	92	<1	9	2
Onsite Equipment	0	0	0	0	0	0
CalEEMod Total	28	7	92	<1	9	2
Emergency Generator	<1	2	1	<1	<1	<1
Spray Booths	No change in total use.					
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	1	3	<1	<1	<1
Food Trucks	<1	<1	<1	<1	2	<1
40% **New 2030**	**28**	**10**	**96**	**<1**	**11**	**2**
Area	24	0	0	0	0	0
Energy	0	0	0	0	0	0
Mobile	15	9	119	<1	13	2
Onsite Equipment	0	0	0	0	0	0
CalEEMod Total	39	9	119	<1	13	2
Emergency Generator	<1	2	2	<1	<1	<1
Spray Booths	No change in total use.					
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	2	5	<1	1	<1
Food Trucks	<1	<1	<1	<1	2	<1
60% **New 2035**	**40**	**13**	**126**	**<1**	**17**	**4**
Area	32	0	0	0	0	0
Energy	0	0	0	0	0	0
Mobile	19	10	146	0	18	3
Onsite Equipment	0	0	0	0	0	0
CalEEMod Total	50	10	146	<1	18	3
Emergency Generator	<1	3	3	<1	<1	<1
Spray Booths	No change in total use.					
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	2	6	<1	1	<1
Food Trucks	<1	<1	<1	<1	3	1
80% **New 2040**	**51**	**16**	**155**	**<1**	**23**	**5**
Area	40	<1	<1	<1	<1	<1
Energy	0	0	0	0	0	0
Mobile	22	12	178	<1	22	4
Onsite Equipment	<1	<1	<1	<1	<1	<1
CalEEMod Total	62	12	178	<1	22	4
Emergency Generator	<1	4	3	<1	<1	<1
Spray Booths	No change in total use.					
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	3	8	<1	2	<1
Food Trucks	<1	<1	<1	<1	4	1
100% **New 2043**	**63**	**19**	**189**	**<1**	**28**	**6**

Project Regional Operational Emissions
Assumes percentage of existing uses are removed with buildout %

	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
2026	9	2	22	<1	3	<1
2030	17	2	34	<1	7	1
2035	24	2	39	<1	10	2
2040	30	2	44	<1	14	2
2043	37	2	52	<1	17	3

SUMMARY OF AIR EMISSIONS
Summer
Regional Operation Emissions (Mitigated) (pounds per day)

	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Area	3	<1	12	<1	<1	<1
Energy	<1	<1	<1	<1	<1	<1
Mobile	2	2	19	<1	2	<1
Onsite Equipment	<1	<1	<1	<1	<1	<1
CalEEMod Total	6	2	33	<1	2	<1
Emergency Generator	<1	2	<1	<1	<1	<1
Spray Booths	No change in total use.					
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	<1	<1	<1	<1	<1
Food Trucks	<1	0	0	0	<1	<1
20% **Existing Removed 2026**	**6**	**4**	**34**	**<1**	**2**	**<1**
Area	7	<1	25	<1	<1	<1
Energy	<1	1	<1	<1	<1	<1
Mobile	4	3	32	<1	3	<1
Onsite Equipment	<1	<1	2	<1	<1	<1
CalEEMod Total	12	5	65	<1	3	<1
Emergency Generator	<1	3	1	<1	<1	<1
Spray Booths	No change in total use.					
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	<1	1	<1	<1	<1
Food Trucks	<1	0	0	0	<1	<1
40% **Existing Removed 2030**	**11**	**8**	**62**	**<1**	**5**	**1**
Area	10	<1	37	<1	<1	<1
Energy	<1	2	1	<1	<1	<1
Mobile	5	3	42	<1	5	<1
Onsite Equipment	<1	<1	3	<1	<1	<1
CalEEMod Total	18	7	98	<1	5	1
Emergency Generator	<1	5	2	<1	<1	<1
Spray Booths	No change in total use.					
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	<1	2	<1	<1	<1
Food Trucks	<1	0	0	0	1	<1
60% **Existing Removed 2035**	**16**	**11**	**87**	**<1**	**7**	**2**
Area	14	<1	49	<1	<1	<1
Energy	<1	2	2	<1	<1	<1
Mobile	6	4	51	<1	6	1
Onsite Equipment	<1	<1	4	<1	<1	<1
CalEEMod Total	24	9	131	<1	7	1
Emergency Generator	<1	7	3	<1	<1	<1
Spray Booths	No change in total use.					
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	1	2	<1	<1	<1
Food Trucks	<1	0	0	0	2	1
80% **Existing Removed 2040**	**21**	**14**	**111**	**<1**	**9**	**3**
Area	17	<1	62	<1	<1	<1
Energy	<1	3	2	<1	<1	<1
Mobile	8	4	62	<1	8	1
Onsite Equipment	<1	<1	4	<1	<1	<1
CalEEMod Total	29	12	163	<1	8	2
Emergency Generator	<1	8	4	<1	<1	<1
Spray Booths	No change in total use.					
Onsite (Truck/Employee/Visitor Travel/Idle)	<1	1	3	<1	<1	<1
Food Trucks	<1	<1	<1	<1	2	1
100% **Existing Removed 2043**	**26**	**17**	**137**	**<1**	**11**	**3**

Regional Construction Emissions (Mitigated) (pounds per day)

Construction 100% Intensity (CalEEMod)	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
2023-2026 Max	44	124	268	<1	45	12
2026-2029 Max	40	105	209	<1	45	12
2030-2033 Max	38	99	182	<1	45	12
2035-2038 Max	36	88	150	<1	45	12
2040-2043 Max	34	81	138	<1	45	12
Additional Employee Trips	<1	<1	7	<1	1	<1
Construction 100% Intensity (Onsite)	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
2023-2026 Max	<1	12	8	<1	4	<1
2026-2029 Max	<1	12	8	<1	4	<1
2030-2033 Max	<1	12	8	<1	4	<1
2035-2038 Max	<1	12	8	<1	4	<1
2040-2043 Max	<1	12	8	<1	4	<1

Note: Onsite emissions from truck and employee travel (i.e., idle and travel)

Note: ROG represents architectural Coating/Finishing Phase; All other pollutants represent overlap of excavation and demolition

Combined Regional Construction and Operational Emissions (Mitigated) (pounds per day)

50% Maximum Construction Intensity with Operational Emissions for Milestone Years

	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
2026	**30**	**61**	**138**	**<1**	**29**	**7**
2030	**36**	**58**	**136**	**<1**	**32**	**8**
2035	**43**	**52**	**125**	**<1**	**36**	**8**
2040	**48**	**49**	**124**	**<1**	**39**	**9**
2043	**37**	**2**	**52**	**<1**	**17**	**3**
Max	***48***	***61***	***138***	***0***	***39***	***9***
Threshold	**55**	**55**	**550**	**150**	**150**	**55**
Difference	**(7)**	**6**	**(412)**	**(150)**	**(111)**	**(46)**
Impact	No	Yes	No	No	No	No

Localized Operational Emissions (Mitigated) (pounds per day)

Project Localized Operational Emissions
Assumes 100% existing is removed for each of the different milestones

	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
2026	23	-6	-64	-<1	2.5	-0.1
2030	23	-6	-64	-<1	2.5	-0.1
2035	23	-6	-64	-<1	2.5	-0.1
2040	23	-6	-64	-<1	2.5	-0.1
2043	23	-6	-64	-<1	2.5	-0.1

Project Localized Operational Emissions
Assumes percentage of existing uses are removed with buildout %

	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
2026	19.2	9.2	47.1	0.1	3.3	1.6
2030	20.1	5.3	19.4	0.0	3.1	1.2
2035	21.0	1.4	-8.3	0.0	2.9	0.8
2040	21.8	-2.5	-36.1	-0.1	2.7	0.3
2043	22.7	-6.4	-63.8	-0.2	2.5	-0.1

Localized Construction Emissions (Mitigated) (pounds per day)

Construction 100% Intensity (CalEEMod)	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
2023-2026 Max	30	17	105	<1	5.5	3.0
2026-2029 Max	30	17	105	<1	5.5	3.0
2030-2033 Max	30	17	105	<1	5.5	3.0
2035-2038 Max	30	17	105	<1	5.5	3.0
2040-2043 Max	30	17	105	<1	5.5	3.0

Construction 100% Intensity (Onsite)	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
2023-2026 Max	<1	12	8	<1	4	<1
2026-2029 Max	<1	12	8	<1	4	<1
2030-2033 Max	<1	12	8	<1	4	<1
2035-2038 Max	<1	12	8	<1	4	<1
2040-2043 Max	<1	12	8	<1	4	<1

Note: Onsite emissions from truck and employee travel (i.e., idle and travel)

Combined Localized Construction and Operational Emissions (Mitigated) (pounds per day)

50% Maximum Construction Intensity with Operational Emissions for Milestone Years

	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
2026	**35**	**24**	**104**	**<1**	**8**	**3**
2030	**36**	**20**	**76**	**<1**	**8**	**3**
2035	**36**	**16**	**48**	**<1**	**7**	**3**
2040	**37**	**12**	**20**	**-<1**	**7**	**2**
2043	**23**	**-6.4**	**-63.8**	**-0.2**	**2.5**	**-0.1**
Max	***37***	***24***	***104***	***0***	***8***	***3***
Threshold	**NA**	**119**	**1861**	**NA**	**16**	**8**
Difference		**(95)**	**(1757)**		**(8)**	**(5)**
Impact		No	No		No	No

Note: Existing remaining uses are included in the calculation of localized emissions to evaluate total Project Site emissions for purposes of comparing to SCAQMD LST thresholds.

TVC 2050 Project

Final EIR
Appendix A-2-Comparision of DEIR (CalEEMod 2020) and FEIR (CalEEMod 2022) parameters

- DEIR and FEIR parameters comparison
  - Construction Off-Road Equipment
  - Conceptual Plan (Proposed Development Program)
  - Max Equivalency Scenario (Maximum Land Use Exchange Scenario)

Comparison of CalEEMod 2022.1 vs. CalEEMod 2020.4.0 Construction Off-Road Equipment

CalEEMod 2022.1 provides new default factors for off-road equipment based on updates to the CARB OFFROAD model. In some cases, the default horsepower was substantially different than CalEEMod 2020.4.0. Horsepower rating has a direct relationship with pollutant emissions (i.e. higher horsepower would result in higher emissions). As a conservative assumption, if default horsepower substantially differed between CalEEMod 2022.1 and CalEEMod 2020.4.0, then the higher default horsepower rating was selected. Where CalEEMod 2022.1 default horsepower substantially increased compared to CalEEMod 2020.4.0, no changes to CalEEMod 2022.1 default horsepower were made (e.g., 367 hp crane in CalEEMod 2022.1 versus 231 hp in CalEEMod 2020.4.0). Where CalEEMod 2022.1 default horsepower substantially decreased compared to CalEEMod 2020.4.0 defaults, the CalEEMod 2020.4.0 defaults were conservatively used in this analysis. In some cases, CalEEMod 2022.1 provides a limit on horsepower for which emission factors are available. The maximum horsepower allowed in CalEEMod 2022.1 for these specific pieces of equipment were used in the analysis. A summary of the changes to default horsepower is provided below.

- Air Compressor—CalEEMod 2020.4.0 (78 hp); CalEEMod 2022.1 (37 hp); Analysis used maximum allowed within CalEEMod 2022.1 (49.9 hp).
- Backhoe—CalEEMod 2020.4.0 (97 hp); CalEEMod 2022.1 (84 hp); Analysis used 97 hp.
- Bore Drill Rig—CalEEMod 2020.4.0 (221 hp); CalEEMod 2022.1 (83 hp); Analysis used 221 hp.
- Concrete Pump—CalEEMod 2020.4.0 (84 hp); CalEEMod 2022.1 (11 hp); Analysis used maximum allowed within CalEEMod 2022.1 (49.9 hp).
- Concrete Saw—CalEEMod 2020.4.0 (81 hp); CalEEMod 2022.1 (33 hp); Analysis used maximum allowed within CalEEMod 2022.1 (49.9 hp).
- Excavator—CalEEMod 2020.4.0 (158 hp); CalEEMod 2022.1 (36 hp); Analysis used 158 hp.
- Forklift—CalEEMod 2020.4.0 (89 hp); CalEEMod 2022.1 (82 hp); Analysis used 89 hp.
- Other—CalEEMod 2020.4.0 (172 hp); CalEEMod 2022.1 (82 hp); Analysis uses maximum allowed within CalEEMod 2022.1 (99.9 hp).
- Paving Equipment—CalEEMod 2020.4.0 (132 hp); CalEEMod 2022.1 (89 hp); Analysis used maximum allowed within CalEEMod 2022.1 (99.9 hp).

- Roller—CalEEMod 2020.4.0 (80 hp); CalEEMod 2022.1 (36 hp); Analysis used maximum allowed within CalEEMod 2022.1 (49.9 hp).

- Trencher—CalEEMod 2020.4.0 (78 hp); CalEEMod 2022.1 (40 hp); Analysis used maximum allowed within CalEEMod 2022.1 (49.9 hp).

CalEEMod 2020

Land Use	Floor Area		CalEEMod 2020 Demand Rate (KWh/sf/yr)	CalEEMod 2020 Natural Gas Usage (KBTU/sf/yr)	Rate LU Category	Rate Source	Solid Waste	Indoor Water Usage (Mgal)	Outdoor Water Usage (Mgal)	Electricity from Water Usage (KWh/yr)	Electricity (Building) (KWh/yr)	Total Demand Electricity (KWh/yr)	Total Natural Gas Demand (KBtu/yr)	Weekday Trips	Saturday Trips	Sunday Trips	Weekday VMT	Saturday VMT	Sunday VMT	Total VMT
Existing Uses																				
Sound Stages	95,540	sf	15.24	12.44	Industrial Park	CalEEMod 2020	28.0	22	-	245,482	1,456,030	1,456,030	1,188,518							
Production Support	325,450	sf	13.07	1.63	Strip Mall	CalEEMod 2020	95.2	75	-	836,217	4,253,632	4,253,632	530,484							
Production and General Office	322,690	sf	15.24	12.44	General Office Building	CalEEMod 2020	70.8	57	35	979,169	4,917,796	4,917,796	4,014,264							
Parking Lot	600,000	sf	0.88	0.00	Parking Lot	CalEEMod 2020		-	-	-	528,000	528,000	0							
SubTotal	**743,680**	sf								**2,060,869**	**11,155,457**	**11,155,457**	**5,733,265**							
Solar Array						2019 TVC Site						-1,617,000	NA							
EV Chargers												30,248	NA							
Miscellaneous (Signage)												37,609								
TOTAL							**194.0**	**154.7**	**35.2**			**9,606,314**	**5,733,265**	**3,891**	**1,128**	**376**	**28,021**	**8,123**	**2,708**	**7,847,050**
											Total Combined Electricity (KWh/yr):	**11,667,183**								

-Land use square footages are provided in Table II-2, Proposed Development Program, of the Draft EIR. Parking square footage is based on 1,510 surface parking spaces using default CalEEMod conversion (Page IV.K-22 of Section IV.K, Transportation, of the Draft EIR; CalEEMod 2020 User Guide, Appendix A, p. 18)
-Demand rates are based on CalEEMod 2020 default historical data (accounts for older buildings by adjusting energy usage to 2005 Title 24 standards) with sound stages as industrial park. Note that TVC's utility bills showed 17,193,552 kwh/yr and 30,828,415 kbtu/y for Year 2021. Thus, use of CalEEMod factors would conservatively represent operation of the older studio uses (1952) since Project emissions would be compared to a lower baseline using CalEEMod factors instead of TVC utility bills.
-While CalEEMod provides 79 different land use types, some of the studio-related land uses that are proposed as part of the Project are not specifically included in CalEEMod. Therefore, sound stages and production support were represented by the land use type within CalEEMod most reflective of the types of operations which would occur on these portions of the Project facility. As an example, the CalEEMod strip mall land use type was selected to represent production support (included as user defined industrial). Production support includes a wide variety of studio-related uses. To provide perspective, CalEEMod provides an electricity usage rate of 10.86 kW/sf/yr for general light industry uses and 12.5 kW/sf/yr for medical office buildings. As such, use of the CalEEMod strip mall land use type for production support uses is conservative and likely overstates utility usage.
-Water usage rates are from CalEEMod 2020 output files. Indoor water results in 0.0111 kWhr of electricity usage per gallon from delivery, treatment, and distribution of water within Southern California (CalEEMod). Outdoor water results in 0.009727 kWhr of electricity usage per gallon from delivery and distribution of water within Southern California (CalEEMod).
-Weekday vehicle trips are based on Appendix M - Transportation of the Draft EIR.
-Number may not add up exactly due to rounding.

CalEEMod 2022

Land Use	Floor Area		CalEEMod 2022 Demand Rate (KWh/sf/yr)	CalEEMod 2022 Natural Gas Usage (KBTU/sf/yr)	Rate LU Category	Rate Source	Solid Waste	Indoor Water Usage (Mgal)	Outdoor Water Usage (Mgal)	Electricity from Water Usage (KWh/yr)	Electricity (Building) (KWh/yr)	Total Demand Electricity (KWh/yr)	Total Natural Gas Demand (KBtu/yr)	Weekday Trips	Saturday Trips	Sunday Trips	Weekday VMT	Saturday VMT	Sunday VMT	Total VMT
Existing Uses																				
Sound Stages	95,540	sf	15.93	20.09	Industrial Park	CalEEMod 2022	28.0	22	-	150,391	1,521,833	1,521,833	1,919,576							
Production Support	325,450	sf	9.96	4.92	Strip Mall	CalEEMod 2022	80.6	24	-	164,096	3,240,354	3,240,354	1,602,562							
Production and General Office	322,690	sf	15.93	20.09	General Office Building	CalEEMod 2022	70.8	57	-	390,401	5,140,048	5,140,048	6,483,442							
Parking Lot	600,000	sf	0.00	0.00	Parking Lot	CalEEMod 2022		-	-	-	0	0	0							
SubTotal	**743,680**	sf								**704,888**	**9,902,236**	9,902,236	**10,005,580**							
Solar Array						2019 TVC Site						-1,617,000	NA							
EV Chargers												30,248	NA							
Miscellaneous (Signage)												37,609								
TOTAL							**179.3**	**103.6**	**-**			**8,353,093**	**10,005,580**	**3,891**	**1,128**	**376**	**28,021**	**8,123**	**2,708**	**7,870,495**
											Total Combined Electricity (KWh/yr):	**9,057,981**								

-Land use square footages are provided in Table II-2, Proposed Development Program, of the Draft EIR. Parking square footage is based on 1,510 surface parking spaces (Page IV.K-22 of Section IV.K, Transportation, of the Draft EIR).
-Demand rates are based on CalEEMod 2022 default factors that account for 2019 Title 24 standards. CalEEMod 2022 does not provide historical data as an input. See above regarding representative land uses.
-Water usage rates are from CalEEMod 2022 output files. Indoor water results in 0.006807 kWhr of electricity usage per gallon from delivery, treatment, and distribution of water within Southern California (CalEEMod). Outdoor water results in 0.005306 kWhr of electricity usage per gallon from delivery and distribution of water within Southern California (CalEEMod).

CalEEMod 2020

Land Use	Floor Area		CalEEMod 2020 Demand Rate (KWh/sf/yr)	CalEEMod 2020 Natural Gas Usage (KBTU/sf/yr)	Rate LU Category	Rate Source	Solid Waste	Indoor Water Usage (Mgal)	Outdoor Water Usage (Mgal)	Electricity from Water Usage (KWh/yr)	Electricity (Building) (KWh/yr)	Total Demand with 25% Reduction in Lighting LEED and Solar (KWh/yr)	Total Natural Gas Demand (KBtu/yr)	Weekday Trips	Saturday Trips	Sunday Trips	Weekday VMT	Saturday VMT	Sunday VMT	Total VMT
Conceptual Land Use Program																				
Sound Stages	350,000	sf	11.34	10.31	Sound Stages	MBS (2017-2018 average demand)	102.424	81	-	899,297	3,969,000	3,969,000	3,608,500							
Production Support	104,000	sf	13.07	1.63	Strip Mall	CalEEMod 2020	30.444	24	-	267,220	1,359,280	1,196,520	169,520							
Production and General Office	1,400,000	sf	12.50	10.31	General Office Building	CalEEMod 2020	307.272	249	153	4,248,155	17,500,000	16,180,500	14,434,000							
Retail*	15,000	sf	13.07	1.63	Strip Mall	CalEEMod 2020	3.717	1	1	18,969	196,050	172,575	24,450							
Restaurant*	5,000	sf	43.27	230.33	Restaurant	CalEEMod 2020	14.042	2	0	17,805	216,350	206,512	1,151,650							
Enclosed Parking Structure	1,040,000	sf	2.35	0.00	Enclosed PS with Elevator	CalEEMod 2020					2,444,000	1,989,000	0							
Unenclosed Parking Structure	1,080,000	sf	1.94	0.00	Unenclosed PS with Elevator	CalEEMod 2020					2,095,200	1,622,700	0							
SubTotal	**1,874,000**									**5,451,446**	**27,779,880**	**25,336,807**	**19,388,120**							
Solar Array												-2,000,000	NA							
EV Chargers												1,283,306	NA							
Miscellaneous (Basecamp and Mobility Hub Lighting and Ventilation, Basecamp Electrical Connections and Mobility Hub EV Chargers, Signage, and Methane Gas Extraction)												84,545	NA							
TOTAL							**457.9**	**356.4**	**153.3**			**24,704,659**	**19,388,120**	**11,346**	**3,290**	**1,098**	**79,629**	**23,089**	**7,703**	**22,310,515**
											Total Combined Electricity (KWh/yr):	**30,156,105**								

-Land use square footages are provided in Table II-2, Proposed Development Program, of the Draft EIR and assumes 5k of permitted retail may be developed as ancillary restaurant/commissary uses. Parking square footage is based on 5,300 parking spaces (Page IV.K-24 of Section IV.K, Transportation, of the Draft EIR).
-An electricity usage rate for the proposed sound stages was developed based on 2017-2018 utility bills from Manhattan Beach Studios (MBS) in which electricity bills were separately available for each sound stage. To develop a future stage kW/sf/yr rate that would reflect a more modern-energy efficient use, the total annual electricity usage for the MBS stages was divided by the total square footage of stages, resulting in a rate of 11.34 kWh/sf/yr. Natural gas meters at MBS were not directly metered for each individual stage and, therefore, the same calculation method was not available. Instead, the Draft EIR used the CalEEMod land use type of industrial park to represent the proposed stages. See calculation sheet for adjustment included for ventilation electricity associated with enclosed parking structures.
-As discussed on Page IV.E-79 of the Draft EIR, a 25% reduction in lighting was included since CalEEMod 2020 factors did not take into account for 2019 Title 24 standards. Also, no additional reduction was included for sound stages since the electricity rates reflect a newer studio use.
-Subsequent to completion of the Draft EIR, City of Los Angeles passed Ordinance No. 187714 whic requires all new buildings to be all-electric with a few exceptions. A conversion to all eletric was not conducted for the CalEEMod 2020 modeling prepared in the Draft EIR.
-Please see attached calculation sheet for miscellaneous electrical sources across the Project Site.
-Water usage rates are from CalEEMod output files. Indoor water results in 0.0111 kWhr of electricity usage per gallon from delivery, treatment, and distribution of water within Southern California (CalEEMod). Outdoor water results in 0.009727 kWhr of electricity usage per gallon from delivery and distribution of water within Southern California (CalEEMod).
-Transportation trips are from the Transportation Assessment.

CalEEMod 2022

Land Use	Floor Area		CalEEMod 2022 Demand Rate (KWh/sf/yr)	CalEEMod 2022 Natural Gas Usage (KBTU/sf/yr)	Rate LU Category	Rate Source	Solid Waste	Indoor Water Usage (Mgal)	Outdoor Water Usage (Mgal)	Electricity from Water Usage (KWh/yr)	Electricity (Building) (KWh/yr)	Total Demand (KWh/yr)	Total Natural Gas Demand (KBtu/yr)	Weekday Trips	Saturday Trips	Sunday Trips	Weekday VMT	Saturday VMT	Sunday VMT	Total VMT
Conceptual Land Use Program																				
Sound Stages	350,000	sf	11.34	20.09	Sound Stages	MBS (2017-2018 average demand)	102.424	81		550,942	3,969,000	3,969,000	7,032,151							
Production Support	104,000	sf	9.96	4.92	Strip Mall	CalEEMod 2022	25.7712	8		52,438	1,035,480	1,035,480	512,111							
Production and General Office	1,400,000	sf	15.93	20.09	General Office Building	CalEEMod 2022	307.272	249	1	1,701,507	22,300,250	22,300,250	28,128,602							
Retail*	15,000	sf	9.96	4.92	Strip Mall	CalEEMod 2022	3.717	1		7,563	149,348	149,348	73,862							
Restaurant*	5,000	sf	32.57	94.73	Restaurant	CalEEMod 2022	14.042	2		10,331	162,850	162,850	473,648							
Enclosed Parking Structure	1,040,000	sf	3.69	0.00	Enclosed PS with Elevator	CalEEMod 2022	0				3,839,089	3,839,089	0							
Unenclosed Parking Structure	1,080,000	sf	2.82	0.00	Unenclosed PS with Elevator	CalEEMod 2022	0				3,043,440	3,043,440	0							
SubTotal	**1,874,000**									**2,322,780**	**34,499,457**	**34,499,457**	**36,220,374**							
Solar Array												-2,000,000	NA							
EV Chargers												1,283,306	NA							
Miscellaneous (Basecamp and Mobility Hub Lighting and Ventilation, Basecamp Electrical Connections and Mobility Hub EV Chargers, Signage, and Methane Gas Extraction)												84,545	NA							
TOTAL							**453.2**	**340.1**	**1.5**			**33,867,309**	**36,220,374**	**11,346**	**3,290**	**1,098**	**79,629**	**23,089**	**7,703**	**22,366,001**
Conversion of natural gas to electricity usage per City of Los Angeles Ordinance No. 187714 (All-Electric)												11,606,918								
											Total Combined Electricity (KWh/yr):	**47,797,007**	**0**							

-Land use square footages are provided in Table II-2, Proposed Development Program, of the Draft EIR and assumes 5k of permitted retail may be developed as ancillary restaurant/commissary uses. Parking square footage is based on 5,300 parking spaces (Page IV.K-24 of Section IV.K, Transportation, of the Draft EIR).
-Demand rates are based on CalEEMod 2022 default factors that account for 2019 Title 24 standards.
-An electricity usage rate for the proposed sound stages was developed based on 2017-2018 utility bills from Manhattan Beach Studios (MBS) in which electricity bills were separately available for each sound stage. To develop a future stage kW/sf/yr rate that would reflect a more modern-energy efficient use, the total annual electricity usage for the MBS stages was divided by the total square footage of stages, resulting in a rate of 11.34 kWh/sf/yr. Natural gas meters at MBS were not directly metered for each individual stage and, therefore, the same calculation method was not available. Instead, consistent with the Draft EIR, the CalEEMod land use type of industrial park was used to represent the proposed stages. See calculation sheet for adjustment included for ventilation electricity associated with enclosed parking structures.
-No reduction in lighting was inlcuded since CalEEMod 2022 factors account for 2019 Title 24 standards.
-Includes conversion from natural gas to electricity (City of LA Ordinance 187714) consistent with California Air Pollution Control Officers Association (CAPCOA) Handbook for Analyzing Greenhouse Gas Emissions Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity. Appendix C. Table E-15. December 2021. See attached calculation sheet.
-Please see attached calculation sheet for miscellaneous electrical sources across the Project Site.
-Water usage rates are from CalEEMod 2022 output files. Indoor water results in 0.006807 kWhr of electricity usage per gallon from delivery, treatment, and distribution of water within Southern California (CalEEMod). Outdoor water results in 0.005306 kWhr of electricity usage per gallon from delivery and distribution of water within Southern California (CalEEMod).

CalEEMod 2020

Land Use	Floor Area		CalEEMod 2020 Demand Rate (KWh/sf/yr)	CalEEMod 2020 Natural Gas Usage (KBTU/sf/yr)	Rate LU Category	Rate Source	Solid Waste	Indoor Water Usage (Mgal)	Outdoor Water Usage (Mgal)	Electricity from Water Usage (KWh/yr)	Electricity (Building) (KWh/yr)	Total Demand with 25% Reduction in Lighting LEED and Solar (KWh/yr)	Total Natural Gas Demand (KBtu/yr)	Weekday Trips	Saturday Trips	Sunday Trips	Weekday VMT	Saturday VMT	Sunday VMT	Total VMT
Land Use Exchange--Max VMT/Natural Gas Usage Scenario																				
Sound Stages	450,000	sf	11.34	10.31	Sound Stages	MBS (2017-2018 average demand)	131.688	104	-	1,156,238	5,103,000	5,103,000	4,639,500							
Production Support	4,000	sf	13.07	1.63	Strip Mall	CalEEMod 2020	1.18	1	-	10,278	52,280	46,020	6,520							
Production and General Office	1,400,000	sf	12.50	10.31	General Office Building	CalEEMod 2020	307.272	249	153	4,248,155	17,500,000	16,180,500	14,434,000							
Retail*	15,000	sf	13.07	1.63	Strip Mall	CalEEMod 2020	3.717	1	1	18,969	196,050	172,575	24,450							
Restaurant*	5,000	sf	43.27	230.33	Restaurant	CalEEMod 2020	14.042	2	0	17,805	216,350	206,512	1,151,650							
Enclosed Parking Structure	1,040,000	sf	2.35	0.00	Enclosed PS with Elevator	CalEEMod 2020	0	-	-		2,444,000	1,989,000	0							
Unenclosed Parking Structure	1,080,000	sf	1.94	0.00	Unenclosed PS with Elevator	CalEEMod 2020	0	0	0		2,095,200	1,622,700	0							
SubTotal	**1,874,000**									**5,451,446**	**27,606,880**	**25,320,307**	**20,256,120**							
Solar Array												-2,000,000	NA							
EV Chargers												1,283,306	NA							
Miscellaneous (Basecamp and Mobility Hub Lighting and Ventilation, Basecamp Electrical Connections and Mobility Hu EV Chargers, Signage, and Methane Gas Extraction)												585	NA							
TOTAL							**457.9**	**356.4**	**153.3**			**24,604,198**	**20,256,120**	**12,555**	**3,641**	**1,215**	**89,468**	**25,942**	**8,655**	**25,074,870**
											Total Combined Electricity (KWh/yr):	**30,055,644**								

-See assumptions for CalEEMod 2020 Conceptual Land Use Plan. This scenario assumes 100,000 sf of production support would be converted to sound stages.

CalEEMod 2022

Land Use	Floor Area		CalEEMod 2022 Demand Rate (KWh/sf/yr)	CalEEMod 2022 Natural Gas Usage (KBTU/sf/yr)	Rate LU Category	Rate Source	Solid Waste	Indoor Water Usage (Mgal)	Outdoor Water Usage (Mgal)	Electricity from Water Usage (KWh/yr)	Electricity (Building) (KWh/yr)	Total Demand (KWh/yr)	Total Natural Gas Demand (KBtu/yr)	Weekday Trips	Saturday Trips	Sunday Trips	Weekday VMT	Saturday VMT	Sunday VMT	Total VMT
Land Use Exchange--Max VMT/Natural Gas Usage Scenario																				
Sound Stages	450,000	sf	11.34	20.09	Sound Stages	MBS (2017-2018 average demand)	131.688	104	-	708,353	5,103,000	5,103,000	9,041,336							
Production Support	4,000	sf	9.96	4.92	Strip Mall	CalEEMod 2022	0.9912	0	0	2,531	39,826	39,826	19,697							
Production and General Office	1,400,000	sf	12.50	10.31	General Office Building	CalEEMod 2022	307.272	249	1	1,701,507	22,300,250	22,300,250	28,128,602							
Retail*	15,000	sf	9.96	4.92	Strip Mall	CalEEMod 2022	3.717	1	-	7,563	149,348	149,348	73,862							
Restaurant*	5,000	sf	32.57	94.73	Restaurant	CalEEMod 2022	14.042	2	-	10,331	162,850	162,850	473,648							
Enclosed Parking Structure	1,040,000	sf	3.69	0.00	Enclosed PS with Elevator	CalEEMod 2022	0	-	-		3,839,089	3,839,089	0							
Unenclosed Parking Structure	1,080,000	sf	2.82	0.00	Unenclosed PS with Elevator	CalEEMod 2022	0	0	0		3,043,440	3,043,440	0							
SubTotal	**1,874,000**									**2,430,285**	**34,637,803**	**34,637,803**	**37,737,146**							
Solar Array												-2,000,000	NA							
EV Chargers												1,283,306	NA							
Miscellaneous (Basecamp and Mobility Hub Lighting and Ventilation, Basecamp Electrical Connections and Mobility Hub EV Chargers, Signage, and Methane Gas Extraction)												585	NA							
TOTAL							**457.7**	**355.8**	**1.6**			**33,921,695**	**37,737,146**	**11,457**	**3,322**	**1,108**	**80,418**	**23,318**	**7,780**	**22,587,660**
Conversion of natural gas to electricity usage per City of Los Angeles Ordinance No. 187714 (All-Electric)												11,799,118								
											Total Combined Electricity (KWh/yr):	**48,151,098**								

-See assumptions for CalEEMod 2022 Conceptual Land Use Plan. This scenario assumes 100,000 sf of production support would be converted to sound stages.

Comparisons

Land Use	Solid Waste	Total Water Usage (Mgal)			Total Demand (KWh/yr)		Total Natural Gas Demand (KBtu/yr)	Weekday Trips	Saturday Trips	Sunday Trips	Weekday VMT	Saturday VMT	Sunday VMT	Total VMT
Conceptual Build less Existing (CalEEMod 2020)	264	320			16,624,423		13,654,855	7,455	2,162	722	51,608	14,966	4,995	14,463,465
Conceptual Build less Existing (CalEEMod 2022)	**274**	**238**			**24,597,221**		**26,214,794**	7,455	2,162	722	51,608	14,966	4,995	14,495,506
Max VMT Build less Existing (CalEEMod 2020)	264	320			16,451,423		14,522,855	8,664	2,513	839	61,447	17,819	5,947	17,227,820
Max VMT Build less Existing (CalEEMod 2022)	**278**	**254**			**24,735,568**		**27,731,565**	7,566	2,194	732	52,397	15,195	5,072	**14,717,165**
Conceptual Build less Existing (CalEEMod 2022 versus CalEEMod 2020) %	**3.7%**	**-34.4%**			**32.4%**		**47.9%**	**0.0%**	**0.0%**	**0.0%**	**0.0%**	**0.0%**	**0.0%**	**0.2%**
Max VMT less Existing (CalEEMod 2022 versus CalEEMod 2020) %	**5.2%**	**-26.0%**			**33.5%**		**47.6%**	**-14.5%**	**-14.5%**	**-14.6%**	**-17.3%**	**-17.3%**	**-17.3%**	**-17.1%**

-Solid Waste Generation
-Initial Study, Appendix A of the Draft EIR, shows existing 340.3 tpy and buildout of 1,068 tpy; Net 728 tpy and includes a 76.4% diversion rate
-Appendix B, Air Quality and GHG emissions, of the Draft EIR. CalEEMod 2020 modeling shows a net of 264 tpy.
-CalEEMod 2022 in this Final EIR shows a net of 274 tpy **(While the Initial Study provided an overall increase in net solid waste geneation in comparison to CalEEMod, use of CalEEMod default rates across all sources resulted in more total GHG emissions. Therefore, use of CalEEMod defaults for solid waste generation were used in both the Draft EIR and Final EIR. It should also be noted that solid waste generation GHG emissions represent less than one percent of total Project GHG emissions. Furthermore, use of CalEEMod 2022 results in a slight increase in net GHG emissions in comparison to CalEEMod 2020 (Draft EIR).**
-Water Use
-Table IV.M.1-5 in Section IV.M.1, Utilities--Water Supply and Infrastructure, of the Draft EIR provides 44,662 gpd or 16,301,630 gpy for existing conditions and 316,710 gpd or 115,598,968 gpy for Buildout; net of 268,514 gpd or 99,297,338 gpy.
-Appendix B, Air Quality and GHG emissions, of the Draft EIR provides 189,858,620 gpy; Buildout 509,728,388 gpy; net of 319,869,768 gpy which is more conservative than Table IV.M.1-5.
-CalEEMod 2022 in this Final EIR shows a net of 238,000 gpy. Although CalEEMod 2020 has a larger net water usage, CalEEMod 2022 has a new methodology for calculating outdoor water usage based on landscape sf (Landscape sf provided in Section II, Project Description, of the Draft EIR). Also, CalEEMod default water usage is well above the net water usage provided in Table IV.M.1-5 **(CalEEMod 2022 default water usage reflects a conservative estimate of total Project water usage)**
-Electricity Use
-Existing utility bills show 17,193,552 kwh/yr for Year 2021.
-Appendix B, Air Quality and GHG emissions, of the Draft EIR. CalEEMod 2020 modeling shows 11,155,457 kw/yr existing and 25,336,807 kw/yr for buildout of building envelope; net 14,181,350 kw/yr
-CalEEMod 2022 in this Final EIR shows 9,902,236 kw/yr existing and 25,336,807 kw/yr for buildout of building envelope; net 15,434,571 kw/yr. **(CalEEMod 2022 default electricity usage results in an increase in net electricity usage in comparison to CalEEMod 2020 (Draft EIR). Note that TVC's utility bills showed 17,193,552 kwh/yr for Year 2021. Thus, use of CalEEMod factors would conservatively represent operation of the older studio uses (1952) since Project emissions would be compared to a lower baseline using CalEEMod factors instead of TVC utility bills.)**
Natural Gas Use
-Existing utility bills show 30,828,415 kbtu/yr for Year 2021.
-Appendix B, Air Quality and GHG emissions, of the Draft EIR. CalEEMod 2020 modeling shows 5,733,265 kbtu/yr and 19,388,120 kBtu/yr; net 13,654,855 kbtu/yr
-CalEEMod 2022 in this Final EIR shows 10,005,580 kbtu/yr existing and 36,220,374 kBtu/yr buildout; net 26,214,794 kbtu/yr **(CalEEMod 2022 default natural gas usage results in an increase in net natural gas usage in comparison to CalEEMod 2020 (Draft EIR). Note that TVC's utility bills showed 30,828,415 kbtu/yr in Year 2021. Thus, use of CalEEMod factors would conservatively represent operation of the older studio uses (1952) since Project emissions would be compared to a lower baseline using CalEEMod factors instead of TVC utility bills.)**
-VMT
-Overall VMT for CalEEMod 2020 and 2022 are similar with slight differences as a result of how trips and VMT are enetered into the model. However, please note that the Max VMT scenario in the Draft EIR did not include full TDM as did the Conceptual Plan trip and VMT calcuation. Thus, this Final EIR analysis includes the full TDM measures for the Max VMT scenario and results in a reduction of approximately 17 percent in VMT. THe LADOT VMT Calculator outputfile for the Max VMT scenario including full TDM is attached.

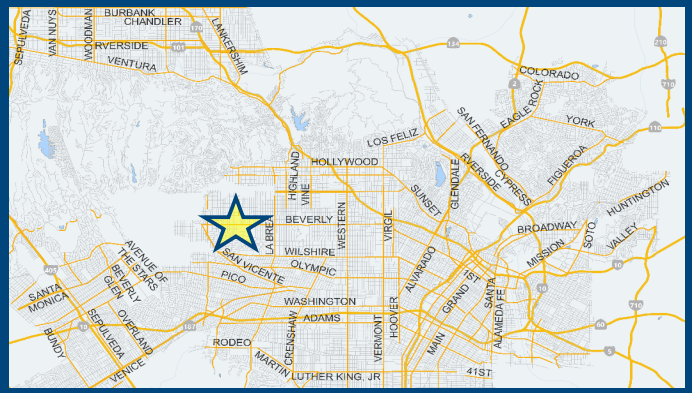
CITY OF LOS ANGELES VMT CALCULATOR Version 1.3

Project Information

Project: Television City 2050 Specific Plan

Scenario: Max Impact Scenario 1 - Full TDM

Address: 7800 W BEVERLY BLVD, 90036



Proposed Project Land Use Type	Value	Unit
Retail | High-Turnover Sit-Down Restaurant	20	ksf
Office | General Office	0.001	ksf
(custom) Studio, Production, and Office | Retail/N	Non-Retail	LU type
(custom) Studio, Production, and Office | Resider	0	Person
(custom) Studio, Production, and Office | Employ	8108	Person
(custom) Studio, Production, and Office | Daily	16221	Trips
(custom) Studio, Production, and Office | HBW-A	52	Percent
(custom) Studio, Production, and Office | HBO-At	24	Percent
(custom) Studio, Production, and Office | NHB-At	12	Percent
(custom) Studio, Production, and Office | HBW-P	0	Percent
(custom) Studio, Production, and Office | HBO-Pr	0	Percent
(custom) Studio, Production, and Office | NHB-Pr	12	Percent

TDM Strategies

Select each section to show individual strategies

Use ☑ to denote if the TDM strategy is part of the proposed project or is a mitigation strategy

	Proposed Project	With Mitigation
Max Home Based TDM Achieved?	**No**	**No**
Max Work Based TDM Achieved?	**No**	**No**

A Parking

B Transit

C Education & Encouragement

Voluntary Travel Behavior Change Program: 100 percent of employees and residents participating
☐ Proposed Prj ☐ Mitigation

Promotions & Marketing: 100 percent of employees and residents participating
☑ Proposed Prj ☐ Mitigation

D Commute Trip Reductions

E Shared Mobility

F Bicycle Infrastructure

G Neighborhood Enhancement

Analysis Results

Proposed Project	With
11,457 Daily Vehicle Trips	**11,457** Daily Vehicle Trips
80,418 Daily VMT	**80,418** Daily VMT
0.0 Household VMT per Capita	**0.0** Household VMT
4.8 Work VMT per Employee	**4.8** Work VMT per Employee

Significant VMT Impact?

Proposed Project	With
Household: No Threshold = 6.0 15% Below APC	**Household: No** Threshold = 6.0 15% Below APC
Work: No Threshold = 7.6 15% Below APC	**Work: No** Threshold = 7.6 15% Below APC

Measuring the Miles

CITY OF LOS ANGELES VMT CALCULATOR

Report 1: Project & Analysis Overview

Date: March 1, 2023
Project Name: Television City 2050 Specific Plan
Project Scenario: Max Impact Scenario 1 - Full TDM
Project Address: 7800 W BEVERLY BLVD, 90036

Version 1.3

Project Information			
Land Use Type		**Value**	**Units**
Housing	*Single Family*	*0*	*DU*
	Multi Family	*0*	*DU*
	Townhouse	*0*	*DU*
	Hotel	*0*	*Rooms*
	Motel	*0*	*Rooms*
Affordable Housing	*Family*	*0*	*DU*
	Senior	*0*	*DU*
	Special Needs	*0*	*DU*
	Permanent Supportive	*0*	*DU*
Retail	*General Retail*	*0.000*	*ksf*
	Furniture Store	*0.000*	*ksf*
	Pharmacy/Drugstore	*0.000*	*ksf*
	Supermarket	*0.000*	*ksf*
	Bank	*0.000*	*ksf*
	Health Club	*0.000*	*ksf*
	High-Turnover Sit-Down Restaurant	20.000	ksf
	Fast-Food Restaurant	*0.000*	*ksf*
	Quality Restaurant	*0.000*	*ksf*
	Auto Repair	*0.000*	*ksf*
	Home Improvement	*0.000*	*ksf*
	Free-Standing Discount	*0.000*	*ksf*
	Movie Theater	*0*	*Seats*
Office	General Office	0.001	ksf
	Medical Office	*0.000*	*ksf*
Industrial	*Light Industrial*	*0.000*	*ksf*
	Manufacturing	*0.000*	*ksf*
	Warehousing/Self-Storage	*0.000*	*ksf*
School	*University*	*0*	*Students*
	High School	*0*	*Students*
	Middle School	*0*	*Students*
	Elementary	*0*	*Students*
	Private School (K-12)	*0*	*Students*
Other	Studio, Production, and Office	16221	Trips

CITY OF LOS ANGELES VMT CALCULATOR

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Analysis Results

Total Employees: 8,188
Total Population: 0

Proposed Project		*With Mitigation*	
11,457	**Daily Vehicle Trips**	**11,457**	**Daily Vehicle Trips**
80,418	**Daily VMT**	**80,418**	**Daily VMT**
0	**Household VMT per Capita**	**0**	**Household VMT per Capita**
4.8	**Work VMT per Employee**	**4.8**	**Work VMT per Employee**

Significant VMT Impact?

APC: Central

Impact Threshold: 15% Below APC Average
Household = 6.0
Work = 7.6

Proposed Project		*With Mitigation*	
VMT Threshold	**Impact**	**VMT Threshold**	**Impact**
Household > 6.0	No	Household > 6.0	No
Work > 7.6	No	Work > 7.6	No

CITY OF LOS ANGELES VMT CALCULATOR

Report 2: TDM Inputs

Date: March 1, 2023
Project Name: Television City 2050 Specific Plan
Project Scenario: Max Impact Scenario 1 - Full TDM
Project Address: 7800 W BEVERLY BLVD, 90036

Version 1.3

TDM Strategy Inputs

Strategy Type		Description	Proposed Project	Mitigations
Parking	*Reduce parking supply*	*City code parking provision (spaces)*	*0*	*0*
		Actual parking provision (spaces)	*0*	*0*
	Unbundle parking	*Monthly cost for parking ($)*	*$0*	*$0*
	Parking cash-out	*Employees eligible (%)*	*0%*	*0%*
	Price workplace parking	*Daily parking charge ($)*	*$0.00*	*$0.00*
		Employees subject to priced parking (%)	*0%*	*0%*
	Residential area parking permits	*Cost of annual permit ($)*	*$0*	*$0*

(cont. on following page)

CITY OF LOS ANGELES VMT CALCULATOR

Report 2: TDM Inputs

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TDM Strategy Inputs, Cont.

Strategy Type		Description	Proposed Project	Mitigations
Transit	*Reduce transit headways*	*Reduction in headways (increase in frequency) (%)*	*0%*	*0%*
		Existing transit mode share (as a percent of total daily trips) (%)	*0%*	*0%*
		Lines within project site improved (<50%, >=50%)	*0*	*0*
	Implement neighborhood shuttle	*Degree of implementation (low, medium, high)*	*0*	*0*
		Employees and residents eligible (%)	*0%*	*0%*
	Transit subsidies	*Employees and residents eligible (%)*	*0%*	*0%*
		Amount of transit subsidy per passenger (daily equivalent) ($)	*$0.00*	*$0.00*
Education & Encouragement	*Voluntary travel behavior change program*	*Employees and residents participating (%)*	*0%*	*0%*
	Promotions and marketing	Employees and residents participating (%)	100%	100%

(cont. on following page)

CITY OF LOS ANGELES VMT CALCULATOR

Report 2: TDM Inputs

Date: March 1, 2023
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Project Scenario: Max Impact Scenario 1 - Full TDM
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TDM Strategy Inputs, Cont.

Strategy Type		Description	Proposed Project	Mitigations
Commute Trip Reductions	*Required commute trip reduction program*	*Employees participating (%)*	*0%*	*0%*
	Alternative Work Schedules and Telecommute	*Employees participating (%)*	*0%*	*0%*
		Type of program	*0*	*0*
	Employer sponsored vanpool or shuttle	Degree of implementation (low, medium, high)	low	low
		Employees eligible (%)	100%	100%
		Employer size (small, medium, large)	large	large
	Ride-share program	Employees eligible (%)	100%	100%
Shared Mobility	*Car share*	*Car share project setting (Urban, Suburban, All Other)*	*0*	*0*
	Bike share	Within 600 feet of existing bike share station - OR- implementing new bike share station (Yes/No)	Yes	Yes
	School carpool program	*Level of implementation (Low, Medium, High)*	*0*	*0*

(cont. on following page)

CITY OF LOS ANGELES VMT CALCULATOR

Report 2: TDM Inputs

Date: March 1, 2023
Project Name: Television City 2050 Specific Plan
Project Scenario: Max Impact Scenario 1 - Full TDM
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TDM Strategy Inputs, Cont.

Strategy Type		Description	Proposed Project	Mitigations
Bicycle Infrastructure	*Implement/Improve on-street bicycle facility*	*Provide bicycle facility along site (Yes/No)*	*0*	*0*
	Include Bike parking per LAMC	Meets City Bike Parking Code (Yes/No)	Yes	Yes
	Include secure bike parking and showers	Includes indoor bike parking/lockers, showers, & repair station (Yes/No)	Yes	Yes
Neighborhood Enhancement	Traffic calming improvements	Streets with traffic calming improvements (%)	25%	25%
		Intersections with traffic calming improvements (%)	25%	25%
	Pedestrian network improvements	Included (within project and connecting off-site/within project only)	within project and connecting off-site	within project and connecting off-site

CITY OF LOS ANGELES VMT CALCULATOR

Report 3: TDM Outputs

Date: March 1, 2023
Project Name: Television City 2050 Specific Plan
Project Scenario: Max Impact Scenario 1 - Full TDM
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Version 1.3

TDM Adjustments by Trip Purpose & Strategy

Place type: Compact Infill

		Home Based Work Production		*Home Based Work Attraction*		*Home Based Other Production*		*Home Based Other Attraction*		*Non-Home Based Other Production*		*Non-Home Based Other Attraction*		*Source*
		Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	
Parking	Reduce parking supply	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	TDM Strategy Appendix, Parking sections 1 - 5
	Unbundle parking	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	
	Parking cash-out	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	
	Price workplace parking	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	
	Residential area parking permits	*0.00%*	*0.00%*	*0.00%*	*0.00%*	*0.00%*	*0.00%*	*0.00%*	*0.00%*	*0.00%*	*0.00%*	*0.00%*	*0.00%*	
Transit	Reduce transit headways	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	TDM Strategy Appendix, Transit sections 1 - 3
	Implement neighborhood shuttle	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	
	Transit subsidies	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	
Education & Encouragement	Voluntary travel behavior change program	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	TDM Strategy Appendix, Education & Encouragement sections 1 - 2
	Promotions and marketing	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	*0%*	
Commute Trip Reductions	Required commute trip reduction program	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	TDM Strategy Appendix, Commute Trip Reductions sections 1 - 4
	Alternative Work Schedules and Telecommute Program	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	
	Employer sponsored vanpool or shuttle	*0%*	*0%*	7%	7%	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	
	Ride-share program	*0%*	*0%*	15%	15%	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	
Shared Mobility	Car-share	*0.0%*	*0.0%*	*0.0%*	*0.0%*	*0.0%*	*0.0%*	*0.0%*	*0.0%*	*0.0%*	*0.0%*	*0.0%*	*0.0%*	TDM Strategy Appendix, Shared Mobility sections 1 - 3
	Bike share	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	
	School carpool program	*0.0%*	*0.0%*	*0.0%*	*0.0%*	*0.0%*	*0.0%*	*0.0%*	*0.0%*	*0.0%*	*0.0%*	*0.0%*	*0.0%*	

CITY OF LOS ANGELES VMT CALCULATOR

Report 3: TDM Outputs

Date: March 1, 2023
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TDM Adjustments by Trip Purpose & Strategy, Cont.

Place type: Compact Infill

		Home Based Work Production		*Home Based Work Attraction*		*Home Based Other Production*		*Home Based Other Attraction*		*Non-Home Based Other Production*		*Non-Home Based Other Attraction*		*Source*
		Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	
Bicycle Infrastructure	Implement/ Improve on-street bicycle facility	*0.0%*	*0.0%*	*0.0%*	*0.0%*	*0.0%*	*0.0%*	*0.0%*	*0.0%*	*0.0%*	*0.0%*	*0.0%*	*0.0%*	TDM Strategy Appendix, Bicycle Infrastructure sections 1 - 3
	Include Bike parking per LAMC	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	
	Include secure bike parking and showers	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	
Neighborhood Enhancement	Traffic calming improvements	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	TDM Strategy Appendix, Neighborhood Enhancement
	Pedestrian network improvements	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	

Final Combined & Maximum TDM Effect

	Home Based Work Production		*Home Based Work Attraction*		*Home Based Other Production*		*Home Based Other Attraction*		*Non-Home Based Other Production*		*Non-Home Based Other Attraction*	
	Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated
COMBINED TOTAL	*8%*	*8%*	*27%*	*27%*	*8%*	*8%*	*8%*	*8%*	*8%*	*8%*	*8%*	*4%*
MAX. TDM EFFECT	*8%*	*8%*	*27%*	*27%*	*8%*	*8%*	*8%*	*8%*	*8%*	*8%*	*8%*	*8%*

= Minimum (X%, 1-[(1-A)*(1-B)…])
where X%=

PLACE TYPE MAX:	*urban*	*75%*
	compact infill	*40%*
	suburban center	*20%*
	suburban	*15%*

Note: (1-[(1-A)*(1-B)…]) reflects the dampened combined effectiveness of TDM Strategies (e.g., A, B,…). See the TDM Strategy Appendix (*Transportation Assessment Guidelines Attachment G)* for further discussion of dampening.

CITY OF LOS ANGELES VMT CALCULATOR

Report 4: MXD Methodology

Date: March 1, 2023
Project Name: Television City 2050 Specific Plan
Project Scenario: Max Impact Scenario 1 - Full TDM
Project Address: 7800 W BEVERLY BLVD, 90036

Version 1.3

MXD Methodology - Project Without TDM

	Unadjusted Trips	MXD Adjustment	MXD Trips	Average Trip Length	Unadjusted VMT	MXD VMT
Home Based Work Production	0	0.0%	0	6.5	0	0
Home Based Other Production	0	0.0%	0	4.7	0	0
Non-Home Based Other Production	2,317	-9.2%	2,104	6.3	14,597	13,255
Home-Based Work Attraction	8,551	-22.9%	6,596	8.1	69,263	53,428
Home-Based Other Attraction	4,744	-37.6%	2,960	6.2	29,413	18,352
Non-Home Based Other Attraction	2,317	-9.4%	2,099	6.2	14,365	13,014

MXD Methodology with TDM Measures

	Proposed Project			*Project with Mitigation Measures*		
	TDM Adjustment	Project Trips	Project VMT	TDM Adjustment	Mitigated Trips	Mitigated VMT
Home Based Work Production	-7.6%	0	0	-7.6%	0	0
Home Based Other Production	-7.6%	0	0	-7.6%	0	0
Non-Home Based Other Production	-7.6%	1,945	12,253	-7.6%	1,945	12,253
Home-Based Work Attraction	-26.7%	4,836	39,169	-26.7%	4,836	39,169
Home-Based Other Attraction	-7.6%	2,736	16,965	-7.6%	2,736	16,965
Non-Home Based Other Attraction	-7.6%	1,940	12,031	-7.6%	1,940	12,031

MXD VMT Methodology Per Capita & Per Employee

Total Population: 0
Total Employees: 8,188
APC: Central

	Proposed Project	*Project with Mitigation Measures*
Total Home Based Production VMT	**0**	**0**
Total Home Based Work Attraction VMT	**39,169**	**39,169**
Total Home Based VMT Per Capita	**0.0**	**0.0**
Total Work Based VMT Per Employee	**4.8**	**4.8**

TVC 2050 Project
Final EIR
Appendix A-3-CalEEMod 2022 Output Files

Construction

- TVC-Construction Impacts with Mitigation Measures
- TVC-Construction Impacts with Dewatering (Dewatering Installation)
- TVC-Construction Impacts with Mitigation Measures Localized
- TVC-Construction Impacts Associated with Long-Term Buildout (additional employee trips) and Excavation

Operations

- TVC-Existing 2021
- TVC-Existing 2026
- TVC-Project 2026 (Conceptual Plan/Proposed Development Program)
- TVC-Project 2026 (No MXD) (Conceptual Plan/Proposed Development Program)
- TVC-Project Max Equivalency Scenario 2026 (Maximum Land Use Exchange Scenario)
- TVC-Project Max Equivalency Scenario (No MXD) 2026 (Maximum Land Use Exchange Scenario)

Long-Term Buildout

- TVC-Construction Impacts with Mitigation Measures (2026, 2030, 2035, 2040, and 2043)
- TVC-Construction Impacts with Mitigation Measures Localized (2026, 2030, 2035, 2040, and 2043)
- TVC-Existing (2030, 2035, 2040, and 2043)
- TVC-Project (2030, 2035, 2040, and 2043)

TVC-Construction Impacts with Mitigation Measures v3 Custom Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	TVC-Construction Impacts with Mitigation Measures v3
Construction Start Date	10/1/2023
Lead Agency	City of Los Angeles
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	19.6
Location	34.07526837326408, -118.35992854757305
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4302
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.14

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
General Office Building	1,400	1000sqft	25.0	1,400,000	0.00	—	—	—

Industrial Park	350	1000sqft	0.00	350,000	0.00	—	—	—
Enclosed Parking with Elevator	2,600	Space	0.00	1,040,000	0.00	—	—	—
Unenclosed Parking Structure	2,700	Space	0.00	1,080,000	0.00	—	—	—
High Turnover (Sit Down Restaurant)	5.00	1000sqft	0.00	5,000	0.00	—	—	—
Strip Mall	119.0	1000sqft	0.00	119,000	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers
Construction	C-12	Sweep Paved Roads

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	20.4	46.4	188	270	0.76	4.56	44.5	45.8	4.28	10.5	14.7	—	118,970
Mit.	16.8	43.5	124	268	0.76	1.49	44.5	44.6	1.49	10.5	11.9	—	118,970
% Reduced	18%	6%	34%	< 0.5%	—	67%	—	2%	65%	—	19%	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	25.8	38.4	253	204	0.88	6.76	43.1	49.9	6.32	12.0	18.4	—	137,071
Mit.	12.5	37.1	152	218	0.88	1.72	43.1	44.8	1.72	12.0	13.8	—	137,071

% Reduced	52%	3%	40%	-7%	—	75%	—	10%	73%	—	25%	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.96	23.0	81.0	105	0.30	2.00	19.2	20.6	1.88	5.21	7.09	—	51,609
Mit.	7.21	21.8	53.7	104	0.30	0.58	19.2	19.3	0.58	5.21	5.78	—	51,612
% Reduced	28%	5%	34%	1%	—	71%	—	6%	69%	—	18%	—	> -0.5%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.82	4.19	14.8	19.2	0.05	0.37	3.50	3.75	0.34	0.95	1.29	—	8,545
Mit.	1.32	3.98	9.79	19.1	0.05	0.11	3.50	3.51	0.11	0.95	1.06	—	8,545
% Reduced	28%	5%	34%	1%	> -0.5%	71%	—	6%	69%	—	18%	—	> -0.5%

2.2. 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	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	18.4	12.0	188	152	0.76	4.56	34.2	38.8	4.28	10.4	14.7	—	118,970
2025	20.4	46.4	50.1	270	0.10	1.31	44.5	45.8	1.17	10.5	11.7	—	56,966
2026	10.7	39.1	26.4	149	0.05	0.56	26.0	26.5	0.50	6.11	6.61	—	32,034
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	25.8	17.2	253	204	0.88	6.76	43.1	49.9	6.32	12.0	18.4	—	137,071
2024	18.3	12.0	192	147	0.76	4.56	34.2	38.8	4.28	10.4	14.7	—	118,477
2025	11.2	38.4	28.8	130	0.06	0.89	26.0	26.4	0.80	6.11	6.48	—	29,851
2026	9.97	37.2	21.7	123	0.04	0.35	26.0	26.3	0.31	6.11	6.42	—	29,296
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—

2023	4.06	2.73	39.8	32.4	0.14	1.07	6.67	7.74	1.00	1.85	2.85	—	21,152
2024	9.96	7.20	81.0	93.5	0.30	2.00	18.6	20.6	1.88	5.21	7.09	—	51,609
2025	8.69	23.0	21.5	105	0.04	0.49	19.2	19.7	0.43	4.52	4.95	—	23,638
2026	2.98	11.1	6.96	38.2	0.01	0.12	7.57	7.69	0.10	1.78	1.88	—	8,851
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.74	0.50	7.27	5.91	0.02	0.19	1.22	1.41	0.18	0.34	0.52	—	3,502
2024	1.82	1.31	14.8	17.1	0.05	0.37	3.39	3.75	0.34	0.95	1.29	—	8,545
2025	1.59	4.19	3.92	19.2	0.01	0.09	3.50	3.59	0.08	0.82	0.90	—	3,914
2026	0.54	2.02	1.27	6.97	< 0.005	0.02	1.38	1.40	0.02	0.33	0.34	—	1,465

2.3. Construction Emissions by Year, Mitigated

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	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	9.86	6.55	124	172	0.76	1.49	34.2	35.7	1.49	10.4	11.9	—	118,970
2025	16.8	43.5	34.1	268	0.10	0.17	44.5	44.6	0.13	10.5	10.6	—	56,966
2026	8.66	37.5	21.9	148	0.05	0.09	26.0	26.0	0.07	6.11	6.18	—	32,034
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	12.5	6.44	152	218	0.88	1.72	43.1	44.8	1.72	12.0	13.8	—	137,071
2024	9.79	6.45	128	167	0.76	1.49	34.2	35.7	1.49	10.4	11.9	—	118,477
2025	9.61	37.1	19.1	128	0.06	0.11	26.0	26.0	0.08	6.11	6.16	—	29,851
2026	8.48	36.0	18.1	121	0.04	0.06	26.0	26.0	0.05	6.11	6.16	—	29,296
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	1.93	1.01	23.7	34.5	0.14	0.27	6.67	6.94	0.27	1.85	2.11	—	21,152
2024	6.08	4.08	53.7	101	0.30	0.58	18.6	19.1	0.58	5.21	5.78	—	51,612

2025	7.21	21.8	15.8	104	0.04	0.07	19.2	19.3	0.05	4.52	4.57	—	23,638
2026	2.50	10.7	5.85	37.7	0.01	0.02	7.57	7.59	0.02	1.78	1.80	—	8,851
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.35	0.18	4.33	6.29	0.02	0.05	1.22	1.27	0.05	0.34	0.39	—	3,502
2024	1.11	0.75	9.79	18.4	0.05	0.11	3.39	3.49	0.11	0.95	1.06	—	8,545
2025	1.32	3.98	2.89	19.1	0.01	0.01	3.50	3.51	0.01	0.82	0.83	—	3,914
2026	0.46	1.95	1.07	6.88	< 0.005	< 0.005	1.38	1.39	< 0.005	0.33	0.33	—	1,465

3. Construction Emissions Details

3.1. Demolition (2023) - 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	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.75	3.98	36.8	39.8	0.06	1.70	—	1.70	1.56	—	1.56	—	6,127
Demolition	—	—	—	—	—	—	4.60	4.60	—	0.70	0.70	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.85	0.71	6.56	7.09	0.01	0.30	—	0.30	0.28	—	0.28	—	1,091
Demolition	—	—	—	—	—	—	0.82	0.82	—	0.12	0.12	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	1.20	1.29	< 0.005	0.06	—	0.06	0.05	—	0.05	—	181
Demolition	—	—	—	—	—	—	0.15	0.15	—	0.02	0.02	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.56	0.46	0.61	6.94	0.00	0.00	1.31	1.31	0.00	0.31	0.31	—	1,385
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.67	0.16	11.5	3.98	0.06	0.11	2.43	2.54	0.11	0.65	0.76	—	9,528
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.08	0.11	1.29	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	251
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.12	0.03	2.09	0.71	0.01	0.02	0.43	0.45	0.02	0.11	0.13	—	1,698
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.24	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	41.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.02	0.01	0.38	0.13	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	281

3.2. Demolition (2023) - Mitigated

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	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	0.62	6.11	37.0	0.06	0.11	—	0.11	0.11	—	0.11	—	6,127
Demolition	—	—	—	—	—	—	4.60	4.60	—	0.70	0.70	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.11	1.09	6.59	0.01	0.02	—	0.02	0.02	—	0.02	—	1,091
Demolition	—	—	—	—	—	—	0.82	0.82	—	0.12	0.12	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.20	1.20	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	181
Demolition	—	—	—	—	—	—	0.15	0.15	—	0.02	0.02	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.56	0.46	0.61	6.94	0.00	0.00	1.31	1.31	0.00	0.31	0.31	—	1,385
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.67	0.16	11.5	3.98	0.06	0.11	2.43	2.54	0.11	0.65	0.76	—	9,528
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.08	0.11	1.29	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	251

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.12	0.03	2.09	0.71	0.01	0.02	0.43	0.45	0.02	0.11	0.13	—	1,698
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.24	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	41.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.02	0.01	0.38	0.13	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	281

3.3. Grading (2023) - 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	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	11.1	9.32	87.8	88.1	0.18	3.81	—	3.81	3.50	—	3.50	—	18,630
Dust From Material Movement	—	—	—	—	—	—	5.12	5.12	—	2.63	2.63	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.68	1.40	13.2	13.3	0.03	0.57	—	0.57	0.53	—	0.53	—	2,807
Dust From Material Movement	—	—	—	—	—	—	0.77	0.77	—	0.40	0.40	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.31	0.26	2.42	2.42	< 0.005	0.10	—	0.10	0.10	—	0.10	—	465
Dust From Material Movement	—	—	—	—	—	—	0.14	0.14	—	0.07	0.07	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.17	1.81	2.39	27.1	0.00	0.00	5.10	5.10	0.00	1.19	1.19	—	5,400
Vendor	0.34	0.08	5.76	1.99	0.03	0.06	1.21	1.27	0.06	0.32	0.38	—	4,764
Hauling	6.23	1.43	108	36.4	0.56	1.08	23.3	24.4	1.08	6.24	7.33	—	91,238
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.33	0.27	0.36	4.27	0.00	0.00	0.76	0.76	0.00	0.18	0.18	—	827
Vendor	0.05	0.01	0.88	0.30	< 0.005	0.01	0.18	0.19	0.01	0.05	0.06	—	718
Hauling	0.94	0.22	16.6	5.47	0.08	0.16	3.49	3.65	0.16	0.93	1.10	—	13,759
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.07	0.78	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	137
Vendor	0.01	< 0.005	0.16	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	119
Hauling	0.17	0.04	3.03	1.00	0.02	0.03	0.64	0.67	0.03	0.17	0.20	—	2,278

3.4. Grading (2023) - Mitigated

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	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.88	1.88	17.3	105	0.18	0.35	—	0.35	0.35	—	0.35	—	18,630
Dust From Material Movement	—	—	—	—	—	—	5.12	5.12	—	2.63	2.63	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.28	2.60	15.8	0.03	0.05	—	0.05	0.05	—	0.05	—	2,807
Dust From Material Movement	—	—	—	—	—	—	0.77	0.77	—	0.40	0.40	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.05	0.48	2.89	< 0.005	0.01	—	0.01	0.01	—	0.01	—	465
Dust From Material Movement	—	—	—	—	—	—	0.14	0.14	—	0.07	0.07	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.17	1.81	2.39	27.1	0.00	0.00	5.10	5.10	0.00	1.19	1.19	—	5,400

Vendor	0.34	0.08	5.76	1.99	0.03	0.06	1.21	1.27	0.06	0.32	0.38	—	4,764
Hauling	6.23	1.43	108	36.4	0.56	1.08	23.3	24.4	1.08	6.24	7.33	—	91,238
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.33	0.27	0.36	4.27	0.00	0.00	0.76	0.76	0.00	0.18	0.18	—	827
Vendor	0.05	0.01	0.88	0.30	< 0.005	0.01	0.18	0.19	0.01	0.05	0.06	—	718
Hauling	0.94	0.22	16.6	5.47	0.08	0.16	3.49	3.65	0.16	0.93	1.10	—	13,759
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.07	0.78	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	137
Vendor	0.01	< 0.005	0.16	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	119
Hauling	0.17	0.04	3.03	1.00	0.02	0.03	0.64	0.67	0.03	0.17	0.20	—	2,278

3.5. Grading (2024) - 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	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	10.4	8.74	81.1	85.4	0.18	3.42	—	3.42	3.14	—	3.14	—	18,646
Dust From Material Movement	—	—	—	—	—	—	5.12	5.12	—	2.63	2.63	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	10.4	8.74	81.1	85.4	0.18	3.42	—	3.42	3.14	—	3.14	—	18,646

Dust From Material Movement	—	—	—	—	—	—	5.12	5.12	—	2.63	2.63	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.72	3.11	28.9	30.4	0.06	1.22	—	1.22	1.12	—	1.12	—	6,641
Dust From Material Movement	—	—	—	—	—	—	1.82	1.82	—	0.94	0.94	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.68	0.57	5.27	5.55	0.01	0.22	—	0.22	0.20	—	0.20	—	1,100
Dust From Material Movement	—	—	—	—	—	—	0.33	0.33	—	0.17	0.17	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.94	1.75	1.87	29.4	0.00	0.00	5.10	5.10	0.00	1.19	1.19	—	5,589
Vendor	0.31	0.08	5.31	1.92	0.03	0.06	1.19	1.24	0.06	0.32	0.38	—	4,700
Hauling	5.73	1.47	99.6	35.1	0.56	1.08	22.8	23.9	1.08	6.24	7.33	—	90,028
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.93	1.72	2.21	24.9	0.00	0.00	5.10	5.10	0.00	1.19	1.19	—	5,283
Vendor	0.31	0.08	5.50	1.90	0.03	0.06	1.19	1.24	0.06	0.32	0.38	—	4,691
Hauling	5.67	1.43	103	34.8	0.56	1.08	22.8	23.9	1.08	6.24	7.33	—	89,850

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.68	0.61	0.78	9.32	0.00	0.00	1.79	1.79	0.00	0.42	0.42	—	1,912
Vendor	0.11	0.03	1.99	0.68	0.01	0.02	0.42	0.44	0.02	0.11	0.13	—	1,672
Hauling	2.04	0.52	37.5	12.3	0.20	0.39	8.04	8.43	0.39	2.20	2.59	—	32,027
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.11	0.14	1.70	0.00	0.00	0.33	0.33	0.00	0.08	0.08	—	317
Vendor	0.02	0.01	0.36	0.12	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	277
Hauling	0.37	0.09	6.84	2.25	0.04	0.07	1.47	1.54	0.07	0.40	0.47	—	5,302

3.6. Grading (2024) - Mitigated

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	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.88	1.88	17.3	105	0.18	0.35	—	0.35	0.35	—	0.35	—	18,646
Dust From Material Movement	—	—	—	—	—	—	5.12	5.12	—	2.63	2.63	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.88	1.88	17.3	105	0.18	0.35	—	0.35	0.35	—	0.35	—	18,646
Dust From Material Movement	—	—	—	—	—	—	5.12	5.12	—	2.63	2.63	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.67	0.67	6.15	37.4	0.06	0.12	—	0.12	0.12	—	0.12	—	6,641
Dust From Material Movement	—	—	—	—	—	—	1.82	1.82	—	0.94	0.94	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.12	1.12	6.83	0.01	0.02	—	0.02	0.02	—	0.02	—	1,100
Dust From Material Movement	—	—	—	—	—	—	0.33	0.33	—	0.17	0.17	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.94	1.75	1.87	29.4	0.00	0.00	5.10	5.10	0.00	1.19	1.19	—	5,589
Vendor	0.31	0.08	5.31	1.92	0.03	0.06	1.19	1.24	0.06	0.32	0.38	—	4,700
Hauling	5.73	1.47	99.6	35.1	0.56	1.08	22.8	23.9	1.08	6.24	7.33	—	90,028
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.93	1.72	2.21	24.9	0.00	0.00	5.10	5.10	0.00	1.19	1.19	—	5,283
Vendor	0.31	0.08	5.50	1.90	0.03	0.06	1.19	1.24	0.06	0.32	0.38	—	4,691
Hauling	5.67	1.43	103	34.8	0.56	1.08	22.8	23.9	1.08	6.24	7.33	—	89,850
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.68	0.61	0.78	9.32	0.00	0.00	1.79	1.79	0.00	0.42	0.42	—	1,912
Vendor	0.11	0.03	1.99	0.68	0.01	0.02	0.42	0.44	0.02	0.11	0.13	—	1,672
Hauling	2.04	0.52	37.5	12.3	0.20	0.39	8.04	8.43	0.39	2.20	2.59	—	32,027

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.11	0.14	1.70	0.00	0.00	0.33	0.33	0.00	0.08	0.08	—	317
Vendor	0.02	0.01	0.36	0.12	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	277
Hauling	0.37	0.09	6.84	2.25	0.04	0.07	1.47	1.54	0.07	0.40	0.47	—	5,302

3.7. Building Construction (2024) - 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	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.25	1.86	15.4	16.5	0.03	0.50	—	0.50	0.46	—	0.46	—	2,396
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.21	0.23	< 0.005	0.01	—	0.01	0.01	—	0.01	—	32.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	< 0.005	0.04	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.43
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.50	0.45	0.48	7.54	0.00	0.00	1.31	1.31	0.00	0.31	0.31	—	1,433
Vendor	3.43	1.09	51.9	22.5	0.25	0.45	9.46	9.91	0.45	2.59	3.04	—	38,703
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	18.9
Vendor	0.05	0.01	0.75	0.31	< 0.005	0.01	0.13	0.13	0.01	0.04	0.04	—	530
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.12
Vendor	0.01	< 0.005	0.14	0.06	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	87.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

3.8. Building Construction (2024) - Mitigated

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	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.83	0.74	13.6	18.3	0.03	0.16	—	0.16	0.15	—	0.15	—	2,603
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.01	0.01	0.19	0.25	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	35.7
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.90
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.50	0.45	0.48	7.54	0.00	0.00	1.31	1.31	0.00	0.31	0.31	—	1,433
Vendor	3.43	1.09	51.9	22.5	0.25	0.45	9.46	9.91	0.45	2.59	3.04	—	38,703
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	18.9
Vendor	0.05	0.01	0.75	0.31	< 0.005	0.01	0.13	0.13	0.01	0.04	0.04	—	530
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.12
Vendor	0.01	< 0.005	0.14	0.06	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	87.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

3.9. Building Construction (2024) - 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	CO2e

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.72	2.27	20.0	23.3	0.04	1.01	—	1.01	0.93	—	0.93	—	3,370
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.72	2.27	20.0	23.3	0.04	1.01	—	1.01	0.93	—	0.93	—	3,370
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.94	0.79	6.94	8.09	0.01	0.35	—	0.35	0.32	—	0.32	—	1,167
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	0.14	1.27	1.48	< 0.005	0.06	—	0.06	0.06	—	0.06	—	193
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	6.73	6.06	6.46	102	0.00	0.00	17.6	17.6	0.00	4.14	4.14	—	19,347
Vendor	0.25	0.10	3.80	1.86	0.02	0.04	0.86	0.90	0.04	0.24	0.28	—	3,371
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	6.67	5.97	7.65	86.1	0.00	0.00	17.6	17.6	0.00	4.14	4.14	—	18,287
Vendor	0.25	0.10	3.95	1.91	0.02	0.04	0.86	0.90	0.04	0.24	0.28	—	3,364

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.30	2.06	2.64	31.4	0.00	0.00	6.04	6.04	0.00	1.41	1.41	—	6,438
Vendor	0.09	0.03	1.38	0.65	0.01	0.02	0.29	0.31	0.02	0.08	0.10	—	1,166
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.42	0.38	0.48	5.72	0.00	0.00	1.10	1.10	0.00	0.26	0.26	—	1,066
Vendor	0.02	0.01	0.25	0.12	< 0.005	< 0.005	0.05	0.06	< 0.005	0.01	0.02	—	193
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

3.10. Building Construction (2024) - Mitigated

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	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.39	0.39	6.62	23.8	0.04	0.06	—	0.06	0.06	—	0.06	—	3,370
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.39	0.39	6.62	23.8	0.04	0.06	—	0.06	0.06	—	0.06	—	3,370
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.14	2.29	8.23	0.01	0.02	—	0.02	0.02	—	0.02	—	1,167

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.42	1.50	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	193
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	6.73	6.06	6.46	102	0.00	0.00	17.6	17.6	0.00	4.14	4.14	—	19,347
Vendor	0.25	0.10	3.80	1.86	0.02	0.04	0.86	0.90	0.04	0.24	0.28	—	3,371
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	6.67	5.97	7.65	86.1	0.00	0.00	17.6	17.6	0.00	4.14	4.14	—	18,287
Vendor	0.25	0.10	3.95	1.91	0.02	0.04	0.86	0.90	0.04	0.24	0.28	—	3,364
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.30	2.06	2.64	31.4	0.00	0.00	6.04	6.04	0.00	1.41	1.41	—	6,438
Vendor	0.09	0.03	1.38	0.65	0.01	0.02	0.29	0.31	0.02	0.08	0.10	—	1,166
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.42	0.38	0.48	5.72	0.00	0.00	1.10	1.10	0.00	0.26	0.26	—	1,066
Vendor	0.02	0.01	0.25	0.12	< 0.005	< 0.005	0.05	0.06	< 0.005	0.01	0.02	—	193
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

3.11. Building Construction (2025) - 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	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.45	2.04	18.6	23.1	0.04	0.85	—	0.85	0.78	—	0.78	—	3,368
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.45	2.04	18.6	23.1	0.04	0.85	—	0.85	0.78	—	0.78	—	3,368
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72	0.60	5.48	6.83	0.01	0.25	—	0.25	0.23	—	0.23	—	995
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.11	1.00	1.25	< 0.005	0.05	—	0.05	0.04	—	0.04	—	165
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	6.46	5.79	5.85	93.9	0.00	0.00	17.6	17.6	0.00	4.14	4.14	—	18,945
Vendor	0.23	0.09	3.61	1.76	0.02	0.04	0.86	0.90	0.02	0.24	0.26	—	3,317
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	6.40	5.73	6.49	79.6	0.00	0.00	17.6	17.6	0.00	4.14	4.14	—	17,915
Vendor	0.23	0.09	3.76	1.78	0.02	0.04	0.86	0.90	0.02	0.24	0.26	—	3,310
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.88	1.68	2.07	24.7	0.00	0.00	5.15	5.15	0.00	1.21	1.21	—	5,377
Vendor	0.07	0.03	1.12	0.52	0.01	0.01	0.25	0.26	0.01	0.07	0.08	—	979
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.34	0.31	0.38	4.51	0.00	0.00	0.94	0.94	0.00	0.22	0.22	—	890
Vendor	0.01	< 0.005	0.20	0.10	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	162
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

3.12. Building Construction (2025) - Mitigated

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	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.39	0.39	6.62	23.8	0.04	0.06	—	0.06	0.06	—	0.06	—	3,368
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.39	0.39	6.62	23.8	0.04	0.06	—	0.06	0.06	—	0.06	—	3,368
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.12	0.12	1.95	7.02	0.01	0.02	—	0.02	0.02	—	0.02	—	995
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.36	1.28	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	165
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	6.46	5.79	5.85	93.9	0.00	0.00	17.6	17.6	0.00	4.14	4.14	—	18,945
Vendor	0.23	0.09	3.61	1.76	0.02	0.04	0.86	0.90	0.02	0.24	0.26	—	3,317
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	6.40	5.73	6.49	79.6	0.00	0.00	17.6	17.6	0.00	4.14	4.14	—	17,915
Vendor	0.23	0.09	3.76	1.78	0.02	0.04	0.86	0.90	0.02	0.24	0.26	—	3,310
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.88	1.68	2.07	24.7	0.00	0.00	5.15	5.15	0.00	1.21	1.21	—	5,377
Vendor	0.07	0.03	1.12	0.52	0.01	0.01	0.25	0.26	0.01	0.07	0.08	—	979
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.34	0.31	0.38	4.51	0.00	0.00	0.94	0.94	0.00	0.22	0.22	—	890
Vendor	0.01	< 0.005	0.20	0.10	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	162
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

3.13. Paving (2026) - 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	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.77	0.65	5.74	8.29	0.01	0.21	—	0.21	0.19	—	0.19	—	1,281
Paving	—	1.25	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.33	0.48	< 0.005	0.01	—	0.01	0.01	—	0.01	—	73.7
Paving	—	0.07	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.2
Paving	—	0.01	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

3.14. Paving (2026) - Mitigated

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	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.18	4.83	8.93	0.01	0.02	—	0.02	0.02	—	0.02	—	1,281
Paving	—	1.25	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.28	0.51	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	73.7

Paving	—	0.07	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.05	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.2
Paving	—	0.01	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

3.15. Architectural Coating (2025) - 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	CO2e

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.87	1.55	11.1	14.6	0.02	0.38	—	0.38	0.35	—	0.35	—	1,778
Architectural Coatings	—	28.6	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.87	1.55	11.1	14.6	0.02	0.38	—	0.38	0.35	—	0.35	—	1,778
Architectural Coatings	—	28.6	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.01	0.83	5.98	7.83	0.01	0.20	—	0.20	0.19	—	0.19	—	957
Architectural Coatings	—	15.4	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.15	1.09	1.43	< 0.005	0.04	—	0.04	0.03	—	0.03	—	158
Architectural Coatings	—	2.81	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	9.28	8.32	8.40	135	0.00	0.00	25.4	25.4	0.00	5.94	5.94	—	27,224
Vendor	0.16	0.07	2.52	1.23	0.02	0.03	0.60	0.63	0.02	0.17	0.18	—	2,322
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	9.20	8.23	9.32	114	0.00	0.00	25.4	25.4	0.00	5.94	5.94	—	25,744
Vendor	0.16	0.06	2.63	1.25	0.02	0.03	0.60	0.63	0.02	0.17	0.18	—	2,317
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.93	4.41	5.42	64.7	0.00	0.00	13.5	13.5	0.00	3.16	3.16	—	14,072
Vendor	0.08	0.03	1.43	0.66	0.01	0.02	0.32	0.34	0.01	0.09	0.10	—	1,248
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.90	0.80	0.99	11.8	0.00	0.00	2.46	2.46	0.00	0.58	0.58	—	2,330
Vendor	0.02	0.01	0.26	0.12	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	207
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

3.16. Architectural Coating (2025) - Mitigated

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	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.26	0.26	7.13	12.7	0.02	0.03	—	0.03	0.03	—	0.03	—	1,778
Architectural Coatings	—	28.6	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.26	0.26	7.13	12.7	0.02	0.03	—	0.03	0.03	—	0.03	—	1,778
Architectural Coatings	—	28.6	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.14	3.84	6.84	0.01	0.02	—	0.02	0.02	—	0.02	—	957
Architectural Coatings	—	15.4	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.70	1.25	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	158
Architectural Coatings	—	2.81	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	9.28	8.32	8.40	135	0.00	0.00	25.4	25.4	0.00	5.94	5.94	—	27,224
Vendor	0.16	0.07	2.52	1.23	0.02	0.03	0.60	0.63	0.02	0.17	0.18	—	2,322
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	9.20	8.23	9.32	114	0.00	0.00	25.4	25.4	0.00	5.94	5.94	—	25,744
Vendor	0.16	0.06	2.63	1.25	0.02	0.03	0.60	0.63	0.02	0.17	0.18	—	2,317

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.93	4.41	5.42	64.7	0.00	0.00	13.5	13.5	0.00	3.16	3.16	—	14,072
Vendor	0.08	0.03	1.43	0.66	0.01	0.02	0.32	0.34	0.01	0.09	0.10	—	1,248
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.90	0.80	0.99	11.8	0.00	0.00	2.46	2.46	0.00	0.58	0.58	—	2,330
Vendor	0.02	0.01	0.26	0.12	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	207
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

3.17. Architectural Coating (2026) - 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	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.75	1.45	10.7	14.5	0.02	0.32	—	0.32	0.29	—	0.29	—	1,777
Architectural Coatings	—	28.6	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.75	1.45	10.7	14.5	0.02	0.32	—	0.32	0.29	—	0.29	—	1,777
Architectural Coatings	—	28.6	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.52	0.43	3.17	4.28	0.01	0.09	—	0.09	0.09	—	0.09	—	525
Architectural Coatings	—	8.45	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.08	0.58	0.78	< 0.005	0.02	—	0.02	0.02	—	0.02	—	87.0
Architectural Coatings	—	1.54	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	8.06	7.14	7.53	125	0.00	0.00	25.4	25.4	0.00	5.94	5.94	—	26,675
Vendor	0.16	0.07	2.41	1.16	0.02	0.03	0.60	0.63	0.02	0.17	0.18	—	2,283
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	8.06	7.10	8.45	107	0.00	0.00	25.4	25.4	0.00	5.94	5.94	—	25,223
Vendor	0.15	0.06	2.52	1.19	0.02	0.03	0.60	0.63	0.02	0.17	0.18	—	2,279
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.37	2.09	2.72	33.1	0.00	0.00	7.40	7.40	0.00	1.73	1.73	—	7,573
Vendor	0.05	0.02	0.75	0.35	< 0.005	0.01	0.18	0.18	< 0.005	0.05	0.05	—	674
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.43	0.38	0.50	6.03	0.00	0.00	1.35	1.35	0.00	0.32	0.32	—	1,254
Vendor	0.01	< 0.005	0.14	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	112
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

3.18. Architectural Coating (2026) - Mitigated

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	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.26	0.26	7.13	12.7	0.02	0.03	—	0.03	0.03	—	0.03	—	1,777
Architectural Coatings	—	28.6	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.26	0.26	7.13	12.7	0.02	0.03	—	0.03	0.03	—	0.03	—	1,777
Architectural Coatings	—	28.6	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.08	2.11	3.76	0.01	0.01	—	0.01	0.01	—	0.01	—	525
Architectural Coatings	—	8.45	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.01	0.01	0.38	0.69	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	87.0
Architectural Coatings	—	1.54	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	8.06	7.14	7.53	125	0.00	0.00	25.4	25.4	0.00	5.94	5.94	—	26,675
Vendor	0.16	0.07	2.41	1.16	0.02	0.03	0.60	0.63	0.02	0.17	0.18	—	2,283
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	8.06	7.10	8.45	107	0.00	0.00	25.4	25.4	0.00	5.94	5.94	—	25,223
Vendor	0.15	0.06	2.52	1.19	0.02	0.03	0.60	0.63	0.02	0.17	0.18	—	2,279
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.37	2.09	2.72	33.1	0.00	0.00	7.40	7.40	0.00	1.73	1.73	—	7,573
Vendor	0.05	0.02	0.75	0.35	< 0.005	0.01	0.18	0.18	< 0.005	0.05	0.05	—	674
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.43	0.38	0.50	6.03	0.00	0.00	1.35	1.35	0.00	0.32	0.32	—	1,254
Vendor	0.01	< 0.005	0.14	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	112
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

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	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	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	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	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	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	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

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	10/1/2023	12/31/2023	5.00	65.0	—
Grading/Foundation	Grading	10/16/2023	6/30/2024	5.00	185	—
Mat Foundation	Building Construction	7/1/2024	7/7/2024	5.00	5.00	—
Building Construction	Building Construction	7/8/2024	5/31/2025	5.00	235	—
Paving/Landscape	Paving	5/1/2026	5/31/2026	5.00	21.0	—
Finishing/Architectural Coating	Architectural Coating	4/1/2025	5/31/2026	5.00	304	—

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	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Demolition	Excavators	Diesel	Average	4.00	8.00	158	0.38
Demolition	Concrete/Industrial Saws	Diesel	Average	2.00	8.00	49.0	0.73
Demolition	Other Construction Equipment	Diesel	Average	1.00	8.00	99.0	0.42
Grading/Foundation	Excavators	Diesel	Average	3.00	8.00	158	0.38
Grading/Foundation	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	97.0	0.37
Grading/Foundation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Grading/Foundation	Bore/Drill Rigs	Diesel	Average	6.00	8.00	221	0.50
Grading/Foundation	Pumps	Diesel	Average	4.00	8.00	49.0	0.74

Grading/Foundation	Cranes	Diesel	Average	2.00	8.00	367	0.29
Grading/Foundation	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Grading/Foundation	Other Construction Equipment	Diesel	Average	2.00	8.00	99.0	0.42
Grading/Foundation	Rubber Tired Loaders	Diesel	Average	2.00	8.00	150	0.36
Mat Foundation	Pumps	Diesel	Average	6.00	8.00	49.0	0.74
Mat Foundation	Plate Compactors	Diesel	Average	6.00	8.00	8.00	0.43
Building Construction	Forklifts	Diesel	Average	2.00	8.00	89.0	0.20
Building Construction	Cranes	Electric	Average	4.00	8.00	367	0.29
Building Construction	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	97.0	0.37
Building Construction	Pumps	Diesel	Average	2.00	8.00	49.0	0.74
Building Construction	Other Construction Equipment	Diesel	Average	4.00	8.00	99.0	0.42
Building Construction	Aerial Lifts	Electric	Average	14.0	8.00	46.0	0.31
Paving/Landscape	Paving Equipment	Diesel	Average	1.00	8.00	99.0	0.36
Paving/Landscape	Rollers	Diesel	Average	1.00	8.00	49.9	0.38
Paving/Landscape	Skid Steer Loaders	Diesel	Average	2.00	8.00	71.0	0.37
Paving/Landscape	Trenchers	Diesel	Average	1.00	8.00	49.9	0.50
Finishing/Architectural Coating	Aerial Lifts	Electric	Average	14.0	8.00	46.0	0.31
Finishing/Architectural Coating	Air Compressors	Diesel	Average	6.00	8.00	49.9	0.48
Finishing/Architectural Coating	Cranes	Electric	Average	4.00	8.00	367	0.29
Finishing/Architectural Coating	Forklifts	Diesel	Average	2.00	8.00	89.0	0.20

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	367	0.40
Demolition	Excavators	Diesel	Tier 4 Final	4.00	8.00	158	0.38
Demolition	Concrete/Industrial Saws	Diesel	Tier 4 Final	2.00	8.00	49.0	0.73
Demolition	Other Construction Equipment	Diesel	Tier 4 Final	1.00	8.00	99.0	0.42
Grading/Foundation	Excavators	Diesel	Tier 4 Final	3.00	8.00	158	0.38
Grading/Foundation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	8.00	97.0	0.37
Grading/Foundation	Rubber Tired Dozers	Diesel	Tier 4 Final	3.00	8.00	367	0.40
Grading/Foundation	Bore/Drill Rigs	Diesel	Tier 4 Final	6.00	8.00	221	0.50
Grading/Foundation	Pumps	Diesel	Tier 4 Final	4.00	8.00	49.0	0.74
Grading/Foundation	Cranes	Diesel	Tier 4 Final	2.00	8.00	367	0.29
Grading/Foundation	Welders	Diesel	Tier 4 Final	2.00	8.00	46.0	0.45
Grading/Foundation	Other Construction Equipment	Diesel	Tier 4 Final	2.00	8.00	99.0	0.42
Grading/Foundation	Rubber Tired Loaders	Diesel	Tier 4 Final	2.00	8.00	150	0.36
Mat Foundation	Pumps	Diesel	Tier 4 Final	6.00	8.00	49.0	0.74
Mat Foundation	Plate Compactors	Diesel	Average	6.00	8.00	8.00	0.43
Building Construction	Forklifts	Diesel	Tier 4 Final	2.00	8.00	89.0	0.20
Building Construction	Cranes	Electric	Average	4.00	8.00	367	0.29
Building Construction	Welders	Diesel	Tier 4 Final	2.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	97.0	0.37
Building Construction	Pumps	Diesel	Tier 4 Final	2.00	8.00	49.0	0.74
Building Construction	Other Construction Equipment	Diesel	Tier 4 Final	4.00	8.00	99.0	0.42
Building Construction	Aerial Lifts	Electric	Average	14.0	8.00	46.0	0.31
Paving/Landscape	Paving Equipment	Diesel	Tier 4 Final	1.00	8.00	99.0	0.36

Paving/Landscape	Rollers	Diesel	Tier 4 Final	1.00	8.00	49.9	0.38
Paving/Landscape	Skid Steer Loaders	Diesel	Tier 4 Final	2.00	8.00	71.0	0.37
Paving/Landscape	Trenchers	Diesel	Tier 4 Final	1.00	8.00	49.9	0.50
Finishing/Architectural Coating	Aerial Lifts	Electric	Average	14.0	8.00	46.0	0.31
Finishing/Architectural Coating	Air Compressors	Diesel	Tier 4 Final	6.00	8.00	49.9	0.48
Finishing/Architectural Coating	Cranes	Electric	Average	4.00	8.00	367	0.29
Finishing/Architectural Coating	Forklifts	Diesel	Tier 4 Final	2.00	8.00	89.0	0.20

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	100	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	80.0	32.0	HHDT
Demolition	Onsite truck	0.00	0.00	HHDT
Mat Foundation	—	—	—	—
Mat Foundation	Worker	100	18.5	LDA,LDT1,LDT2
Mat Foundation	Vendor	1,000	10.2	HHDT
Mat Foundation	Hauling	0.00	20.0	HHDT
Mat Foundation	Onsite truck	0.00	0.00	HHDT
Grading/Foundation	—	—	—	—
Grading/Foundation	Worker	390	18.5	LDA,LDT1,LDT2
Grading/Foundation	Vendor	40.0	32.0	HHDT

Grading/Foundation	Hauling	600	41.0	HHDT
Grading/Foundation	Onsite truck	0.00	0.00	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	1,350	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	100	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	0.00	0.00	HHDT
Paving/Landscape	—	—	—	—
Paving/Landscape	Worker	0.00	18.5	LDA,LDT1,LDT2
Paving/Landscape	Vendor	—	10.2	HHDT,MHDT
Paving/Landscape	Hauling	0.00	20.0	HHDT
Paving/Landscape	Onsite truck	—	—	HHDT
Finishing/Architectural Coating	—	—	—	—
Finishing/Architectural Coating	Worker	1,940	18.5	LDA,LDT1,LDT2
Finishing/Architectural Coating	Vendor	70.0	10.2	HHDT,MHDT
Finishing/Architectural Coating	Hauling	0.00	20.0	HHDT
Finishing/Architectural Coating	Onsite truck	0.00	0.00	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	100	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	80.0	32.0	HHDT
Demolition	Onsite truck	0.00	0.00	HHDT
Mat Foundation	—	—	—	—
Mat Foundation	Worker	100	18.5	LDA,LDT1,LDT2

Mat Foundation	Vendor	1,000	10.2	HHDT
Mat Foundation	Hauling	0.00	20.0	HHDT
Mat Foundation	Onsite truck	0.00	0.00	HHDT
Grading/Foundation	—	—	—	—
Grading/Foundation	Worker	390	18.5	LDA,LDT1,LDT2
Grading/Foundation	Vendor	40.0	32.0	HHDT
Grading/Foundation	Hauling	600	41.0	HHDT
Grading/Foundation	Onsite truck	0.00	0.00	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	1,350	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	100	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	0.00	0.00	HHDT
Paving/Landscape	—	—	—	—
Paving/Landscape	Worker	0.00	18.5	LDA,LDT1,LDT2
Paving/Landscape	Vendor	—	10.2	HHDT,MHDT
Paving/Landscape	Hauling	0.00	20.0	HHDT
Paving/Landscape	Onsite truck	—	—	HHDT
Finishing/Architectural Coating	—	—	—	—
Finishing/Architectural Coating	Worker	1,940	18.5	LDA,LDT1,LDT2
Finishing/Architectural Coating	Vendor	70.0	10.2	HHDT,MHDT
Finishing/Architectural Coating	Hauling	0.00	20.0	HHDT
Finishing/Architectural Coating	Onsite truck	0.00	0.00	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)
Finishing/Architectural Coating	0.00	0.00	2,811,000	937,000	—

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	0.00	0.00	0.00	495,860	—
Grading/Foundation	50,000	772,000	278	0.00	—
Paving/Landscape	0.00	0.00	0.00	0.00	10.0

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
General Office Building	0.00	0%
Industrial Park	0.00	0%
Enclosed Parking with Elevator	0.00	100%
Unenclosed Parking Structure	10.0	100%
High Turnover (Sit Down Restaurant)	0.00	0%

Strip Mall	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2023	0.00	609	0.05	0.01
2024	2,540	601	0.05	0.01
2025	6,270	593	0.05	0.01
2026	3,731	585	0.05	0.01

8. User Changes to Default Data

Screen	Justification
Land Use	Default acreage was modified per CalEEMod Guidelines (Total area of Project Site entered under the predominate land use);
Construction: Construction Phases	Project Specific 32-Month Schedule
Construction: Off-Road Equipment	Project Specific Construction Equipment for each subphase. Also, default CalEEmod horsepower was increased from default where applicable.
Construction: Paving	Driveway/Surface Parking. Approximately 40% of the site would require paving.
Construction: Trips and VMT	Project specific trip rates. Note that Finishing/Architectural Coating trips include Asphalt/Landscape subphase trips. Also, grading haul lengths is a composite of 46 trips of the 600 haul trips per day to Buttonwillow (145 miles) and remaining haul trips to Irwindale (32 miles). Vendor trips could also be used for import/export. Thus, the trip type was changed to HHDT and the additional trips distance was factored into the haul trip length.
Construction: On-Road Fugitive Dust	—
Characteristics: Utility Information	Consistent with SB 100 Requirements
Construction: Architectural Coatings	Square Footage Consistent with CalEEMod 2020. Compliance with Rule 1113 VOC limits.
Construction: Electricity	Consistency with SB 100 requirements.

TVC-Construction Impacts Associated with Dewatering Custom Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	TVC-Construction Impacts Associated with Dewatering
Construction Start Date	10/1/2023
Lead Agency	City of Los Angeles
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	19.6
Location	34.07526837326408, -118.35992854757305
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4302
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.14

2. Emissions Summary

2.2. 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	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	3.53	2.97	28.2	28.2	0.04	1.29	0.26	1.55	1.19	0.06	1.25	—	4,398
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.10	0.08	0.77	0.78	< 0.005	0.04	0.01	0.04	0.03	< 0.005	0.03	—	121
2024	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2025	—	—	—	—	—	—	—	—	—	—	—	—	NaN
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.02	0.01	0.14	0.14	< 0.005	0.01	< 0.005	0.01	0.01	< 0.005	0.01	—	20.0
2024	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2025	—	—	—	—	—	—	—	—	—	—	—	—	NaN

2.3. Construction Emissions by Year, Mitigated

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	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.50	0.48	2.13	24.3	0.04	0.08	0.26	0.34	0.08	0.06	0.14	—	4,398
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.01	0.01	0.06	0.67	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	121
2024	—	—	—	—	—	—	—	—	—	—	—	—	NaN

2025	—	—	—	—	—	—	—	—	—	—	—	—	NaN
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	< 0.005	< 0.005	0.01	0.12	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	20.0
2024	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2025	—	—	—	—	—	—	—	—	—	—	—	—	NaN

3. Construction Emissions Details

3.1. Site Preparation (2023) - 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	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.42	2.88	28.0	26.9	0.04	1.29	—	1.29	1.19	—	1.19	—	4,121
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.08	0.77	0.74	< 0.005	0.04	—	0.04	0.03	—	0.03	—	113
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.14	0.13	< 0.005	0.01	—	0.01	0.01	—	0.01	—	18.7
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.09	0.12	1.39	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	277
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.71
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.28
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

3.2. Site Preparation (2023) - Mitigated

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	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.39	0.39	2.01	22.9	0.04	0.08	—	0.08	0.08	—	0.08	—	4,121
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.63	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	113
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	18.7
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.09	0.12	1.39	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	277

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.71
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.28
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Wells	Site Preparation	10/1/2023	10/15/2023	5.00	10.0	Groundwater Wells/Pumps Installation

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
Wells	Bore/Drill Rigs	Diesel	Average	2.00	8.00	367	0.40
Wells	Excavators	Diesel	Average	1.00	8.00	158	0.38
Wells	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Wells	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Wells	Bore/Drill Rigs	Diesel	Tier 4 Final	2.00	8.00	367	0.40
Wells	Excavators	Diesel	Tier 4 Final	1.00	8.00	158	0.38
Wells	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Wells	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	8.00	150	0.36

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Wells	—	—	—	—
Wells	Worker	20.0	18.5	LDA,LDT1,LDT2
Wells	Vendor	—	10.2	HHDT,MHDT
Wells	Hauling	0.00	32.0	HHDT
Wells	Onsite truck	0.00	0.00	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Wells	—	—	—	—
Wells	Worker	20.0	18.5	LDA,LDT1,LDT2
Wells	Vendor	—	10.2	HHDT,MHDT
Wells	Hauling	0.00	32.0	HHDT
Wells	Onsite truck	0.00	0.00	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Wells	—	—	0.00	0.00	—

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%

8. User Changes to Default Data

Screen	Justification
Land Use	Default acreage was modified per CalEEMod Guidelines (Total area of Project Site entered under the predominate land use);
Construction: Construction Phases	Groundwater Wells/Pumps Installation
Construction: Off-Road Equipment	Project Specific Construction Equipment for installation of dewatering wells.
Construction: Paving	No
Construction: Trips and VMT	Workers for installation of wells. Construction personnel included in the overall construction crew would maintain the system. No additional trips.
Construction: On-Road Fugitive Dust	—
Characteristics: Utility Information	Consistent with SB 100 Requirements
Construction: Architectural Coatings	Square Footage Consistent with CalEEMod 2020. Compliance with Rule 1113 VOC limits.
Construction: Electricity	Consistency with SB 100 requirements.

TVC-Construction Impacts with Mitigation Measures Localized v3 Custom Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	TVC-Construction Impacts with Mitigation Measures Localized v3
Construction Start Date	10/1/2023
Lead Agency	City of Los Angeles
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	19.6
Location	34.07526837326408, -118.35992854757305
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4302
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.14

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
General Office Building	1,400	1000sqft	25.0	1,400,000	0.00	—	—	—

Industrial Park	350	1000sqft	0.00	350,000	0.00	—	—	—
Enclosed Parking with Elevator	2,600	Space	0.00	1,040,000	0.00	—	—	—
Unenclosed Parking Structure	2,700	Space	0.00	1,080,000	0.00	—	—	—
High Turnover (Sit Down Restaurant)	5.00	1000sqft	0.00	5,000	0.00	—	—	—
Strip Mall	119.0	1000sqft	0.00	119,000	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers
Construction	C-12	Sweep Paved Roads

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	10.4	32.2	81.1	85.4	0.18	3.42	5.12	8.53	3.14	2.63	5.77	—	18,652
Mit.	1.88	30.3	17.3	105	0.18	0.35	5.12	5.47	0.35	2.63	2.98	—	18,652
% Reduced	82%	6%	79%	-23%	—	90%	—	36%	89%	—	48%	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	15.9	30.1	125	128	0.24	5.51	9.71	15.2	5.06	3.32	8.39	—	24,757
Mit.	2.50	28.8	23.4	142	0.24	0.46	9.71	10.2	0.46	3.32	3.79	—	24,757

% Reduced	84%	4%	81%	-11%	—	92%	—	33%	91%	—	55%	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.69	16.8	36.0	38.7	0.08	1.57	1.82	3.40	1.45	0.94	2.38	—	7,845
Mit.	0.82	15.6	8.63	45.9	0.08	0.15	1.82	1.97	0.15	0.94	1.08	—	7,848
% Reduced	83%	7%	76%	-19%	—	91%	—	42%	90%	—	55%	—	> -0.5%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.86	3.07	6.57	7.07	0.01	0.29	0.33	0.62	0.26	0.17	0.44	—	1,299
Mit.	0.15	2.85	1.57	8.38	0.01	0.03	0.33	0.36	0.03	0.17	0.20	—	1,299
% Reduced	83%	7%	76%	-19%	> -0.5%	91%	—	42%	90%	—	55%	—	> -0.5%

2.2. 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	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	10.4	8.74	81.1	85.4	0.18	3.42	5.12	8.53	3.14	2.63	5.77	—	18,652
2025	4.32	32.2	29.7	37.7	0.06	1.23	0.00	1.23	1.13	0.00	1.13	—	5,158
2026	2.52	31.9	16.4	22.8	0.03	0.53	0.00	0.53	0.49	0.00	0.49	—	3,075
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	15.9	13.3	125	128	0.24	5.51	9.71	15.2	5.06	3.32	8.39	—	24,757
2024	10.4	8.74	81.1	85.4	0.18	3.42	5.12	8.53	3.14	2.63	5.77	—	18,652
2025	2.45	30.1	18.6	23.1	0.04	0.85	0.00	0.85	0.78	0.00	0.78	—	3,380
2026	1.75	30.0	10.7	14.5	0.02	0.32	0.00	0.32	0.29	0.00	0.29	—	1,794
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—

2023	2.52	2.11	19.8	20.4	0.04	0.88	1.59	2.47	0.81	0.52	1.33	—	3,898
2024	4.69	3.93	36.0	38.7	0.08	1.57	1.82	3.40	1.45	0.94	2.38	—	7,845
2025	1.73	16.8	11.5	14.7	0.02	0.46	0.00	0.46	0.42	0.00	0.42	—	1,962
2026	0.56	8.98	3.50	4.75	0.01	0.11	0.00	0.11	0.10	0.00	0.10	—	605
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.46	0.39	3.61	3.72	0.01	0.16	0.29	0.45	0.15	0.09	0.24	—	645
2024	0.86	0.72	6.57	7.07	0.01	0.29	0.33	0.62	0.26	0.17	0.44	—	1,299
2025	0.32	3.07	2.09	2.68	< 0.005	0.08	0.00	0.08	0.08	0.00	0.08	—	325
2026	0.10	1.64	0.64	0.87	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	—	100

2.3. Construction Emissions by Year, Mitigated

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	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	1.88	1.88	17.3	105	0.18	0.35	5.12	5.47	0.35	2.63	2.98	—	18,652
2025	0.65	29.2	13.7	36.5	0.06	0.09	0.00	0.09	0.09	0.00	0.09	—	5,158
2026	0.44	30.3	12.0	21.6	0.03	0.05	0.00	0.05	0.05	0.00	0.05	—	3,075
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	2.50	2.50	23.4	142	0.24	0.46	9.71	10.2	0.46	3.32	3.79	—	24,757
2024	1.88	1.88	17.3	105	0.18	0.35	5.12	5.47	0.35	2.63	2.98	—	18,652
2025	0.39	28.8	7.13	23.8	0.04	0.06	0.00	0.06	0.06	0.00	0.06	—	3,380
2026	0.26	28.8	7.13	12.7	0.02	0.03	0.00	0.03	0.03	0.00	0.03	—	1,794
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.39	0.39	3.69	22.4	0.04	0.07	1.59	1.66	0.07	0.52	0.59	—	3,898
2024	0.82	0.81	8.63	45.9	0.08	0.15	1.82	1.97	0.15	0.94	1.08	—	7,848

2025	0.26	15.6	5.79	13.9	0.02	0.04	0.00	0.04	0.04	0.00	0.04	—	1,962
2026	0.09	8.60	2.39	4.27	0.01	0.01	0.00	0.01	0.01	0.00	0.01	—	605
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.07	0.07	0.67	4.09	0.01	0.01	0.29	0.30	0.01	0.09	0.11	—	645
2024	0.15	0.15	1.57	8.38	0.01	0.03	0.33	0.36	0.03	0.17	0.20	—	1,299
2025	0.05	2.85	1.06	2.53	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	—	325
2026	0.02	1.57	0.44	0.78	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	—	100

3. Construction Emissions Details

3.1. Demolition (2023) - 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	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.75	3.98	36.8	39.8	0.06	1.70	—	1.70	1.56	—	1.56	—	6,127
Demolition	—	—	—	—	—	—	4.60	4.60	—	0.70	0.70	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.85	0.71	6.56	7.09	0.01	0.30	—	0.30	0.28	—	0.28	—	1,091
Demolition	—	—	—	—	—	—	0.82	0.82	—	0.12	0.12	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	1.20	1.29	< 0.005	0.06	—	0.06	0.05	—	0.05	—	181
Demolition	—	—	—	—	—	—	0.15	0.15	—	0.02	0.02	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

3.2. Demolition (2023) - Mitigated

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	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	0.62	6.11	37.0	0.06	0.11	—	0.11	0.11	—	0.11	—	6,127
Demolition	—	—	—	—	—	—	4.60	4.60	—	0.70	0.70	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.11	1.09	6.59	0.01	0.02	—	0.02	0.02	—	0.02	—	1,091
Demolition	—	—	—	—	—	—	0.82	0.82	—	0.12	0.12	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.20	1.20	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	181
Demolition	—	—	—	—	—	—	0.15	0.15	—	0.02	0.02	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

3.3. Grading (2023) - 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	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	11.1	9.32	87.8	88.1	0.18	3.81	—	3.81	3.50	—	3.50	—	18,630
Dust From Material Movement	—	—	—	—	—	—	5.12	5.12	—	2.63	2.63	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.68	1.40	13.2	13.3	0.03	0.57	—	0.57	0.53	—	0.53	—	2,807
Dust From Material Movement	—	—	—	—	—	—	0.77	0.77	—	0.40	0.40	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.31	0.26	2.42	2.42	< 0.005	0.10	—	0.10	0.10	—	0.10	—	465
Dust From Material Movement	—	—	—	—	—	—	0.14	0.14	—	0.07	0.07	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

3.4. Grading (2023) - Mitigated

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	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.88	1.88	17.3	105	0.18	0.35	—	0.35	0.35	—	0.35	—	18,630
Dust From Material Movement	—	—	—	—	—	—	5.12	5.12	—	2.63	2.63	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.28	2.60	15.8	0.03	0.05	—	0.05	0.05	—	0.05	—	2,807
Dust From Material Movement	—	—	—	—	—	—	0.77	0.77	—	0.40	0.40	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.05	0.48	2.89	< 0.005	0.01	—	0.01	0.01	—	0.01	—	465
Dust From Material Movement	—	—	—	—	—	—	0.14	0.14	—	0.07	0.07	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

3.5. Grading (2024) - 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	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	10.4	8.74	81.1	85.4	0.18	3.42	—	3.42	3.14	—	3.14	—	18,646
Dust From Material Movement	—	—	—	—	—	—	5.12	5.12	—	2.63	2.63	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	10.4	8.74	81.1	85.4	0.18	3.42	—	3.42	3.14	—	3.14	—	18,646

Dust From Material Movement	—	—	—	—	—	—	5.12	5.12	—	2.63	2.63	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.72	3.11	28.9	30.4	0.06	1.22	—	1.22	1.12	—	1.12	—	6,641
Dust From Material Movement	—	—	—	—	—	—	1.82	1.82	—	0.94	0.94	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.68	0.57	5.27	5.55	0.01	0.22	—	0.22	0.20	—	0.20	—	1,100
Dust From Material Movement	—	—	—	—	—	—	0.33	0.33	—	0.17	0.17	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

3.6. Grading (2024) - Mitigated

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	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.88	1.88	17.3	105	0.18	0.35	—	0.35	0.35	—	0.35	—	18,646
Dust From Material Movement	—	—	—	—	—	—	5.12	5.12	—	2.63	2.63	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.88	1.88	17.3	105	0.18	0.35	—	0.35	0.35	—	0.35	—	18,646
Dust From Material Movement	—	—	—	—	—	—	5.12	5.12	—	2.63	2.63	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.67	0.67	6.15	37.4	0.06	0.12	—	0.12	0.12	—	0.12	—	6,641
Dust From Material Movement	—	—	—	—	—	—	1.82	1.82	—	0.94	0.94	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.12	1.12	6.83	0.01	0.02	—	0.02	0.02	—	0.02	—	1,100
Dust From Material Movement	—	—	—	—	—	—	0.33	0.33	—	0.17	0.17	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

3.7. Building Construction (2024) - 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	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.25	1.86	15.4	16.5	0.03	0.50	—	0.50	0.46	—	0.46	—	2,396
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.21	0.23	< 0.005	0.01	—	0.01	0.01	—	0.01	—	32.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	< 0.005	0.04	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.43
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

3.8. Building Construction (2024) - Mitigated

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	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.83	0.74	13.6	18.3	0.03	0.16	—	0.16	0.15	—	0.15	—	2,603
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.01	0.01	0.19	0.25	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	35.7
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.90
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

3.9. Building Construction (2024) - 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	CO2e

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.72	2.27	20.0	23.3	0.04	1.01	—	1.01	0.93	—	0.93	—	3,370
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.72	2.27	20.0	23.3	0.04	1.01	—	1.01	0.93	—	0.93	—	3,370
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.94	0.79	6.94	8.09	0.01	0.35	—	0.35	0.32	—	0.32	—	1,167
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	0.14	1.27	1.48	< 0.005	0.06	—	0.06	0.06	—	0.06	—	193
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

3.10. Building Construction (2024) - Mitigated

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	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.39	0.39	6.62	23.8	0.04	0.06	—	0.06	0.06	—	0.06	—	3,370
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.39	0.39	6.62	23.8	0.04	0.06	—	0.06	0.06	—	0.06	—	3,370
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.14	2.29	8.23	0.01	0.02	—	0.02	0.02	—	0.02	—	1,167

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.42	1.50	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	193
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

3.11. Building Construction (2025) - 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	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.45	2.04	18.6	23.1	0.04	0.85	—	0.85	0.78	—	0.78	—	3,368
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.45	2.04	18.6	23.1	0.04	0.85	—	0.85	0.78	—	0.78	—	3,368
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72	0.60	5.48	6.83	0.01	0.25	—	0.25	0.23	—	0.23	—	995
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.11	1.00	1.25	< 0.005	0.05	—	0.05	0.04	—	0.04	—	165
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

3.12. Building Construction (2025) - Mitigated

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	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.39	0.39	6.62	23.8	0.04	0.06	—	0.06	0.06	—	0.06	—	3,368
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.39	0.39	6.62	23.8	0.04	0.06	—	0.06	0.06	—	0.06	—	3,368
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.12	0.12	1.95	7.02	0.01	0.02	—	0.02	0.02	—	0.02	—	995
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.36	1.28	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	165
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

3.13. Paving (2026) - 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	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.77	0.65	5.74	8.29	0.01	0.21	—	0.21	0.19	—	0.19	—	1,281
Paving	—	1.25	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.33	0.48	< 0.005	0.01	—	0.01	0.01	—	0.01	—	73.7
Paving	—	0.07	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.2
Paving	—	0.01	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

3.14. Paving (2026) - Mitigated

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	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.18	4.83	8.93	0.01	0.02	—	0.02	0.02	—	0.02	—	1,281
Paving	—	1.25	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.28	0.51	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	73.7

Paving	—	0.07	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.05	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.2
Paving	—	0.01	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

3.15. Architectural Coating (2025) - 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	CO2e

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.87	1.55	11.1	14.6	0.02	0.38	—	0.38	0.35	—	0.35	—	1,778
Architectural Coatings	—	28.6	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.87	1.55	11.1	14.6	0.02	0.38	—	0.38	0.35	—	0.35	—	1,778
Architectural Coatings	—	28.6	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.01	0.83	5.98	7.83	0.01	0.20	—	0.20	0.19	—	0.19	—	957
Architectural Coatings	—	15.4	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.15	1.09	1.43	< 0.005	0.04	—	0.04	0.03	—	0.03	—	158
Architectural Coatings	—	2.81	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

3.16. Architectural Coating (2025) - Mitigated

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	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.26	0.26	7.13	12.7	0.02	0.03	—	0.03	0.03	—	0.03	—	1,778
Architectural Coatings	—	28.6	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.26	0.26	7.13	12.7	0.02	0.03	—	0.03	0.03	—	0.03	—	1,778
Architectural Coatings	—	28.6	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.14	3.84	6.84	0.01	0.02	—	0.02	0.02	—	0.02	—	957
Architectural Coatings	—	15.4	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.70	1.25	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	158
Architectural Coatings	—	2.81	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

3.17. Architectural Coating (2026) - 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	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.75	1.45	10.7	14.5	0.02	0.32	—	0.32	0.29	—	0.29	—	1,777
Architectural Coatings	—	28.6	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.75	1.45	10.7	14.5	0.02	0.32	—	0.32	0.29	—	0.29	—	1,777
Architectural Coatings	—	28.6	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.52	0.43	3.17	4.28	0.01	0.09	—	0.09	0.09	—	0.09	—	525
Architectural Coatings	—	8.45	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.08	0.58	0.78	< 0.005	0.02	—	0.02	0.02	—	0.02	—	87.0
Architectural Coatings	—	1.54	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

3.18. Architectural Coating (2026) - Mitigated

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	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.26	0.26	7.13	12.7	0.02	0.03	—	0.03	0.03	—	0.03	—	1,777
Architectural Coatings	—	28.6	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.26	0.26	7.13	12.7	0.02	0.03	—	0.03	0.03	—	0.03	—	1,777
Architectural Coatings	—	28.6	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.08	2.11	3.76	0.01	0.01	—	0.01	0.01	—	0.01	—	525
Architectural Coatings	—	8.45	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.01	0.01	0.38	0.69	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	87.0
Architectural Coatings	—	1.54	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

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	10/1/2023	12/31/2023	5.00	65.0	—
Grading/Foundation	Grading	10/16/2023	6/30/2024	5.00	185	—
Mat Foundation	Building Construction	7/1/2024	7/7/2024	5.00	5.00	—
Building Construction	Building Construction	7/8/2024	5/31/2025	5.00	235	—
Paving/Landscape	Paving	5/1/2026	5/31/2026	5.00	21.0	—
Finishing/Architectural Coating	Architectural Coating	4/1/2025	5/31/2026	5.00	304	—

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	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Demolition	Excavators	Diesel	Average	4.00	8.00	158	0.38
Demolition	Concrete/Industrial Saws	Diesel	Average	2.00	8.00	49.0	0.73
Demolition	Other Construction Equipment	Diesel	Average	1.00	8.00	99.0	0.42
Grading/Foundation	Excavators	Diesel	Average	3.00	8.00	158	0.38
Grading/Foundation	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	97.0	0.37
Grading/Foundation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Grading/Foundation	Bore/Drill Rigs	Diesel	Average	6.00	8.00	221	0.50
Grading/Foundation	Pumps	Diesel	Average	4.00	8.00	49.0	0.74
Grading/Foundation	Cranes	Diesel	Average	2.00	8.00	367	0.29
Grading/Foundation	Welders	Diesel	Average	2.00	8.00	46.0	0.45

Grading/Foundation	Other Construction Equipment	Diesel	Average	2.00	8.00	99.0	0.42
Grading/Foundation	Rubber Tired Loaders	Diesel	Average	2.00	8.00	150	0.36
Mat Foundation	Pumps	Diesel	Average	6.00	8.00	49.0	0.74
Mat Foundation	Plate Compactors	Diesel	Average	6.00	8.00	8.00	0.43
Building Construction	Forklifts	Diesel	Average	2.00	8.00	89.0	0.20
Building Construction	Cranes	Electric	Average	4.00	8.00	367	0.29
Building Construction	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	97.0	0.37
Building Construction	Pumps	Diesel	Average	2.00	8.00	49.0	0.74
Building Construction	Other Construction Equipment	Diesel	Average	4.00	8.00	99.0	0.42
Building Construction	Aerial Lifts	Electric	Average	14.0	8.00	46.0	0.31
Paving/Landscape	Paving Equipment	Diesel	Average	1.00	8.00	99.0	0.36
Paving/Landscape	Rollers	Diesel	Average	1.00	8.00	49.9	0.38
Paving/Landscape	Skid Steer Loaders	Diesel	Average	2.00	8.00	71.0	0.37
Paving/Landscape	Trenchers	Diesel	Average	1.00	8.00	49.9	0.50
Finishing/Architectural Coating	Aerial Lifts	Electric	Average	14.0	8.00	46.0	0.31
Finishing/Architectural Coating	Air Compressors	Diesel	Average	6.00	8.00	49.9	0.48
Finishing/Architectural Coating	Cranes	Electric	Average	4.00	8.00	367	0.29
Finishing/Architectural Coating	Forklifts	Diesel	Average	2.00	8.00	89.0	0.20

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	367	0.40

Demolition	Excavators	Diesel	Tier 4 Final	4.00	8.00	158	0.38
Demolition	Concrete/Industrial Saws	Diesel	Tier 4 Final	2.00	8.00	49.0	0.73
Demolition	Other Construction Equipment	Diesel	Tier 4 Final	1.00	8.00	99.0	0.42
Grading/Foundation	Excavators	Diesel	Tier 4 Final	3.00	8.00	158	0.38
Grading/Foundation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	8.00	97.0	0.37
Grading/Foundation	Rubber Tired Dozers	Diesel	Tier 4 Final	3.00	8.00	367	0.40
Grading/Foundation	Bore/Drill Rigs	Diesel	Tier 4 Final	6.00	8.00	221	0.50
Grading/Foundation	Pumps	Diesel	Tier 4 Final	4.00	8.00	49.0	0.74
Grading/Foundation	Cranes	Diesel	Tier 4 Final	2.00	8.00	367	0.29
Grading/Foundation	Welders	Diesel	Tier 4 Final	2.00	8.00	46.0	0.45
Grading/Foundation	Other Construction Equipment	Diesel	Tier 4 Final	2.00	8.00	99.0	0.42
Grading/Foundation	Rubber Tired Loaders	Diesel	Tier 4 Final	2.00	8.00	150	0.36
Mat Foundation	Pumps	Diesel	Tier 4 Final	6.00	8.00	49.0	0.74
Mat Foundation	Plate Compactors	Diesel	Average	6.00	8.00	8.00	0.43
Building Construction	Forklifts	Diesel	Tier 4 Final	2.00	8.00	89.0	0.20
Building Construction	Cranes	Electric	Average	4.00	8.00	367	0.29
Building Construction	Welders	Diesel	Tier 4 Final	2.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	97.0	0.37
Building Construction	Pumps	Diesel	Tier 4 Final	2.00	8.00	49.0	0.74
Building Construction	Other Construction Equipment	Diesel	Tier 4 Final	4.00	8.00	99.0	0.42
Building Construction	Aerial Lifts	Electric	Average	14.0	8.00	46.0	0.31
Paving/Landscape	Paving Equipment	Diesel	Tier 4 Final	1.00	8.00	99.0	0.36
Paving/Landscape	Rollers	Diesel	Tier 4 Final	1.00	8.00	49.9	0.38
Paving/Landscape	Skid Steer Loaders	Diesel	Tier 4 Final	2.00	8.00	71.0	0.37

Paving/Landscape	Trenchers	Diesel	Tier 4 Final	1.00	8.00	49.9	0.50
Finishing/Architectural Coating	Aerial Lifts	Electric	Average	14.0	8.00	46.0	0.31
Finishing/Architectural Coating	Air Compressors	Diesel	Tier 4 Final	6.00	8.00	49.9	0.48
Finishing/Architectural Coating	Cranes	Electric	Average	4.00	8.00	367	0.29
Finishing/Architectural Coating	Forklifts	Diesel	Tier 4 Final	2.00	8.00	89.0	0.20

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	0.00	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	0.00	32.0	HHDT
Demolition	Onsite truck	0.00	0.00	HHDT
Mat Foundation	—	—	—	—
Mat Foundation	Worker	0.00	18.5	LDA,LDT1,LDT2
Mat Foundation	Vendor	0.00	10.2	HHDT
Mat Foundation	Hauling	0.00	20.0	HHDT
Mat Foundation	Onsite truck	0.00	0.00	HHDT
Grading/Foundation	—	—	—	—
Grading/Foundation	Worker	0.00	18.5	LDA,LDT1,LDT2
Grading/Foundation	Vendor	0.00	32.0	HHDT
Grading/Foundation	Hauling	0.00	41.0	HHDT
Grading/Foundation	Onsite truck	0.00	0.00	HHDT

Building Construction	—	—	—	—
Building Construction	Worker	0.00	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	0.00	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	0.00	0.00	HHDT
Paving/Landscape	—	—	—	—
Paving/Landscape	Worker	0.00	18.5	LDA,LDT1,LDT2
Paving/Landscape	Vendor	—	10.2	HHDT,MHDT
Paving/Landscape	Hauling	0.00	20.0	HHDT
Paving/Landscape	Onsite truck	—	—	HHDT
Finishing/Architectural Coating	—	—	—	—
Finishing/Architectural Coating	Worker	0.00	18.5	LDA,LDT1,LDT2
Finishing/Architectural Coating	Vendor	0.00	10.2	HHDT,MHDT
Finishing/Architectural Coating	Hauling	0.00	20.0	HHDT
Finishing/Architectural Coating	Onsite truck	0.00	0.00	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	0.00	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	0.00	32.0	HHDT
Demolition	Onsite truck	0.00	0.00	HHDT
Mat Foundation	—	—	—	—
Mat Foundation	Worker	0.00	18.5	LDA,LDT1,LDT2
Mat Foundation	Vendor	0.00	10.2	HHDT
Mat Foundation	Hauling	0.00	20.0	HHDT

Mat Foundation	Onsite truck	0.00	0.00	HHDT
Grading/Foundation	—	—	—	—
Grading/Foundation	Worker	0.00	18.5	LDA,LDT1,LDT2
Grading/Foundation	Vendor	0.00	32.0	HHDT
Grading/Foundation	Hauling	0.00	41.0	HHDT
Grading/Foundation	Onsite truck	0.00	0.00	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	0.00	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	0.00	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	0.00	0.00	HHDT
Paving/Landscape	—	—	—	—
Paving/Landscape	Worker	0.00	18.5	LDA,LDT1,LDT2
Paving/Landscape	Vendor	—	10.2	HHDT,MHDT
Paving/Landscape	Hauling	0.00	20.0	HHDT
Paving/Landscape	Onsite truck	—	—	HHDT
Finishing/Architectural Coating	—	—	—	—
Finishing/Architectural Coating	Worker	0.00	18.5	LDA,LDT1,LDT2
Finishing/Architectural Coating	Vendor	0.00	10.2	HHDT,MHDT
Finishing/Architectural Coating	Hauling	0.00	20.0	HHDT
Finishing/Architectural Coating	Onsite truck	0.00	0.00	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)
Finishing/Architectural Coating	0.00	0.00	2,811,000	937,000	—

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	0.00	0.00	0.00	495,860	—
Grading/Foundation	50,000	772,000	278	0.00	—
Paving/Landscape	0.00	0.00	0.00	0.00	10.0

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
General Office Building	0.00	0%
Industrial Park	0.00	0%
Enclosed Parking with Elevator	0.00	100%
Unenclosed Parking Structure	10.0	100%
High Turnover (Sit Down Restaurant)	0.00	0%
Strip Mall	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2023	0.00	609	0.05	0.01
2024	2,540	601	0.05	0.01
2025	6,270	595	0.05	0.01
2026	3,731	585	0.05	0.01

8. User Changes to Default Data

Screen	Justification
Land Use	Default acreage was modified per CalEEMod Guidelines (Total area of Project Site entered under the predominate land use);
Construction: Construction Phases	Project Specific 32-Month Schedule
Construction: Off-Road Equipment	Project Specific Construction Equipment for each subphase. Also, default CalEEmod horsepower was increased from default where applicable.
Construction: Paving	Driveway/Surface Parking. Approximately 40% of the site would require paving.
Construction: Trips and VMT	On-Site Emissions are calculated using a spreadsheet. See attached spreadsheet.
Construction: On-Road Fugitive Dust	—
Characteristics: Utility Information	Consistent with SB 100 Requirements
Construction: Architectural Coatings	Square Footage Consistent with CalEEMod 2020. Compliance with Rule 1113 VOC limits.
Construction: Electricity	Consistency with SB 100 requirements.

TVC-Construction Impacts Associated with Long-Term Buildout (one extra employee on a daily basis) Custom Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	TVC-Construction Impacts Associated with Long-Term Buildout (one extra employee on a daily basis)
Construction Start Date	10/1/2023
Lead Agency	City of Los Angeles
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	19.6
Location	34.07526837326408, -118.35992854757305
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4302
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.13

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.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.01	0.01	0.15	0.00	0.00	0.03	0.03	0.00	0.01	0.01	31.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.01	0.01	0.13	0.00	0.00	0.03	0.03	0.00	0.01	0.01	29.4
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.01	0.01	0.10	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	22.1
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	3.66

2.2. 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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
2024	0.01	0.01	0.15	0.00	0.00	0.03	0.03	0.00	0.01	0.01	31.0
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
2024	0.01	0.01	0.13	0.00	0.00	0.03	0.03	0.00	0.01	0.01	29.4
Average Daily	—	—	—	—	—	—	—	—	—	—	—
2023	—	—	—	—	—	—	—	—	—	—	NaN
2024	0.01	0.01	0.10	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	22.1
2025	—	—	—	—	—	—	—	—	—	—	NaN

2026	—	—	—	—	—	—	—	—	—	—	NaN
2027	—	—	—	—	—	—	—	—	—	—	NaN
2028	—	—	—	—	—	—	—	—	—	—	NaN
2029	—	—	—	—	—	—	—	—	—	—	NaN
2030	—	—	—	—	—	—	—	—	—	—	NaN
2031	—	—	—	—	—	—	—	—	—	—	NaN
2032	—	—	—	—	—	—	—	—	—	—	NaN
2033	—	—	—	—	—	—	—	—	—	—	NaN
2034	—	—	—	—	—	—	—	—	—	—	NaN
2035	—	—	—	—	—	—	—	—	—	—	NaN
2036	—	—	—	—	—	—	—	—	—	—	NaN
2037	—	—	—	—	—	—	—	—	—	—	NaN
2038	—	—	—	—	—	—	—	—	—	—	NaN
2039	—	—	—	—	—	—	—	—	—	—	NaN
2040	—	—	—	—	—	—	—	—	—	—	NaN
2041	—	—	—	—	—	—	—	—	—	—	NaN
2042	—	—	—	—	—	—	—	—	—	—	NaN
2043	—	—	—	—	—	—	—	—	—	—	NaN
Annual	—	—	—	—	—	—	—	—	—	—	—
2023	—	—	—	—	—	—	—	—	—	—	NaN
2024	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	3.66
2025	—	—	—	—	—	—	—	—	—	—	NaN
2026	—	—	—	—	—	—	—	—	—	—	NaN
2027	—	—	—	—	—	—	—	—	—	—	NaN
2028	—	—	—	—	—	—	—	—	—	—	NaN
2029	—	—	—	—	—	—	—	—	—	—	NaN
2030	—	—	—	—	—	—	—	—	—	—	NaN

2031	—	—	—	—	—	—	—	—	—	—	NaN
2032	—	—	—	—	—	—	—	—	—	—	NaN
2033	—	—	—	—	—	—	—	—	—	—	NaN
2034	—	—	—	—	—	—	—	—	—	—	NaN
2035	—	—	—	—	—	—	—	—	—	—	NaN
2036	—	—	—	—	—	—	—	—	—	—	NaN
2037	—	—	—	—	—	—	—	—	—	—	NaN
2038	—	—	—	—	—	—	—	—	—	—	NaN
2039	—	—	—	—	—	—	—	—	—	—	NaN
2040	—	—	—	—	—	—	—	—	—	—	NaN
2041	—	—	—	—	—	—	—	—	—	—	NaN
2042	—	—	—	—	—	—	—	—	—	—	NaN
2043	—	—	—	—	—	—	—	—	—	—	NaN

3. Construction Emissions Details

3.1. Building Construction (2024) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.15	0.00	0.00	0.03	0.03	0.00	0.01	0.01	28.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.13	0.00	0.00	0.03	0.03	0.00	0.01	0.01	27.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.10	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	20.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	3.37
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Project Management	Building Construction	1/01/2024	12/31/2024	5.00	270	—

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

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Project Management	—	—	—	—
Project Management	Worker	2.00	18.5	LDA,LDT1,LDT2
Project Management	Vendor	0.00	32.0	HHDT
Project Management	Hauling	0.00	41.0	HHDT
Project Management	Onsite truck	0.00	0.00	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

8. User Changes to Default Data

Screen	Justification
Land Use	Default acreage was modified per CalEEMod Guidelines (Total area of Project Site entered under the predominate land use);
Construction: Construction Phases	Extra Project Management Trips related to long-term buildout scenario (annual basis).
Construction: Off-Road Equipment	No Additional Equipment
Construction: Paving	No
Construction: Trips and VMT	Project Management

Construction: On-Road Fugitive Dust	—
Characteristics: Utility Information	LADWP 2021 Power Content Label
Construction: Architectural Coatings	Square Footage Consistent with CalEEMod 2020. Compliance with Rule 1113 VOC limits.
Construction: Electricity	LADWP Power Content Label for Year 2021

TVC - Worker Trips During Grading/Excavation Phase Detailed Report

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5.3.1. Unmitigated

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5.18.1.2. Mitigated

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5.18.1.1. Unmitigated

5.18.1.2. Mitigated

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5.18.2.1. Unmitigated

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	TVC - Worker Trips During Grading/Excavation Phase
Construction Start Date	10/1/2023
Lead Agency	City of Los Angeles
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	19.6
Location	34.07526837326408, -118.35992854757305
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4302
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.18

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
General Office Building	1,400	1000sqft	25.0	1,400,000	0.00	—	—	—

Industrial Park	454	1000sqft	0.00	454,000	0.00	—	—	—
Enclosed Parking with Elevator	2,600	Space	0.00	1,040,000	0.00	—	—	—
Unenclosed Parking Structure	2,700	Space	0.00	1,080,000	0.00	—	—	—
High Turnover (Sit Down Restaurant)	5.00	1000sqft	0.00	5,000	0.00	—	—	—
Strip Mall	15.0	1000sqft	0.00	15,000	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-12	Sweep Paved Roads

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.50	0.45	0.48	7.55	< 0.005	< 0.005	1.31	1.31	< 0.005	0.31	0.31	—	1,434
Mit.	0.50	0.45	0.48	7.55	< 0.005	< 0.005	1.31	1.31	< 0.005	0.31	0.31	—	1,434
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.56	0.46	0.62	6.94	< 0.005	< 0.005	1.31	1.31	< 0.005	0.31	0.31	—	1,385
Mit.	0.56	0.46	0.62	6.94	< 0.005	< 0.005	1.31	1.31	< 0.005	0.31	0.31	—	1,385
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.18	0.16	0.20	2.39	< 0.005	< 0.005	0.46	0.46	< 0.005	0.11	0.11	—	491
Mit.	0.18	0.16	0.20	2.39	< 0.005	< 0.005	0.46	0.46	< 0.005	0.11	0.11	—	491
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.03	0.03	0.04	0.44	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	81.2
Mit.	0.03	0.03	0.04	0.44	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	81.2
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—

2.2. 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	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.50	0.45	0.48	7.55	< 0.005	< 0.005	1.31	1.31	< 0.005	0.31	0.31	—	1,434
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.56	0.46	0.62	6.94	< 0.005	< 0.005	1.31	1.31	< 0.005	0.31	0.31	—	1,385
2024	0.49	0.44	0.57	6.38	< 0.005	< 0.005	1.31	1.31	< 0.005	0.31	0.31	—	1,355
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.08	0.07	0.09	1.10	< 0.005	< 0.005	0.19	0.19	< 0.005	0.05	0.05	—	212
2024	0.18	0.16	0.20	2.39	< 0.005	< 0.005	0.46	0.46	< 0.005	0.11	0.11	—	491
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.02	0.01	0.02	0.20	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	35.1
2024	0.03	0.03	0.04	0.44	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	81.2

2.3. Construction Emissions by Year, Mitigated

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	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.50	0.45	0.48	7.55	< 0.005	< 0.005	1.31	1.31	< 0.005	0.31	0.31	—	1,434
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.56	0.46	0.62	6.94	< 0.005	< 0.005	1.31	1.31	< 0.005	0.31	0.31	—	1,385
2024	0.49	0.44	0.57	6.38	< 0.005	< 0.005	1.31	1.31	< 0.005	0.31	0.31	—	1,355
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.08	0.07	0.09	1.10	< 0.005	< 0.005	0.19	0.19	< 0.005	0.05	0.05	—	212
2024	0.18	0.16	0.20	2.39	< 0.005	< 0.005	0.46	0.46	< 0.005	0.11	0.11	—	491
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.02	0.01	0.02	0.20	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	35.1
2024	0.03	0.03	0.04	0.44	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	81.2

3. Construction Emissions Details

3.1. Grading/Foundation (2023) - 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	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.79
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.12
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.02
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.56	0.46	0.61	6.94	0.00	0.00	1.31	1.31	0.00	0.31	0.31	—	—
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.09	1.10	0.00	0.00	0.19	0.19	0.00	0.05	0.05	—	—
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.02	0.20	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	—
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—

3.2. Grading/Foundation (2023) - Mitigated

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	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.79
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.12

Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.02
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.56	0.46	0.61	6.94	0.00	0.00	1.31	1.31	0.00	0.31	0.31	—	—
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.09	1.10	0.00	0.00	0.19	0.19	0.00	0.05	0.05	—	—
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.02	0.20	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	—
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—

3.3. Grading/Foundation (2024) - 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	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.79
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.79
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.28
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.05

Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.50	0.45	0.48	7.54	0.00	0.00	1.31	1.31	0.00	0.31	0.31	—	—
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.49	0.44	0.57	6.38	0.00	0.00	1.31	1.31	0.00	0.31	0.31	—	—
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.18	0.16	0.20	2.39	0.00	0.00	0.46	0.46	0.00	0.11	0.11	—	—
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.04	0.44	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	—
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—

3.4. Grading/Foundation (2024) - Mitigated

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	CO2e

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.79
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.79
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.28
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.05
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.50	0.45	0.48	7.54	0.00	0.00	1.31	1.31	0.00	0.31	0.31	—	—
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.49	0.44	0.57	6.38	0.00	0.00	1.31	1.31	0.00	0.31	0.31	—	—
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.18	0.16	0.20	2.39	0.00	0.00	0.46	0.46	0.00	0.11	0.11	—	—
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.04	0.44	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	—
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—

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	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	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	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	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	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	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

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Grading/Foundation	Grading	10/16/2023	6/30/2024	5.00	185	—

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
Grading/Foundation	Other Construction Equipment	Diesel	Average	1.00	1.00	1.00	0.42

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Grading/Foundation	Other Construction Equipment	Diesel	Average	1.00	1.00	1.00	0.42

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Grading/Foundation	—	—	—	—
Grading/Foundation	Worker	100	18.5	LDA,LDT1,LDT2
Grading/Foundation	Vendor	0.00	32.0	HHDT
Grading/Foundation	Hauling	0.00	41.0	HHDT
Grading/Foundation	Onsite truck	0.00	0.00	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix

Grading/Foundation	—	—	—	—
Grading/Foundation	Worker	100	18.5	LDA,LDT1,LDT2
Grading/Foundation	Vendor	0.00	32.0	HHDT
Grading/Foundation	Hauling	0.00	41.0	HHDT
Grading/Foundation	Onsite truck	0.00	0.00	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)

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 (sq. ft.)	Acres Paved (acres)
Grading/Foundation	0.00	0.00	278	0.00	—

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt

General Office Building	0.00	0%
Industrial Park	0.00	0%
Enclosed Parking with Elevator	0.00	100%
Unenclosed Parking Structure	0.00	100%
High Turnover (Sit Down Restaurant)	0.00	0%
Strip Mall	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2023	0.00	690	0.05	0.01
2024	0.00	690	0.05	0.01

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

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	7.38	annual days of extreme heat
Extreme Precipitation	6.85	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	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 (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth 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 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

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	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	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	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	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	N/A	N/A	N/A	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 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	53.7
AQ-PM	67.1
AQ-DPM	70.9
Drinking Water	92.5
Lead Risk Housing	55.1
Pesticides	0.00
Toxic Releases	74.9
Traffic	69.4
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	48.5
Haz Waste Facilities/Generators	90.7
Impaired Water Bodies	0.00
Solid Waste	0.00

Sensitive Population	—
Asthma	28.0
Cardio-vascular	49.2
Low Birth Weights	45.1
Socioeconomic Factor Indicators	—
Education	11.4
Housing	82.6
Linguistic	66.9
Poverty	28.6
Unemployment	58.4

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	63.22340562
Employed	90.28615424
Median HI	70.39650969
Education	—
Bachelor's or higher	92.92955216
High school enrollment	1.206210702
Preschool enrollment	87.73258052
Transportation	—
Auto Access	19.09405877
Active commuting	69.16463493
Social	—
2-parent households	43.21827281

Voting	19.55601181
Neighborhood	—
Alcohol availability	23.04632362
Park access	81.35506224
Retail density	98.17785192
Supermarket access	84.51174131
Tree canopy	59.50211728
Housing	—
Homeownership	1.039394328
Housing habitability	47.70948287
Low-inc homeowner severe housing cost burden	99.12742205
Low-inc renter severe housing cost burden	36.94341075
Uncrowded housing	72.73193892
Health Outcomes	—
Insured adults	61.5167458
Arthritis	96.2
Asthma ER Admissions	78.2
High Blood Pressure	96.1
Cancer (excluding skin)	57.8
Asthma	88.8
Coronary Heart Disease	95.4
Chronic Obstructive Pulmonary Disease	97.2
Diagnosed Diabetes	97.7
Life Expectancy at Birth	86.5
Cognitively Disabled	36.6
Physically Disabled	65.4
Heart Attack ER Admissions	63.3

Mental Health Not Good	89.0
Chronic Kidney Disease	97.1
Obesity	92.8
Pedestrian Injuries	69.2
Physical Health Not Good	97.3
Stroke	95.7
Health Risk Behaviors	—
Binge Drinking	16.3
Current Smoker	87.7
No Leisure Time for Physical Activity	95.4
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	14.8
Elderly	63.3
English Speaking	36.4
Foreign-born	75.1
Outdoor Workers	93.4
Climate Change Adaptive Capacity	—
Impervious Surface Cover	23.6
Traffic Density	85.2
Traffic Access	87.4
Other Indices	—
Hardship	5.9
Other Decision Support	—
2016 Voting	28.0

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	56.0
Healthy Places Index Score for Project Location (b)	56.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
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

Screen	Justification
Land Use	Default acreage was modified per CalEEMod Guidelines (Total area of Project Site entered under the predominate land use);
Construction: Construction Phases	Project Specific 32-Month Schedule
Construction: Off-Road Equipment	Run to calculate worker trips emissions
Construction: Paving	—
Construction: Trips and VMT	Run to calculate 100 worker trip emissions
Construction: On-Road Fugitive Dust	—
Characteristics: Utility Information	Consistent with SB 100 Requirements

Construction: Architectural Coatings	Square Footage Consistent with CalEEMod 2020. Compliance with Rule 1113 VOC limits.
Construction: Electricity	Consistency with SB 100 requirements.
Construction: Dust From Material Movement	Run to calculate worker trips emissions

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5.9.1. Unmitigated

5.9.2. Mitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.10.4. Landscape Equipment - Mitigated

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.11.2. Mitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.12.2. Mitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.13.2. Mitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.14.2. Mitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	TVC-Existing 2021 v2
Operational Year	2021
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	19.6
Location	34.07542868385967, -118.35987067242141
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4302
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.14

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
General Office Building	323	1000sqft	0.00	322,690	0.00	—	—	—

Industrial Park	95.5	1000sqft	0.00	95,540	0.00	—	—	—
Strip Mall	325	1000sqft	25.0	325,450	0.00	—	—	—
Parking Lot	1,500	Space	0.00	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Waste	S-1/S-2	Implement Waste Reduction Plan

2. Emissions Summary

2.4. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	19.5	33.4	17.1	203	0.26	—	—	—	—	—	—	50,029
Mit.	19.5	33.4	17.1	203	0.26	—	—	—	—	—	—	48,934
% Reduced	—	—	—	—	—	—	—	—	—	—	—	2%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	19.2	33.1	18.4	194	0.25	—	—	—	—	—	—	48,874
Mit.	19.2	33.1	18.4	194	0.25	—	—	—	—	—	—	47,779
% Reduced	—	—	—	—	—	—	—	—	—	—	—	2%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	13.9	28.2	14.7	113	0.20	—	—	—	—	—	—	43,108
Mit.	13.9	28.2	14.7	113	0.20	—	—	—	—	—	—	42,012

% Reduced	—	—	—	—	—	—	—	—	—	—	—	3%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.54	5.15	2.68	20.6	0.04	—	—	—	—	—	—	7,137
Mit.	2.54	5.15	2.68	20.6	0.04	—	—	—	—	—	—	6,956
% Reduced	—	—	—	—	—	—	—	—	—	—	—	3%

2.5. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	17.8	16.2	13.6	134	0.24	0.19	19.9	20.1	0.18	5.05	5.23	25,448
Area	1.39	17.0	0.37	61.8	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Energy	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	20,877
Water	—	—	—	—	—	—	—	—	—	—	—	2,034
Waste	—	—	—	—	—	—	—	—	—	—	—	1,434
Refrig.	—	—	—	—	—	—	—	—	—	—	—	27.7
Off-Road	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Vegetation	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Total	19.5	33.4	17.1	203	0.26	NaN	NaN	NaN	NaN	NaN	NaN	50,029
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	17.5	16.0	14.9	125	0.23	0.19	19.9	20.1	0.18	5.05	5.23	24,293
Area	1.39	17.0	0.37	61.8	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Energy	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	20,877
Water	—	—	—	—	—	—	—	—	—	—	—	2,034
Waste	—	—	—	—	—	—	—	—	—	—	—	1,434

Refrig.	—	—	—	—	—	—	—	—	—	—	—	27.7
Off-Road	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Vegetation	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Total	19.2	33.1	18.4	194	0.25	NaN	NaN	NaN	NaN	NaN	NaN	48,874
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	13.4	12.2	11.6	98.5	0.18	0.15	15.3	15.5	0.14	3.89	4.03	18,953
Area	0.20	15.9	0.05	8.80	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	15.9
Energy	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	20,574
Water	—	—	—	—	—	—	—	—	—	—	—	2,034
Waste	—	—	—	—	—	—	—	—	—	—	—	1,434
Refrig.	—	—	—	—	—	—	—	—	—	—	—	27.7
Off-Road	0.01	0.00	0.31	3.13	0.00	0.00	—	0.00	0.00	—	0.00	69.6
Vegetation	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Total	13.9	28.2	14.7	113	0.20	NaN	NaN	NaN	NaN	NaN	NaN	43,108
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.45	2.23	2.12	18.0	0.03	0.03	2.79	2.82	0.02	0.71	0.73	3,138
Area	0.04	2.89	0.01	1.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.64
Energy	0.05	0.03	0.49	0.41	< 0.005	0.04	—	0.04	0.04	—	0.04	3,406
Water	—	—	—	—	—	—	—	—	—	—	—	337
Waste	—	—	—	—	—	—	—	—	—	—	—	237
Refrig.	—	—	—	—	—	—	—	—	—	—	—	4.58
Off-Road	< 0.005	0.00	0.06	0.57	0.00	0.00	—	0.00	0.00	—	0.00	11.5
Vegetation	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Total	2.54	5.15	2.68	20.6	0.04	NaN	NaN	NaN	NaN	NaN	NaN	7,137

2.6. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	17.8	16.2	13.6	134	0.24	0.19	19.9	20.1	0.18	5.05	5.23	25,448
Area	1.39	17.0	0.37	61.8	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Energy	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	20,877
Water	—	—	—	—	—	—	—	—	—	—	—	2,034
Waste	—	—	—	—	—	—	—	—	—	—	—	338
Refrig.	—	—	—	—	—	—	—	—	—	—	—	27.7
Off-Road	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Vegetation	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Total	19.5	33.4	17.1	203	0.26	NaN	NaN	NaN	NaN	NaN	NaN	48,934
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	17.5	16.0	14.9	125	0.23	0.19	19.9	20.1	0.18	5.05	5.23	24,293
Area	1.39	17.0	0.37	61.8	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Energy	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	20,877
Water	—	—	—	—	—	—	—	—	—	—	—	2,034
Waste	—	—	—	—	—	—	—	—	—	—	—	338
Refrig.	—	—	—	—	—	—	—	—	—	—	—	27.7
Off-Road	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Vegetation	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Total	19.2	33.1	18.4	194	0.25	NaN	NaN	NaN	NaN	NaN	NaN	47,779
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	13.4	12.2	11.6	98.5	0.18	0.15	15.3	15.5	0.14	3.89	4.03	18,953
Area	0.20	15.9	0.05	8.80	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	15.9
Energy	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	20,574

Water	—	—	—	—	—	—	—	—	—	—	—	2,034
Waste	—	—	—	—	—	—	—	—	—	—	—	338
Refrig.	—	—	—	—	—	—	—	—	—	—	—	27.7
Off-Road	0.01	0.00	0.31	3.13	0.00	0.00	—	0.00	0.00	—	0.00	69.6
Vegetation	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Total	13.9	28.2	14.7	113	0.20	NaN	NaN	NaN	NaN	NaN	NaN	42,012
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.45	2.23	2.12	18.0	0.03	0.03	2.79	2.82	0.02	0.71	0.73	3,138
Area	0.04	2.89	0.01	1.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.64
Energy	0.05	0.03	0.49	0.41	< 0.005	0.04	—	0.04	0.04	—	0.04	3,406
Water	—	—	—	—	—	—	—	—	—	—	—	337
Waste	—	—	—	—	—	—	—	—	—	—	—	56.0
Refrig.	—	—	—	—	—	—	—	—	—	—	—	4.58
Off-Road	< 0.005	0.00	0.06	0.57	0.00	0.00	—	0.00	0.00	—	0.00	11.5
Vegetation	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Total	2.54	5.15	2.68	20.6	0.04	NaN	NaN	NaN	NaN	NaN	NaN	6,956

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

4.1.2. Mitigated

Mobile source emissions results are presented in Sections 2.5. No further detailed breakdown of emissions is available.

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	8,622
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	2,553
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	5,436
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
undefined	—	—	—	—	—	—	—	—	—	—	—	1,050
Total	—	—	—	—	—	—	—	—	—	—	—	17,661
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	8,622
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	2,553
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	5,436
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
undefined	—	—	—	—	—	—	—	—	—	—	—	1,050
Total	—	—	—	—	—	—	—	—	—	—	—	17,661
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	1,428
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	423
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	900

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
undefined	—	—	—	—	—	—	—	—	—	—	—	124
Total	—	—	—	—	—	—	—	—	—	—	—	2,874

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	8,622
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	2,553
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	5,436
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
undefined	—	—	—	—	—	—	—	—	—	—	—	1,050
Total	—	—	—	—	—	—	—	—	—	—	—	17,661
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	8,622
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	2,553
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	5,436
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
undefined	—	—	—	—	—	—	—	—	—	—	—	1,050
Total	—	—	—	—	—	—	—	—	—	—	—	17,661
Annual	—	—	—	—	—	—	—	—	—	—	—	—

General Office Building	—	—	—	—	—	—	—	—	—	—	—	1,428
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	423
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	900
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
undefined	—	—	—	—	—	—	—	—	—	—	—	124
Total	—	—	—	—	—	—	—	—	—	—	—	2,874

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.19	0.10	1.74	1.46	0.01	0.13	—	0.13	0.13	—	0.13	2,084
Industrial Park	0.06	0.03	0.52	0.43	< 0.005	0.04	—	0.04	0.04	—	0.04	617
Strip Mall	0.05	0.02	0.43	0.36	< 0.005	0.03	—	0.03	0.03	—	0.03	515
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	3,216
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.19	0.10	1.74	1.46	0.01	0.13	—	0.13	0.13	—	0.13	2,084
Industrial Park	0.06	0.03	0.52	0.43	< 0.005	0.04	—	0.04	0.04	—	0.04	617
Strip Mall	0.05	0.02	0.43	0.36	< 0.005	0.03	—	0.03	0.03	—	0.03	515
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	3,216

Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.03	0.02	0.32	0.27	< 0.005	0.02	—	0.02	0.02	—	0.02	345
Industrial Park	0.01	0.01	0.09	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	102
Strip Mall	0.01	< 0.005	0.08	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	85.3
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.05	0.03	0.49	0.41	< 0.005	0.04	—	0.04	0.04	—	0.04	532

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.19	0.10	1.74	1.46	0.01	0.13	—	0.13	0.13	—	0.13	2,084
Industrial Park	0.06	0.03	0.52	0.43	< 0.005	0.04	—	0.04	0.04	—	0.04	617
Strip Mall	0.05	0.02	0.43	0.36	< 0.005	0.03	—	0.03	0.03	—	0.03	515
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	3,216
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.19	0.10	1.74	1.46	0.01	0.13	—	0.13	0.13	—	0.13	2,084
Industrial Park	0.06	0.03	0.52	0.43	< 0.005	0.04	—	0.04	0.04	—	0.04	617
Strip Mall	0.05	0.02	0.43	0.36	< 0.005	0.03	—	0.03	0.03	—	0.03	515
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	3,216

Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.03	0.02	0.32	0.27	< 0.005	0.02	—	0.02	0.02	—	0.02	345
Industrial Park	0.01	0.01	0.09	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	102
Strip Mall	0.01	< 0.005	0.08	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	85.3
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.05	0.03	0.49	0.41	< 0.005	0.04	—	0.04	0.04	—	0.04	532

4.3. Area Emissions by Source

4.3.2. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	14.7	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.94	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.39	1.29	0.37	61.8	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Total	1.39	17.0	0.37	61.8	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	14.7	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.94	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.39	1.29	0.37	61.8	< 0.005	0.01	—	0.01	0.02	—	0.02	112

Total	1.39	17.0	0.37	61.8	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	2.69	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.17	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.04	0.03	0.01	1.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.64
Total	0.04	2.89	0.01	1.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.64

4.3.1. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	14.7	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.94	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.39	1.29	0.37	61.8	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Total	1.39	17.0	0.37	61.8	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	14.7	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.94	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.39	1.29	0.37	61.8	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Total	1.39	17.0	0.37	61.8	< 0.005	0.01	—	0.01	0.02	—	0.02	112

Annual	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	2.69	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.17	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.04	0.03	0.01	1.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.64
Total	0.04	2.89	0.01	1.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.64

4.4. Water Emissions by Land Use

4.4.2. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	1,126
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	434
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	473
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	2,034
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	1,126
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	434
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	473

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	2,034
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	186
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	71.8
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	78.4
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	337

4.4.1. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	1,126
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	434
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	473
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	2,034
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	1,126
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	434
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	473

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	2,034
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	186
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	71.8
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	78.4
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	337

4.5. Waste Emissions by Land Use

4.5.2. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	566
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	223
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	644
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,434
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	566

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	223
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	644
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,434
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	93.7
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	37.0
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	107
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	237

4.5.1. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	134
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	52.7
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	152
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	338
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	134

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	52.7
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	152
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	338
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	22.1
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	8.73
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	25.2
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	56.0

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.78
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	24.9
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2.03
Total	—	—	—	—	—	—	—	—	—	—	—	27.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—

General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.78
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	24.9
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2.03
Total	—	—	—	—	—	—	—	—	—	—	—	27.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.13
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	4.12
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.34
Total	—	—	—	—	—	—	—	—	—	—	—	4.58

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.78
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	24.9
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2.03
Total	—	—	—	—	—	—	—	—	—	—	—	27.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.78

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	24.9
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2.03
Total	—	—	—	—	—	—	—	—	—	—	—	27.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.13
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	4.12
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.34
Total	—	—	—	—	—	—	—	—	—	—	—	4.58

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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Aerial Lifts	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Total	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Aerial Lifts	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Total	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Aerial Lifts	< 0.005	0.00	0.06	0.57	0.00	0.00	—	0.00	0.00	—	0.00	11.5
Total	< 0.005	0.00	0.06	0.57	0.00	0.00	—	0.00	0.00	—	0.00	11.5

4.7.2. Mitigated

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

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Aerial Lifts	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Total	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Aerial Lifts	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Total	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Aerial Lifts	< 0.005	0.00	0.06	0.57	0.00	0.00	—	0.00	0.00	—	0.00	11.5
Total	< 0.005	0.00	0.06	0.57	0.00	0.00	—	0.00	0.00	—	0.00	11.5

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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	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	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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—

—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00

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	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	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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—

Avoided	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—

Removed	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00

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
Total all Land Uses	3,891	1,128	376	1,092,862	28,021	8,125	2,711	7,870,495

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	3,891	1,128	376	1,092,862	28,021	8,125	2,711	7,870,495

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

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)
0	0.00	1,115,520	371,840	—

5.10.3. Landscape Equipment

Equipment Type	Fuel Type	Number Per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Lawn Mowers	Gasoline 4-Stroke	1.00	8.00	416	3.86	0.36
Leaf Blowers/Vacuums	Gasoline 4-Stroke	2.00	8.00	416	4.50	0.94

5.10.4. Landscape Equipment - Mitigated

Equipment Type	Fuel Type	Number Per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Lawn Mowers	Gasoline 4-Stroke	1.00	8.00	416	3.86	0.36
Leaf Blowers/Vacuums	Gasoline 4-Stroke	2.00	8.00	416	4.50	0.94

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)
General Office Building	5,140,048	609	0.0489	0.0069	6,483,442
Industrial Park	1,521,833	609	0.0489	0.0069	1,919,576
Strip Mall	3,240,354	609	0.0489	0.0069	1,602,562
Parking Lot	0.00	609	0.0489	0.0069	0.00

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)

General Office Building	5,140,048	609	0.0489	0.0069	6,483,442
Industrial Park	1,521,833	609	0.0489	0.0069	1,919,576
Strip Mall	3,240,354	609	0.0489	0.0069	1,602,562
Parking Lot	0.00	609	0.0489	0.0069	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Office Building	57,352,903	0.00
Industrial Park	22,093,625	0.00
Strip Mall	24,106,902	0.00
Parking Lot	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Office Building	57,352,903	0.00
Industrial Park	22,093,625	0.00
Strip Mall	24,106,902	0.00
Parking Lot	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Office Building	300	—
Industrial Park	118	—

Strip Mall	342	—
Parking Lot	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Office Building	70.8	—
Industrial Park	28.0	—
Strip Mall	80.6	—
Parking Lot	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Aerial Lifts	Electric	Average	56.0	5.30	25.0	0.31
Aerial Lifts	CNG	Average	1.00	4.00	82.0	0.20
Sweepers/Scrubbers	CNG	Average	1.00	2.00	36.0	0.46

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Aerial Lifts	Electric	Average	56.0	5.30	25.0	0.31
Aerial Lifts	CNG	Average	1.00	4.00	82.0	0.20
Sweepers/Scrubbers	CNG	Average	1.00	2.00	36.0	0.46

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type
—	—

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	LADWP Power Content Label for 2021.
Land Use	Landscape is limited on the Project Site and conservatively assumed zero sf. In addition, landscaping is used for calculation of water usage. Page IV.M.1-28 of the Draft EIR shows that existing water usage is 44,662 gpd. Using zero sf of landscaping conservatively reduces outdoor water usage to zero.
Operations: Hearths	—
Operations: Energy Use	City of LA Ordinance
Operations: Water and Waste Water	—
Operations: Consumer Products	Appendix D3 of the CalEEMod 2022 User's Guide provides a SCAQMD factor of 1.98E-05 instead of Statewide 2.14E-05. Updating from the 2008 CARB Emission Inventory to 2012 CARB Emission Inventory would further reduce the SCAQMD specific factor to 1.70E-5 (not included in analysis).
Operations: Off-Road Equipment	Onsite Equipment Inventory and daily hours of use. See calculation sheet.
Operations: Architectural Coatings	SCAQMD Rule 1113 Building Envelope Coatings limit of 50 g/L, effective date 1/1/19

TVC-Existing 2026 Custom Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	TVC-Existing 2026
Operational Year	2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	19.6
Location	34.07542868385967, -118.35987067242141
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4302
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.12

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
General Office Building	323	1000sqft	0.00	322,690	0.00	—	—	—

Industrial Park	95.5	1000sqft	0.00	95,540	0.00	—	—	—
Strip Mall	325	1000sqft	25.0	325,450	0.00	—	—	—
Parking Lot	1,500	Space	0.00	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Waste	S-1/S-2	Implement Waste Reduction Plan

2. Emissions Summary

2.4. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	15.1	29.4	11.9	163	0.24	—	—	—	—	—	—	46,397
Mit.	15.1	29.4	11.9	163	0.24	—	—	—	—	—	—	45,302
% Reduced	—	—	—	—	—	—	—	—	—	—	—	2%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	15.0	29.2	12.6	157	0.23	—	—	—	—	—	—	45,420
Mit.	15.0	29.2	12.6	157	0.23	—	—	—	—	—	—	44,325
% Reduced	—	—	—	—	—	—	—	—	—	—	—	2%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	10.6	25.3	10.1	83.8	0.18	—	—	—	—	—	—	40,247
Mit.	10.6	25.3	10.1	83.8	0.18	—	—	—	—	—	—	39,152

% Reduced	—	—	—	—	—	—	—	—	—	—	—	3%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.94	4.61	1.85	15.3	0.03	—	—	—	—	—	—	6,663
Mit.	1.94	4.61	1.85	15.3	0.03	—	—	—	—	—	—	6,482
% Reduced	—	—	—	—	—	—	—	—	—	—	—	3%

2.5. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	13.4	12.3	8.36	94.9	0.22	0.14	7.80	7.95	0.13	1.39	1.52	22,555
Area	1.39	17.0	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Energy	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	20,184
Water	—	—	—	—	—	—	—	—	—	—	—	1,987
Waste	—	—	—	—	—	—	—	—	—	—	—	1,434
Refrig.	—	—	—	—	—	—	—	—	—	—	—	27.7
Off-Road	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Vegetation	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Total	15.1	29.4	11.9	163	0.24	NaN	NaN	NaN	NaN	NaN	NaN	46,397
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	13.3	12.1	9.15	88.4	0.21	0.14	7.80	7.95	0.13	1.39	1.52	21,578
Area	1.39	17.0	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Energy	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	20,184
Water	—	—	—	—	—	—	—	—	—	—	—	1,987
Waste	—	—	—	—	—	—	—	—	—	—	—	1,434

Refrig.	—	—	—	—	—	—	—	—	—	—	—	27.7
Off-Road	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Vegetation	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Total	15.0	29.2	12.6	157	0.23	NaN	NaN	NaN	NaN	NaN	NaN	45,420
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	10.1	9.26	7.10	69.6	0.16	0.11	6.01	6.11	0.10	1.07	1.17	16,819
Area	0.20	15.9	0.05	8.83	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	15.9
Energy	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	19,894
Water	—	—	—	—	—	—	—	—	—	—	—	1,987
Waste	—	—	—	—	—	—	—	—	—	—	—	1,434
Refrig.	—	—	—	—	—	—	—	—	—	—	—	27.7
Off-Road	0.01	0.00	0.31	3.14	0.00	0.00	—	0.00	0.00	—	0.00	69.6
Vegetation	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Total	10.6	25.3	10.1	83.8	0.18	NaN	NaN	NaN	NaN	NaN	NaN	40,247
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.85	1.69	1.29	12.7	0.03	0.02	1.10	1.12	0.02	0.20	0.21	2,785
Area	0.04	2.89	0.01	1.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.64
Energy	0.05	0.03	0.49	0.41	< 0.005	0.04	—	0.04	0.04	—	0.04	3,294
Water	—	—	—	—	—	—	—	—	—	—	—	329
Waste	—	—	—	—	—	—	—	—	—	—	—	237
Refrig.	—	—	—	—	—	—	—	—	—	—	—	4.58
Off-Road	< 0.005	0.00	0.06	0.57	0.00	0.00	—	0.00	0.00	—	0.00	11.5
Vegetation	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Total	1.94	4.61	1.85	15.3	0.03	NaN	NaN	NaN	NaN	NaN	NaN	6,663

2.6. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	13.4	12.3	8.36	94.9	0.22	0.14	7.80	7.95	0.13	1.39	1.52	22,555
Area	1.39	17.0	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Energy	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	20,184
Water	—	—	—	—	—	—	—	—	—	—	—	1,987
Waste	—	—	—	—	—	—	—	—	—	—	—	338
Refrig.	—	—	—	—	—	—	—	—	—	—	—	27.7
Off-Road	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Vegetation	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Total	15.1	29.4	11.9	163	0.24	NaN	NaN	NaN	NaN	NaN	NaN	45,302
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	13.3	12.1	9.15	88.4	0.21	0.14	7.80	7.95	0.13	1.39	1.52	21,578
Area	1.39	17.0	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Energy	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	20,184
Water	—	—	—	—	—	—	—	—	—	—	—	1,987
Waste	—	—	—	—	—	—	—	—	—	—	—	338
Refrig.	—	—	—	—	—	—	—	—	—	—	—	27.7
Off-Road	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Vegetation	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Total	15.0	29.2	12.6	157	0.23	NaN	NaN	NaN	NaN	NaN	NaN	44,325
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	10.1	9.26	7.10	69.6	0.16	0.11	6.01	6.11	0.10	1.07	1.17	16,819
Area	0.20	15.9	0.05	8.83	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	15.9
Energy	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	19,894

Water	—	—	—	—	—	—	—	—	—	—	—	1,987
Waste	—	—	—	—	—	—	—	—	—	—	—	338
Refrig.	—	—	—	—	—	—	—	—	—	—	—	27.7
Off-Road	0.01	0.00	0.31	3.14	0.00	0.00	—	0.00	0.00	—	0.00	69.6
Vegetation	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Total	10.6	25.3	10.1	83.8	0.18	NaN	NaN	NaN	NaN	NaN	NaN	39,152
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.85	1.69	1.29	12.7	0.03	0.02	1.10	1.12	0.02	0.20	0.21	2,785
Area	0.04	2.89	0.01	1.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.64
Energy	0.05	0.03	0.49	0.41	< 0.005	0.04	—	0.04	0.04	—	0.04	3,294
Water	—	—	—	—	—	—	—	—	—	—	—	329
Waste	—	—	—	—	—	—	—	—	—	—	—	56.0
Refrig.	—	—	—	—	—	—	—	—	—	—	—	4.58
Off-Road	< 0.005	0.00	0.06	0.57	0.00	0.00	—	0.00	0.00	—	0.00	11.5
Vegetation	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Total	1.94	4.61	1.85	15.3	0.03	NaN	NaN	NaN	NaN	NaN	NaN	6,482

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

4.1.2. Mitigated

Mobile source emissions results are presented in Sections 2.5. No further detailed breakdown of emissions is available.

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	8,284
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	2,453
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	5,223
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
undefined	—	—	—	—	—	—	—	—	—	—	—	1,009
Total	—	—	—	—	—	—	—	—	—	—	—	16,969
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	8,284
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	2,453
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	5,223
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
undefined	—	—	—	—	—	—	—	—	—	—	—	1,009
Total	—	—	—	—	—	—	—	—	—	—	—	16,969
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	1,372
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	406
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	865

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
undefined	—	—	—	—	—	—	—	—	—	—	—	119
Total	—	—	—	—	—	—	—	—	—	—	—	2,761

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	8,284
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	2,453
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	5,223
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
undefined	—	—	—	—	—	—	—	—	—	—	—	1,009
Total	—	—	—	—	—	—	—	—	—	—	—	16,969
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	8,284
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	2,453
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	5,223
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
undefined	—	—	—	—	—	—	—	—	—	—	—	1,009
Total	—	—	—	—	—	—	—	—	—	—	—	16,969
Annual	—	—	—	—	—	—	—	—	—	—	—	—

General Office Building	—	—	—	—	—	—	—	—	—	—	—	1,372
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	406
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	865
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
undefined	—	—	—	—	—	—	—	—	—	—	—	119
Total	—	—	—	—	—	—	—	—	—	—	—	2,761

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.19	0.10	1.74	1.46	0.01	0.13	—	0.13	0.13	—	0.13	2,084
Industrial Park	0.06	0.03	0.52	0.43	< 0.005	0.04	—	0.04	0.04	—	0.04	617
Strip Mall	0.05	0.02	0.43	0.36	< 0.005	0.03	—	0.03	0.03	—	0.03	515
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	3,216
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.19	0.10	1.74	1.46	0.01	0.13	—	0.13	0.13	—	0.13	2,084
Industrial Park	0.06	0.03	0.52	0.43	< 0.005	0.04	—	0.04	0.04	—	0.04	617
Strip Mall	0.05	0.02	0.43	0.36	< 0.005	0.03	—	0.03	0.03	—	0.03	515
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	3,216

Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.03	0.02	0.32	0.27	< 0.005	0.02	—	0.02	0.02	—	0.02	345
Industrial Park	0.01	0.01	0.09	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	102
Strip Mall	0.01	< 0.005	0.08	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	85.3
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.05	0.03	0.49	0.41	< 0.005	0.04	—	0.04	0.04	—	0.04	532

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.19	0.10	1.74	1.46	0.01	0.13	—	0.13	0.13	—	0.13	2,084
Industrial Park	0.06	0.03	0.52	0.43	< 0.005	0.04	—	0.04	0.04	—	0.04	617
Strip Mall	0.05	0.02	0.43	0.36	< 0.005	0.03	—	0.03	0.03	—	0.03	515
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	3,216
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.19	0.10	1.74	1.46	0.01	0.13	—	0.13	0.13	—	0.13	2,084
Industrial Park	0.06	0.03	0.52	0.43	< 0.005	0.04	—	0.04	0.04	—	0.04	617
Strip Mall	0.05	0.02	0.43	0.36	< 0.005	0.03	—	0.03	0.03	—	0.03	515
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	3,216

Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.03	0.02	0.32	0.27	< 0.005	0.02	—	0.02	0.02	—	0.02	345
Industrial Park	0.01	0.01	0.09	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	102
Strip Mall	0.01	< 0.005	0.08	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	85.3
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.05	0.03	0.49	0.41	< 0.005	0.04	—	0.04	0.04	—	0.04	532

4.3. Area Emissions by Source

4.3.2. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	14.7	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.94	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.39	1.30	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Total	1.39	17.0	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	14.7	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.94	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.39	1.30	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112

Total	1.39	17.0	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	2.69	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.17	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.04	0.03	0.01	1.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.64
Total	0.04	2.89	0.01	1.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.64

4.3.1. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	14.7	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.94	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.39	1.30	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Total	1.39	17.0	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	14.7	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.94	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.39	1.30	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Total	1.39	17.0	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112

Annual	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	2.69	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.17	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.04	0.03	0.01	1.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.64
Total	0.04	2.89	0.01	1.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.64

4.4. Water Emissions by Land Use

4.4.2. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	1,101
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	424
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	463
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,987
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	1,101
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	424
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	463

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,987
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	182
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	70.2
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	76.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	329

4.4.1. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	1,101
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	424
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	463
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,987
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	1,101
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	424
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	463

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,987
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	182
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	70.2
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	76.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	329

4.5. Waste Emissions by Land Use

4.5.2. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	566
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	223
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	644
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,434
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	566

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	223
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	644
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,434
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	93.7
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	37.0
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	107
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	237

4.5.1. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	134
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	52.7
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	152
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	338
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	134

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	52.7
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	152
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	338
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	22.1
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	8.73
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	25.2
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	56.0

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.78
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	24.9
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2.03
Total	—	—	—	—	—	—	—	—	—	—	—	27.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—

General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.78
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	24.9
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2.03
Total	—	—	—	—	—	—	—	—	—	—	—	27.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.13
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	4.12
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.34
Total	—	—	—	—	—	—	—	—	—	—	—	4.58

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.78
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	24.9
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2.03
Total	—	—	—	—	—	—	—	—	—	—	—	27.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.78

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	24.9
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2.03
Total	—	—	—	—	—	—	—	—	—	—	—	27.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.13
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	4.12
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.34
Total	—	—	—	—	—	—	—	—	—	—	—	4.58

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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Aerial Lifts	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Total	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Aerial Lifts	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Total	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Aerial Lifts	< 0.005	0.00	0.06	0.57	0.00	0.00	—	0.00	0.00	—	0.00	11.5
Total	< 0.005	0.00	0.06	0.57	0.00	0.00	—	0.00	0.00	—	0.00	11.5

4.7.2. Mitigated

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

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Aerial Lifts	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Total	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Aerial Lifts	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Total	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Aerial Lifts	< 0.005	0.00	0.06	0.57	0.00	0.00	—	0.00	0.00	—	0.00	11.5
Total	< 0.005	0.00	0.06	0.57	0.00	0.00	—	0.00	0.00	—	0.00	11.5

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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	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	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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—

—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00

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	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	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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—

Avoided	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—

Removed	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00

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
Total all Land Uses	3,891	1,128	376	1,092,862	28,021	8,125	2,711	7,870,495

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	3,891	1,128	376	1,092,862	28,021	8,125	2,711	7,870,495

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

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)
0	0.00	1,115,520	371,840	—

5.10.3. Landscape Equipment

Equipment Type	Fuel Type	Number Per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Lawn Mowers	Gasoline 4-Stroke	1.00	8.00	416	3.86	0.36
Leaf Blowers/Vacuums	Gasoline 4-Stroke	2.00	8.00	416	4.50	0.94

5.10.4. Landscape Equipment - Mitigated

Equipment Type	Fuel Type	Number Per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Lawn Mowers	Gasoline 4-Stroke	1.00	8.00	416	3.86	0.36
Leaf Blowers/Vacuums	Gasoline 4-Stroke	2.00	8.00	416	4.50	0.94

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)
General Office Building	5,140,048	585	0.0489	0.0069	6,483,442
Industrial Park	1,521,833	585	0.0489	0.0069	1,919,576
Strip Mall	3,240,354	585	0.0489	0.0069	1,602,562
Parking Lot	0.00	585	0.0489	0.0069	0.00

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)

General Office Building	5,140,048	585	0.0489	0.0069	6,483,442
Industrial Park	1,521,833	585	0.0489	0.0069	1,919,576
Strip Mall	3,240,354	585	0.0489	0.0069	1,602,562
Parking Lot	0.00	585	0.0489	0.0069	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Office Building	57,352,903	0.00
Industrial Park	22,093,625	0.00
Strip Mall	24,106,902	0.00
Parking Lot	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Office Building	57,352,903	0.00
Industrial Park	22,093,625	0.00
Strip Mall	24,106,902	0.00
Parking Lot	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Office Building	300	—
Industrial Park	118	—

Strip Mall	342	—
Parking Lot	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Office Building	70.8	—
Industrial Park	28.0	—
Strip Mall	80.6	—
Parking Lot	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Aerial Lifts	Electric	Average	56.0	5.30	25.0	0.31
Aerial Lifts	CNG	Average	1.00	4.00	82.0	0.20
Sweepers/Scrubbers	CNG	Average	1.00	2.00	36.0	0.46

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Aerial Lifts	Electric	Average	56.0	5.30	25.0	0.31
Aerial Lifts	CNG	Average	1.00	4.00	82.0	0.20
Sweepers/Scrubbers	CNG	Average	1.00	2.00	36.0	0.46

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type
—	—

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	Consistency with SB 100 requirements
Land Use	Landscape is limited on the Project Site and conservatively assumed zero sf. In addition, landscaping is used for calculation of water usage. Page IV.M.1-28 of the Draft EIR shows that existing water usage is 44,662 gpd. Using zero sf of landscaping conservatively reduces outdoor water usage to zero.
Operations: Hearths	—
Operations: Energy Use	City of LA Ordinance
Operations: Water and Waste Water	—
Operations: Consumer Products	Appendix D3 of the CalEEMod 2022 User's Guide provides a SCAQMD factor of 1.98E-05 instead of Statewide 2.14E-05. Updating from the 2008 CARB Emission Inventory to 2012 CARB Emission Inventory would further reduce the SCAQMD specific factor to 1.70E-5 (not included in analysis).
Operations: Off-Road Equipment	Onsite Equipment Inventory and daily hours of use. See calculation sheet.
Operations: Architectural Coatings	SCAQMD Rule 1113 Building Envelope Coatings limit of 50 g/L, effective date 1/1/19

TVC - Project Custom Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	TVC - Project
Operational Year	2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	19.6
Location	34.07491184400298, -118.35892074790567
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4302
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.12

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
General Office Building	1,400	1000sqft	25.0	1,400,000	104,008	—	—	—

Industrial Park	350	1000sqft	0.00	350,000	0.00	—	—	—
Strip Mall	104	1000sqft	0.00	104,000	0.00	—	—	—
Enclosed Parking with Elevator	2,600	Space	0.00	1,040,000	0.00	—	—	—
Unenclosed Parking with Elevator	2,700	Space	0.00	1,080,000	0.00	—	—	—
High Turnover (Sit Down Restaurant)	5.00	1000sqft	0.00	5,000	0.00	—	—	—
Strip Mall	15.0	1000sqft	0.00	15,000	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Water	W-7	Adopt a Water Conservation Strategy
Waste	S-1/S-2	Implement Waste Reduction Plan

2. Emissions Summary

2.4. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	38.9	75.2	24.0	271	0.62	0.40	22.2	22.6	0.37	3.95	4.32	150,567
Mit.	38.9	75.2	24.0	271	0.62	0.40	22.2	22.6	0.37	3.95	4.32	146,492
% Reduced	—	—	—	—	—	—	—	—	—	—	—	3%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	38.4	74.7	26.2	253	0.59	0.40	22.2	22.6	0.37	3.95	4.32	147,792

Mit.	38.4	74.7	26.2	253	0.59	0.40	22.2	22.6	0.37	3.95	4.32	143,717
% Reduced	—	—	—	—	—	—	—	—	—	—	—	3%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	29.4	66.4	20.3	199	0.46	0.31	17.1	17.4	0.29	3.04	3.33	133,681
Mit.	29.4	66.4	20.3	199	0.46	0.31	17.1	17.4	0.29	3.04	3.33	129,607
% Reduced	—	—	—	—	—	—	—	—	—	—	—	3%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.36	12.1	3.71	36.4	0.08	0.06	3.11	3.17	0.05	0.55	0.61	22,132
Mit.	5.36	12.1	3.71	36.4	0.08	0.06	3.11	3.17	0.05	0.55	0.61	21,458
% Reduced	—	—	—	—	—	—	—	—	—	—	—	3%

2.5. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	38.9	35.7	24.0	271	0.62	0.40	22.2	22.6	0.37	3.95	4.32	64,153
Area	—	39.5	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	76,151
Water	—	—	—	—	—	—	—	—	—	—	—	6,539
Waste	—	—	—	—	—	—	—	—	—	—	—	3,621
Refrig.	—	—	—	—	—	—	—	—	—	—	—	103
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	38.9	75.2	24.0	271	0.62	0.40	22.2	22.6	0.37	3.95	4.32	150,567
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	38.4	35.2	26.2	253	0.59	0.40	22.2	22.6	0.37	3.95	4.32	61,378

Area	—	39.5	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	76,151
Water	—	—	—	—	—	—	—	—	—	—	—	6,539
Waste	—	—	—	—	—	—	—	—	—	—	—	3,621
Refrig.	—	—	—	—	—	—	—	—	—	—	—	103
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	38.4	74.7	26.2	253	0.59	0.40	22.2	22.6	0.37	3.95	4.32	147,792
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	29.4	26.9	20.3	199	0.46	0.31	17.1	17.4	0.29	3.04	3.33	47,841
Area	—	39.5	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	75,577
Water	—	—	—	—	—	—	—	—	—	—	—	6,539
Waste	—	—	—	—	—	—	—	—	—	—	—	3,621
Refrig.	—	—	—	—	—	—	—	—	—	—	—	103
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	29.4	66.4	20.3	199	0.46	0.31	17.1	17.4	0.29	3.04	3.33	133,681
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.36	4.91	3.71	36.4	0.08	0.06	3.11	3.17	0.05	0.55	0.61	7,921
Area	—	7.21	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	12,513
Water	—	—	—	—	—	—	—	—	—	—	—	1,083
Waste	—	—	—	—	—	—	—	—	—	—	—	600
Refrig.	—	—	—	—	—	—	—	—	—	—	—	17.1
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	5.36	12.1	3.71	36.4	0.08	0.06	3.11	3.17	0.05	0.55	0.61	22,132

2.6. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	38.9	35.7	24.0	271	0.62	0.40	22.2	22.6	0.37	3.95	4.32	64,153
Area	—	39.5	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	76,151
Water	—	—	—	—	—	—	—	—	—	—	—	5,231
Waste	—	—	—	—	—	—	—	—	—	—	—	855
Refrig.	—	—	—	—	—	—	—	—	—	—	—	103
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	38.9	75.2	24.0	271	0.62	0.40	22.2	22.6	0.37	3.95	4.32	146,492
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	38.4	35.2	26.2	253	0.59	0.40	22.2	22.6	0.37	3.95	4.32	61,378
Area	—	39.5	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	76,151
Water	—	—	—	—	—	—	—	—	—	—	—	5,231
Waste	—	—	—	—	—	—	—	—	—	—	—	855
Refrig.	—	—	—	—	—	—	—	—	—	—	—	103
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	38.4	74.7	26.2	253	0.59	0.40	22.2	22.6	0.37	3.95	4.32	143,717
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	29.4	26.9	20.3	199	0.46	0.31	17.1	17.4	0.29	3.04	3.33	47,841
Area	—	39.5	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	75,577
Water	—	—	—	—	—	—	—	—	—	—	—	5,231
Waste	—	—	—	—	—	—	—	—	—	—	—	855

Refrig.	—	—	—	—	—	—	—	—	—	—	—	103
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	29.4	66.4	20.3	199	0.46	0.31	17.1	17.4	0.29	3.04	3.33	129,607
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.36	4.91	3.71	36.4	0.08	0.06	3.11	3.17	0.05	0.55	0.61	7,921
Area	—	7.21	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	12,513
Water	—	—	—	—	—	—	—	—	—	—	—	866
Waste	—	—	—	—	—	—	—	—	—	—	—	141
Refrig.	—	—	—	—	—	—	—	—	—	—	—	17.1
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	5.36	12.1	3.71	36.4	0.08	0.06	3.11	3.17	0.05	0.55	0.61	21,458

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

4.1.2. Mitigated

Mobile source emissions results are presented in Sections 2.5. No further detailed breakdown of emissions is available.

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	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	50,187
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	9,939
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2,745
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	6,188
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	4,905
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	424
undefined	—	—	—	—	—	—	—	—	—	—	—	1,762
Total	—	—	—	—	—	—	—	—	—	—	—	76,151
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	50,187
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	9,939
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2,745
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	6,188
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	4,905
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	424

undefined	—	—	—	—	—	—	—	—	—	—	—	1,762
Total	—	—	—	—	—	—	—	—	—	—	—	76,151
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	8,298
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,646
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	455
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	1,024
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	812
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	70.2
undefined	—	—	—	—	—	—	—	—	—	—	—	208
Total	—	—	—	—	—	—	—	—	—	—	—	12,513

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	50,187
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	9,939
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2,745

Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	6,188
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	4,905
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	424
undefined	—	—	—	—	—	—	—	—	—	—	—	1,762
Total	—	—	—	—	—	—	—	—	—	—	—	76,151
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	50,187
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	9,939
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2,745
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	6,188
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	4,905
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	424
undefined	—	—	—	—	—	—	—	—	—	—	—	1,762
Total	—	—	—	—	—	—	—	—	—	—	—	76,151
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	8,298
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,646

Strip Mall	—	—	—	—	—	—	—	—	—	—	—	455
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	1,024
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	812
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	70.2
undefined	—	—	—	—	—	—	—	—	—	—	—	208
Total	—	—	—	—	—	—	—	—	—	—	—	12,513

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

4.3. Area Emissions by Source

4.3.2. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—

Consumer Products	—	37.1	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.38	—	—	—	—	—	—	—	—	—	—
Total	—	39.5	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	37.1	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.38	—	—	—	—	—	—	—	—	—	—
Total	—	39.5	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.77	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.43	—	—	—	—	—	—	—	—	—	—
Total	—	7.21	—	—	—	—	—	—	—	—	—	—

4.3.1. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	37.1	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.38	—	—	—	—	—	—	—	—	—	—
Total	—	39.5	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—

Consumer Products	—	37.1	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.38	—	—	—	—	—	—	—	—	—	—
Total	—	39.5	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.77	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.43	—	—	—	—	—	—	—	—	—	—
Total	—	7.21	—	—	—	—	—	—	—	—	—	—

4.4. Water Emissions by Land Use

4.4.2. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	4,788
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,553
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	169
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	29.1
Total	—	—	—	—	—	—	—	—	—	—	—	6,539
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	4,788
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,553
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	169
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	29.1
Total	—	—	—	—	—	—	—	—	—	—	—	6,539
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	793
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	257
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	28.0
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	4.82
Total	—	—	—	—	—	—	—	—	—	—	—	1,083

4.4.1. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3,830
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,243
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	135
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	23.3
Total	—	—	—	—	—	—	—	—	—	—	—	5,231
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3,830
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,243
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	135

Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	23.3
Total	—	—	—	—	—	—	—	—	—	—	—	5,231
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	634
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	206
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	22.4
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	3.86
Total	—	—	—	—	—	—	—	—	—	—	—	866

4.5. Waste Emissions by Land Use

4.5.2. 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	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	2,455
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	818
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	236
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	112
Total	—	—	—	—	—	—	—	—	—	—	—	3,621
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	2,455
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	818
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	236
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	112
Total	—	—	—	—	—	—	—	—	—	—	—	3,621

Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	406
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	135
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	39.0
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	18.6
Total	—	—	—	—	—	—	—	—	—	—	—	600

4.5.1. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	579
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	193
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	55.6
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00

Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	26.5
Total	—	—	—	—	—	—	—	—	—	—	—	855
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	579
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	193
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	55.6
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	26.5
Total	—	—	—	—	—	—	—	—	—	—	—	855
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	95.9
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	32.0
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	9.21
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00

Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	4.38
Total	—	—	—	—	—	—	—	—	—	—	—	141

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3.40
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	91.1
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	7.82
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.74
Total	—	—	—	—	—	—	—	—	—	—	—	103
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3.40
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	91.1

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	7.82
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.74
Total	—	—	—	—	—	—	—	—	—	—	—	103
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.56
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	15.1
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	1.29
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.12
Total	—	—	—	—	—	—	—	—	—	—	—	17.1

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3.40
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	91.1
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	7.82
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.74
Total	—	—	—	—	—	—	—	—	—	—	—	103

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3.40
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	91.1
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	7.82
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.74
Total	—	—	—	—	—	—	—	—	—	—	—	103
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.56
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	15.1
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	1.29
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.12
Total	—	—	—	—	—	—	—	—	—	—	—	17.1

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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—

Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

4.7.2. Mitigated

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

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	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	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	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	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	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	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
Total all Land Uses	11,346	3,290	1,098	3,186,867	79,629	23,089	7,703	22,366,001

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	11,346	3,290	1,098	3,186,867	79,629	23,089	7,703	22,366,001

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

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)
0	0.00	2,811,000	937,000	—

5.10.3. Landscape Equipment

Equipment Type	Fuel Type	Number Per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Lawn Mowers	Electric	2.00	8.00	416	3.86	0.36
Leaf Blowers/Vacuums	Electric	3.00	8.00	416	3.86	0.36
Other Lawn & Garden Equipment	Electric	2.00	8.00	416	6.09	0.58
Riding Mowers	Electric	1.00	8.00	416	21.4	0.38

5.10.4. Landscape Equipment - Mitigated

Equipment Type	Fuel Type	Number Per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Lawn Mowers	Electric	2.00	8.00	416	3.86	0.36
Leaf Blowers/Vacuums	Electric	3.00	8.00	416	3.86	0.36
Other Lawn & Garden Equipment	Electric	2.00	8.00	416	6.09	0.58
Riding Mowers	Electric	1.00	8.00	416	21.4	0.38

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)
General Office Building	31,090,850	585	0.0489	0.0069	0.00
Industrial Park	6,166,650	585	0.0489	0.0069	0.00
Strip Mall	1,488,608	585	0.0489	0.0069	0.00
Enclosed Parking with Elevator	3,839,089	585	0.0489	0.0069	0.00
Unenclosed Parking with Elevator	3,043,440	585	0.0489	0.0069	0.00
High Turnover (Sit Down Restaurant)	263,035	585	0.0489	0.0069	0.00
Strip Mall	214,703	585	0.0489	0.0069	0.00

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)
General Office Building	31,090,850	585	0.0489	0.0069	0.00
Industrial Park	6,166,650	585	0.0489	0.0069	0.00
Strip Mall	1,488,608	585	0.0489	0.0069	0.00
Enclosed Parking with Elevator	3,839,089	585	0.0489	0.0069	0.00
Unenclosed Parking with Elevator	3,043,440	585	0.0489	0.0069	0.00
High Turnover (Sit Down Restaurant)	263,035	585	0.0489	0.0069	0.00
Strip Mall	214,703	585	0.0489	0.0069	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)

General Office Building	248,827,247	1,458,669
Industrial Park	80,937,500	0.00
Strip Mall	7,703,542	0.00
Enclosed Parking with Elevator	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00
High Turnover (Sit Down Restaurant)	1,517,669	0.00
Strip Mall	1,111,088	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Office Building	199,061,798	1,166,935
Industrial Park	64,750,000	0.00
Strip Mall	6,162,834	0.00
Enclosed Parking with Elevator	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00
High Turnover (Sit Down Restaurant)	1,214,135	0.00
Strip Mall	888,870	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Office Building	1,302	—
Industrial Park	434	—
Strip Mall	109	—
Enclosed Parking with Elevator	0.00	—
Unenclosed Parking with Elevator	0.00	—

High Turnover (Sit Down Restaurant)	59.5	—
Strip Mall	15.8	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Office Building	307	—
Industrial Park	102	—
Strip Mall	25.8	—
Enclosed Parking with Elevator	0.00	—
Unenclosed Parking with Elevator	0.00	—
High Turnover (Sit Down Restaurant)	14.0	—
Strip Mall	3.72	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Sweepers/Scrubbers	Electric	Average	1.00	2.00	36.0	0.46
Aerial Lifts	Electric	Average	97.0	5.30	25.0	0.31

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Sweepers/Scrubbers	Electric	Average	1.00	2.00	36.0	0.46
Aerial Lifts	Electric	Average	97.0	5.30	25.0	0.31

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type
—	—

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	Consistency with SB 100 Requirements.
Land Use	Landscape Area: Table IV.M.1-6 of the DEIR.
Operations: Energy Use	Compliance with City All Electric Building Ordinance. California Air Pollution Control Officers Association (CAPCOA) Handbook for Analyzing Greenhouse Gas Emissions Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity. Appendix C. Table E-15. December 2021.
Operations: Water and Waste Water	Consistent with indoor water usage in CalEEMod 2020 analysis. New methodology for outdoor in 2022. Larger water use increment than in DEIR.
Operations: Solid Waste	see assumptions
Operations: Architectural Coatings	SCAQMD Rule 1113 Building Envelope Coatings limit of 50 g/L, effective date 1/1/19
Operations: Consumer Products	Appendix D3 of the CalEEMod 2022 User's Guide provides a SCAQMD factor of 1.98E-05 instead of Statewide 2.14E-05. Updating from the 2008 CARB Emission Inventory to 2012 CARB Emission Inventory would further reduce the SCAQMD specific factor to 1.70E-5 (not included in analysis).
Operations: Landscape Equipment	All Electric Landscape Equipment Project Design Feature included as a C&A in the Final EIR.
Operations: Off-Road Equipment	Increase in equipment usage conservatively assumed to increase proportionally with the number of sound stages. All electric equipment commitment is included as Project Design Feature in C&A of this Final EIR.

TVC - Project (No MXD) Custom Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	TVC - Project (No MXD)
Operational Year	2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	19.6
Location	34.07491184400298, -118.35892074790567
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4302
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.14

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
General Office Building	1,400	1000sqft	25.0	1,400,000	104,008	—	—	—

Industrial Park	350	1000sqft	0.00	350,000	0.00	—	—	—
Strip Mall	104	1000sqft	0.00	104,000	0.00	—	—	—
Enclosed Parking with Elevator	2,600	Space	0.00	1,040,000	0.00	—	—	—
Unenclosed Parking with Elevator	2,700	Space	0.00	1,080,000	0.00	—	—	—
High Turnover (Sit Down Restaurant)	5.00	1000sqft	0.00	5,000	0.00	—	—	—
Strip Mall	15.0	1000sqft	0.00	15,000	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Water	W-7	Adopt a Water Conservation Strategy
Waste	S-1/S-2	Implement Waste Reduction Plan

2. Emissions Summary

2.5. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	61.0	56.0	37.8	429	0.98	0.63	89.6	90.2	0.59	22.8	23.4	101,755
Area	—	39.5	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	76,151
Water	—	—	—	—	—	—	—	—	—	—	—	6,539
Waste	—	—	—	—	—	—	—	—	—	—	—	3,621

Refrig.	—	—	—	—	—	—	—	—	—	—	—	103
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	61.0	95.4	37.8	429	0.98	0.63	89.6	90.2	0.59	22.8	23.4	188,169
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	60.4	55.2	41.4	400	0.94	0.64	89.6	90.2	0.59	22.8	23.4	97,350
Area	—	39.5	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	76,151
Water	—	—	—	—	—	—	—	—	—	—	—	6,539
Waste	—	—	—	—	—	—	—	—	—	—	—	3,621
Refrig.	—	—	—	—	—	—	—	—	—	—	—	103
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	60.4	94.7	41.4	400	0.94	0.64	89.6	90.2	0.59	22.8	23.4	183,764
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	46.1	42.2	32.1	315	0.73	0.49	69.0	69.4	0.45	17.5	18.0	75,880
Area	—	39.5	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	75,577
Water	—	—	—	—	—	—	—	—	—	—	—	6,539
Waste	—	—	—	—	—	—	—	—	—	—	—	3,621
Refrig.	—	—	—	—	—	—	—	—	—	—	—	103
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	46.1	81.7	32.1	315	0.73	0.49	69.0	69.4	0.45	17.5	18.0	161,720
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	8.42	7.70	5.86	57.5	0.13	0.09	12.6	12.7	0.08	3.20	3.28	12,563
Area	—	7.21	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	12,513
Water	—	—	—	—	—	—	—	—	—	—	—	1,083
Waste	—	—	—	—	—	—	—	—	—	—	—	600

Refrig.	—	—	—	—	—	—	—	—	—	—	—	17.1
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	8.42	14.9	5.86	57.5	0.13	0.09	12.6	12.7	0.08	3.20	3.28	26,775

2.6. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	61.0	56.0	37.8	429	0.98	0.63	89.6	90.2	0.59	22.8	23.4	101,755
Area	—	39.5	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	76,151
Water	—	—	—	—	—	—	—	—	—	—	—	5,231
Waste	—	—	—	—	—	—	—	—	—	—	—	855
Refrig.	—	—	—	—	—	—	—	—	—	—	—	103
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	61.0	95.4	37.8	429	0.98	0.63	89.6	90.2	0.59	22.8	23.4	184,094
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	60.4	55.2	41.4	400	0.94	0.64	89.6	90.2	0.59	22.8	23.4	97,350
Area	—	39.5	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	76,151
Water	—	—	—	—	—	—	—	—	—	—	—	5,231
Waste	—	—	—	—	—	—	—	—	—	—	—	855
Refrig.	—	—	—	—	—	—	—	—	—	—	—	103
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	60.4	94.7	41.4	400	0.94	0.64	89.6	90.2	0.59	22.8	23.4	179,690

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	46.1	42.2	32.1	315	0.73	0.49	69.0	69.4	0.45	17.5	18.0	75,880
Area	—	39.5	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	75,577
Water	—	—	—	—	—	—	—	—	—	—	—	5,231
Waste	—	—	—	—	—	—	—	—	—	—	—	855
Refrig.	—	—	—	—	—	—	—	—	—	—	—	103
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	46.1	81.7	32.1	315	0.73	0.49	69.0	69.4	0.45	17.5	18.0	157,646
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	8.42	7.70	5.86	57.5	0.13	0.09	12.6	12.7	0.08	3.20	3.28	12,563
Area	—	7.21	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	12,513
Water	—	—	—	—	—	—	—	—	—	—	—	866
Waste	—	—	—	—	—	—	—	—	—	—	—	141
Refrig.	—	—	—	—	—	—	—	—	—	—	—	17.1
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	8.42	14.9	5.86	57.5	0.13	0.09	12.6	12.7	0.08	3.20	3.28	26,100

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

4.1.2. Mitigated

Mobile source emissions results are presented in Sections 2.5. No further detailed breakdown of emissions is available.

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	50,187
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	9,939
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2,745
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	6,188
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	4,905
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	424
undefined	—	—	—	—	—	—	—	—	—	—	—	1,762
Total	—	—	—	—	—	—	—	—	—	—	—	76,151
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	50,187
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	9,939
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2,745

Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	6,188
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	4,905
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	424
undefined	—	—	—	—	—	—	—	—	—	—	—	1,762
Total	—	—	—	—	—	—	—	—	—	—	—	76,151
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	8,298
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,646
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	455
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	1,024
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	812
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	70.2
undefined	—	—	—	—	—	—	—	—	—	—	—	208
Total	—	—	—	—	—	—	—	—	—	—	—	12,513

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	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	50,187
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	9,939
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2,745
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	6,188
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	4,905
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	424
undefined	—	—	—	—	—	—	—	—	—	—	—	1,762
Total	—	—	—	—	—	—	—	—	—	—	—	76,151
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	50,187
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	9,939
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2,745
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	6,188
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	4,905
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	424

undefined	—	—	—	—	—	—	—	—	—	—	—	1,762
Total	—	—	—	—	—	—	—	—	—	—	—	76,151
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	8,298
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,646
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	455
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	1,024
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	812
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	70.2
undefined	—	—	—	—	—	—	—	—	—	—	—	208
Total	—	—	—	—	—	—	—	—	—	—	—	12,513

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—

General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

4.3. Area Emissions by Source

4.3.2. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	37.1	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.38	—	—	—	—	—	—	—	—	—	—
Total	—	39.5	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	37.1	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.38	—	—	—	—	—	—	—	—	—	—
Total	—	39.5	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.77	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.43	—	—	—	—	—	—	—	—	—	—
Total	—	7.21	—	—	—	—	—	—	—	—	—	—

4.3.1. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—

Consumer Products	—	37.1	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.38	—	—	—	—	—	—	—	—	—	—
Total	—	39.5	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	37.1	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.38	—	—	—	—	—	—	—	—	—	—
Total	—	39.5	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.77	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.43	—	—	—	—	—	—	—	—	—	—
Total	—	7.21	—	—	—	—	—	—	—	—	—	—

4.4. Water Emissions by Land Use

4.4.2. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	4,788
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,553
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	169

Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	29.1
Total	—	—	—	—	—	—	—	—	—	—	—	6,539
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	4,788
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,553
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	169
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	29.1
Total	—	—	—	—	—	—	—	—	—	—	—	6,539
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	793
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	257
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	28.0

Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	4.82
Total	—	—	—	—	—	—	—	—	—	—	—	1,083

4.4.1. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3,830
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,243
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	135
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	23.3
Total	—	—	—	—	—	—	—	—	—	—	—	5,231
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—

General Office Building	—	—	—	—	—	—	—	—	—	—	—	3,830
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,243
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	135
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	23.3
Total	—	—	—	—	—	—	—	—	—	—	—	5,231
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	634
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	206
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	22.4
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	3.86
Total	—	—	—	—	—	—	—	—	—	—	—	866

4.5. Waste Emissions by Land Use

4.5.2. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	2,455
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	818
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	236
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	112
Total	—	—	—	—	—	—	—	—	—	—	—	3,621
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	2,455
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	818
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	236
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00

Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	112
Total	—	—	—	—	—	—	—	—	—	—	—	3,621
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	406
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	135
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	39.0
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	18.6
Total	—	—	—	—	—	—	—	—	—	—	—	600

4.5.1. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	579

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	193
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	55.6
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	26.5
Total	—	—	—	—	—	—	—	—	—	—	—	855
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	579
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	193
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	55.6
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	26.5
Total	—	—	—	—	—	—	—	—	—	—	—	855
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	95.9
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	32.0

Strip Mall	—	—	—	—	—	—	—	—	—	—	—	9.21
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	4.38
Total	—	—	—	—	—	—	—	—	—	—	—	141

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3.40
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	91.1
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	7.82
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.74
Total	—	—	—	—	—	—	—	—	—	—	—	103
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—

General Office Building	—	—	—	—	—	—	—	—	—	—	—	3.40
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	91.1
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	7.82
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.74
Total	—	—	—	—	—	—	—	—	—	—	—	103
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.56
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	15.1
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	1.29
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.12
Total	—	—	—	—	—	—	—	—	—	—	—	17.1

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3.40
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	91.1

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	7.82
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.74
Total	—	—	—	—	—	—	—	—	—	—	—	103
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3.40
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	91.1
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	7.82
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.74
Total	—	—	—	—	—	—	—	—	—	—	—	103
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.56
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	15.1
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	1.29
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.12
Total	—	—	—	—	—	—	—	—	—	—	—	17.1

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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

4.7.2. Mitigated

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

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	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	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	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	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	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	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
Total all Land Uses	17,752	5,147	1,717	4,986,109	126,364	36,640	12,224	35,492,809

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	17,752	5,147	1,717	4,986,109	126,364	36,640	12,224	35,492,809

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

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)
0	0.00	2,811,000	937,000	—

5.10.3. Landscape Equipment

Equipment Type	Fuel Type	Number Per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Lawn Mowers	Electric	2.00	8.00	416	3.86	0.36
Leaf Blowers/Vacuums	Electric	3.00	8.00	416	3.86	0.36
Other Lawn & Garden Equipment	Electric	2.00	8.00	416	6.09	0.58
Riding Mowers	Electric	1.00	8.00	416	21.4	0.38

5.10.4. Landscape Equipment - Mitigated

Equipment Type	Fuel Type	Number Per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Lawn Mowers	Electric	2.00	8.00	416	3.86	0.36
Leaf Blowers/Vacuums	Electric	3.00	8.00	416	3.86	0.36
Other Lawn & Garden Equipment	Electric	2.00	8.00	416	6.09	0.58
Riding Mowers	Electric	1.00	8.00	416	21.4	0.38

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)
General Office Building	31,090,850	585	0.0489	0.0069	0.00
Industrial Park	6,166,650	585	0.0489	0.0069	0.00
Strip Mall	1,488,608	585	0.0489	0.0069	0.00
Enclosed Parking with Elevator	3,839,089	585	0.0489	0.0069	0.00
Unenclosed Parking with Elevator	3,043,440	585	0.0489	0.0069	0.00
High Turnover (Sit Down Restaurant)	263,035	585	0.0489	0.0069	0.00
Strip Mall	214,703	585	0.0489	0.0069	0.00

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)
General Office Building	31,090,850	585	0.0489	0.0069	0.00
Industrial Park	6,166,650	585	0.0489	0.0069	0.00
Strip Mall	1,488,608	585	0.0489	0.0069	0.00
Enclosed Parking with Elevator	3,839,089	585	0.0489	0.0069	0.00
Unenclosed Parking with Elevator	3,043,440	585	0.0489	0.0069	0.00
High Turnover (Sit Down Restaurant)	263,035	585	0.0489	0.0069	0.00
Strip Mall	214,703	585	0.0489	0.0069	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Office Building	248,827,247	1,458,669
Industrial Park	80,937,500	0.00
Strip Mall	7,703,542	0.00
Enclosed Parking with Elevator	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00
High Turnover (Sit Down Restaurant)	1,517,669	0.00
Strip Mall	1,111,088	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Office Building	199,061,798	1,166,935
Industrial Park	64,750,000	0.00
Strip Mall	6,162,834	0.00
Enclosed Parking with Elevator	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00
High Turnover (Sit Down Restaurant)	1,214,135	0.00
Strip Mall	888,870	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Office Building	1,302	—
Industrial Park	434	—

Strip Mall	109	—
Enclosed Parking with Elevator	0.00	—
Unenclosed Parking with Elevator	0.00	—
High Turnover (Sit Down Restaurant)	59.5	—
Strip Mall	15.8	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Office Building	307	—
Industrial Park	102	—
Strip Mall	25.8	—
Enclosed Parking with Elevator	0.00	—
Unenclosed Parking with Elevator	0.00	—
High Turnover (Sit Down Restaurant)	14.0	—
Strip Mall	3.72	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00

High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Sweepers/Scrubbers	Electric	Average	1.00	2.00	36.0	0.46
Aerial Lifts	Electric	Average	97.0	5.30	25.0	0.31

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Sweepers/Scrubbers	Electric	Average	1.00	2.00	36.0	0.46
Aerial Lifts	Electric	Average	97.0	5.30	25.0	0.31

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type
—	—

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	Consistency with SB 100 Requirements.
Land Use	Landscape Area: Table IV.M.1-6 of the DEIR.
Operations: Energy Use	Compliance with City All Electric Building Ordinance. California Air Pollution Control Officers Association (CAPCOA) Handbook for Analyzing Greenhouse Gas Emissions Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity. Appendix C. Table E-15. December 2021.
Operations: Water and Waste Water	Consistent with indoor water usage in CalEEMod 2020 analysis. New methodology for outdoor in 2022. Larger water use increment than in DEIR.
Operations: Solid Waste	see assumptions
Operations: Architectural Coatings	SCAQMD Rule 1113 Building Envelope Coatings limit of 50 g/L, effective date 1/1/19
Operations: Consumer Products	Appendix D3 of the CalEEMod 2022 User's Guide provides a SCAQMD factor of 1.98E-05 instead of Statewide 2.14E-05. Updating from the 2008 CARB Emission Inventory to 2012 CARB Emission Inventory would further reduce the SCAQMD specific factor to 1.70E-5 (not included in analysis).
Operations: Landscape Equipment	All Electric Landscape Equipment Project Design Feature included as a C&A in the Final EIR.
Operations: Off-Road Equipment	Increase in equipment usage conservatively assumed to increase proportionally with the number of sound stages. All electric equipment commitment is included as Project Design Feature in C&A of this Final EIR.

TVC - Project Max Equivalency Custom Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	TVC - Project Max Equivalency
Operational Year	2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	19.6
Location	34.07491184400298, -118.35892074790567
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4302
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.12

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
General Office Building	1,400	1000sqft	25.0	1,400,000	104,008	—	—	—

Industrial Park	450	1000sqft	0.00	450,000	0.00	—	—	—
Strip Mall	4.00	1000sqft	0.00	4,000	0.00	—	—	—
Enclosed Parking with Elevator	2,600	Space	0.00	1,040,000	0.00	—	—	—
Unenclosed Parking with Elevator	2,700	Space	0.00	1,080,000	0.00	—	—	—
High Turnover (Sit Down Restaurant)	5.00	1000sqft	0.00	5,000	0.00	—	—	—
Strip Mall	15.0	1000sqft	0.00	15,000	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Water	W-7	Adopt a Water Conservation Strategy
Waste	S-1/S-2	Implement Waste Reduction Plan

2. Emissions Summary

2.4. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	39.2	75.5	24.2	274	0.62	0.40	22.4	22.8	0.38	3.99	4.37	151,654
Mit.	39.2	75.5	24.2	274	0.62	0.40	22.4	22.8	0.38	3.99	4.37	147,581
% Reduced	—	—	—	—	—	—	—	—	—	—	—	3%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	38.8	75.0	26.5	256	0.60	0.41	22.4	22.8	0.38	3.99	4.37	148,852

Mit.	38.8	75.0	26.5	256	0.60	0.41	22.4	22.8	0.38	3.99	4.37	144,778
% Reduced	—	—	—	—	—	—	—	—	—	—	—	3%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	29.7	66.6	20.5	201	0.46	0.31	17.2	17.5	0.29	3.07	3.36	134,607
Mit.	29.7	66.6	20.5	201	0.46	0.31	17.2	17.5	0.29	3.07	3.36	130,534
% Reduced	—	—	—	—	—	—	—	—	—	—	—	3%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.41	12.2	3.75	36.7	0.08	0.06	3.15	3.20	0.05	0.56	0.61	22,286
Mit.	5.41	12.2	3.75	36.7	0.08	0.06	3.15	3.20	0.05	0.56	0.61	21,611
% Reduced	—	—	—	—	—	—	—	—	—	—	—	3%

2.5. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	39.2	36.0	24.2	274	0.62	0.40	22.4	22.8	0.38	3.99	4.37	64,788
Area	—	39.5	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	76,683
Water	—	—	—	—	—	—	—	—	—	—	—	6,397
Waste	—	—	—	—	—	—	—	—	—	—	—	3,657
Refrig.	—	—	—	—	—	—	—	—	—	—	—	128
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	39.2	75.5	24.2	274	0.62	0.40	22.4	22.8	0.38	3.99	4.37	151,654
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	38.8	35.5	26.5	256	0.60	0.41	22.4	22.8	0.38	3.99	4.37	61,986

Area	—	39.5	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	76,683
Water	—	—	—	—	—	—	—	—	—	—	—	6,397
Waste	—	—	—	—	—	—	—	—	—	—	—	3,657
Refrig.	—	—	—	—	—	—	—	—	—	—	—	128
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	38.8	75.0	26.5	256	0.60	0.41	22.4	22.8	0.38	3.99	4.37	148,852
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	29.7	27.1	20.5	201	0.46	0.31	17.2	17.5	0.29	3.07	3.36	48,314
Area	—	39.5	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	76,110
Water	—	—	—	—	—	—	—	—	—	—	—	6,397
Waste	—	—	—	—	—	—	—	—	—	—	—	3,657
Refrig.	—	—	—	—	—	—	—	—	—	—	—	128
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	29.7	66.6	20.5	201	0.46	0.31	17.2	17.5	0.29	3.07	3.36	134,607
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.41	4.95	3.75	36.7	0.08	0.06	3.15	3.20	0.05	0.56	0.61	7,999
Area	—	7.21	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	12,601
Water	—	—	—	—	—	—	—	—	—	—	—	1,059
Waste	—	—	—	—	—	—	—	—	—	—	—	605
Refrig.	—	—	—	—	—	—	—	—	—	—	—	21.3
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	5.41	12.2	3.75	36.7	0.08	0.06	3.15	3.20	0.05	0.56	0.61	22,286

2.6. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	39.2	36.0	24.2	274	0.62	0.40	22.4	22.8	0.38	3.99	4.37	64,788
Area	—	39.5	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	76,683
Water	—	—	—	—	—	—	—	—	—	—	—	5,118
Waste	—	—	—	—	—	—	—	—	—	—	—	863
Refrig.	—	—	—	—	—	—	—	—	—	—	—	128
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	39.2	75.5	24.2	274	0.62	0.40	22.4	22.8	0.38	3.99	4.37	147,581
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	38.8	35.5	26.5	256	0.60	0.41	22.4	22.8	0.38	3.99	4.37	61,986
Area	—	39.5	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	76,683
Water	—	—	—	—	—	—	—	—	—	—	—	5,118
Waste	—	—	—	—	—	—	—	—	—	—	—	863
Refrig.	—	—	—	—	—	—	—	—	—	—	—	128
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	38.8	75.0	26.5	256	0.60	0.41	22.4	22.8	0.38	3.99	4.37	144,778
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	29.7	27.1	20.5	201	0.46	0.31	17.2	17.5	0.29	3.07	3.36	48,314
Area	—	39.5	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	76,110
Water	—	—	—	—	—	—	—	—	—	—	—	5,118
Waste	—	—	—	—	—	—	—	—	—	—	—	863

Refrig.	—	—	—	—	—	—	—	—	—	—	—	128
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	29.7	66.6	20.5	201	0.46	0.31	17.2	17.5	0.29	3.07	3.36	130,534
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.41	4.95	3.75	36.7	0.08	0.06	3.15	3.20	0.05	0.56	0.61	7,999
Area	—	7.21	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	12,601
Water	—	—	—	—	—	—	—	—	—	—	—	847
Waste	—	—	—	—	—	—	—	—	—	—	—	143
Refrig.	—	—	—	—	—	—	—	—	—	—	—	21.3
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	5.41	12.2	3.75	36.7	0.08	0.06	3.15	3.20	0.05	0.56	0.61	21,611

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

4.1.2. Mitigated

Mobile source emissions results are presented in Sections 2.5. No further detailed breakdown of emissions is available.

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	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	50,187
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	12,779
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	438
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	6,188
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	4,905
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	424
undefined	—	—	—	—	—	—	—	—	—	—	—	1,762
Total	—	—	—	—	—	—	—	—	—	—	—	76,683
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	50,187
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	12,779
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	438
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	6,188
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	4,905
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	424

undefined	—	—	—	—	—	—	—	—	—	—	—	1,762
Total	—	—	—	—	—	—	—	—	—	—	—	76,683
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	8,298
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	2,116
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	72.6
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	1,024
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	812
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	70.2
undefined	—	—	—	—	—	—	—	—	—	—	—	208
Total	—	—	—	—	—	—	—	—	—	—	—	12,601

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	50,187
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	12,779
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	438

Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	6,188
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	4,905
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	424
undefined	—	—	—	—	—	—	—	—	—	—	—	1,762
Total	—	—	—	—	—	—	—	—	—	—	—	76,683
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	50,187
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	12,779
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	438
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	6,188
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	4,905
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	424
undefined	—	—	—	—	—	—	—	—	—	—	—	1,762
Total	—	—	—	—	—	—	—	—	—	—	—	76,683
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	8,298
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	2,116

Strip Mall	—	—	—	—	—	—	—	—	—	—	—	72.6
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	1,024
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	812
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	70.2
undefined	—	—	—	—	—	—	—	—	—	—	—	208
Total	—	—	—	—	—	—	—	—	—	—	—	12,601

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

4.3. Area Emissions by Source

4.3.2. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—

Consumer Products	—	37.1	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.38	—	—	—	—	—	—	—	—	—	—
Total	—	39.5	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	37.1	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.38	—	—	—	—	—	—	—	—	—	—
Total	—	39.5	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.77	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.43	—	—	—	—	—	—	—	—	—	—
Total	—	7.21	—	—	—	—	—	—	—	—	—	—

4.3.1. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	37.1	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.38	—	—	—	—	—	—	—	—	—	—
Total	—	39.5	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—

Consumer Products	—	37.1	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.38	—	—	—	—	—	—	—	—	—	—
Total	—	39.5	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.77	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.43	—	—	—	—	—	—	—	—	—	—
Total	—	7.21	—	—	—	—	—	—	—	—	—	—

4.4. Water Emissions by Land Use

4.4.2. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	4,788
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,553
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	27.0
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	29.1
Total	—	—	—	—	—	—	—	—	—	—	—	6,397
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	4,788
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,553
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	27.0
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	29.1
Total	—	—	—	—	—	—	—	—	—	—	—	6,397
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	793
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	257
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	4.47
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	4.82
Total	—	—	—	—	—	—	—	—	—	—	—	1,059

4.4.1. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3,830
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,243
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	21.6
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	23.3
Total	—	—	—	—	—	—	—	—	—	—	—	5,118
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3,830
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,243
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	21.6

Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	23.3
Total	—	—	—	—	—	—	—	—	—	—	—	5,118
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	634
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	206
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	3.58
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	3.86
Total	—	—	—	—	—	—	—	—	—	—	—	847

4.5. Waste Emissions by Land Use

4.5.2. 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	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	2,455
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,052
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	37.6
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	112
Total	—	—	—	—	—	—	—	—	—	—	—	3,657
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	2,455
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,052
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	37.6
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	112
Total	—	—	—	—	—	—	—	—	—	—	—	3,657

Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	406
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	174
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	6.23
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	18.6
Total	—	—	—	—	—	—	—	—	—	—	—	605

4.5.1. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	579
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	248
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	8.88
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00

Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	26.5
Total	—	—	—	—	—	—	—	—	—	—	—	863
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	579
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	248
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	8.88
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	26.5
Total	—	—	—	—	—	—	—	—	—	—	—	863
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	95.9
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	41.1
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	1.47
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00

Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	4.38
Total	—	—	—	—	—	—	—	—	—	—	—	143

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3.40
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	117
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	7.82
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.12
Total	—	—	—	—	—	—	—	—	—	—	—	128
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3.40
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	117

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	7.82
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.12
Total	—	—	—	—	—	—	—	—	—	—	—	128
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.56
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	19.4
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	1.29
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.02
Total	—	—	—	—	—	—	—	—	—	—	—	21.3

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3.40
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	117
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	7.82
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.12
Total	—	—	—	—	—	—	—	—	—	—	—	128

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3.40
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	117
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	7.82
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.12
Total	—	—	—	—	—	—	—	—	—	—	—	128
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.56
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	19.4
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	1.29
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.02
Total	—	—	—	—	—	—	—	—	—	—	—	21.3

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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—

Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

4.7.2. Mitigated

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

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	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	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	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	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	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	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
Total all Land Uses	11,457	3,322	1,108	3,217,996	80,418	23,318	7,780	22,587,660

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	11,457	3,322	1,108	3,217,996	80,418	23,318	7,780	22,587,660

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

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)
0	0.00	2,811,000	937,000	—

5.10.3. Landscape Equipment

Equipment Type	Fuel Type	Number Per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Lawn Mowers	Electric	2.00	8.00	416	3.86	0.36
Leaf Blowers/Vacuums	Electric	3.00	8.00	416	3.86	0.36
Other Lawn & Garden Equipment	Electric	2.00	8.00	416	6.09	0.58
Riding Mowers	Electric	1.00	8.00	416	21.4	0.38

5.10.4. Landscape Equipment - Mitigated

Equipment Type	Fuel Type	Number Per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Lawn Mowers	Electric	2.00	8.00	416	3.86	0.36
Leaf Blowers/Vacuums	Electric	3.00	8.00	416	3.86	0.36
Other Lawn & Garden Equipment	Electric	2.00	8.00	416	6.09	0.58
Riding Mowers	Electric	1.00	8.00	416	21.4	0.38

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)
General Office Building	31,090,850	585	0.0489	0.0069	0.00
Industrial Park	7,928,550	585	0.0489	0.0069	0.00
Strip Mall	57,254	585	0.0489	0.0069	0.00
Enclosed Parking with Elevator	3,839,089	585	0.0489	0.0069	0.00
Unenclosed Parking with Elevator	3,043,440	585	0.0489	0.0069	0.00
High Turnover (Sit Down Restaurant)	263,035	585	0.0489	0.0069	0.00
Strip Mall	214,703	585	0.0489	0.0069	0.00

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)
General Office Building	31,090,850	585	0.0489	0.0069	0.00
Industrial Park	7,928,550	585	0.0489	0.0069	0.00
Strip Mall	57,254	585	0.0489	0.0069	0.00
Enclosed Parking with Elevator	3,839,089	585	0.0489	0.0069	0.00
Unenclosed Parking with Elevator	3,043,440	585	0.0489	0.0069	0.00
High Turnover (Sit Down Restaurant)	263,035	585	0.0489	0.0069	0.00
Strip Mall	214,703	585	0.0489	0.0069	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)

General Office Building	248,827,247	1,458,669
Industrial Park	80,937,500	0.00
Strip Mall	296,290	0.00
Enclosed Parking with Elevator	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00
High Turnover (Sit Down Restaurant)	1,517,669	0.00
Strip Mall	1,111,088	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Office Building	199,061,798	1,166,935
Industrial Park	64,750,000	0.00
Strip Mall	237,032	0.00
Enclosed Parking with Elevator	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00
High Turnover (Sit Down Restaurant)	1,214,135	0.00
Strip Mall	888,870	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Office Building	1,302	—
Industrial Park	558	—
Strip Mall	4.20	—
Enclosed Parking with Elevator	0.00	—
Unenclosed Parking with Elevator	0.00	—

High Turnover (Sit Down Restaurant)	59.5	—
Strip Mall	15.8	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Office Building	307	—
Industrial Park	132	—
Strip Mall	0.99	—
Enclosed Parking with Elevator	0.00	—
Unenclosed Parking with Elevator	0.00	—
High Turnover (Sit Down Restaurant)	14.0	—
Strip Mall	3.72	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Sweepers/Scrubbers	Electric	Average	1.00	2.00	36.0	0.46
Aerial Lifts	Electric	Average	97.0	5.30	25.0	0.31

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Sweepers/Scrubbers	Electric	Average	1.00	2.00	36.0	0.46
Aerial Lifts	Electric	Average	97.0	5.30	25.0	0.31

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type
—	—

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	Consistency with SB 100 Requirements.
Land Use	Landscape Area: Table IV.M.1-6 of the DEIR.
Operations: Energy Use	Compliance with City All Electric Building Ordinance. California Air Pollution Control Officers Association (CAPCOA) Handbook for Analyzing Greenhouse Gas Emissions Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity. Appendix C. Table E-15. December 2021.
Operations: Water and Waste Water	Consistent with indoor water usage in CalEEMod 2020 analysis. New methodology for outdoor in 2022. Larger water use increment than in DEIR.
Operations: Solid Waste	see assumptions
Operations: Architectural Coatings	SCAQMD Rule 1113 Building Envelope Coatings limit of 50 g/L, effective date 1/1/19
Operations: Consumer Products	Appendix D3 of the CalEEMod 2022 User's Guide provides a SCAQMD factor of 1.98E-05 instead of Statewide 2.14E-05. Updating from the 2008 CARB Emission Inventory to 2012 CARB Emission Inventory would further reduce the SCAQMD specific factor to 1.70E-5 (not included in analysis).
Operations: Landscape Equipment	All Electric Landscape Equipment Project Design Feature included as a C&A in the Final EIR.
Operations: Off-Road Equipment	Increase in equipment usage conservatively assumed to increase proportionally with the number of sound stages. All electric equipment commitment is included as Project Design Feature in C&A of this Final EIR.

TVC - Project Max Equivalency No MXD Custom Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	TVC - Project Max Equivalency No MXD
Operational Year	2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	19.6
Location	34.07491184400298, -118.35892074790567
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4302
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.14

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
General Office Building	1,400	1000sqft	25.0	1,400,000	104,008	—	—	—

Industrial Park	450	1000sqft	0.00	450,000	0.00	—	—	—
Strip Mall	4.00	1000sqft	0.00	4,000	0.00	—	—	—
Enclosed Parking with Elevator	2,600	Space	0.00	1,040,000	0.00	—	—	—
Unenclosed Parking with Elevator	2,700	Space	0.00	1,080,000	0.00	—	—	—
High Turnover (Sit Down Restaurant)	5.00	1000sqft	0.00	5,000	0.00	—	—	—
Strip Mall	15.0	1000sqft	0.00	15,000	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Water	W-7	Adopt a Water Conservation Strategy
Waste	S-1/S-2	Implement Waste Reduction Plan

2. Emissions Summary

2.4. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	46.7	82.3	29.0	329	0.75	0.49	68.7	69.2	0.45	17.5	17.9	164,876
Mit.	46.7	82.3	29.0	329	0.75	0.49	68.7	69.2	0.45	17.5	17.9	160,803
% Reduced	—	—	—	—	—	—	—	—	—	—	—	2%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	46.2	81.8	31.7	306	0.72	0.49	68.7	69.2	0.45	17.5	17.9	161,499

Mit.	46.2	81.8	31.7	306	0.72	0.49	68.7	69.2	0.45	17.5	17.9	157,426
% Reduced	—	—	—	—	—	—	—	—	—	—	—	3%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	35.3	71.8	24.6	241	0.56	0.37	52.9	53.2	0.35	13.4	13.8	144,465
Mit.	35.3	71.8	24.6	241	0.56	0.37	52.9	53.2	0.35	13.4	13.8	140,392
% Reduced	—	—	—	—	—	—	—	—	—	—	—	3%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.44	13.1	4.49	44.0	0.10	0.07	9.65	9.72	0.06	2.45	2.51	23,918
Mit.	6.44	13.1	4.49	44.0	0.10	0.07	9.65	9.72	0.06	2.45	2.51	23,244
% Reduced	—	—	—	—	—	—	—	—	—	—	—	3%

2.5. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	46.7	42.8	29.0	329	0.75	0.49	68.7	69.2	0.45	17.5	17.9	78,010
Area	—	39.5	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	76,683
Water	—	—	—	—	—	—	—	—	—	—	—	6,397
Waste	—	—	—	—	—	—	—	—	—	—	—	3,657
Refrig.	—	—	—	—	—	—	—	—	—	—	—	128
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	46.7	82.3	29.0	329	0.75	0.49	68.7	69.2	0.45	17.5	17.9	164,876
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	46.2	42.3	31.7	306	0.72	0.49	68.7	69.2	0.45	17.5	17.9	74,633

Area	—	39.5	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	76,683
Water	—	—	—	—	—	—	—	—	—	—	—	6,397
Waste	—	—	—	—	—	—	—	—	—	—	—	3,657
Refrig.	—	—	—	—	—	—	—	—	—	—	—	128
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	46.2	81.8	31.7	306	0.72	0.49	68.7	69.2	0.45	17.5	17.9	161,499
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	35.3	32.3	24.6	241	0.56	0.37	52.9	53.2	0.35	13.4	13.8	58,173
Area	—	39.5	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	76,110
Water	—	—	—	—	—	—	—	—	—	—	—	6,397
Waste	—	—	—	—	—	—	—	—	—	—	—	3,657
Refrig.	—	—	—	—	—	—	—	—	—	—	—	128
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	35.3	71.8	24.6	241	0.56	0.37	52.9	53.2	0.35	13.4	13.8	144,465
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	6.44	5.89	4.49	44.0	0.10	0.07	9.65	9.72	0.06	2.45	2.51	9,631
Area	—	7.21	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	12,601
Water	—	—	—	—	—	—	—	—	—	—	—	1,059
Waste	—	—	—	—	—	—	—	—	—	—	—	605
Refrig.	—	—	—	—	—	—	—	—	—	—	—	21.3
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	6.44	13.1	4.49	44.0	0.10	0.07	9.65	9.72	0.06	2.45	2.51	23,918

2.6. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	46.7	42.8	29.0	329	0.75	0.49	68.7	69.2	0.45	17.5	17.9	78,010
Area	—	39.5	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	76,683
Water	—	—	—	—	—	—	—	—	—	—	—	5,118
Waste	—	—	—	—	—	—	—	—	—	—	—	863
Refrig.	—	—	—	—	—	—	—	—	—	—	—	128
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	46.7	82.3	29.0	329	0.75	0.49	68.7	69.2	0.45	17.5	17.9	160,803
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	46.2	42.3	31.7	306	0.72	0.49	68.7	69.2	0.45	17.5	17.9	74,633
Area	—	39.5	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	76,683
Water	—	—	—	—	—	—	—	—	—	—	—	5,118
Waste	—	—	—	—	—	—	—	—	—	—	—	863
Refrig.	—	—	—	—	—	—	—	—	—	—	—	128
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	46.2	81.8	31.7	306	0.72	0.49	68.7	69.2	0.45	17.5	17.9	157,426
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	35.3	32.3	24.6	241	0.56	0.37	52.9	53.2	0.35	13.4	13.8	58,173
Area	—	39.5	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	76,110
Water	—	—	—	—	—	—	—	—	—	—	—	5,118
Waste	—	—	—	—	—	—	—	—	—	—	—	863

Refrig.	—	—	—	—	—	—	—	—	—	—	—	128
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	35.3	71.8	24.6	241	0.56	0.37	52.9	53.2	0.35	13.4	13.8	140,392
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	6.44	5.89	4.49	44.0	0.10	0.07	9.65	9.72	0.06	2.45	2.51	9,631
Area	—	7.21	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	12,601
Water	—	—	—	—	—	—	—	—	—	—	—	847
Waste	—	—	—	—	—	—	—	—	—	—	—	143
Refrig.	—	—	—	—	—	—	—	—	—	—	—	21.3
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	6.44	13.1	4.49	44.0	0.10	0.07	9.65	9.72	0.06	2.45	2.51	23,244

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

4.1.2. Mitigated

Mobile source emissions results are presented in Sections 2.5. No further detailed breakdown of emissions is available.

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	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	50,187
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	12,779
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	438
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	6,188
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	4,905
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	424
undefined	—	—	—	—	—	—	—	—	—	—	—	1,762
Total	—	—	—	—	—	—	—	—	—	—	—	76,683
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	50,187
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	12,779
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	438
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	6,188
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	4,905
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	424

undefined	—	—	—	—	—	—	—	—	—	—	—	1,762
Total	—	—	—	—	—	—	—	—	—	—	—	76,683
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	8,298
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	2,116
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	72.6
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	1,024
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	812
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	70.2
undefined	—	—	—	—	—	—	—	—	—	—	—	208
Total	—	—	—	—	—	—	—	—	—	—	—	12,601

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	50,187
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	12,779
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	438

Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	6,188
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	4,905
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	424
undefined	—	—	—	—	—	—	—	—	—	—	—	1,762
Total	—	—	—	—	—	—	—	—	—	—	—	76,683
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	50,187
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	12,779
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	438
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	6,188
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	4,905
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	424
undefined	—	—	—	—	—	—	—	—	—	—	—	1,762
Total	—	—	—	—	—	—	—	—	—	—	—	76,683
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	8,298
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	2,116

Strip Mall	—	—	—	—	—	—	—	—	—	—	—	72.6
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	1,024
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	812
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	70.2
undefined	—	—	—	—	—	—	—	—	—	—	—	208
Total	—	—	—	—	—	—	—	—	—	—	—	12,601

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

4.3. Area Emissions by Source

4.3.2. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—

Consumer Products	—	37.1	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.38	—	—	—	—	—	—	—	—	—	—
Total	—	39.5	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	37.1	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.38	—	—	—	—	—	—	—	—	—	—
Total	—	39.5	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.77	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.43	—	—	—	—	—	—	—	—	—	—
Total	—	7.21	—	—	—	—	—	—	—	—	—	—

4.3.1. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	37.1	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.38	—	—	—	—	—	—	—	—	—	—
Total	—	39.5	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—

Consumer Products	—	37.1	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.38	—	—	—	—	—	—	—	—	—	—
Total	—	39.5	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.77	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.43	—	—	—	—	—	—	—	—	—	—
Total	—	7.21	—	—	—	—	—	—	—	—	—	—

4.4. Water Emissions by Land Use

4.4.2. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	4,788
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,553
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	27.0
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	29.1
Total	—	—	—	—	—	—	—	—	—	—	—	6,397
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	4,788
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,553
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	27.0
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	29.1
Total	—	—	—	—	—	—	—	—	—	—	—	6,397
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	793
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	257
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	4.47
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	4.82
Total	—	—	—	—	—	—	—	—	—	—	—	1,059

4.4.1. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3,830
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,243
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	21.6
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	23.3
Total	—	—	—	—	—	—	—	—	—	—	—	5,118
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3,830
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,243
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	21.6

Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	23.3
Total	—	—	—	—	—	—	—	—	—	—	—	5,118
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	634
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	206
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	3.58
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	3.86
Total	—	—	—	—	—	—	—	—	—	—	—	847

4.5. Waste Emissions by Land Use

4.5.2. 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	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	2,455
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,052
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	37.6
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	112
Total	—	—	—	—	—	—	—	—	—	—	—	3,657
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	2,455
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,052
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	37.6
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	112
Total	—	—	—	—	—	—	—	—	—	—	—	3,657

Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	406
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	174
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	6.23
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	18.6
Total	—	—	—	—	—	—	—	—	—	—	—	605

4.5.1. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	579
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	248
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	8.88
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00

Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	26.5
Total	—	—	—	—	—	—	—	—	—	—	—	863
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	579
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	248
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	8.88
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	26.5
Total	—	—	—	—	—	—	—	—	—	—	—	863
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	95.9
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	41.1
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	1.47
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00

Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	4.38
Total	—	—	—	—	—	—	—	—	—	—	—	143

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3.40
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	117
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	7.82
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.12
Total	—	—	—	—	—	—	—	—	—	—	—	128
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3.40
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	117

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	7.82
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.12
Total	—	—	—	—	—	—	—	—	—	—	—	128
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.56
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	19.4
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	1.29
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.02
Total	—	—	—	—	—	—	—	—	—	—	—	21.3

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3.40
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	117
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	7.82
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.12
Total	—	—	—	—	—	—	—	—	—	—	—	128

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3.40
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	117
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	7.82
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.12
Total	—	—	—	—	—	—	—	—	—	—	—	128
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.56
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	19.4
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	1.29
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.02
Total	—	—	—	—	—	—	—	—	—	—	—	21.3

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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—

Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

4.7.2. Mitigated

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

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	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	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	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	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	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	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
Total all Land Uses	13,588	3,940	1,314	3,816,544	96,882	28,092	9,372	27,212,001

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	13,588	3,940	1,314	3,816,544	96,882	28,092	9,372	27,212,001

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

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)
0	0.00	2,811,000	937,000	—

5.10.3. Landscape Equipment

Equipment Type	Fuel Type	Number Per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Lawn Mowers	Electric	2.00	8.00	416	3.86	0.36
Leaf Blowers/Vacuums	Electric	3.00	8.00	416	3.86	0.36
Other Lawn & Garden Equipment	Electric	2.00	8.00	416	6.09	0.58
Riding Mowers	Electric	1.00	8.00	416	21.4	0.38

5.10.4. Landscape Equipment - Mitigated

Equipment Type	Fuel Type	Number Per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Lawn Mowers	Electric	2.00	8.00	416	3.86	0.36
Leaf Blowers/Vacuums	Electric	3.00	8.00	416	3.86	0.36
Other Lawn & Garden Equipment	Electric	2.00	8.00	416	6.09	0.58
Riding Mowers	Electric	1.00	8.00	416	21.4	0.38

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)
General Office Building	31,090,850	585	0.0489	0.0069	0.00
Industrial Park	7,928,550	585	0.0489	0.0069	0.00
Strip Mall	57,254	585	0.0489	0.0069	0.00
Enclosed Parking with Elevator	3,839,089	585	0.0489	0.0069	0.00
Unenclosed Parking with Elevator	3,043,440	585	0.0489	0.0069	0.00
High Turnover (Sit Down Restaurant)	263,035	585	0.0489	0.0069	0.00
Strip Mall	214,703	585	0.0489	0.0069	0.00

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)
General Office Building	31,090,850	585	0.0489	0.0069	0.00
Industrial Park	7,928,550	585	0.0489	0.0069	0.00
Strip Mall	57,254	585	0.0489	0.0069	0.00
Enclosed Parking with Elevator	3,839,089	585	0.0489	0.0069	0.00
Unenclosed Parking with Elevator	3,043,440	585	0.0489	0.0069	0.00
High Turnover (Sit Down Restaurant)	263,035	585	0.0489	0.0069	0.00
Strip Mall	214,703	585	0.0489	0.0069	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)

General Office Building	248,827,247	1,458,669
Industrial Park	80,937,500	0.00
Strip Mall	296,290	0.00
Enclosed Parking with Elevator	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00
High Turnover (Sit Down Restaurant)	1,517,669	0.00
Strip Mall	1,111,088	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Office Building	199,061,798	1,166,935
Industrial Park	64,750,000	0.00
Strip Mall	237,032	0.00
Enclosed Parking with Elevator	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00
High Turnover (Sit Down Restaurant)	1,214,135	0.00
Strip Mall	888,870	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Office Building	1,302	—
Industrial Park	558	—
Strip Mall	4.20	—
Enclosed Parking with Elevator	0.00	—
Unenclosed Parking with Elevator	0.00	—

High Turnover (Sit Down Restaurant)	59.5	—
Strip Mall	15.8	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Office Building	307	—
Industrial Park	132	—
Strip Mall	0.99	—
Enclosed Parking with Elevator	0.00	—
Unenclosed Parking with Elevator	0.00	—
High Turnover (Sit Down Restaurant)	14.0	—
Strip Mall	3.72	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Sweepers/Scrubbers	Electric	Average	1.00	2.00	36.0	0.46
Aerial Lifts	Electric	Average	97.0	5.30	25.0	0.31

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Sweepers/Scrubbers	Electric	Average	1.00	2.00	36.0	0.46
Aerial Lifts	Electric	Average	97.0	5.30	25.0	0.31

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type
—	—

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	Consistency with SB 100 Requirements.
Land Use	Landscape Area: Table IV.M.1-6 of the DEIR.
Operations: Energy Use	Compliance with City All Electric Building Ordinance. California Air Pollution Control Officers Association (CAPCOA) Handbook for Analyzing Greenhouse Gas Emissions Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity. Appendix C. Table E-15. December 2021.
Operations: Water and Waste Water	Consistent with indoor water usage in CalEEMod 2020 analysis. New methodology for outdoor in 2022. Larger water use increment than in DEIR.
Operations: Solid Waste	see assumptions
Operations: Architectural Coatings	SCAQMD Rule 1113 Building Envelope Coatings limit of 50 g/L, effective date 1/1/19
Operations: Consumer Products	Appendix D3 of the CalEEMod 2022 User's Guide provides a SCAQMD factor of 1.98E-05 instead of Statewide 2.14E-05. Updating from the 2008 CARB Emission Inventory to 2012 CARB Emission Inventory would further reduce the SCAQMD specific factor to 1.70E-5 (not included in analysis).
Operations: Landscape Equipment	All Electric Landscape Equipment Project Design Feature included as a C&A in the Final EIR.
Operations: Off-Road Equipment	Increase in equipment usage conservatively assumed to increase proportionally with the number of sound stages. All electric equipment commitment is included as Project Design Feature in C&A of this Final EIR.

TVC-Construction Impacts with Mitigation Measures (2026) Custom Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	TVC-Construction Impacts with Mitigation Measures (2026)
Construction Start Date	10/1/2026
Lead Agency	City of Los Angeles
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	19.6
Location	34.07526837326408, -118.35992854757305
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4302
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.14

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
General Office Building	1,400	1000sqft	25.0	1,400,000	0.00	—	—	—

Industrial Park	350	1000sqft	0.00	350,000	0.00	—	—	—
Enclosed Parking with Elevator	2,600	Space	0.00	1,040,000	0.00	—	—	—
Unenclosed Parking Structure	2,700	Space	0.00	1,080,000	0.00	—	—	—
High Turnover (Sit Down Restaurant)	5.00	1000sqft	0.00	5,000	0.00	—	—	—
Strip Mall	119.0	1000sqft	0.00	119,000	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers
Construction	C-12	Sweep Paved Roads

2. Emissions Summary

2.2. 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	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	8.92	7.48	66.0	80.1	0.18	2.52	27.0	29.6	2.32	8.11	10.4	—	18,653
2028	3.57	31.5	26.1	37.2	0.06	0.78	41.5	42.2	0.71	10.4	11.1	—	5,143
2029	2.17	31.6	15.1	22.5	0.03	0.34	24.2	24.6	0.31	6.06	6.37	—	3,059
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	21.1	13.8	210	182	0.88	5.15	42.5	47.6	4.84	12.0	16.9	—	131,413
2027	8.92	7.48	66.0	80.1	0.18	2.52	27.0	29.6	2.32	8.11	10.4	—	18,653

2028	2.01	29.9	16.1	22.8	0.04	0.56	24.2	24.5	0.52	6.06	6.26	—	3,365
2029	1.49	29.8	9.80	14.2	0.02	0.18	24.2	24.4	0.17	6.06	6.23	—	1,777
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2024	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2025	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2026	3.31	2.18	32.9	28.7	0.14	0.81	6.58	7.39	0.76	1.85	2.61	—	20,284
2027	3.91	3.28	29.3	36.5	0.08	1.11	15.5	16.6	1.03	4.34	5.37	—	7,806
2028	1.44	16.6	10.2	14.5	0.02	0.28	17.9	18.2	0.26	4.48	4.74	—	1,958
2029	0.48	8.92	3.20	4.68	0.01	0.06	7.07	7.13	0.06	1.77	1.83	—	599
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2024	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2025	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2026	0.60	0.40	6.01	5.25	0.02	0.15	1.20	1.35	0.14	0.34	0.48	—	3,358
2027	0.71	0.60	5.35	6.67	0.01	0.20	2.82	3.03	0.19	0.79	0.98	—	1,292
2028	0.26	3.02	1.86	2.65	< 0.005	0.05	3.27	3.32	0.05	0.82	0.87	—	324
2029	0.09	1.63	0.58	0.85	< 0.005	0.01	1.29	1.30	0.01	0.32	0.33	—	99.2

2.3. Construction Emissions by Year, Mitigated

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	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	1.88	1.88	17.3	105	0.18	0.35	27.0	27.4	0.35	8.11	8.46	—	18,653
2028	0.65	29.2	13.7	36.5	0.06	0.09	41.5	41.6	0.09	10.4	10.5	—	5,143

2029	0.44	30.3	12.0	21.6	0.03	0.05	24.2	24.3	0.05	6.06	6.12	—	3,059
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	10.5	5.33	136	208	0.88	1.72	42.5	44.2	1.72	12.0	13.8	—	131,413
2027	1.88	1.88	17.3	105	0.18	0.35	27.0	27.4	0.35	8.11	8.46	—	18,653
2028	0.39	28.8	7.13	23.8	0.04	0.06	24.2	24.3	0.06	6.06	6.09	—	3,365
2029	0.26	28.8	7.13	12.7	0.02	0.03	24.2	24.3	0.03	6.06	6.09	—	1,777
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2024	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2025	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2026	1.63	0.84	21.3	32.7	0.14	0.27	6.58	6.84	0.27	1.85	2.11	—	20,284
2027	0.81	0.81	8.60	45.7	0.08	0.15	15.5	15.6	0.15	4.34	4.49	—	7,809
2028	0.26	15.6	5.81	13.9	0.02	0.04	17.9	18.0	0.04	4.48	4.52	—	1,958
2029	0.09	8.60	2.39	4.27	0.01	0.01	7.07	7.08	0.01	1.77	1.78	—	599
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2024	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2025	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2026	0.30	0.15	3.88	5.98	0.02	0.05	1.20	1.25	0.05	0.34	0.39	—	3,358
2027	0.15	0.15	1.57	8.34	0.01	0.03	2.82	2.85	0.03	0.79	0.82	—	1,293
2028	0.05	2.85	1.06	2.54	< 0.005	0.01	3.27	3.28	0.01	0.82	0.82	—	324
2029	0.02	1.57	0.44	0.78	< 0.005	< 0.005	1.29	1.29	< 0.005	0.32	0.32	—	99.2

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	10/1/2026	12/31/2026	5.00	65.0	—
Grading/Foundation	Grading	10/16/2026	6/30/2027	5.00	185	—
Mat Foundation	Building Construction	7/1/2027	7/7/2027	5.00	5.00	—
Building Construction	Building Construction	7/8/2027	5/31/2028	5.00	235	—
Paving/Landscape	Paving	5/1/2029	5/31/2029	5.00	21.0	—
Finishing/Architectural Coating	Architectural Coating	4/1/2028	5/31/2029	5.00	304	—

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	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Demolition	Excavators	Diesel	Average	4.00	8.00	158	0.38
Demolition	Concrete/Industrial Saws	Diesel	Average	2.00	8.00	49.0	0.73
Demolition	Other Construction Equipment	Diesel	Average	1.00	8.00	99.0	0.42
Grading/Foundation	Excavators	Diesel	Average	3.00	8.00	158	0.38
Grading/Foundation	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	97.0	0.37
Grading/Foundation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Grading/Foundation	Bore/Drill Rigs	Diesel	Average	6.00	8.00	221	0.50
Grading/Foundation	Pumps	Diesel	Average	4.00	8.00	49.0	0.74
Grading/Foundation	Cranes	Diesel	Average	2.00	8.00	367	0.29
Grading/Foundation	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Grading/Foundation	Other Construction Equipment	Diesel	Average	2.00	8.00	99.0	0.42

Grading/Foundation	Rubber Tired Loaders	Diesel	Average	2.00	8.00	150	0.36
Mat Foundation	Pumps	Diesel	Average	6.00	8.00	49.0	0.74
Mat Foundation	Plate Compactors	Diesel	Average	6.00	8.00	8.00	0.43
Building Construction	Forklifts	Diesel	Average	2.00	8.00	89.0	0.20
Building Construction	Cranes	Electric	Average	4.00	8.00	367	0.29
Building Construction	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	97.0	0.37
Building Construction	Pumps	Diesel	Average	2.00	8.00	49.0	0.74
Building Construction	Other Construction Equipment	Diesel	Average	4.00	8.00	99.0	0.42
Building Construction	Aerial Lifts	Electric	Average	14.0	8.00	46.0	0.31
Paving/Landscape	Paving Equipment	Diesel	Average	1.00	8.00	99.0	0.36
Paving/Landscape	Rollers	Diesel	Average	1.00	8.00	49.9	0.38
Paving/Landscape	Skid Steer Loaders	Diesel	Average	2.00	8.00	71.0	0.37
Paving/Landscape	Trenchers	Diesel	Average	1.00	8.00	49.9	0.50
Finishing/Architectural Coating	Aerial Lifts	Electric	Average	14.0	8.00	46.0	0.31
Finishing/Architectural Coating	Air Compressors	Diesel	Average	6.00	8.00	49.9	0.48
Finishing/Architectural Coating	Cranes	Electric	Average	4.00	8.00	367	0.29
Finishing/Architectural Coating	Forklifts	Diesel	Average	2.00	8.00	89.0	0.20

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	367	0.40
Demolition	Excavators	Diesel	Tier 4 Final	4.00	8.00	158	0.38

Demolition	Concrete/Industrial Saws	Diesel	Tier 4 Final	2.00	8.00	49.0	0.73
Demolition	Other Construction Equipment	Diesel	Tier 4 Final	1.00	8.00	99.0	0.42
Grading/Foundation	Excavators	Diesel	Tier 4 Final	3.00	8.00	158	0.38
Grading/Foundation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	8.00	97.0	0.37
Grading/Foundation	Rubber Tired Dozers	Diesel	Tier 4 Final	3.00	8.00	367	0.40
Grading/Foundation	Bore/Drill Rigs	Diesel	Tier 4 Final	6.00	8.00	221	0.50
Grading/Foundation	Pumps	Diesel	Tier 4 Final	4.00	8.00	49.0	0.74
Grading/Foundation	Cranes	Diesel	Tier 4 Final	2.00	8.00	367	0.29
Grading/Foundation	Welders	Diesel	Tier 4 Final	2.00	8.00	46.0	0.45
Grading/Foundation	Other Construction Equipment	Diesel	Tier 4 Final	2.00	8.00	99.0	0.42
Grading/Foundation	Rubber Tired Loaders	Diesel	Tier 4 Final	2.00	8.00	150	0.36
Mat Foundation	Pumps	Diesel	Tier 4 Final	6.00	8.00	49.0	0.74
Mat Foundation	Plate Compactors	Diesel	Average	6.00	8.00	8.00	0.43
Building Construction	Forklifts	Diesel	Tier 4 Final	2.00	8.00	89.0	0.20
Building Construction	Cranes	Electric	Average	4.00	8.00	367	0.29
Building Construction	Welders	Diesel	Tier 4 Final	2.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	97.0	0.37
Building Construction	Pumps	Diesel	Tier 4 Final	2.00	8.00	49.0	0.74
Building Construction	Other Construction Equipment	Diesel	Tier 4 Final	4.00	8.00	99.0	0.42
Building Construction	Aerial Lifts	Electric	Average	14.0	8.00	46.0	0.31
Paving/Landscape	Paving Equipment	Diesel	Tier 4 Final	1.00	8.00	99.0	0.36
Paving/Landscape	Rollers	Diesel	Tier 4 Final	1.00	8.00	49.9	0.38
Paving/Landscape	Skid Steer Loaders	Diesel	Tier 4 Final	2.00	8.00	71.0	0.37
Paving/Landscape	Trenchers	Diesel	Tier 4 Final	1.00	8.00	49.9	0.50

Finishing/Architectural Coating	Aerial Lifts	Electric	Average	14.0	8.00	46.0	0.31
Finishing/Architectural Coating	Air Compressors	Diesel	Tier 4 Final	6.00	8.00	49.9	0.48
Finishing/Architectural Coating	Cranes	Electric	Average	4.00	8.00	367	0.29
Finishing/Architectural Coating	Forklifts	Diesel	Tier 4 Final	2.00	8.00	89.0	0.20

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	100	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	80.0	32.0	HHDT
Demolition	Onsite truck	0.00	0.00	HHDT
Mat Foundation	—	—	—	—
Mat Foundation	Worker	100	18.5	LDA,LDT1,LDT2
Mat Foundation	Vendor	1,000	10.2	HHDT
Mat Foundation	Hauling	0.00	20.0	HHDT
Mat Foundation	Onsite truck	0.00	0.00	HHDT
Grading/Foundation	—	—	—	—
Grading/Foundation	Worker	390	18.5	LDA,LDT1,LDT2
Grading/Foundation	Vendor	40.0	32.0	HHDT
Grading/Foundation	Hauling	600	41.0	HHDT
Grading/Foundation	Onsite truck	0.00	0.00	HHDT
Building Construction	—	—	—	—

Building Construction	Worker	1,350	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	100	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	0.00	0.00	HHDT
Paving/Landscape	—	—	—	—
Paving/Landscape	Worker	0.00	18.5	LDA,LDT1,LDT2
Paving/Landscape	Vendor	—	10.2	HHDT,MHDT
Paving/Landscape	Hauling	0.00	20.0	HHDT
Paving/Landscape	Onsite truck	—	—	HHDT
Finishing/Architectural Coating	—	—	—	—
Finishing/Architectural Coating	Worker	1,940	18.5	LDA,LDT1,LDT2
Finishing/Architectural Coating	Vendor	70.0	10.2	HHDT,MHDT
Finishing/Architectural Coating	Hauling	0.00	20.0	HHDT
Finishing/Architectural Coating	Onsite truck	0.00	0.00	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	100	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	80.0	32.0	HHDT
Demolition	Onsite truck	0.00	0.00	HHDT
Mat Foundation	—	—	—	—
Mat Foundation	Worker	100	18.5	LDA,LDT1,LDT2
Mat Foundation	Vendor	1,000	10.2	HHDT
Mat Foundation	Hauling	0.00	20.0	HHDT
Mat Foundation	Onsite truck	0.00	0.00	HHDT

Grading/Foundation	—	—	—	—
Grading/Foundation	Worker	390	18.5	LDA,LDT1,LDT2
Grading/Foundation	Vendor	40.0	32.0	HHDT
Grading/Foundation	Hauling	600	41.0	HHDT
Grading/Foundation	Onsite truck	0.00	0.00	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	1,350	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	100	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	0.00	0.00	HHDT
Paving/Landscape	—	—	—	—
Paving/Landscape	Worker	0.00	18.5	LDA,LDT1,LDT2
Paving/Landscape	Vendor	—	10.2	HHDT,MHDT
Paving/Landscape	Hauling	0.00	20.0	HHDT
Paving/Landscape	Onsite truck	—	—	HHDT
Finishing/Architectural Coating	—	—	—	—
Finishing/Architectural Coating	Worker	1,940	18.5	LDA,LDT1,LDT2
Finishing/Architectural Coating	Vendor	70.0	10.2	HHDT,MHDT
Finishing/Architectural Coating	Hauling	0.00	20.0	HHDT
Finishing/Architectural Coating	Onsite truck	0.00	0.00	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)
Finishing/Architectural Coating	0.00	0.00	2,811,000	937,000	—

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	0.00	0.00	0.00	495,860	—
Grading/Foundation	50,000	772,000	278	0.00	—
Paving/Landscape	0.00	0.00	0.00	0.00	10.0

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
General Office Building	0.00	0%
Industrial Park	0.00	0%
Enclosed Parking with Elevator	0.00	100%
Unenclosed Parking Structure	10.0	100%
High Turnover (Sit Down Restaurant)	0.00	0%
Strip Mall	0.00	0%

8. User Changes to Default Data

Screen	Justification
Land Use	Default acreage was modified per CalEEMod Guidelines (Total area of Project Site entered under the predominate land use);
Construction: Construction Phases	Project Specific 32-Month Schedule
Construction: Off-Road Equipment	Project Specific Construction Equipment for each subphase. Also, default CalEEmod horsepower was increased from default where applicable.
Construction: Paving	Driveway/Surface Parking. Approximately 40% of the site would require paving.
Construction: Trips and VMT	Project specific trip rates. Note that Finishing/Architectural Coating trips include Asphalt/Landscape subphase trips. Also, grading haul lengths is a composite of 46 trips of the 600 haul trips per day to Buttonwillow (145 miles) and remaining haul trips to Irwindale (32 miles). Vendor trips could also be used for import/export. Thus, the trip type was changed to HHDT and the additional trips distance was factored into the haul trip length.
Construction: On-Road Fugitive Dust	—
Characteristics: Utility Information	Consistent with SB 100 Requirements
Construction: Architectural Coatings	Square Footage Consistent with CalEEMod 2020. Compliance with Rule 1113 VOC limits.
Construction: Electricity	Consistency with SB 100 requirements.

TVC-Construction Impacts with Mitigation Measures (2030) Custom Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	TVC-Construction Impacts with Mitigation Measures (2030)
Construction Start Date	10/1/2023
Lead Agency	City of Los Angeles
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	19.6
Location	34.07526837326408, -118.35992854757305
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4302
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.14

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
General Office Building	1,400	1000sqft	25.0	1,400,000	0.00	—	—	—

Industrial Park	350	1000sqft	0.00	350,000	0.00	—	—	—
Enclosed Parking with Elevator	2,600	Space	0.00	1,040,000	0.00	—	—	—
Unenclosed Parking Structure	2,700	Space	0.00	1,080,000	0.00	—	—	—
High Turnover (Sit Down Restaurant)	5.00	1000sqft	0.00	5,000	0.00	—	—	—
Strip Mall	119.0	1000sqft	0.00	119,000	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers
Construction	C-12	Sweep Paved Roads

2. Emissions Summary

2.2. 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	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—

2.3. Construction Emissions by Year, Mitigated

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	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
2031	7.34	3.95	99.1	153	0.76	1.49	34.2	35.7	1.49	10.4	11.9	—	104,599
2032	10.6	37.5	25.1	182	0.10	0.13	44.5	44.6	0.13	10.5	10.6	—	50,329
2033	6.08	35.0	17.8	103	0.05	0.07	26.0	26.0	0.07	6.11	6.18	—	28,493
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
2030	9.35	5.05	121	197	0.88	1.72	42.5	44.2	1.72	12.0	13.8	—	122,143
2031	7.27	3.92	103	150	0.76	1.49	34.2	35.7	1.49	10.4	11.9	—	104,276
2032	6.02	33.7	14.0	85.2	0.06	0.08	26.0	26.0	0.08	6.11	6.16	—	26,321
2033	5.81	33.4	13.1	81.4	0.04	0.05	26.0	26.0	0.05	6.11	6.16	—	25,963
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2024	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2025	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2026	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2030	1.45	0.79	18.8	31.0	0.14	0.27	6.58	6.84	0.27	1.85	2.11	—	18,855
2031	4.26	2.74	42.1	82.0	0.29	0.57	18.5	19.1	0.57	5.19	5.75	—	45,305
2032	4.58	19.2	11.3	70.8	0.04	0.05	19.2	19.3	0.05	4.53	4.58	—	21,103
2033	1.73	9.96	4.38	25.6	0.01	0.02	7.57	7.59	0.02	1.78	1.80	—	7,848
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2024	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2025	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2026	—	—	—	—	—	—	—	—	—	—	—	—	NaN

2030	0.26	0.14	3.42	5.66	0.02	0.05	1.20	1.25	0.05	0.34	0.39	—	3,122
2031	0.78	0.50	7.68	15.0	0.05	0.10	3.37	3.48	0.10	0.95	1.05	—	7,501
2032	0.84	3.50	2.06	12.9	0.01	0.01	3.51	3.52	0.01	0.83	0.84	—	3,494
2033	0.32	1.82	0.80	4.68	< 0.005	< 0.005	1.38	1.39	< 0.005	0.33	0.33	—	1,299

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	10/1/2030	12/31/2030	5.00	65.0	—
Grading/Foundation	Grading	10/16/2030	6/30/2031	5.00	185	—
Mat Foundation	Building Construction	7/1/2031	7/7/2031	5.00	5.00	—
Building Construction	Building Construction	7/8/2031	5/31/2032	5.00	235	—
Paving/Landscape	Paving	5/1/2033	5/31/2033	5.00	21.0	—
Finishing/Architectural Coating	Architectural Coating	4/1/2032	5/31/2033	5.00	304	—

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	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Demolition	Excavators	Diesel	Average	4.00	8.00	158	0.38
Demolition	Concrete/Industrial Saws	Diesel	Average	2.00	8.00	49.0	0.73
Demolition	Other Construction Equipment	Diesel	Average	1.00	8.00	99.0	0.42
Grading/Foundation	Excavators	Diesel	Average	3.00	8.00	158	0.38

Grading/Foundation	Tractors/Loaders/Backh	Diesel	Average	3.00	8.00	97.0	0.37
Grading/Foundation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Grading/Foundation	Bore/Drill Rigs	Diesel	Average	6.00	8.00	221	0.50
Grading/Foundation	Pumps	Diesel	Average	4.00	8.00	49.0	0.74
Grading/Foundation	Cranes	Diesel	Average	2.00	8.00	367	0.29
Grading/Foundation	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Grading/Foundation	Other Construction Equipment	Diesel	Average	2.00	8.00	99.0	0.42
Grading/Foundation	Rubber Tired Loaders	Diesel	Average	2.00	8.00	150	0.36
Mat Foundation	Pumps	Diesel	Average	6.00	8.00	49.0	0.74
Mat Foundation	Plate Compactors	Diesel	Average	6.00	8.00	8.00	0.43
Building Construction	Forklifts	Diesel	Average	2.00	8.00	89.0	0.20
Building Construction	Cranes	Electric	Average	4.00	8.00	367	0.29
Building Construction	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backh oes	Diesel	Average	1.00	8.00	97.0	0.37
Building Construction	Pumps	Diesel	Average	2.00	8.00	49.0	0.74
Building Construction	Other Construction Equipment	Diesel	Average	4.00	8.00	99.0	0.42
Building Construction	Aerial Lifts	Electric	Average	14.0	8.00	46.0	0.31
Paving/Landscape	Paving Equipment	Diesel	Average	1.00	8.00	99.0	0.36
Paving/Landscape	Rollers	Diesel	Average	1.00	8.00	49.9	0.38
Paving/Landscape	Skid Steer Loaders	Diesel	Average	2.00	8.00	71.0	0.37
Paving/Landscape	Trenchers	Diesel	Average	1.00	8.00	49.9	0.50
Finishing/Architectural Coating	Aerial Lifts	Electric	Average	14.0	8.00	46.0	0.31
Finishing/Architectural Coating	Air Compressors	Diesel	Average	6.00	8.00	49.9	0.48
Finishing/Architectural Coating	Cranes	Electric	Average	4.00	8.00	367	0.29

Finishing/Architectural Coating	Forklifts	Diesel	Average	2.00	8.00	89.0	0.20

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	367	0.40
Demolition	Excavators	Diesel	Tier 4 Final	4.00	8.00	158	0.38
Demolition	Concrete/Industrial Saws	Diesel	Tier 4 Final	2.00	8.00	49.0	0.73
Demolition	Other Construction Equipment	Diesel	Tier 4 Final	1.00	8.00	99.0	0.42
Grading/Foundation	Excavators	Diesel	Tier 4 Final	3.00	8.00	158	0.38
Grading/Foundation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	8.00	97.0	0.37
Grading/Foundation	Rubber Tired Dozers	Diesel	Tier 4 Final	3.00	8.00	367	0.40
Grading/Foundation	Bore/Drill Rigs	Diesel	Tier 4 Final	6.00	8.00	221	0.50
Grading/Foundation	Pumps	Diesel	Tier 4 Final	4.00	8.00	49.0	0.74
Grading/Foundation	Cranes	Diesel	Tier 4 Final	2.00	8.00	367	0.29
Grading/Foundation	Welders	Diesel	Tier 4 Final	2.00	8.00	46.0	0.45
Grading/Foundation	Other Construction Equipment	Diesel	Tier 4 Final	2.00	8.00	99.0	0.42
Grading/Foundation	Rubber Tired Loaders	Diesel	Tier 4 Final	2.00	8.00	150	0.36
Mat Foundation	Pumps	Diesel	Tier 4 Final	6.00	8.00	49.0	0.74
Mat Foundation	Plate Compactors	Diesel	Average	6.00	8.00	8.00	0.43
Building Construction	Forklifts	Diesel	Tier 4 Final	2.00	8.00	89.0	0.20
Building Construction	Cranes	Electric	Average	4.00	8.00	367	0.29
Building Construction	Welders	Diesel	Tier 4 Final	2.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	97.0	0.37

Building Construction	Pumps	Diesel	Tier 4 Final	2.00	8.00	49.0	0.74
Building Construction	Other Construction Equipment	Diesel	Tier 4 Final	4.00	8.00	99.0	0.42
Building Construction	Aerial Lifts	Electric	Average	14.0	8.00	46.0	0.31
Paving/Landscape	Paving Equipment	Diesel	Tier 4 Final	1.00	8.00	99.0	0.36
Paving/Landscape	Rollers	Diesel	Tier 4 Final	1.00	8.00	49.9	0.38
Paving/Landscape	Skid Steer Loaders	Diesel	Tier 4 Final	2.00	8.00	71.0	0.37
Paving/Landscape	Trenchers	Diesel	Tier 4 Final	1.00	8.00	49.9	0.50
Finishing/Architectural Coating	Aerial Lifts	Electric	Average	14.0	8.00	46.0	0.31
Finishing/Architectural Coating	Air Compressors	Diesel	Tier 4 Final	6.00	8.00	49.9	0.48
Finishing/Architectural Coating	Cranes	Electric	Average	4.00	8.00	367	0.29
Finishing/Architectural Coating	Forklifts	Diesel	Tier 4 Final	2.00	8.00	89.0	0.20

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	100	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	80.0	32.0	HHDT
Demolition	Onsite truck	0.00	0.00	HHDT
Mat Foundation	—	—	—	—
Mat Foundation	Worker	100	18.5	LDA,LDT1,LDT2
Mat Foundation	Vendor	1,000	10.2	HHDT

Mat Foundation	Hauling	0.00	20.0	HHDT
Mat Foundation	Onsite truck	0.00	0.00	HHDT
Grading/Foundation	—	—	—	—
Grading/Foundation	Worker	390	18.5	LDA,LDT1,LDT2
Grading/Foundation	Vendor	40.0	32.0	HHDT
Grading/Foundation	Hauling	600	41.0	HHDT
Grading/Foundation	Onsite truck	0.00	0.00	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	1,350	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	100	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	0.00	0.00	HHDT
Paving/Landscape	—	—	—	—
Paving/Landscape	Worker	0.00	18.5	LDA,LDT1,LDT2
Paving/Landscape	Vendor	—	10.2	HHDT,MHDT
Paving/Landscape	Hauling	0.00	20.0	HHDT
Paving/Landscape	Onsite truck	—	—	HHDT
Finishing/Architectural Coating	—	—	—	—
Finishing/Architectural Coating	Worker	1,940	18.5	LDA,LDT1,LDT2
Finishing/Architectural Coating	Vendor	70.0	10.2	HHDT,MHDT
Finishing/Architectural Coating	Hauling	0.00	20.0	HHDT
Finishing/Architectural Coating	Onsite truck	0.00	0.00	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	100	18.5	LDA,LDT1,LDT2

Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	80.0	32.0	HHDT
Demolition	Onsite truck	0.00	0.00	HHDT
Mat Foundation	—	—	—	—
Mat Foundation	Worker	100	18.5	LDA,LDT1,LDT2
Mat Foundation	Vendor	1,000	10.2	HHDT
Mat Foundation	Hauling	0.00	20.0	HHDT
Mat Foundation	Onsite truck	0.00	0.00	HHDT
Grading/Foundation	—	—	—	—
Grading/Foundation	Worker	390	18.5	LDA,LDT1,LDT2
Grading/Foundation	Vendor	40.0	32.0	HHDT
Grading/Foundation	Hauling	600	41.0	HHDT
Grading/Foundation	Onsite truck	0.00	0.00	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	1,350	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	100	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	0.00	0.00	HHDT
Paving/Landscape	—	—	—	—
Paving/Landscape	Worker	0.00	18.5	LDA,LDT1,LDT2
Paving/Landscape	Vendor	—	10.2	HHDT,MHDT
Paving/Landscape	Hauling	0.00	20.0	HHDT
Paving/Landscape	Onsite truck	—	—	HHDT
Finishing/Architectural Coating	—	—	—	—
Finishing/Architectural Coating	Worker	1,940	18.5	LDA,LDT1,LDT2
Finishing/Architectural Coating	Vendor	70.0	10.2	HHDT,MHDT
Finishing/Architectural Coating	Hauling	0.00	20.0	HHDT

Finishing/Architectural Coating	Onsite truck	0.00	0.00	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)
Finishing/Architectural Coating	0.00	0.00	2,811,000	937,000	—

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	0.00	0.00	0.00	495,860	—
Grading/Foundation	50,000	772,000	278	0.00	—
Paving/Landscape	0.00	0.00	0.00	0.00	10.0

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt

General Office Building	0.00	0%
Industrial Park	0.00	0%
Enclosed Parking with Elevator	0.00	100%
Unenclosed Parking Structure	10.0	100%
High Turnover (Sit Down Restaurant)	0.00	0%
Strip Mall	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2023	0.00	0.00	0.05	0.01
2024	0.00	0.00	0.05	0.01
2025	0.00	0.00	0.05	0.01
2026	0.00	0.00	0.05	0.01
2030	0.00	403	0.05	0.01
2031	2,540	403	0.05	0.01
2032	6,270	403	0.05	0.01
2033	3,731	403	0.05	0.01

8. User Changes to Default Data

Screen	Justification
Land Use	Default acreage was modified per CalEEMod Guidelines (Total area of Project Site entered under the predominate land use);
Construction: Construction Phases	Project Specific 32-Month Schedule
Construction: Off-Road Equipment	Project Specific Construction Equipment for each subphase. Also, default CalEEmod horsepower was increased from default where applicable.
Construction: Paving	Driveway/Surface Parking. Approximately 40% of the site would require paving.

Construction: Trips and VMT	Project specific trip rates. Note that Finishing/Architectural Coating trips include Asphalt/Landscape subphase trips. Also, grading haul lengths is a composite of 46 trips of the 600 haul trips per day to Buttonwillow (145 miles) and remaining haul trips to Irwindale (32 miles). Vendor trips could also be used for import/export. Thus, the trip type was changed to HHDT and the additional trips distance was factored into the haul trip length.
Construction: On-Road Fugitive Dust	—
Characteristics: Utility Information	Consistent with SB 100 Requirements
Construction: Architectural Coatings	Square Footage Consistent with CalEEMod 2020. Compliance with Rule 1113 VOC limits.
Construction: Electricity	Consistency with SB 100 requirements.

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	TVC-Construction Impacts with Mitigation Measures (2035)
Construction Start Date	10/1/2023
Lead Agency	City of Los Angeles
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	19.6
Location	34.07526837326408, -118.35992854757305
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4302
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.14

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
General Office Building	1,400	1000sqft	25.0	1,400,000	0.00	—	—	—

Industrial Park	350	1000sqft	0.00	350,000	0.00	—	—	—
Enclosed Parking with Elevator	2,600	Space	0.00	1,040,000	0.00	—	—	—
Unenclosed Parking Structure	2,700	Space	0.00	1,080,000	0.00	—	—	—
High Turnover (Sit Down Restaurant)	5.00	1000sqft	0.00	5,000	0.00	—	—	—
Strip Mall	119.0	1000sqft	0.00	119,000	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers
Construction	C-12	Sweep Paved Roads

2. Emissions Summary

2.2. 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	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
2036	11.4	7.58	114	110	0.76	2.46	34.2	36.7	2.36	10.4	12.7	—	95,152
2037	10.0	37.9	31.5	150	0.10	0.31	44.5	44.8	0.29	10.5	10.8	—	47,479
2038	5.88	35.3	18.5	86.8	0.05	0.16	26.0	26.1	0.15	6.11	6.26	—	27,133
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
2035	15.1	10.5	147	148	0.88	3.33	42.5	45.8	3.16	12.0	15.2	—	110,957
2036	11.3	7.53	117	108	0.76	2.46	34.2	36.7	2.36	10.4	12.7	—	94,876

2037	5.51	33.8	17.8	70.3	0.06	0.22	26.0	26.0	0.21	6.11	6.19	—	24,861
2038	5.38	33.6	13.8	68.3	0.04	0.08	26.0	26.0	0.08	6.11	6.18	—	24,682
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2024	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2025	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2026	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2035	2.38	1.66	23.1	23.4	0.14	0.52	6.58	7.10	0.50	1.85	2.34	—	17,133
2036	5.70	4.18	49.0	62.0	0.30	0.97	18.6	19.5	0.93	5.21	6.14	—	41,561
2037	4.30	19.4	12.7	58.3	0.04	0.11	19.2	19.3	0.10	4.52	4.62	—	19,712
2038	1.62	10.0	4.35	21.5	0.01	0.03	7.57	7.60	0.03	1.78	1.81	—	7,462
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2024	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2025	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2026	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2035	0.43	0.30	4.21	4.27	0.02	0.10	1.20	1.30	0.09	0.34	0.43	—	2,837
2036	1.04	0.76	8.95	11.3	0.05	0.18	3.39	3.56	0.17	0.95	1.12	—	6,881
2037	0.79	3.54	2.33	10.6	0.01	0.02	3.50	3.52	0.02	0.82	0.84	—	3,264
2038	0.30	1.83	0.79	3.92	< 0.005	0.01	1.38	1.39	< 0.005	0.33	0.33	—	1,235

2.3. Construction Emissions by Year, Mitigated

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	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—

2036	6.41	3.72	87.5	143	0.76	1.49	34.2	35.7	1.49	10.4	11.9	—	95,152
2037	7.90	36.2	22.8	150	0.10	0.13	44.5	44.6	0.13	10.5	10.6	—	47,479
2038	4.54	34.2	16.6	86.3	0.05	0.07	26.0	26.0	0.07	6.11	6.18	—	27,133
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
2035	7.59	4.61	106	186	0.88	1.72	42.5	44.2	1.72	12.0	13.8	—	110,957
2036	6.36	3.66	90.3	141	0.76	1.49	34.2	35.7	1.49	10.4	11.9	—	94,876
2037	4.49	33.0	12.0	69.0	0.06	0.08	26.0	26.0	0.08	6.11	6.16	—	24,861
2038	4.36	32.8	11.9	67.0	0.04	0.05	26.0	26.0	0.05	6.11	6.16	—	24,682
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2024	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2025	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2026	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2035	1.18	0.73	16.5	29.2	0.14	0.27	6.58	6.84	0.27	1.85	2.11	—	17,133
2036	3.53	2.50	37.1	74.3	0.30	0.57	18.6	19.1	0.57	5.21	5.78	—	41,563
2037	3.42	18.7	9.73	58.0	0.04	0.05	19.2	19.2	0.05	4.52	4.57	—	19,712
2038	1.30	9.77	3.79	21.2	0.01	0.02	7.57	7.59	0.02	1.78	1.80	—	7,462
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2024	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2025	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2026	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2035	0.22	0.13	3.01	5.34	0.02	0.05	1.20	1.25	0.05	0.34	0.39	—	2,837
2036	0.64	0.46	6.77	13.6	0.05	0.10	3.39	3.49	0.10	0.95	1.05	—	6,881
2037	0.62	3.41	1.78	10.6	0.01	0.01	3.50	3.51	0.01	0.82	0.83	—	3,264
2038	0.24	1.78	0.69	3.86	< 0.005	< 0.005	1.38	1.39	< 0.005	0.33	0.33	—	1,235

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	10/1/2035	12/31/2035	5.00	65.0	—
Grading/Foundation	Grading	10/16/2035	6/30/2036	5.00	185	—
Mat Foundation	Building Construction	7/1/2036	7/7/2036	5.00	5.00	—
Building Construction	Building Construction	7/8/2036	5/31/2037	5.00	235	—
Paving/Landscape	Paving	5/1/2038	5/31/2038	5.00	21.0	—
Finishing/Architectural Coating	Architectural Coating	4/1/2037	5/31/2038	5.00	304	—

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	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Demolition	Excavators	Diesel	Average	4.00	8.00	158	0.38
Demolition	Concrete/Industrial Saws	Diesel	Average	2.00	8.00	49.0	0.73
Demolition	Other Construction Equipment	Diesel	Average	1.00	8.00	99.0	0.42
Grading/Foundation	Excavators	Diesel	Average	3.00	8.00	158	0.38
Grading/Foundation	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	97.0	0.37
Grading/Foundation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Grading/Foundation	Bore/Drill Rigs	Diesel	Average	6.00	8.00	221	0.50
Grading/Foundation	Pumps	Diesel	Average	4.00	8.00	49.0	0.74

Grading/Foundation	Cranes	Diesel	Average	2.00	8.00	367	0.29
Grading/Foundation	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Grading/Foundation	Other Construction Equipment	Diesel	Average	2.00	8.00	99.0	0.42
Grading/Foundation	Rubber Tired Loaders	Diesel	Average	2.00	8.00	150	0.36
Mat Foundation	Pumps	Diesel	Average	6.00	8.00	49.0	0.74
Mat Foundation	Plate Compactors	Diesel	Average	6.00	8.00	8.00	0.43
Building Construction	Forklifts	Diesel	Average	2.00	8.00	89.0	0.20
Building Construction	Cranes	Electric	Average	4.00	8.00	367	0.29
Building Construction	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	97.0	0.37
Building Construction	Pumps	Diesel	Average	2.00	8.00	49.0	0.74
Building Construction	Other Construction Equipment	Diesel	Average	4.00	8.00	99.0	0.42
Building Construction	Aerial Lifts	Electric	Average	14.0	8.00	46.0	0.31
Paving/Landscape	Paving Equipment	Diesel	Average	1.00	8.00	99.0	0.36
Paving/Landscape	Rollers	Diesel	Average	1.00	8.00	49.9	0.38
Paving/Landscape	Skid Steer Loaders	Diesel	Average	2.00	8.00	71.0	0.37
Paving/Landscape	Trenchers	Diesel	Average	1.00	8.00	49.9	0.50
Finishing/Architectural Coating	Aerial Lifts	Electric	Average	14.0	8.00	46.0	0.31
Finishing/Architectural Coating	Air Compressors	Diesel	Average	6.00	8.00	49.9	0.48
Finishing/Architectural Coating	Cranes	Electric	Average	4.00	8.00	367	0.29
Finishing/Architectural Coating	Forklifts	Diesel	Average	2.00	8.00	89.0	0.20

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	367	0.40
Demolition	Excavators	Diesel	Tier 4 Final	4.00	8.00	158	0.38
Demolition	Concrete/Industrial Saws	Diesel	Tier 4 Final	2.00	8.00	49.0	0.73
Demolition	Other Construction Equipment	Diesel	Tier 4 Final	1.00	8.00	99.0	0.42
Grading/Foundation	Excavators	Diesel	Tier 4 Final	3.00	8.00	158	0.38
Grading/Foundation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	8.00	97.0	0.37
Grading/Foundation	Rubber Tired Dozers	Diesel	Tier 4 Final	3.00	8.00	367	0.40
Grading/Foundation	Bore/Drill Rigs	Diesel	Tier 4 Final	6.00	8.00	221	0.50
Grading/Foundation	Pumps	Diesel	Tier 4 Final	4.00	8.00	49.0	0.74
Grading/Foundation	Cranes	Diesel	Tier 4 Final	2.00	8.00	367	0.29
Grading/Foundation	Welders	Diesel	Tier 4 Final	2.00	8.00	46.0	0.45
Grading/Foundation	Other Construction Equipment	Diesel	Tier 4 Final	2.00	8.00	99.0	0.42
Grading/Foundation	Rubber Tired Loaders	Diesel	Tier 4 Final	2.00	8.00	150	0.36
Mat Foundation	Pumps	Diesel	Tier 4 Final	6.00	8.00	49.0	0.74
Mat Foundation	Plate Compactors	Diesel	Average	6.00	8.00	8.00	0.43
Building Construction	Forklifts	Diesel	Tier 4 Final	2.00	8.00	89.0	0.20
Building Construction	Cranes	Electric	Average	4.00	8.00	367	0.29
Building Construction	Welders	Diesel	Tier 4 Final	2.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	97.0	0.37
Building Construction	Pumps	Diesel	Tier 4 Final	2.00	8.00	49.0	0.74
Building Construction	Other Construction Equipment	Diesel	Tier 4 Final	4.00	8.00	99.0	0.42
Building Construction	Aerial Lifts	Electric	Average	14.0	8.00	46.0	0.31
Paving/Landscape	Paving Equipment	Diesel	Tier 4 Final	1.00	8.00	99.0	0.36

Paving/Landscape	Rollers	Diesel	Tier 4 Final	1.00	8.00	49.9	0.38
Paving/Landscape	Skid Steer Loaders	Diesel	Tier 4 Final	2.00	8.00	71.0	0.37
Paving/Landscape	Trenchers	Diesel	Tier 4 Final	1.00	8.00	49.9	0.50
Finishing/Architectural Coating	Aerial Lifts	Electric	Average	14.0	8.00	46.0	0.31
Finishing/Architectural Coating	Air Compressors	Diesel	Tier 4 Final	6.00	8.00	49.9	0.48
Finishing/Architectural Coating	Cranes	Electric	Average	4.00	8.00	367	0.29
Finishing/Architectural Coating	Forklifts	Diesel	Tier 4 Final	2.00	8.00	89.0	0.20

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	100	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	80.0	32.0	HHDT
Demolition	Onsite truck	0.00	0.00	HHDT
Mat Foundation	—	—	—	—
Mat Foundation	Worker	100	18.5	LDA,LDT1,LDT2
Mat Foundation	Vendor	1,000	10.2	HHDT
Mat Foundation	Hauling	0.00	20.0	HHDT
Mat Foundation	Onsite truck	0.00	0.00	HHDT
Grading/Foundation	—	—	—	—
Grading/Foundation	Worker	390	18.5	LDA,LDT1,LDT2
Grading/Foundation	Vendor	40.0	32.0	HHDT

Grading/Foundation	Hauling	600	41.0	HHDT
Grading/Foundation	Onsite truck	0.00	0.00	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	1,350	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	100	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	0.00	0.00	HHDT
Paving/Landscape	—	—	—	—
Paving/Landscape	Worker	0.00	18.5	LDA,LDT1,LDT2
Paving/Landscape	Vendor	—	10.2	HHDT,MHDT
Paving/Landscape	Hauling	0.00	20.0	HHDT
Paving/Landscape	Onsite truck	—	—	HHDT
Finishing/Architectural Coating	—	—	—	—
Finishing/Architectural Coating	Worker	1,940	18.5	LDA,LDT1,LDT2
Finishing/Architectural Coating	Vendor	70.0	10.2	HHDT,MHDT
Finishing/Architectural Coating	Hauling	0.00	20.0	HHDT
Finishing/Architectural Coating	Onsite truck	0.00	0.00	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	100	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	80.0	32.0	HHDT
Demolition	Onsite truck	0.00	0.00	HHDT
Mat Foundation	—	—	—	—
Mat Foundation	Worker	100	18.5	LDA,LDT1,LDT2

Mat Foundation	Vendor	1,000	10.2	HHDT
Mat Foundation	Hauling	0.00	20.0	HHDT
Mat Foundation	Onsite truck	0.00	0.00	HHDT
Grading/Foundation	—	—	—	—
Grading/Foundation	Worker	390	18.5	LDA,LDT1,LDT2
Grading/Foundation	Vendor	40.0	32.0	HHDT
Grading/Foundation	Hauling	600	41.0	HHDT
Grading/Foundation	Onsite truck	0.00	0.00	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	1,350	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	100	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	0.00	0.00	HHDT
Paving/Landscape	—	—	—	—
Paving/Landscape	Worker	0.00	18.5	LDA,LDT1,LDT2
Paving/Landscape	Vendor	—	10.2	HHDT,MHDT
Paving/Landscape	Hauling	0.00	20.0	HHDT
Paving/Landscape	Onsite truck	—	—	HHDT
Finishing/Architectural Coating	—	—	—	—
Finishing/Architectural Coating	Worker	1,940	18.5	LDA,LDT1,LDT2
Finishing/Architectural Coating	Vendor	70.0	10.2	HHDT,MHDT
Finishing/Architectural Coating	Hauling	0.00	20.0	HHDT
Finishing/Architectural Coating	Onsite truck	0.00	0.00	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)
Finishing/Architectural Coating	0.00	0.00	2,811,000	937,000	—

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	0.00	0.00	0.00	495,860	—
Grading/Foundation	50,000	772,000	278	0.00	—
Paving/Landscape	0.00	0.00	0.00	0.00	10.0

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
General Office Building	0.00	0%
Industrial Park	0.00	0%
Enclosed Parking with Elevator	0.00	100%
Unenclosed Parking Structure	10.0	100%
High Turnover (Sit Down Restaurant)	0.00	0%

Strip Mall	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2023	0.00	0.00	0.05	0.01
2024	0.00	0.00	0.05	0.01
2025	0.00	0.00	0.05	0.01
2026	0.00	0.00	0.05	0.01
2035	0.00	372	0.05	0.01
2036	2,540	372	0.05	0.01
2037	6,270	372	0.05	0.01
2038	3,731	372	0.05	0.01

8. User Changes to Default Data

Screen	Justification
Land Use	Default acreage was modified per CalEEMod Guidelines (Total area of Project Site entered under the predominate land use);
Construction: Construction Phases	Project Specific 32-Month Schedule
Construction: Off-Road Equipment	Project Specific Construction Equipment for each subphase. Also, default CalEEmod horsepower was increased from default where applicable.
Construction: Paving	Driveway/Surface Parking. Approximately 40% of the site would require paving.
Construction: Trips and VMT	Project specific trip rates. Note that Finishing/Architectural Coating trips include Asphalt/Landscape subphase trips. Also, grading haul lengths is a composite of 46 trips of the 600 haul trips per day to Buttonwillow (145 miles) and remaining haul trips to Irwindale (32 miles). Vendor trips could also be used for import/export. Thus, the trip type was changed to HHDT and the additional trips distance was factored into the haul trip length.
Construction: On-Road Fugitive Dust	—

Characteristics: Utility Information	Consistent with SB 100 Requirements
Construction: Architectural Coatings	Square Footage Consistent with CalEEMod 2020. Compliance with Rule 1113 VOC limits.
Construction: Electricity	Consistency with SB 100 requirements.

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5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	TVC-Construction Impacts with Mitigation Measures (2040) v2
Construction Start Date	10/1/2023
Lead Agency	City of Los Angeles
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	19.6
Location	34.07526837326408, -118.35992854757305
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4302
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.14

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
General Office Building	1,400	1000sqft	25.0	1,400,000	0.00	—	—	—

Industrial Park	350	1000sqft	0.00	350,000	0.00	—	—	—
Enclosed Parking with Elevator	2,600	Space	0.00	1,040,000	0.00	—	—	—
Unenclosed Parking Structure	2,700	Space	0.00	1,080,000	0.00	—	—	—
High Turnover (Sit Down Restaurant)	5.00	1000sqft	0.00	5,000	0.00	—	—	—
Strip Mall	119.0	1000sqft	0.00	119,000	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers
Construction	C-12	Sweep Paved Roads

2. Emissions Summary

2.2. 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	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
2041	10.0	6.79	101	101	0.76	2.14	34.2	36.4	2.06	10.4	12.5	—	89,546
2042	8.85	35.5	28.8	135	0.10	0.24	44.5	44.7	0.22	10.5	10.7	—	45,898
2043	5.23	33.9	17.2	78.7	0.05	0.13	26.0	26.1	0.12	6.11	6.23	—	26,358
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
2040	13.3	9.56	129	135	0.88	2.85	42.5	45.3	2.72	12.0	14.8	—	104,146
2041	9.99	6.73	103	99.6	0.76	2.14	34.2	36.4	2.06	10.4	12.5	—	89,311

2042	4.85	32.3	16.3	62.5	0.06	0.17	26.0	26.0	0.16	6.11	6.18	—	24,070
2043	4.81	32.3	12.7	61.6	0.04	0.07	26.0	26.0	0.07	6.11	6.18	—	23,964
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2024	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2025	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2026	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2040	2.10	1.51	20.2	21.4	0.14	0.45	6.58	7.02	0.43	1.85	2.27	—	16,087
2041	4.99	3.51	43.2	56.5	0.29	0.83	18.5	19.3	0.80	5.19	5.98	—	39,097
2042	3.76	18.3	11.7	52.6	0.04	0.09	19.2	19.3	0.08	4.52	4.60	—	19,073
2043	1.45	9.64	4.02	19.5	0.01	0.02	7.57	7.60	0.02	1.78	1.80	—	7,245
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2024	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2025	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2026	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2040	0.38	0.28	3.68	3.90	0.02	0.08	1.20	1.28	0.08	0.34	0.41	—	2,663
2041	0.91	0.64	7.89	10.3	0.05	0.15	3.37	3.53	0.15	0.95	1.09	—	6,473
2042	0.69	3.34	2.13	9.61	0.01	0.02	3.50	3.52	0.02	0.82	0.84	—	3,158
2043	0.26	1.76	0.73	3.56	< 0.005	< 0.005	1.38	1.39	< 0.005	0.33	0.33	—	1,200

2.3. Construction Emissions by Year, Mitigated

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	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—

2041	5.67	3.44	81.4	138	0.76	1.49	34.2	35.7	1.49	10.4	11.9	—	89,546
2042	6.77	33.8	21.0	134	0.10	0.13	44.5	44.6	0.13	10.5	10.6	—	45,898
2043	3.93	32.9	15.6	78.2	0.05	0.07	26.0	26.0	0.07	6.11	6.18	—	26,358
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
2040	6.76	4.47	98.2	179	0.88	1.72	42.5	44.2	1.72	12.0	13.8	—	104,146
2041	5.62	3.38	83.7	136	0.76	1.49	34.2	35.7	1.49	10.4	11.9	—	89,311
2042	3.83	31.5	11.0	61.2	0.06	0.08	26.0	26.0	0.08	6.11	6.16	—	24,070
2043	3.78	31.5	10.9	60.3	0.04	0.05	26.0	26.0	0.05	6.11	6.16	—	23,964
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2024	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2025	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2026	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2040	1.06	0.70	15.3	28.2	0.14	0.27	6.58	6.84	0.27	1.85	2.11	—	16,087
2041	3.06	2.04	34.2	69.9	0.29	0.57	18.5	19.1	0.57	5.19	5.75	—	39,100
2042	2.90	17.6	8.91	52.3	0.04	0.05	19.2	19.2	0.05	4.52	4.57	—	19,073
2043	1.13	9.39	3.50	19.2	0.01	0.02	7.57	7.59	0.02	1.78	1.80	—	7,245
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2024	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2025	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2026	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2040	0.19	0.13	2.79	5.14	0.02	0.05	1.20	1.25	0.05	0.34	0.39	—	2,663
2041	0.56	0.37	6.24	12.8	0.05	0.10	3.37	3.48	0.10	0.95	1.05	—	6,473
2042	0.53	3.22	1.63	9.54	0.01	0.01	3.50	3.51	0.01	0.82	0.83	—	3,158
2043	0.21	1.71	0.64	3.50	< 0.005	< 0.005	1.38	1.39	< 0.005	0.33	0.33	—	1,200

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	10/1/2040	12/31/2040	5.00	65.0	—
Grading/Foundation	Grading	10/16/2040	6/30/2041	5.00	185	—
Mat Foundation	Building Construction	7/1/2041	7/7/2041	5.00	5.00	—
Building Construction	Building Construction	7/8/2041	5/31/2042	5.00	235	—
Paving/Landscape	Paving	5/1/2043	5/31/2043	5.00	21.0	—
Finishing/Architectural Coating	Architectural Coating	4/1/2042	5/31/2043	5.00	304	—

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	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Demolition	Excavators	Diesel	Average	4.00	8.00	158	0.38
Demolition	Concrete/Industrial Saws	Diesel	Average	2.00	8.00	49.0	0.73
Demolition	Other Construction Equipment	Diesel	Average	1.00	8.00	99.0	0.42
Grading/Foundation	Excavators	Diesel	Average	3.00	8.00	158	0.38
Grading/Foundation	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	97.0	0.37
Grading/Foundation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Grading/Foundation	Bore/Drill Rigs	Diesel	Average	6.00	8.00	221	0.50
Grading/Foundation	Pumps	Diesel	Average	4.00	8.00	49.0	0.74

Grading/Foundation	Cranes	Diesel	Average	2.00	8.00	367	0.29
Grading/Foundation	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Grading/Foundation	Other Construction Equipment	Diesel	Average	2.00	8.00	99.0	0.42
Grading/Foundation	Rubber Tired Loaders	Diesel	Average	2.00	8.00	150	0.36
Mat Foundation	Pumps	Diesel	Average	6.00	8.00	49.0	0.74
Mat Foundation	Plate Compactors	Diesel	Average	6.00	8.00	8.00	0.43
Building Construction	Forklifts	Diesel	Average	2.00	8.00	89.0	0.20
Building Construction	Cranes	Electric	Average	4.00	8.00	367	0.29
Building Construction	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	97.0	0.37
Building Construction	Pumps	Diesel	Average	2.00	8.00	49.0	0.74
Building Construction	Other Construction Equipment	Diesel	Average	4.00	8.00	99.0	0.42
Building Construction	Aerial Lifts	Electric	Average	14.0	8.00	46.0	0.31
Paving/Landscape	Paving Equipment	Diesel	Average	1.00	8.00	99.0	0.36
Paving/Landscape	Rollers	Diesel	Average	1.00	8.00	49.9	0.38
Paving/Landscape	Skid Steer Loaders	Diesel	Average	2.00	8.00	71.0	0.37
Paving/Landscape	Trenchers	Diesel	Average	1.00	8.00	49.9	0.50
Finishing/Architectural Coating	Aerial Lifts	Electric	Average	14.0	8.00	46.0	0.31
Finishing/Architectural Coating	Air Compressors	Diesel	Average	6.00	8.00	49.9	0.48
Finishing/Architectural Coating	Cranes	Electric	Average	4.00	8.00	367	0.29
Finishing/Architectural Coating	Forklifts	Diesel	Average	2.00	8.00	89.0	0.20

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	367	0.40
Demolition	Excavators	Diesel	Tier 4 Final	4.00	8.00	158	0.38
Demolition	Concrete/Industrial Saws	Diesel	Tier 4 Final	2.00	8.00	49.0	0.73
Demolition	Other Construction Equipment	Diesel	Tier 4 Final	1.00	8.00	99.0	0.42
Grading/Foundation	Excavators	Diesel	Tier 4 Final	3.00	8.00	158	0.38
Grading/Foundation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	8.00	97.0	0.37
Grading/Foundation	Rubber Tired Dozers	Diesel	Tier 4 Final	3.00	8.00	367	0.40
Grading/Foundation	Bore/Drill Rigs	Diesel	Tier 4 Final	6.00	8.00	221	0.50
Grading/Foundation	Pumps	Diesel	Tier 4 Final	4.00	8.00	49.0	0.74
Grading/Foundation	Cranes	Diesel	Tier 4 Final	2.00	8.00	367	0.29
Grading/Foundation	Welders	Diesel	Tier 4 Final	2.00	8.00	46.0	0.45
Grading/Foundation	Other Construction Equipment	Diesel	Tier 4 Final	2.00	8.00	99.0	0.42
Grading/Foundation	Rubber Tired Loaders	Diesel	Tier 4 Final	2.00	8.00	150	0.36
Mat Foundation	Pumps	Diesel	Tier 4 Final	6.00	8.00	49.0	0.74
Mat Foundation	Plate Compactors	Diesel	Average	6.00	8.00	8.00	0.43
Building Construction	Forklifts	Diesel	Tier 4 Final	2.00	8.00	89.0	0.20
Building Construction	Cranes	Electric	Average	4.00	8.00	367	0.29
Building Construction	Welders	Diesel	Tier 4 Final	2.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	97.0	0.37
Building Construction	Pumps	Diesel	Tier 4 Final	2.00	8.00	49.0	0.74
Building Construction	Other Construction Equipment	Diesel	Tier 4 Final	4.00	8.00	99.0	0.42
Building Construction	Aerial Lifts	Electric	Average	14.0	8.00	46.0	0.31
Paving/Landscape	Paving Equipment	Diesel	Tier 4 Final	1.00	8.00	99.0	0.36

Paving/Landscape	Rollers	Diesel	Tier 4 Final	1.00	8.00	49.9	0.38
Paving/Landscape	Skid Steer Loaders	Diesel	Tier 4 Final	2.00	8.00	71.0	0.37
Paving/Landscape	Trenchers	Diesel	Tier 4 Final	1.00	8.00	49.9	0.50
Finishing/Architectural Coating	Aerial Lifts	Electric	Average	14.0	8.00	46.0	0.31
Finishing/Architectural Coating	Air Compressors	Diesel	Tier 4 Final	6.00	8.00	49.9	0.48
Finishing/Architectural Coating	Cranes	Electric	Average	4.00	8.00	367	0.29
Finishing/Architectural Coating	Forklifts	Diesel	Tier 4 Final	2.00	8.00	89.0	0.20

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	100	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	80.0	32.0	HHDT
Demolition	Onsite truck	0.00	0.00	HHDT
Mat Foundation	—	—	—	—
Mat Foundation	Worker	100	18.5	LDA,LDT1,LDT2
Mat Foundation	Vendor	1,000	10.2	HHDT
Mat Foundation	Hauling	0.00	20.0	HHDT
Mat Foundation	Onsite truck	0.00	0.00	HHDT
Grading/Foundation	—	—	—	—
Grading/Foundation	Worker	390	18.5	LDA,LDT1,LDT2
Grading/Foundation	Vendor	40.0	32.0	HHDT

Grading/Foundation	Hauling	600	41.0	HHDT
Grading/Foundation	Onsite truck	0.00	0.00	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	1,350	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	100	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	0.00	0.00	HHDT
Paving/Landscape	—	—	—	—
Paving/Landscape	Worker	0.00	18.5	LDA,LDT1,LDT2
Paving/Landscape	Vendor	—	10.2	HHDT,MHDT
Paving/Landscape	Hauling	0.00	20.0	HHDT
Paving/Landscape	Onsite truck	—	—	HHDT
Finishing/Architectural Coating	—	—	—	—
Finishing/Architectural Coating	Worker	1,940	18.5	LDA,LDT1,LDT2
Finishing/Architectural Coating	Vendor	70.0	10.2	HHDT,MHDT
Finishing/Architectural Coating	Hauling	0.00	20.0	HHDT
Finishing/Architectural Coating	Onsite truck	0.00	0.00	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	100	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	80.0	32.0	HHDT
Demolition	Onsite truck	0.00	0.00	HHDT
Mat Foundation	—	—	—	—
Mat Foundation	Worker	100	18.5	LDA,LDT1,LDT2

Mat Foundation	Vendor	1,000	10.2	HHDT
Mat Foundation	Hauling	0.00	20.0	HHDT
Mat Foundation	Onsite truck	0.00	0.00	HHDT
Grading/Foundation	—	—	—	—
Grading/Foundation	Worker	390	18.5	LDA,LDT1,LDT2
Grading/Foundation	Vendor	40.0	32.0	HHDT
Grading/Foundation	Hauling	600	41.0	HHDT
Grading/Foundation	Onsite truck	0.00	0.00	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	1,350	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	100	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	0.00	0.00	HHDT
Paving/Landscape	—	—	—	—
Paving/Landscape	Worker	0.00	18.5	LDA,LDT1,LDT2
Paving/Landscape	Vendor	—	10.2	HHDT,MHDT
Paving/Landscape	Hauling	0.00	20.0	HHDT
Paving/Landscape	Onsite truck	—	—	HHDT
Finishing/Architectural Coating	—	—	—	—
Finishing/Architectural Coating	Worker	1,940	18.5	LDA,LDT1,LDT2
Finishing/Architectural Coating	Vendor	70.0	10.2	HHDT,MHDT
Finishing/Architectural Coating	Hauling	0.00	20.0	HHDT
Finishing/Architectural Coating	Onsite truck	0.00	0.00	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)
Finishing/Architectural Coating	0.00	0.00	2,811,000	937,000	—

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	0.00	0.00	0.00	495,860	—
Grading/Foundation	50,000	772,000	278	0.00	—
Paving/Landscape	0.00	0.00	0.00	0.00	10.0

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
General Office Building	0.00	0%
Industrial Park	0.00	0%
Enclosed Parking with Elevator	0.00	100%
Unenclosed Parking Structure	10.0	100%
High Turnover (Sit Down Restaurant)	0.00	0%

Strip Mall	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2023	0.00	0.00	0.05	0.01
2024	0.00	0.00	0.05	0.01
2025	0.00	0.00	0.05	0.01
2026	0.00	0.00	0.05	0.01
2040	0.00	346	0.05	0.01
2041	2,540	346	0.05	0.01
2042	6,270	346	0.05	0.01
2043	3,731	346	0.05	0.01

8. User Changes to Default Data

Screen	Justification
Land Use	Default acreage was modified per CalEEMod Guidelines (Total area of Project Site entered under the predominate land use);
Construction: Construction Phases	Project Specific 32-Month Schedule
Construction: Off-Road Equipment	Project Specific Construction Equipment for each subphase. Also, default CalEEmod horsepower was increased from default where applicable.
Construction: Paving	Driveway/Surface Parking. Approximately 40% of the site would require paving.
Construction: Trips and VMT	Project specific trip rates. Note that Finishing/Architectural Coating trips include Asphalt/Landscape subphase trips. Also, grading haul lengths is a composite of 46 trips of the 600 haul trips per day to Buttonwillow (145 miles) and remaining haul trips to Irwindale (32 miles). Vendor trips could also be used for import/export. Thus, the trip type was changed to HHDT and the additional trips distance was factored into the haul trip length.
Construction: On-Road Fugitive Dust	—

Characteristics: Utility Information	Consistent with SB 100 Requirements
Construction: Architectural Coatings	Square Footage Consistent with CalEEMod 2020. Compliance with Rule 1113 VOC limits.
Construction: Electricity	Consistency with SB 100 requirements.

TVC-Construction Impacts with Mitigation Measures (2026) Localized Custom Report

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5.8. Construction Electricity Consumption and Emissions Factors

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	TVC-Construction Impacts with Mitigation Measures (2026) Localized
Construction Start Date	10/1/2026
Lead Agency	City of Los Angeles
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	19.6
Location	34.07526837326408, -118.35992854757305
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4302
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.14

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
General Office Building	1,400	1000sqft	25.0	1,400,000	0.00	—	—	—

Industrial Park	350	1000sqft	0.00	350,000	0.00	—	—	—
Enclosed Parking with Elevator	2,600	Space	0.00	1,040,000	0.00	—	—	—
Unenclosed Parking Structure	2,700	Space	0.00	1,080,000	0.00	—	—	—
High Turnover (Sit Down Restaurant)	5.00	1000sqft	0.00	5,000	0.00	—	—	—
Strip Mall	119.0	1000sqft	0.00	119,000	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers
Construction	C-12	Sweep Paved Roads

2. Emissions Summary

2.2. 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	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	8.92	7.48	66.0	80.1	0.18	2.52	5.12	7.64	2.32	2.63	4.95	—	18,653
2028	3.57	31.5	26.1	37.2	0.06	0.78	0.00	0.78	0.71	0.00	0.71	—	5,143
2029	2.17	31.6	15.1	22.5	0.03	0.34	0.00	0.34	0.31	0.00	0.31	—	3,059
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	13.1	10.9	96.6	116	0.24	3.89	9.68	13.6	3.58	3.32	6.90	—	24,684
2027	8.92	7.48	66.0	80.1	0.18	2.52	5.12	7.64	2.32	2.63	4.95	—	18,653

2028	2.01	29.9	16.1	22.8	0.04	0.56	0.00	0.56	0.52	0.00	0.52	—	3,365
2029	1.49	29.8	9.80	14.2	0.02	0.18	0.00	0.18	0.17	0.00	0.17	—	1,777
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2024	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2025	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2026	2.07	1.74	15.3	18.4	0.04	0.62	1.58	2.20	0.57	0.52	1.09	—	3,887
2027	3.91	3.28	29.3	36.5	0.08	1.11	1.81	2.93	1.03	0.93	1.96	—	7,806
2028	1.44	16.6	10.2	14.5	0.02	0.28	0.00	0.28	0.26	0.00	0.26	—	1,958
2029	0.48	8.92	3.20	4.68	0.01	0.06	0.00	0.06	0.06	0.00	0.06	—	599
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2024	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2025	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2026	0.38	0.32	2.79	3.36	0.01	0.11	0.29	0.40	0.10	0.09	0.20	—	644
2027	0.71	0.60	5.35	6.67	0.01	0.20	0.33	0.53	0.19	0.17	0.36	—	1,292
2028	0.26	3.02	1.86	2.65	< 0.005	0.05	0.00	0.05	0.05	0.00	0.05	—	324
2029	0.09	1.63	0.58	0.85	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	—	99.2

2.3. Construction Emissions by Year, Mitigated

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	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	1.88	1.88	17.3	105	0.18	0.35	5.12	5.47	0.35	2.63	2.98	—	18,653
2028	0.65	29.2	13.7	36.5	0.06	0.09	0.00	0.09	0.09	0.00	0.09	—	5,143

2029	0.44	30.3	12.0	21.6	0.03	0.05	0.00	0.05	0.05	0.00	0.05	—	3,059
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	2.49	2.50	23.3	142	0.24	0.46	9.68	10.1	0.46	3.32	3.78	—	24,684
2027	1.88	1.88	17.3	105	0.18	0.35	5.12	5.47	0.35	2.63	2.98	—	18,653
2028	0.39	28.8	7.13	23.8	0.04	0.06	0.00	0.06	0.06	0.00	0.06	—	3,365
2029	0.26	28.8	7.13	12.7	0.02	0.03	0.00	0.03	0.03	0.00	0.03	—	1,777
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2024	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2025	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2026	0.39	0.39	3.67	22.4	0.04	0.07	1.58	1.66	0.07	0.52	0.59	—	3,887
2027	0.81	0.81	8.60	45.7	0.08	0.15	1.81	1.96	0.15	0.93	1.08	—	7,809
2028	0.26	15.6	5.81	13.9	0.02	0.04	0.00	0.04	0.04	0.00	0.04	—	1,958
2029	0.09	8.60	2.39	4.27	0.01	0.01	0.00	0.01	0.01	0.00	0.01	—	599
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2024	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2025	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2026	0.07	0.07	0.67	4.09	0.01	0.01	0.29	0.30	0.01	0.09	0.11	—	644
2027	0.15	0.15	1.57	8.34	0.01	0.03	0.33	0.36	0.03	0.17	0.20	—	1,293
2028	0.05	2.85	1.06	2.54	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	—	324
2029	0.02	1.57	0.44	0.78	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	—	99.2

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	10/1/2026	12/31/2026	5.00	65.0	—
Grading/Foundation	Grading	10/16/2026	6/30/2027	5.00	185	—
Mat Foundation	Building Construction	7/1/2027	7/7/2027	5.00	5.00	—
Building Construction	Building Construction	7/8/2027	5/31/2028	5.00	235	—
Paving/Landscape	Paving	5/1/2029	5/31/2029	5.00	21.0	—
Finishing/Architectural Coating	Architectural Coating	4/1/2028	5/31/2029	5.00	304	—

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	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Demolition	Excavators	Diesel	Average	4.00	8.00	158	0.38
Demolition	Concrete/Industrial Saws	Diesel	Average	2.00	8.00	49.0	0.73
Demolition	Other Construction Equipment	Diesel	Average	1.00	8.00	99.0	0.42
Grading/Foundation	Excavators	Diesel	Average	3.00	8.00	158	0.38
Grading/Foundation	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	97.0	0.37
Grading/Foundation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Grading/Foundation	Bore/Drill Rigs	Diesel	Average	6.00	8.00	221	0.50
Grading/Foundation	Pumps	Diesel	Average	4.00	8.00	49.0	0.74
Grading/Foundation	Cranes	Diesel	Average	2.00	8.00	367	0.29
Grading/Foundation	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Grading/Foundation	Other Construction Equipment	Diesel	Average	2.00	8.00	99.0	0.42

Grading/Foundation	Rubber Tired Loaders	Diesel	Average	2.00	8.00	150	0.36
Mat Foundation	Pumps	Diesel	Average	6.00	8.00	49.0	0.74
Mat Foundation	Plate Compactors	Diesel	Average	6.00	8.00	8.00	0.43
Building Construction	Forklifts	Diesel	Average	2.00	8.00	89.0	0.20
Building Construction	Cranes	Electric	Average	4.00	8.00	367	0.29
Building Construction	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	97.0	0.37
Building Construction	Pumps	Diesel	Average	2.00	8.00	49.0	0.74
Building Construction	Other Construction Equipment	Diesel	Average	4.00	8.00	99.0	0.42
Building Construction	Aerial Lifts	Electric	Average	14.0	8.00	46.0	0.31
Paving/Landscape	Paving Equipment	Diesel	Average	1.00	8.00	99.0	0.36
Paving/Landscape	Rollers	Diesel	Average	1.00	8.00	49.9	0.38
Paving/Landscape	Skid Steer Loaders	Diesel	Average	2.00	8.00	71.0	0.37
Paving/Landscape	Trenchers	Diesel	Average	1.00	8.00	49.9	0.50
Finishing/Architectural Coating	Aerial Lifts	Electric	Average	14.0	8.00	46.0	0.31
Finishing/Architectural Coating	Air Compressors	Diesel	Average	6.00	8.00	49.9	0.48
Finishing/Architectural Coating	Cranes	Electric	Average	4.00	8.00	367	0.29
Finishing/Architectural Coating	Forklifts	Diesel	Average	2.00	8.00	89.0	0.20

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	367	0.40
Demolition	Excavators	Diesel	Tier 4 Final	4.00	8.00	158	0.38

Demolition	Concrete/Industrial Saws	Diesel	Tier 4 Final	2.00	8.00	49.0	0.73
Demolition	Other Construction Equipment	Diesel	Tier 4 Final	1.00	8.00	99.0	0.42
Grading/Foundation	Excavators	Diesel	Tier 4 Final	3.00	8.00	158	0.38
Grading/Foundation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	8.00	97.0	0.37
Grading/Foundation	Rubber Tired Dozers	Diesel	Tier 4 Final	3.00	8.00	367	0.40
Grading/Foundation	Bore/Drill Rigs	Diesel	Tier 4 Final	6.00	8.00	221	0.50
Grading/Foundation	Pumps	Diesel	Tier 4 Final	4.00	8.00	49.0	0.74
Grading/Foundation	Cranes	Diesel	Tier 4 Final	2.00	8.00	367	0.29
Grading/Foundation	Welders	Diesel	Tier 4 Final	2.00	8.00	46.0	0.45
Grading/Foundation	Other Construction Equipment	Diesel	Tier 4 Final	2.00	8.00	99.0	0.42
Grading/Foundation	Rubber Tired Loaders	Diesel	Tier 4 Final	2.00	8.00	150	0.36
Mat Foundation	Pumps	Diesel	Tier 4 Final	6.00	8.00	49.0	0.74
Mat Foundation	Plate Compactors	Diesel	Average	6.00	8.00	8.00	0.43
Building Construction	Forklifts	Diesel	Tier 4 Final	2.00	8.00	89.0	0.20
Building Construction	Cranes	Electric	Average	4.00	8.00	367	0.29
Building Construction	Welders	Diesel	Tier 4 Final	2.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	97.0	0.37
Building Construction	Pumps	Diesel	Tier 4 Final	2.00	8.00	49.0	0.74
Building Construction	Other Construction Equipment	Diesel	Tier 4 Final	4.00	8.00	99.0	0.42
Building Construction	Aerial Lifts	Electric	Average	14.0	8.00	46.0	0.31
Paving/Landscape	Paving Equipment	Diesel	Tier 4 Final	1.00	8.00	99.0	0.36
Paving/Landscape	Rollers	Diesel	Tier 4 Final	1.00	8.00	49.9	0.38
Paving/Landscape	Skid Steer Loaders	Diesel	Tier 4 Final	2.00	8.00	71.0	0.37
Paving/Landscape	Trenchers	Diesel	Tier 4 Final	1.00	8.00	49.9	0.50

Finishing/Architectural Coating	Aerial Lifts	Electric	Average	14.0	8.00	46.0	0.31
Finishing/Architectural Coating	Air Compressors	Diesel	Tier 4 Final	6.00	8.00	49.9	0.48
Finishing/Architectural Coating	Cranes	Electric	Average	4.00	8.00	367	0.29
Finishing/Architectural Coating	Forklifts	Diesel	Tier 4 Final	2.00	8.00	89.0	0.20

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	0.00	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	-1.00	32.0	HHDT
Demolition	Onsite truck	0.00	0.00	HHDT
Mat Foundation	—	—	—	—
Mat Foundation	Worker	0.00	18.5	LDA,LDT1,LDT2
Mat Foundation	Vendor	0.00	10.2	HHDT
Mat Foundation	Hauling	0.00	20.0	HHDT
Mat Foundation	Onsite truck	0.00	0.00	HHDT
Grading/Foundation	—	—	—	—
Grading/Foundation	Worker	0.00	18.5	LDA,LDT1,LDT2
Grading/Foundation	Vendor	0.00	32.0	HHDT
Grading/Foundation	Hauling	0.00	41.0	HHDT
Grading/Foundation	Onsite truck	0.00	0.00	HHDT
Building Construction	—	—	—	—

Building Construction	Worker	0.00	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	0.00	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	0.00	0.00	HHDT
Paving/Landscape	—	—	—	—
Paving/Landscape	Worker	0.00	18.5	LDA,LDT1,LDT2
Paving/Landscape	Vendor	—	10.2	HHDT,MHDT
Paving/Landscape	Hauling	0.00	20.0	HHDT
Paving/Landscape	Onsite truck	—	—	HHDT
Finishing/Architectural Coating	—	—	—	—
Finishing/Architectural Coating	Worker	0.00	18.5	LDA,LDT1,LDT2
Finishing/Architectural Coating	Vendor	0.00	10.2	HHDT,MHDT
Finishing/Architectural Coating	Hauling	0.00	20.0	HHDT
Finishing/Architectural Coating	Onsite truck	0.00	0.00	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	0.00	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	-1.00	32.0	HHDT
Demolition	Onsite truck	0.00	0.00	HHDT
Mat Foundation	—	—	—	—
Mat Foundation	Worker	0.00	18.5	LDA,LDT1,LDT2
Mat Foundation	Vendor	0.00	10.2	HHDT
Mat Foundation	Hauling	0.00	20.0	HHDT
Mat Foundation	Onsite truck	0.00	0.00	HHDT

Grading/Foundation	—	—	—	—
Grading/Foundation	Worker	0.00	18.5	LDA,LDT1,LDT2
Grading/Foundation	Vendor	0.00	32.0	HHDT
Grading/Foundation	Hauling	0.00	41.0	HHDT
Grading/Foundation	Onsite truck	0.00	0.00	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	0.00	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	0.00	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	0.00	0.00	HHDT
Paving/Landscape	—	—	—	—
Paving/Landscape	Worker	0.00	18.5	LDA,LDT1,LDT2
Paving/Landscape	Vendor	—	10.2	HHDT,MHDT
Paving/Landscape	Hauling	0.00	20.0	HHDT
Paving/Landscape	Onsite truck	—	—	HHDT
Finishing/Architectural Coating	—	—	—	—
Finishing/Architectural Coating	Worker	0.00	18.5	LDA,LDT1,LDT2
Finishing/Architectural Coating	Vendor	0.00	10.2	HHDT,MHDT
Finishing/Architectural Coating	Hauling	0.00	20.0	HHDT
Finishing/Architectural Coating	Onsite truck	0.00	0.00	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)
Finishing/Architectural Coating	0.00	0.00	2,811,000	937,000	—

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	0.00	0.00	0.00	495,860	—
Grading/Foundation	50,000	772,000	278	0.00	—
Paving/Landscape	0.00	0.00	0.00	0.00	10.0

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
General Office Building	0.00	0%
Industrial Park	0.00	0%
Enclosed Parking with Elevator	0.00	100%
Unenclosed Parking Structure	10.0	100%
High Turnover (Sit Down Restaurant)	0.00	0%
Strip Mall	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2023	0.00	609	0.05	0.01
2024	2,540	601	0.05	0.01
2025	6,270	593	0.05	0.01
2026	3,731	585	0.05	0.01

8. User Changes to Default Data

Screen	Justification
Land Use	Default acreage was modified per CalEEMod Guidelines (Total area of Project Site entered under the predominate land use);
Construction: Construction Phases	Project Specific 32-Month Schedule
Construction: Off-Road Equipment	Project Specific Construction Equipment for each subphase. Also, default CalEEmod horsepower was increased from default where applicable.
Construction: Paving	Driveway/Surface Parking. Approximately 40% of the site would require paving.
Construction: Trips and VMT	Project specific trip rates. Note that Finishing/Architectural Coating trips include Asphalt/Landscape subphase trips. Also, grading haul lengths is a composite of 46 trips of the 600 haul trips per day to Buttonwillow (145 miles) and remaining haul trips to Irwindale (32 miles). Vendor trips could also be used for import/export. Thus, the trip type was changed to HHDT and the additional trips distance was factored into the haul trip length.
Construction: On-Road Fugitive Dust	—
Characteristics: Utility Information	Consistent with SB 100 Requirements
Construction: Architectural Coatings	Square Footage Consistent with CalEEMod 2020. Compliance with Rule 1113 VOC limits.
Construction: Electricity	Consistency with SB 100 requirements.

TVC-Construction Impacts with Mitigation Measures (2030) Localized Custom Report

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5.8. Construction Electricity Consumption and Emissions Factors

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	TVC-Construction Impacts with Mitigation Measures (2030) Localized
Construction Start Date	10/1/2023
Lead Agency	City of Los Angeles
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	19.6
Location	34.07526837326408, -118.35992854757305
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4302
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.14

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
General Office Building	1,400	1000sqft	25.0	1,400,000	0.00	—	—	—

Industrial Park	350	1000sqft	0.00	350,000	0.00	—	—	—
Enclosed Parking with Elevator	2,600	Space	0.00	1,040,000	0.00	—	—	—
Unenclosed Parking Structure	2,700	Space	0.00	1,080,000	0.00	—	—	—
High Turnover (Sit Down Restaurant)	5.00	1000sqft	0.00	5,000	0.00	—	—	—
Strip Mall	119.0	1000sqft	0.00	119,000	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers
Construction	C-12	Sweep Paved Roads

2. Emissions Summary

2.2. 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	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
2031	8.04	6.74	56.4	79.2	0.18	2.05	5.12	7.17	1.89	2.63	4.52	—	18,653
2032	3.05	31.1	23.9	36.8	0.06	0.50	0.00	0.50	0.46	0.00	0.46	—	5,151
2033	1.92	31.4	14.4	22.3	0.03	0.23	0.00	0.23	0.21	0.00	0.21	—	3,071
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
2030	11.6	9.75	81.5	115	0.24	3.06	9.71	12.8	2.82	3.32	6.14	—	24,776
2031	8.04	6.74	56.4	79.2	0.18	2.05	5.12	7.17	1.89	2.63	4.52	—	18,653

2032	1.70	29.7	14.5	22.6	0.04	0.38	0.00	0.38	0.35	0.00	0.35	—	3,373
2033	1.33	29.7	9.33	14.1	0.02	0.11	0.00	0.11	0.10	0.00	0.10	—	1,789
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2024	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2025	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2026	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2030	1.85	1.55	12.9	18.2	0.04	0.49	1.59	2.08	0.45	0.52	0.97	—	3,901
2031	3.48	2.92	25.3	36.1	0.08	0.87	1.81	2.69	0.80	0.93	1.74	—	7,807
2032	1.24	16.4	9.39	14.3	0.02	0.18	0.00	0.18	0.16	0.00	0.16	—	1,964
2033	0.43	8.87	3.05	4.63	0.01	0.04	0.00	0.04	0.04	0.00	0.04	—	603
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2024	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2025	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2026	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2030	0.34	0.28	2.36	3.33	0.01	0.09	0.29	0.38	0.08	0.09	0.18	—	646
2031	0.64	0.53	4.62	6.59	0.01	0.16	0.33	0.49	0.15	0.17	0.32	—	1,293
2032	0.23	2.99	1.71	2.62	< 0.005	0.03	0.00	0.03	0.03	0.00	0.03	—	325
2033	0.08	1.62	0.56	0.85	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	—	99.9

2.3. Construction Emissions by Year, Mitigated

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	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—

2031	1.88	1.88	17.3	105	0.18	0.35	5.12	5.47	0.35	2.63	2.98	—	18,653
2032	0.65	29.2	13.7	36.5	0.06	0.09	0.00	0.09	0.09	0.00	0.09	—	5,151
2033	0.44	30.3	12.0	21.6	0.03	0.05	0.00	0.05	0.05	0.00	0.05	—	3,071
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
2030	2.50	2.50	23.4	142	0.24	0.46	9.71	10.2	0.46	3.32	3.79	—	24,776
2031	1.88	1.88	17.3	105	0.18	0.35	5.12	5.47	0.35	2.63	2.98	—	18,653
2032	0.39	28.8	7.13	23.8	0.04	0.06	0.00	0.06	0.06	0.00	0.06	—	3,373
2033	0.26	28.8	7.13	12.7	0.02	0.03	0.00	0.03	0.03	0.00	0.03	—	1,789
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2024	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2025	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2026	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2030	0.39	0.39	3.69	22.4	0.04	0.07	1.59	1.66	0.07	0.52	0.59	—	3,901
2031	0.81	0.81	8.60	45.7	0.08	0.15	1.81	1.96	0.15	0.93	1.08	—	7,810
2032	0.26	15.6	5.81	13.9	0.02	0.04	0.00	0.04	0.04	0.00	0.04	—	1,964
2033	0.09	8.60	2.39	4.27	0.01	0.01	0.00	0.01	0.01	0.00	0.01	—	603
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2024	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2025	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2026	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2030	0.07	0.07	0.67	4.09	0.01	0.01	0.29	0.30	0.01	0.09	0.11	—	646
2031	0.15	0.15	1.57	8.34	0.01	0.03	0.33	0.36	0.03	0.17	0.20	—	1,293
2032	0.05	2.85	1.06	2.54	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	—	325
2033	0.02	1.57	0.44	0.78	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	—	99.9

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	10/1/2030	12/31/2030	5.00	65.0	—
Grading/Foundation	Grading	10/16/2030	6/30/2031	5.00	185	—
Mat Foundation	Building Construction	7/1/2031	7/7/2031	5.00	5.00	—
Building Construction	Building Construction	7/8/2031	5/31/2032	5.00	235	—
Paving/Landscape	Paving	5/1/2033	5/31/2033	5.00	21.0	—
Finishing/Architectural Coating	Architectural Coating	4/1/2032	5/31/2033	5.00	304	—

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	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Demolition	Excavators	Diesel	Average	4.00	8.00	158	0.38
Demolition	Concrete/Industrial Saws	Diesel	Average	2.00	8.00	49.0	0.73
Demolition	Other Construction Equipment	Diesel	Average	1.00	8.00	99.0	0.42
Grading/Foundation	Excavators	Diesel	Average	3.00	8.00	158	0.38
Grading/Foundation	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	97.0	0.37
Grading/Foundation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Grading/Foundation	Bore/Drill Rigs	Diesel	Average	6.00	8.00	221	0.50
Grading/Foundation	Pumps	Diesel	Average	4.00	8.00	49.0	0.74

Grading/Foundation	Cranes	Diesel	Average	2.00	8.00	367	0.29
Grading/Foundation	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Grading/Foundation	Other Construction Equipment	Diesel	Average	2.00	8.00	99.0	0.42
Grading/Foundation	Rubber Tired Loaders	Diesel	Average	2.00	8.00	150	0.36
Mat Foundation	Pumps	Diesel	Average	6.00	8.00	49.0	0.74
Mat Foundation	Plate Compactors	Diesel	Average	6.00	8.00	8.00	0.43
Building Construction	Forklifts	Diesel	Average	2.00	8.00	89.0	0.20
Building Construction	Cranes	Electric	Average	4.00	8.00	367	0.29
Building Construction	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	97.0	0.37
Building Construction	Pumps	Diesel	Average	2.00	8.00	49.0	0.74
Building Construction	Other Construction Equipment	Diesel	Average	4.00	8.00	99.0	0.42
Building Construction	Aerial Lifts	Electric	Average	14.0	8.00	46.0	0.31
Paving/Landscape	Paving Equipment	Diesel	Average	1.00	8.00	99.0	0.36
Paving/Landscape	Rollers	Diesel	Average	1.00	8.00	49.9	0.38
Paving/Landscape	Skid Steer Loaders	Diesel	Average	2.00	8.00	71.0	0.37
Paving/Landscape	Trenchers	Diesel	Average	1.00	8.00	49.9	0.50
Finishing/Architectural Coating	Aerial Lifts	Electric	Average	14.0	8.00	46.0	0.31
Finishing/Architectural Coating	Air Compressors	Diesel	Average	6.00	8.00	49.9	0.48
Finishing/Architectural Coating	Cranes	Electric	Average	4.00	8.00	367	0.29
Finishing/Architectural Coating	Forklifts	Diesel	Average	2.00	8.00	89.0	0.20

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	367	0.40
Demolition	Excavators	Diesel	Tier 4 Final	4.00	8.00	158	0.38
Demolition	Concrete/Industrial Saws	Diesel	Tier 4 Final	2.00	8.00	49.0	0.73
Demolition	Other Construction Equipment	Diesel	Tier 4 Final	1.00	8.00	99.0	0.42
Grading/Foundation	Excavators	Diesel	Tier 4 Final	3.00	8.00	158	0.38
Grading/Foundation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	8.00	97.0	0.37
Grading/Foundation	Rubber Tired Dozers	Diesel	Tier 4 Final	3.00	8.00	367	0.40
Grading/Foundation	Bore/Drill Rigs	Diesel	Tier 4 Final	6.00	8.00	221	0.50
Grading/Foundation	Pumps	Diesel	Tier 4 Final	4.00	8.00	49.0	0.74
Grading/Foundation	Cranes	Diesel	Tier 4 Final	2.00	8.00	367	0.29
Grading/Foundation	Welders	Diesel	Tier 4 Final	2.00	8.00	46.0	0.45
Grading/Foundation	Other Construction Equipment	Diesel	Tier 4 Final	2.00	8.00	99.0	0.42
Grading/Foundation	Rubber Tired Loaders	Diesel	Tier 4 Final	2.00	8.00	150	0.36
Mat Foundation	Pumps	Diesel	Tier 4 Final	6.00	8.00	49.0	0.74
Mat Foundation	Plate Compactors	Diesel	Average	6.00	8.00	8.00	0.43
Building Construction	Forklifts	Diesel	Tier 4 Final	2.00	8.00	89.0	0.20
Building Construction	Cranes	Electric	Average	4.00	8.00	367	0.29
Building Construction	Welders	Diesel	Tier 4 Final	2.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	97.0	0.37
Building Construction	Pumps	Diesel	Tier 4 Final	2.00	8.00	49.0	0.74
Building Construction	Other Construction Equipment	Diesel	Tier 4 Final	4.00	8.00	99.0	0.42
Building Construction	Aerial Lifts	Electric	Average	14.0	8.00	46.0	0.31
Paving/Landscape	Paving Equipment	Diesel	Tier 4 Final	1.00	8.00	99.0	0.36

Paving/Landscape	Rollers	Diesel	Tier 4 Final	1.00	8.00	49.9	0.38
Paving/Landscape	Skid Steer Loaders	Diesel	Tier 4 Final	2.00	8.00	71.0	0.37
Paving/Landscape	Trenchers	Diesel	Tier 4 Final	1.00	8.00	49.9	0.50
Finishing/Architectural Coating	Aerial Lifts	Electric	Average	14.0	8.00	46.0	0.31
Finishing/Architectural Coating	Air Compressors	Diesel	Tier 4 Final	6.00	8.00	49.9	0.48
Finishing/Architectural Coating	Cranes	Electric	Average	4.00	8.00	367	0.29
Finishing/Architectural Coating	Forklifts	Diesel	Tier 4 Final	2.00	8.00	89.0	0.20

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	0.00	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	0.00	32.0	HHDT
Demolition	Onsite truck	0.00	0.00	HHDT
Mat Foundation	—	—	—	—
Mat Foundation	Worker	0.00	18.5	LDA,LDT1,LDT2
Mat Foundation	Vendor	0.00	10.2	HHDT
Mat Foundation	Hauling	0.00	20.0	HHDT
Mat Foundation	Onsite truck	0.00	0.00	HHDT
Grading/Foundation	—	—	—	—
Grading/Foundation	Worker	0.00	18.5	LDA,LDT1,LDT2
Grading/Foundation	Vendor	0.00	32.0	HHDT

Grading/Foundation	Hauling	0.00	41.0	HHDT
Grading/Foundation	Onsite truck	0.00	0.00	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	0.00	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	0.00	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	0.00	0.00	HHDT
Paving/Landscape	—	—	—	—
Paving/Landscape	Worker	0.00	18.5	LDA,LDT1,LDT2
Paving/Landscape	Vendor	—	10.2	HHDT,MHDT
Paving/Landscape	Hauling	0.00	20.0	HHDT
Paving/Landscape	Onsite truck	—	—	HHDT
Finishing/Architectural Coating	—	—	—	—
Finishing/Architectural Coating	Worker	0.00	18.5	LDA,LDT1,LDT2
Finishing/Architectural Coating	Vendor	0.00	10.2	HHDT,MHDT
Finishing/Architectural Coating	Hauling	0.00	20.0	HHDT
Finishing/Architectural Coating	Onsite truck	0.00	0.00	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	0.00	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	0.00	32.0	HHDT
Demolition	Onsite truck	0.00	0.00	HHDT
Mat Foundation	—	—	—	—
Mat Foundation	Worker	0.00	18.5	LDA,LDT1,LDT2

Mat Foundation	Vendor	0.00	10.2	HHDT
Mat Foundation	Hauling	0.00	20.0	HHDT
Mat Foundation	Onsite truck	0.00	0.00	HHDT
Grading/Foundation	—	—	—	—
Grading/Foundation	Worker	0.00	18.5	LDA,LDT1,LDT2
Grading/Foundation	Vendor	0.00	32.0	HHDT
Grading/Foundation	Hauling	0.00	41.0	HHDT
Grading/Foundation	Onsite truck	0.00	0.00	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	0.00	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	0.00	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	0.00	0.00	HHDT
Paving/Landscape	—	—	—	—
Paving/Landscape	Worker	0.00	18.5	LDA,LDT1,LDT2
Paving/Landscape	Vendor	—	10.2	HHDT,MHDT
Paving/Landscape	Hauling	0.00	20.0	HHDT
Paving/Landscape	Onsite truck	—	—	HHDT
Finishing/Architectural Coating	—	—	—	—
Finishing/Architectural Coating	Worker	0.00	18.5	LDA,LDT1,LDT2
Finishing/Architectural Coating	Vendor	0.00	10.2	HHDT,MHDT
Finishing/Architectural Coating	Hauling	0.00	20.0	HHDT
Finishing/Architectural Coating	Onsite truck	0.00	0.00	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)
Finishing/Architectural Coating	0.00	0.00	2,811,000	937,000	—

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	0.00	0.00	0.00	495,860	—
Grading/Foundation	50,000	772,000	278	0.00	—
Paving/Landscape	0.00	0.00	0.00	0.00	10.0

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
General Office Building	0.00	0%
Industrial Park	0.00	0%
Enclosed Parking with Elevator	0.00	100%
Unenclosed Parking Structure	10.0	100%
High Turnover (Sit Down Restaurant)	0.00	0%

Strip Mall	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2023	0.00	0.00	0.05	0.01
2024	0.00	0.00	0.05	0.01
2025	0.00	0.00	0.05	0.01
2026	0.00	0.00	0.05	0.01
2030	0.00	403	0.05	0.01
2031	2,540	403	0.05	0.01
2032	6,270	403	0.05	0.01
2033	3,731	403	0.05	0.01

8. User Changes to Default Data

Screen	Justification
Land Use	Default acreage was modified per CalEEMod Guidelines (Total area of Project Site entered under the predominate land use);
Construction: Construction Phases	Project Specific 32-Month Schedule
Construction: Off-Road Equipment	Project Specific Construction Equipment for each subphase. Also, default CalEEmod horsepower was increased from default where applicable.
Construction: Paving	Driveway/Surface Parking. Approximately 40% of the site would require paving.
Construction: Trips and VMT	Project specific trip rates. Note that Finishing/Architectural Coating trips include Asphalt/Landscape subphase trips. Also, grading haul lengths is a composite of 46 trips of the 600 haul trips per day to Buttonwillow (145 miles) and remaining haul trips to Irwindale (32 miles). Vendor trips could also be used for import/export. Thus, the trip type was changed to HHDT and the additional trips distance was factored into the haul trip length.
Construction: On-Road Fugitive Dust	—

Characteristics: Utility Information	Consistent with SB 100 Requirements
Construction: Architectural Coatings	Square Footage Consistent with CalEEMod 2020. Compliance with Rule 1113 VOC limits.
Construction: Electricity	Consistency with SB 100 requirements.

TVC-Construction Impacts with Mitigation Measures (2035) Localized Custom Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	TVC-Construction Impacts with Mitigation Measures (2035) Localized
Construction Start Date	10/1/2023
Lead Agency	City of Los Angeles
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	19.6
Location	34.07526837326408, -118.35992854757305
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4302
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.14

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
General Office Building	1,400	1000sqft	25.0	1,400,000	0.00	—	—	—

Industrial Park	350	1000sqft	0.00	350,000	0.00	—	—	—
Enclosed Parking with Elevator	2,600	Space	0.00	1,040,000	0.00	—	—	—
Unenclosed Parking Structure	2,700	Space	0.00	1,080,000	0.00	—	—	—
High Turnover (Sit Down Restaurant)	5.00	1000sqft	0.00	5,000	0.00	—	—	—
Strip Mall	119.0	1000sqft	0.00	119,000	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers
Construction	C-12	Sweep Paved Roads

2. Emissions Summary

2.2. 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	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
2036	6.85	5.74	44.1	71.9	0.18	1.32	5.12	6.44	1.22	2.63	3.84	—	18,653
2037	2.78	30.9	22.4	36.6	0.06	0.27	0.00	0.27	0.25	0.00	0.25	—	5,150
2038	1.78	31.3	13.8	22.1	0.03	0.14	0.00	0.14	0.13	0.00	0.13	—	3,070
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
2035	10.00	8.38	64.6	104	0.24	2.07	9.71	11.8	1.91	3.32	5.23	—	24,775
2036	6.85	5.74	44.1	71.9	0.18	1.32	5.12	6.44	1.22	2.63	3.84	—	18,653

2037	1.50	29.6	13.3	22.5	0.04	0.20	0.00	0.20	0.19	0.00	0.19	—	3,373
2038	1.28	29.6	9.04	14.0	0.02	0.06	0.00	0.06	0.06	0.00	0.06	—	1,788
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2024	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2025	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2026	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2035	1.59	1.33	10.2	16.6	0.04	0.33	1.59	1.92	0.30	0.52	0.82	—	3,901
2036	2.99	2.50	20.6	33.6	0.08	0.55	1.82	2.38	0.51	0.94	1.44	—	7,843
2037	1.14	16.3	8.82	14.2	0.02	0.10	0.00	0.10	0.09	0.00	0.09	—	1,957
2038	0.41	8.86	2.95	4.60	0.01	0.02	0.00	0.02	0.02	0.00	0.02	—	603
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2024	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2025	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2026	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2035	0.29	0.24	1.87	3.03	0.01	0.06	0.29	0.35	0.06	0.09	0.15	—	646
2036	0.55	0.46	3.76	6.14	0.01	0.10	0.33	0.43	0.09	0.17	0.26	—	1,299
2037	0.21	2.98	1.61	2.59	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	—	324
2038	0.07	1.62	0.54	0.84	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	—	99.8

2.3. Construction Emissions by Year, Mitigated

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	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—

2036	1.88	1.88	17.3	105	0.18	0.35	5.12	5.47	0.35	2.63	2.98	—	18,653
2037	0.65	29.2	13.7	36.5	0.06	0.09	0.00	0.09	0.09	0.00	0.09	—	5,150
2038	0.44	30.3	12.0	21.6	0.03	0.05	0.00	0.05	0.05	0.00	0.05	—	3,070
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
2035	2.50	2.50	23.4	142	0.24	0.46	9.71	10.2	0.46	3.32	3.79	—	24,775
2036	1.88	1.88	17.3	105	0.18	0.35	5.12	5.47	0.35	2.63	2.98	—	18,653
2037	0.39	28.8	7.13	23.8	0.04	0.06	0.00	0.06	0.06	0.00	0.06	—	3,373
2038	0.26	28.8	7.13	12.7	0.02	0.03	0.00	0.03	0.03	0.00	0.03	—	1,788
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2024	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2025	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2026	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2035	0.39	0.39	3.69	22.4	0.04	0.07	1.59	1.66	0.07	0.52	0.59	—	3,901
2036	0.82	0.81	8.63	45.9	0.08	0.15	1.82	1.97	0.15	0.94	1.08	—	7,846
2037	0.26	15.6	5.79	13.9	0.02	0.04	0.00	0.04	0.04	0.00	0.04	—	1,957
2038	0.09	8.60	2.39	4.27	0.01	0.01	0.00	0.01	0.01	0.00	0.01	—	603
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2024	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2025	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2026	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2035	0.07	0.07	0.67	4.09	0.01	0.01	0.29	0.30	0.01	0.09	0.11	—	646
2036	0.15	0.15	1.57	8.38	0.01	0.03	0.33	0.36	0.03	0.17	0.20	—	1,299
2037	0.05	2.85	1.06	2.53	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	—	324
2038	0.02	1.57	0.44	0.78	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	—	99.8

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	10/1/2035	12/31/2035	5.00	65.0	—
Grading/Foundation	Grading	10/16/2035	6/30/2036	5.00	185	—
Mat Foundation	Building Construction	7/1/2036	7/7/2036	5.00	5.00	—
Building Construction	Building Construction	7/8/2036	5/31/2037	5.00	235	—
Paving/Landscape	Paving	5/1/2038	5/31/2038	5.00	21.0	—
Finishing/Architectural Coating	Architectural Coating	4/1/2037	5/31/2038	5.00	304	—

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	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Demolition	Excavators	Diesel	Average	4.00	8.00	158	0.38
Demolition	Concrete/Industrial Saws	Diesel	Average	2.00	8.00	49.0	0.73
Demolition	Other Construction Equipment	Diesel	Average	1.00	8.00	99.0	0.42
Grading/Foundation	Excavators	Diesel	Average	3.00	8.00	158	0.38
Grading/Foundation	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	97.0	0.37
Grading/Foundation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Grading/Foundation	Bore/Drill Rigs	Diesel	Average	6.00	8.00	221	0.50
Grading/Foundation	Pumps	Diesel	Average	4.00	8.00	49.0	0.74

Grading/Foundation	Cranes	Diesel	Average	2.00	8.00	367	0.29
Grading/Foundation	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Grading/Foundation	Other Construction Equipment	Diesel	Average	2.00	8.00	99.0	0.42
Grading/Foundation	Rubber Tired Loaders	Diesel	Average	2.00	8.00	150	0.36
Mat Foundation	Pumps	Diesel	Average	6.00	8.00	49.0	0.74
Mat Foundation	Plate Compactors	Diesel	Average	6.00	8.00	8.00	0.43
Building Construction	Forklifts	Diesel	Average	2.00	8.00	89.0	0.20
Building Construction	Cranes	Electric	Average	4.00	8.00	367	0.29
Building Construction	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	97.0	0.37
Building Construction	Pumps	Diesel	Average	2.00	8.00	49.0	0.74
Building Construction	Other Construction Equipment	Diesel	Average	4.00	8.00	99.0	0.42
Building Construction	Aerial Lifts	Electric	Average	14.0	8.00	46.0	0.31
Paving/Landscape	Paving Equipment	Diesel	Average	1.00	8.00	99.0	0.36
Paving/Landscape	Rollers	Diesel	Average	1.00	8.00	49.9	0.38
Paving/Landscape	Skid Steer Loaders	Diesel	Average	2.00	8.00	71.0	0.37
Paving/Landscape	Trenchers	Diesel	Average	1.00	8.00	49.9	0.50
Finishing/Architectural Coating	Aerial Lifts	Electric	Average	14.0	8.00	46.0	0.31
Finishing/Architectural Coating	Air Compressors	Diesel	Average	6.00	8.00	49.9	0.48
Finishing/Architectural Coating	Cranes	Electric	Average	4.00	8.00	367	0.29
Finishing/Architectural Coating	Forklifts	Diesel	Average	2.00	8.00	89.0	0.20

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	367	0.40
Demolition	Excavators	Diesel	Tier 4 Final	4.00	8.00	158	0.38
Demolition	Concrete/Industrial Saws	Diesel	Tier 4 Final	2.00	8.00	49.0	0.73
Demolition	Other Construction Equipment	Diesel	Tier 4 Final	1.00	8.00	99.0	0.42
Grading/Foundation	Excavators	Diesel	Tier 4 Final	3.00	8.00	158	0.38
Grading/Foundation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	8.00	97.0	0.37
Grading/Foundation	Rubber Tired Dozers	Diesel	Tier 4 Final	3.00	8.00	367	0.40
Grading/Foundation	Bore/Drill Rigs	Diesel	Tier 4 Final	6.00	8.00	221	0.50
Grading/Foundation	Pumps	Diesel	Tier 4 Final	4.00	8.00	49.0	0.74
Grading/Foundation	Cranes	Diesel	Tier 4 Final	2.00	8.00	367	0.29
Grading/Foundation	Welders	Diesel	Tier 4 Final	2.00	8.00	46.0	0.45
Grading/Foundation	Other Construction Equipment	Diesel	Tier 4 Final	2.00	8.00	99.0	0.42
Grading/Foundation	Rubber Tired Loaders	Diesel	Tier 4 Final	2.00	8.00	150	0.36
Mat Foundation	Pumps	Diesel	Tier 4 Final	6.00	8.00	49.0	0.74
Mat Foundation	Plate Compactors	Diesel	Average	6.00	8.00	8.00	0.43
Building Construction	Forklifts	Diesel	Tier 4 Final	2.00	8.00	89.0	0.20
Building Construction	Cranes	Electric	Average	4.00	8.00	367	0.29
Building Construction	Welders	Diesel	Tier 4 Final	2.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	97.0	0.37
Building Construction	Pumps	Diesel	Tier 4 Final	2.00	8.00	49.0	0.74
Building Construction	Other Construction Equipment	Diesel	Tier 4 Final	4.00	8.00	99.0	0.42
Building Construction	Aerial Lifts	Electric	Average	14.0	8.00	46.0	0.31
Paving/Landscape	Paving Equipment	Diesel	Tier 4 Final	1.00	8.00	99.0	0.36

Paving/Landscape	Rollers	Diesel	Tier 4 Final	1.00	8.00	49.9	0.38
Paving/Landscape	Skid Steer Loaders	Diesel	Tier 4 Final	2.00	8.00	71.0	0.37
Paving/Landscape	Trenchers	Diesel	Tier 4 Final	1.00	8.00	49.9	0.50
Finishing/Architectural Coating	Aerial Lifts	Electric	Average	14.0	8.00	46.0	0.31
Finishing/Architectural Coating	Air Compressors	Diesel	Tier 4 Final	6.00	8.00	49.9	0.48
Finishing/Architectural Coating	Cranes	Electric	Average	4.00	8.00	367	0.29
Finishing/Architectural Coating	Forklifts	Diesel	Tier 4 Final	2.00	8.00	89.0	0.20

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	0.00	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	0.00	32.0	HHDT
Demolition	Onsite truck	0.00	0.00	HHDT
Mat Foundation	—	—	—	—
Mat Foundation	Worker	0.00	18.5	LDA,LDT1,LDT2
Mat Foundation	Vendor	0.00	10.2	HHDT
Mat Foundation	Hauling	0.00	20.0	HHDT
Mat Foundation	Onsite truck	0.00	0.00	HHDT
Grading/Foundation	—	—	—	—
Grading/Foundation	Worker	0.00	18.5	LDA,LDT1,LDT2
Grading/Foundation	Vendor	0.00	32.0	HHDT

Grading/Foundation	Hauling	0.00	41.0	HHDT
Grading/Foundation	Onsite truck	0.00	0.00	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	0.00	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	0.00	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	0.00	0.00	HHDT
Paving/Landscape	—	—	—	—
Paving/Landscape	Worker	0.00	18.5	LDA,LDT1,LDT2
Paving/Landscape	Vendor	—	10.2	HHDT,MHDT
Paving/Landscape	Hauling	0.00	20.0	HHDT
Paving/Landscape	Onsite truck	—	—	HHDT
Finishing/Architectural Coating	—	—	—	—
Finishing/Architectural Coating	Worker	0.00	18.5	LDA,LDT1,LDT2
Finishing/Architectural Coating	Vendor	0.00	10.2	HHDT,MHDT
Finishing/Architectural Coating	Hauling	0.00	20.0	HHDT
Finishing/Architectural Coating	Onsite truck	0.00	0.00	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	0.00	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	0.00	32.0	HHDT
Demolition	Onsite truck	0.00	0.00	HHDT
Mat Foundation	—	—	—	—
Mat Foundation	Worker	0.00	18.5	LDA,LDT1,LDT2

Mat Foundation	Vendor	0.00	10.2	HHDT
Mat Foundation	Hauling	0.00	20.0	HHDT
Mat Foundation	Onsite truck	0.00	0.00	HHDT
Grading/Foundation	—	—	—	—
Grading/Foundation	Worker	0.00	18.5	LDA,LDT1,LDT2
Grading/Foundation	Vendor	0.00	32.0	HHDT
Grading/Foundation	Hauling	0.00	41.0	HHDT
Grading/Foundation	Onsite truck	0.00	0.00	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	0.00	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	0.00	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	0.00	0.00	HHDT
Paving/Landscape	—	—	—	—
Paving/Landscape	Worker	0.00	18.5	LDA,LDT1,LDT2
Paving/Landscape	Vendor	—	10.2	HHDT,MHDT
Paving/Landscape	Hauling	0.00	20.0	HHDT
Paving/Landscape	Onsite truck	—	—	HHDT
Finishing/Architectural Coating	—	—	—	—
Finishing/Architectural Coating	Worker	0.00	18.5	LDA,LDT1,LDT2
Finishing/Architectural Coating	Vendor	0.00	10.2	HHDT,MHDT
Finishing/Architectural Coating	Hauling	0.00	20.0	HHDT
Finishing/Architectural Coating	Onsite truck	0.00	0.00	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)
Finishing/Architectural Coating	0.00	0.00	2,811,000	937,000	—

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	0.00	0.00	0.00	495,860	—
Grading/Foundation	50,000	772,000	278	0.00	—
Paving/Landscape	0.00	0.00	0.00	0.00	10.0

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
General Office Building	0.00	0%
Industrial Park	0.00	0%
Enclosed Parking with Elevator	0.00	100%
Unenclosed Parking Structure	10.0	100%
High Turnover (Sit Down Restaurant)	0.00	0%

Strip Mall	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2023	0.00	0.00	0.05	0.01
2024	0.00	0.00	0.05	0.01
2025	0.00	0.00	0.05	0.01
2026	0.00	0.00	0.05	0.01
2035	0.00	372	0.05	0.01
2036	2,540	372	0.05	0.01
2037	6,270	372	0.05	0.01
2038	3,731	372	0.05	0.01

8. User Changes to Default Data

Screen	Justification
Land Use	Default acreage was modified per CalEEMod Guidelines (Total area of Project Site entered under the predominate land use);
Construction: Construction Phases	Project Specific 32-Month Schedule
Construction: Off-Road Equipment	Project Specific Construction Equipment for each subphase. Also, default CalEEmod horsepower was increased from default where applicable.
Construction: Paving	Driveway/Surface Parking. Approximately 40% of the site would require paving.
Construction: Trips and VMT	Project specific trip rates. Note that Finishing/Architectural Coating trips include Asphalt/Landscape subphase trips. Also, grading haul lengths is a composite of 46 trips of the 600 haul trips per day to Buttonwillow (145 miles) and remaining haul trips to Irwindale (32 miles). Vendor trips could also be used for import/export. Thus, the trip type was changed to HHDT and the additional trips distance was factored into the haul trip length.
Construction: On-Road Fugitive Dust	—

Characteristics: Utility Information	Consistent with SB 100 Requirements
Construction: Architectural Coatings	Square Footage Consistent with CalEEMod 2020. Compliance with Rule 1113 VOC limits.
Construction: Electricity	Consistency with SB 100 requirements.

TVC-Construction Impacts with Mitigation Measures (2040) Localized Custom Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	TVC-Construction Impacts with Mitigation Measures (2040) Localized
Construction Start Date	10/1/2023
Lead Agency	City of Los Angeles
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	19.6
Location	34.07526837326408, -118.35992854757305
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4302
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.14

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
General Office Building	1,400	1000sqft	25.0	1,400,000	0.00	—	—	—

Industrial Park	350	1000sqft	0.00	350,000	0.00	—	—	—
Enclosed Parking with Elevator	2,600	Space	0.00	1,040,000	0.00	—	—	—
Unenclosed Parking Structure	2,700	Space	0.00	1,080,000	0.00	—	—	—
High Turnover (Sit Down Restaurant)	5.00	1000sqft	0.00	5,000	0.00	—	—	—
Strip Mall	119.0	1000sqft	0.00	119,000	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers
Construction	C-12	Sweep Paved Roads

2. Emissions Summary

2.2. 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	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
2041	6.24	5.23	36.9	68.6	0.18	1.00	5.12	6.12	0.92	2.63	3.55	—	18,653
2042	2.73	30.8	21.6	36.6	0.06	0.20	0.00	0.20	0.19	0.00	0.19	—	5,150
2043	1.75	31.3	13.6	22.1	0.03	0.12	0.00	0.12	0.11	0.00	0.11	—	3,069
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
2040	9.05	7.59	54.0	98.5	0.24	1.59	9.68	11.3	1.46	3.32	4.78	—	24,690
2041	6.24	5.23	36.9	68.6	0.18	1.00	5.12	6.12	0.92	2.63	3.55	—	18,653

2042	1.45	29.6	12.6	22.5	0.04	0.15	0.00	0.15	0.13	0.00	0.13	—	3,372
2043	1.28	29.6	8.96	14.0	0.02	0.06	0.00	0.06	0.05	0.00	0.05	—	1,788
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2024	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2025	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2026	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2040	1.44	1.20	8.56	15.6	0.04	0.25	1.58	1.84	0.23	0.52	0.75	—	3,886
2041	2.74	2.29	17.6	32.3	0.08	0.41	1.81	2.22	0.38	0.93	1.31	—	7,806
2042	1.12	16.3	8.55	14.2	0.02	0.07	0.00	0.07	0.07	0.00	0.07	—	1,957
2043	0.41	8.85	2.91	4.61	0.01	0.02	0.00	0.02	0.02	0.00	0.02	—	603
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2024	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2025	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2026	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2040	0.26	0.22	1.56	2.85	0.01	0.05	0.29	0.34	0.04	0.09	0.14	—	643
2041	0.50	0.42	3.22	5.90	0.01	0.07	0.33	0.41	0.07	0.17	0.24	—	1,292
2042	0.20	2.98	1.56	2.59	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	—	324
2043	0.07	1.62	0.53	0.84	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	—	99.8

2.3. Construction Emissions by Year, Mitigated

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	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—

2041	1.88	1.88	17.3	105	0.18	0.35	5.12	5.47	0.35	2.63	2.98	—	18,653
2042	0.65	29.2	13.7	36.5	0.06	0.09	0.00	0.09	0.09	0.00	0.09	—	5,150
2043	0.44	30.3	12.0	21.6	0.03	0.05	0.00	0.05	0.05	0.00	0.05	—	3,069
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
2040	2.50	2.50	23.3	142	0.24	0.46	9.68	10.1	0.46	3.32	3.78	—	24,690
2041	1.88	1.88	17.3	105	0.18	0.35	5.12	5.47	0.35	2.63	2.98	—	18,653
2042	0.39	28.8	7.13	23.8	0.04	0.06	0.00	0.06	0.06	0.00	0.06	—	3,372
2043	0.26	28.8	7.13	12.7	0.02	0.03	0.00	0.03	0.03	0.00	0.03	—	1,788
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2024	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2025	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2026	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2040	0.39	0.39	3.68	22.4	0.04	0.07	1.58	1.66	0.07	0.52	0.59	—	3,886
2041	0.81	0.81	8.60	45.7	0.08	0.15	1.81	1.96	0.15	0.93	1.08	—	7,809
2042	0.26	15.6	5.79	13.9	0.02	0.04	0.00	0.04	0.04	0.00	0.04	—	1,957
2043	0.09	8.60	2.39	4.27	0.01	0.01	0.00	0.01	0.01	0.00	0.01	—	603
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2024	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2025	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2026	—	—	—	—	—	—	—	—	—	—	—	—	NaN
2040	0.07	0.07	0.67	4.09	0.01	0.01	0.29	0.30	0.01	0.09	0.11	—	643
2041	0.15	0.15	1.57	8.34	0.01	0.03	0.33	0.36	0.03	0.17	0.20	—	1,293
2042	0.05	2.85	1.06	2.53	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	—	324
2043	0.02	1.57	0.44	0.78	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	—	99.8

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	10/1/2040	12/31/2040	5.00	65.0	—
Grading/Foundation	Grading	10/16/2040	6/30/2041	5.00	185	—
Mat Foundation	Building Construction	7/1/2041	7/7/2041	5.00	5.00	—
Building Construction	Building Construction	7/8/2041	5/31/2042	5.00	235	—
Paving/Landscape	Paving	5/1/2043	5/31/2043	5.00	21.0	—
Finishing/Architectural Coating	Architectural Coating	4/1/2042	5/31/2043	5.00	304	—

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	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Demolition	Excavators	Diesel	Average	4.00	8.00	158	0.38
Demolition	Concrete/Industrial Saws	Diesel	Average	2.00	8.00	49.0	0.73
Demolition	Other Construction Equipment	Diesel	Average	1.00	8.00	99.0	0.42
Grading/Foundation	Excavators	Diesel	Average	3.00	8.00	158	0.38
Grading/Foundation	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	97.0	0.37
Grading/Foundation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Grading/Foundation	Bore/Drill Rigs	Diesel	Average	6.00	8.00	221	0.50
Grading/Foundation	Pumps	Diesel	Average	4.00	8.00	49.0	0.74

Grading/Foundation	Cranes	Diesel	Average	2.00	8.00	367	0.29
Grading/Foundation	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Grading/Foundation	Other Construction Equipment	Diesel	Average	2.00	8.00	99.0	0.42
Grading/Foundation	Rubber Tired Loaders	Diesel	Average	2.00	8.00	150	0.36
Mat Foundation	Pumps	Diesel	Average	6.00	8.00	49.0	0.74
Mat Foundation	Plate Compactors	Diesel	Average	6.00	8.00	8.00	0.43
Building Construction	Forklifts	Diesel	Average	2.00	8.00	89.0	0.20
Building Construction	Cranes	Electric	Average	4.00	8.00	367	0.29
Building Construction	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	97.0	0.37
Building Construction	Pumps	Diesel	Average	2.00	8.00	49.0	0.74
Building Construction	Other Construction Equipment	Diesel	Average	4.00	8.00	99.0	0.42
Building Construction	Aerial Lifts	Electric	Average	14.0	8.00	46.0	0.31
Paving/Landscape	Paving Equipment	Diesel	Average	1.00	8.00	99.0	0.36
Paving/Landscape	Rollers	Diesel	Average	1.00	8.00	49.9	0.38
Paving/Landscape	Skid Steer Loaders	Diesel	Average	2.00	8.00	71.0	0.37
Paving/Landscape	Trenchers	Diesel	Average	1.00	8.00	49.9	0.50
Finishing/Architectural Coating	Aerial Lifts	Electric	Average	14.0	8.00	46.0	0.31
Finishing/Architectural Coating	Air Compressors	Diesel	Average	6.00	8.00	49.9	0.48
Finishing/Architectural Coating	Cranes	Electric	Average	4.00	8.00	367	0.29
Finishing/Architectural Coating	Forklifts	Diesel	Average	2.00	8.00	89.0	0.20

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	367	0.40
Demolition	Excavators	Diesel	Tier 4 Final	4.00	8.00	158	0.38
Demolition	Concrete/Industrial Saws	Diesel	Tier 4 Final	2.00	8.00	49.0	0.73
Demolition	Other Construction Equipment	Diesel	Tier 4 Final	1.00	8.00	99.0	0.42
Grading/Foundation	Excavators	Diesel	Tier 4 Final	3.00	8.00	158	0.38
Grading/Foundation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	8.00	97.0	0.37
Grading/Foundation	Rubber Tired Dozers	Diesel	Tier 4 Final	3.00	8.00	367	0.40
Grading/Foundation	Bore/Drill Rigs	Diesel	Tier 4 Final	6.00	8.00	221	0.50
Grading/Foundation	Pumps	Diesel	Tier 4 Final	4.00	8.00	49.0	0.74
Grading/Foundation	Cranes	Diesel	Tier 4 Final	2.00	8.00	367	0.29
Grading/Foundation	Welders	Diesel	Tier 4 Final	2.00	8.00	46.0	0.45
Grading/Foundation	Other Construction Equipment	Diesel	Tier 4 Final	2.00	8.00	99.0	0.42
Grading/Foundation	Rubber Tired Loaders	Diesel	Tier 4 Final	2.00	8.00	150	0.36
Mat Foundation	Pumps	Diesel	Tier 4 Final	6.00	8.00	49.0	0.74
Mat Foundation	Plate Compactors	Diesel	Average	6.00	8.00	8.00	0.43
Building Construction	Forklifts	Diesel	Tier 4 Final	2.00	8.00	89.0	0.20
Building Construction	Cranes	Electric	Average	4.00	8.00	367	0.29
Building Construction	Welders	Diesel	Tier 4 Final	2.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	97.0	0.37
Building Construction	Pumps	Diesel	Tier 4 Final	2.00	8.00	49.0	0.74
Building Construction	Other Construction Equipment	Diesel	Tier 4 Final	4.00	8.00	99.0	0.42
Building Construction	Aerial Lifts	Electric	Average	14.0	8.00	46.0	0.31
Paving/Landscape	Paving Equipment	Diesel	Tier 4 Final	1.00	8.00	99.0	0.36

Paving/Landscape	Rollers	Diesel	Tier 4 Final	1.00	8.00	49.9	0.38
Paving/Landscape	Skid Steer Loaders	Diesel	Tier 4 Final	2.00	8.00	71.0	0.37
Paving/Landscape	Trenchers	Diesel	Tier 4 Final	1.00	8.00	49.9	0.50
Finishing/Architectural Coating	Aerial Lifts	Electric	Average	14.0	8.00	46.0	0.31
Finishing/Architectural Coating	Air Compressors	Diesel	Tier 4 Final	6.00	8.00	49.9	0.48
Finishing/Architectural Coating	Cranes	Electric	Average	4.00	8.00	367	0.29
Finishing/Architectural Coating	Forklifts	Diesel	Tier 4 Final	2.00	8.00	89.0	0.20

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	0.00	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	-1.00	32.0	HHDT
Demolition	Onsite truck	0.00	0.00	HHDT
Mat Foundation	—	—	—	—
Mat Foundation	Worker	0.00	18.5	LDA,LDT1,LDT2
Mat Foundation	Vendor	-1.00	10.2	HHDT
Mat Foundation	Hauling	0.00	20.0	HHDT
Mat Foundation	Onsite truck	0.00	0.00	HHDT
Grading/Foundation	—	—	—	—
Grading/Foundation	Worker	0.00	18.5	LDA,LDT1,LDT2
Grading/Foundation	Vendor	0.00	32.0	HHDT

Grading/Foundation	Hauling	0.00	41.0	HHDT
Grading/Foundation	Onsite truck	0.00	0.00	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	0.00	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	0.00	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	0.00	0.00	HHDT
Paving/Landscape	—	—	—	—
Paving/Landscape	Worker	0.00	18.5	LDA,LDT1,LDT2
Paving/Landscape	Vendor	—	10.2	HHDT,MHDT
Paving/Landscape	Hauling	0.00	20.0	HHDT
Paving/Landscape	Onsite truck	—	—	HHDT
Finishing/Architectural Coating	—	—	—	—
Finishing/Architectural Coating	Worker	0.00	18.5	LDA,LDT1,LDT2
Finishing/Architectural Coating	Vendor	0.00	10.2	HHDT,MHDT
Finishing/Architectural Coating	Hauling	0.00	20.0	HHDT
Finishing/Architectural Coating	Onsite truck	0.00	0.00	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	0.00	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	-1.00	32.0	HHDT
Demolition	Onsite truck	0.00	0.00	HHDT
Mat Foundation	—	—	—	—
Mat Foundation	Worker	0.00	18.5	LDA,LDT1,LDT2

Mat Foundation	Vendor	-1.00	10.2	HHDT
Mat Foundation	Hauling	0.00	20.0	HHDT
Mat Foundation	Onsite truck	0.00	0.00	HHDT
Grading/Foundation	—	—	—	—
Grading/Foundation	Worker	0.00	18.5	LDA,LDT1,LDT2
Grading/Foundation	Vendor	0.00	32.0	HHDT
Grading/Foundation	Hauling	0.00	41.0	HHDT
Grading/Foundation	Onsite truck	0.00	0.00	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	0.00	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	0.00	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	0.00	0.00	HHDT
Paving/Landscape	—	—	—	—
Paving/Landscape	Worker	0.00	18.5	LDA,LDT1,LDT2
Paving/Landscape	Vendor	—	10.2	HHDT,MHDT
Paving/Landscape	Hauling	0.00	20.0	HHDT
Paving/Landscape	Onsite truck	—	—	HHDT
Finishing/Architectural Coating	—	—	—	—
Finishing/Architectural Coating	Worker	0.00	18.5	LDA,LDT1,LDT2
Finishing/Architectural Coating	Vendor	0.00	10.2	HHDT,MHDT
Finishing/Architectural Coating	Hauling	0.00	20.0	HHDT
Finishing/Architectural Coating	Onsite truck	0.00	0.00	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)
Finishing/Architectural Coating	0.00	0.00	2,811,000	937,000	—

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	0.00	0.00	0.00	495,860	—
Grading/Foundation	50,000	772,000	278	0.00	—
Paving/Landscape	0.00	0.00	0.00	0.00	10.0

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
General Office Building	0.00	0%
Industrial Park	0.00	0%
Enclosed Parking with Elevator	0.00	100%
Unenclosed Parking Structure	10.0	100%
High Turnover (Sit Down Restaurant)	0.00	0%

Strip Mall	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2023	0.00	0.00	0.05	0.01
2024	0.00	0.00	0.05	0.01
2025	0.00	0.00	0.05	0.01
2026	0.00	0.00	0.05	0.01
2040	0.00	346	0.05	0.01
2041	2,540	346	0.05	0.01
2042	6,270	346	0.05	0.01
2043	3,731	346	0.05	0.01

8. User Changes to Default Data

Screen	Justification
Land Use	Default acreage was modified per CalEEMod Guidelines (Total area of Project Site entered under the predominate land use);
Construction: Construction Phases	Project Specific 32-Month Schedule
Construction: Off-Road Equipment	Project Specific Construction Equipment for each subphase. Also, default CalEEmod horsepower was increased from default where applicable.
Construction: Paving	Driveway/Surface Parking. Approximately 40% of the site would require paving.
Construction: Trips and VMT	Project specific trip rates. Note that Finishing/Architectural Coating trips include Asphalt/Landscape subphase trips. Also, grading haul lengths is a composite of 46 trips of the 600 haul trips per day to Buttonwillow (145 miles) and remaining haul trips to Irwindale (32 miles). Vendor trips could also be used for import/export. Thus, the trip type was changed to HHDT and the additional trips distance was factored into the haul trip length.
Construction: On-Road Fugitive Dust	—

Characteristics: Utility Information	Consistent with SB 100 Requirements
Construction: Architectural Coatings	Square Footage Consistent with CalEEMod 2020. Compliance with Rule 1113 VOC limits.
Construction: Electricity	Consistency with SB 100 requirements.

TVC-Existing 2030 Custom Report

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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

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	TVC-Existing 2030
Operational Year	2030
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	19.6
Location	34.07542868385967, -118.35987067242141
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4302
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.12

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
General Office Building	323	1000sqft	0.00	322,690	0.00	—	—	—

Industrial Park	95.5	1000sqft	0.00	95,540	0.00	—	—	—
Strip Mall	325	1000sqft	25.0	325,450	0.00	—	—	—
Parking Lot	1,500	Space	0.00	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Waste	S-1/S-2	Implement Waste Reduction Plan

2. Emissions Summary

2.4. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	13.0	27.5	9.99	149	0.22	—	—	—	—	—	—	44,630
Mit.	13.0	27.5	9.99	149	0.22	—	—	—	—	—	—	43,535
% Reduced	—	—	—	—	—	—	—	—	—	—	—	2%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	12.9	27.4	10.6	143	0.21	—	—	—	—	—	—	43,749
Mit.	12.9	27.4	10.6	143	0.21	—	—	—	—	—	—	42,654
% Reduced	—	—	—	—	—	—	—	—	—	—	—	3%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.04	23.8	8.55	72.8	0.17	—	—	—	—	—	—	38,938
Mit.	9.04	23.8	8.55	72.8	0.17	—	—	—	—	—	—	37,842

% Reduced	—	—	—	—	—	—	—	—	—	—	—	3%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.65	4.35	1.56	13.3	0.03	—	—	—	—	—	—	6,447
Mit.	1.65	4.35	1.56	13.3	0.03	—	—	—	—	—	—	6,265
% Reduced	—	—	—	—	—	—	—	—	—	—	—	3%

2.5. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	11.3	10.3	6.50	80.0	0.20	0.11	7.79	7.90	0.10	1.39	1.49	20,788
Area	1.40	17.0	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Energy	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	20,184
Water	—	—	—	—	—	—	—	—	—	—	—	1,987
Waste	—	—	—	—	—	—	—	—	—	—	—	1,434
Refrig.	—	—	—	—	—	—	—	—	—	—	—	27.7
Off-Road	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Vegetation	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Total	13.0	27.5	9.99	149	0.22	NaN	NaN	NaN	NaN	NaN	NaN	44,630
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	11.2	10.2	7.10	74.4	0.19	0.11	7.79	7.90	0.10	1.39	1.49	19,907
Area	1.40	17.0	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Energy	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	20,184
Water	—	—	—	—	—	—	—	—	—	—	—	1,987
Waste	—	—	—	—	—	—	—	—	—	—	—	1,434

Refrig.	—	—	—	—	—	—	—	—	—	—	—	27.7
Off-Road	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Vegetation	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Total	12.9	27.4	10.6	143	0.21	NaN	NaN	NaN	NaN	NaN	NaN	43,749
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	8.54	7.81	5.50	58.6	0.15	0.09	5.99	6.08	0.08	1.07	1.15	15,510
Area	0.20	15.9	0.05	8.83	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	15.9
Energy	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	19,894
Water	—	—	—	—	—	—	—	—	—	—	—	1,987
Waste	—	—	—	—	—	—	—	—	—	—	—	1,434
Refrig.	—	—	—	—	—	—	—	—	—	—	—	27.7
Off-Road	0.01	0.00	0.31	3.13	0.00	0.00	—	0.00	0.00	—	0.00	69.6
Vegetation	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Total	9.04	23.8	8.55	72.8	0.17	NaN	NaN	NaN	NaN	NaN	NaN	38,938
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.56	1.43	1.00	10.7	0.03	0.02	1.09	1.11	0.01	0.19	0.21	2,568
Area	0.04	2.89	0.01	1.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.64
Energy	0.05	0.03	0.49	0.41	< 0.005	0.04	—	0.04	0.04	—	0.04	3,294
Water	—	—	—	—	—	—	—	—	—	—	—	329
Waste	—	—	—	—	—	—	—	—	—	—	—	237
Refrig.	—	—	—	—	—	—	—	—	—	—	—	4.58
Off-Road	< 0.005	0.00	0.06	0.57	0.00	0.00	—	0.00	0.00	—	0.00	11.5
Vegetation	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Total	1.65	4.35	1.56	13.3	0.03	NaN	NaN	NaN	NaN	NaN	NaN	6,447

2.6. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	11.3	10.3	6.50	80.0	0.20	0.11	7.79	7.90	0.10	1.39	1.49	20,788
Area	1.40	17.0	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Energy	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	20,184
Water	—	—	—	—	—	—	—	—	—	—	—	1,987
Waste	—	—	—	—	—	—	—	—	—	—	—	338
Refrig.	—	—	—	—	—	—	—	—	—	—	—	27.7
Off-Road	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Vegetation	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Total	13.0	27.5	9.99	149	0.22	NaN	NaN	NaN	NaN	NaN	NaN	43,535
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	11.2	10.2	7.10	74.4	0.19	0.11	7.79	7.90	0.10	1.39	1.49	19,907
Area	1.40	17.0	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Energy	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	20,184
Water	—	—	—	—	—	—	—	—	—	—	—	1,987
Waste	—	—	—	—	—	—	—	—	—	—	—	338
Refrig.	—	—	—	—	—	—	—	—	—	—	—	27.7
Off-Road	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Vegetation	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Total	12.9	27.4	10.6	143	0.21	NaN	NaN	NaN	NaN	NaN	NaN	42,654
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	8.54	7.81	5.50	58.6	0.15	0.09	5.99	6.08	0.08	1.07	1.15	15,510
Area	0.20	15.9	0.05	8.83	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	15.9
Energy	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	19,894

Water	—	—	—	—	—	—	—	—	—	—	—	1,987
Waste	—	—	—	—	—	—	—	—	—	—	—	338
Refrig.	—	—	—	—	—	—	—	—	—	—	—	27.7
Off-Road	0.01	0.00	0.31	3.13	0.00	0.00	—	0.00	0.00	—	0.00	69.6
Vegetation	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Total	9.04	23.8	8.55	72.8	0.17	NaN	NaN	NaN	NaN	NaN	NaN	37,842
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.56	1.43	1.00	10.7	0.03	0.02	1.09	1.11	0.01	0.19	0.21	2,568
Area	0.04	2.89	0.01	1.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.64
Energy	0.05	0.03	0.49	0.41	< 0.005	0.04	—	0.04	0.04	—	0.04	3,294
Water	—	—	—	—	—	—	—	—	—	—	—	329
Waste	—	—	—	—	—	—	—	—	—	—	—	56.0
Refrig.	—	—	—	—	—	—	—	—	—	—	—	4.58
Off-Road	< 0.005	0.00	0.06	0.57	0.00	0.00	—	0.00	0.00	—	0.00	11.5
Vegetation	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Total	1.65	4.35	1.56	13.3	0.03	NaN	NaN	NaN	NaN	NaN	NaN	6,265

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

4.1.2. Mitigated

Mobile source emissions results are presented in Sections 2.5. No further detailed breakdown of emissions is available.

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	8,284
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	2,453
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	5,223
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
undefined	—	—	—	—	—	—	—	—	—	—	—	1,009
Total	—	—	—	—	—	—	—	—	—	—	—	16,969
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	8,284
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	2,453
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	5,223
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
undefined	—	—	—	—	—	—	—	—	—	—	—	1,009
Total	—	—	—	—	—	—	—	—	—	—	—	16,969
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	1,372
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	406
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	865

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
undefined	—	—	—	—	—	—	—	—	—	—	—	119
Total	—	—	—	—	—	—	—	—	—	—	—	2,761

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	8,284
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	2,453
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	5,223
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
undefined	—	—	—	—	—	—	—	—	—	—	—	1,009
Total	—	—	—	—	—	—	—	—	—	—	—	16,969
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	8,284
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	2,453
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	5,223
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
undefined	—	—	—	—	—	—	—	—	—	—	—	1,009
Total	—	—	—	—	—	—	—	—	—	—	—	16,969
Annual	—	—	—	—	—	—	—	—	—	—	—	—

General Office Building	—	—	—	—	—	—	—	—	—	—	—	1,372
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	406
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	865
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
undefined	—	—	—	—	—	—	—	—	—	—	—	119
Total	—	—	—	—	—	—	—	—	—	—	—	2,761

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.19	0.10	1.74	1.46	0.01	0.13	—	0.13	0.13	—	0.13	2,084
Industrial Park	0.06	0.03	0.52	0.43	< 0.005	0.04	—	0.04	0.04	—	0.04	617
Strip Mall	0.05	0.02	0.43	0.36	< 0.005	0.03	—	0.03	0.03	—	0.03	515
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	3,216
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.19	0.10	1.74	1.46	0.01	0.13	—	0.13	0.13	—	0.13	2,084
Industrial Park	0.06	0.03	0.52	0.43	< 0.005	0.04	—	0.04	0.04	—	0.04	617
Strip Mall	0.05	0.02	0.43	0.36	< 0.005	0.03	—	0.03	0.03	—	0.03	515
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	3,216

Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.03	0.02	0.32	0.27	< 0.005	0.02	—	0.02	0.02	—	0.02	345
Industrial Park	0.01	0.01	0.09	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	102
Strip Mall	0.01	< 0.005	0.08	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	85.3
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.05	0.03	0.49	0.41	< 0.005	0.04	—	0.04	0.04	—	0.04	532

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.19	0.10	1.74	1.46	0.01	0.13	—	0.13	0.13	—	0.13	2,084
Industrial Park	0.06	0.03	0.52	0.43	< 0.005	0.04	—	0.04	0.04	—	0.04	617
Strip Mall	0.05	0.02	0.43	0.36	< 0.005	0.03	—	0.03	0.03	—	0.03	515
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	3,216
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.19	0.10	1.74	1.46	0.01	0.13	—	0.13	0.13	—	0.13	2,084
Industrial Park	0.06	0.03	0.52	0.43	< 0.005	0.04	—	0.04	0.04	—	0.04	617
Strip Mall	0.05	0.02	0.43	0.36	< 0.005	0.03	—	0.03	0.03	—	0.03	515
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	3,216

Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.03	0.02	0.32	0.27	< 0.005	0.02	—	0.02	0.02	—	0.02	345
Industrial Park	0.01	0.01	0.09	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	102
Strip Mall	0.01	< 0.005	0.08	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	85.3
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.05	0.03	0.49	0.41	< 0.005	0.04	—	0.04	0.04	—	0.04	532

4.3. Area Emissions by Source

4.3.2. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	14.7	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.94	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.40	1.30	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Total	1.40	17.0	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	14.7	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.94	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.40	1.30	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112

Total	1.40	17.0	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	2.69	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.17	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.04	0.03	0.01	1.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.64
Total	0.04	2.89	0.01	1.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.64

4.3.1. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	14.7	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.94	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.40	1.30	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Total	1.40	17.0	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	14.7	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.94	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.40	1.30	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Total	1.40	17.0	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112

Annual	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	2.69	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.17	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.04	0.03	0.01	1.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.64
Total	0.04	2.89	0.01	1.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.64

4.4. Water Emissions by Land Use

4.4.2. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	1,101
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	424
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	463
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,987
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	1,101
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	424
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	463

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,987
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	182
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	70.2
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	76.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	329

4.4.1. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	1,101
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	424
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	463
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,987
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	1,101
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	424
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	463

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,987
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	182
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	70.2
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	76.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	329

4.5. Waste Emissions by Land Use

4.5.2. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	566
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	223
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	644
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,434
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	566

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	223
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	644
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,434
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	93.7
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	37.0
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	107
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	237

4.5.1. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	134
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	52.7
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	152
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	338
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	134

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	52.7
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	152
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	338
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	22.1
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	8.73
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	25.2
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	56.0

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.78
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	24.9
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2.03
Total	—	—	—	—	—	—	—	—	—	—	—	27.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—

General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.78
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	24.9
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2.03
Total	—	—	—	—	—	—	—	—	—	—	—	27.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.13
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	4.12
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.34
Total	—	—	—	—	—	—	—	—	—	—	—	4.58

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.78
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	24.9
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2.03
Total	—	—	—	—	—	—	—	—	—	—	—	27.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.78

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	24.9
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2.03
Total	—	—	—	—	—	—	—	—	—	—	—	27.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.13
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	4.12
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.34
Total	—	—	—	—	—	—	—	—	—	—	—	4.58

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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Aerial Lifts	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Total	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Aerial Lifts	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Total	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Aerial Lifts	< 0.005	0.00	0.06	0.57	0.00	0.00	—	0.00	0.00	—	0.00	11.5
Total	< 0.005	0.00	0.06	0.57	0.00	0.00	—	0.00	0.00	—	0.00	11.5

4.7.2. Mitigated

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

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Aerial Lifts	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Total	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Aerial Lifts	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Total	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Aerial Lifts	< 0.005	0.00	0.06	0.57	0.00	0.00	—	0.00	0.00	—	0.00	11.5
Total	< 0.005	0.00	0.06	0.57	0.00	0.00	—	0.00	0.00	—	0.00	11.5

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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	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	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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—

—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00

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	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	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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—

Avoided	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—

Removed	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00

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
Total all Land Uses	3,891	1,128	376	1,092,862	28,021	8,125	2,711	7,870,495

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	3,891	1,128	376	1,092,862	28,021	8,125	2,711	7,870,495

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

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)
0	0.00	1,115,520	371,840	—

5.10.3. Landscape Equipment

Equipment Type	Fuel Type	Number Per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Lawn Mowers	Gasoline 4-Stroke	1.00	8.00	416	3.86	0.36
Leaf Blowers/Vacuums	Gasoline 4-Stroke	2.00	8.00	416	4.50	0.94

5.10.4. Landscape Equipment - Mitigated

Equipment Type	Fuel Type	Number Per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Lawn Mowers	Gasoline 4-Stroke	1.00	8.00	416	3.86	0.36
Leaf Blowers/Vacuums	Gasoline 4-Stroke	2.00	8.00	416	4.50	0.94

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)
General Office Building	5,140,048	585	0.0489	0.0069	6,483,442
Industrial Park	1,521,833	585	0.0489	0.0069	1,919,576
Strip Mall	3,240,354	585	0.0489	0.0069	1,602,562
Parking Lot	0.00	585	0.0489	0.0069	0.00

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)

General Office Building	5,140,048	585	0.0489	0.0069	6,483,442
Industrial Park	1,521,833	585	0.0489	0.0069	1,919,576
Strip Mall	3,240,354	585	0.0489	0.0069	1,602,562
Parking Lot	0.00	585	0.0489	0.0069	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Office Building	57,352,903	0.00
Industrial Park	22,093,625	0.00
Strip Mall	24,106,902	0.00
Parking Lot	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Office Building	57,352,903	0.00
Industrial Park	22,093,625	0.00
Strip Mall	24,106,902	0.00
Parking Lot	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Office Building	300	—
Industrial Park	118	—

Strip Mall	342	—
Parking Lot	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Office Building	70.8	—
Industrial Park	28.0	—
Strip Mall	80.6	—
Parking Lot	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Aerial Lifts	Electric	Average	56.0	5.30	25.0	0.31
Aerial Lifts	CNG	Average	1.00	4.00	82.0	0.20
Sweepers/Scrubbers	CNG	Average	1.00	2.00	36.0	0.46

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Aerial Lifts	Electric	Average	56.0	5.30	25.0	0.31
Aerial Lifts	CNG	Average	1.00	4.00	82.0	0.20
Sweepers/Scrubbers	CNG	Average	1.00	2.00	36.0	0.46

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type
—	—

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	Consistency with SB 100 requirements
Land Use	Landscape is limited on the Project Site and conservatively assumed zero sf. In addition, landscaping is used for calculation of water usage. Page IV.M.1-28 of the Draft EIR shows that existing water usage is 44,662 gpd. Using zero sf of landscaping conservatively reduces outdoor water usage to zero.
Operations: Hearths	—
Operations: Energy Use	City of LA Ordinance
Operations: Water and Waste Water	—
Operations: Consumer Products	Appendix D3 of the CalEEMod 2022 User's Guide provides a SCAQMD factor of 1.98E-05 instead of Statewide 2.14E-05. Updating from the 2008 CARB Emission Inventory to 2012 CARB Emission Inventory would further reduce the SCAQMD specific factor to 1.70E-5 (not included in analysis).
Operations: Off-Road Equipment	Onsite Equipment Inventory and daily hours of use. See calculation sheet.
Operations: Architectural Coatings	SCAQMD Rule 1113 Building Envelope Coatings limit of 50 g/L, effective date 1/1/19

TVC-Existing 2035 Custom Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	TVC-Existing 2035
Operational Year	2035
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	19.6
Location	34.07542868385967, -118.35987067242141
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4302
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.12

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
General Office Building	323	1000sqft	0.00	322,690	0.00	—	—	—

Industrial Park	95.5	1000sqft	0.00	95,540	0.00	—	—	—
Strip Mall	325	1000sqft	25.0	325,450	0.00	—	—	—
Parking Lot	1,500	Space	0.00	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Waste	S-1/S-2	Implement Waste Reduction Plan

2. Emissions Summary

2.4. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	11.4	26.0	8.68	138	0.20	—	—	—	—	—	—	43,033
Mit.	11.4	26.0	8.68	138	0.20	—	—	—	—	—	—	41,938
% Reduced	—	—	—	—	—	—	—	—	—	—	—	3%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	11.3	26.0	9.17	133	0.20	—	—	—	—	—	—	42,227
Mit.	11.3	26.0	9.17	133	0.20	—	—	—	—	—	—	41,132
% Reduced	—	—	—	—	—	—	—	—	—	—	—	3%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.84	22.7	7.44	65.1	0.15	—	—	—	—	—	—	37,748
Mit.	7.84	22.7	7.44	65.1	0.15	—	—	—	—	—	—	36,652

% Reduced	—	—	—	—	—	—	—	—	—	—	—	3%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.43	4.15	1.36	11.9	0.03	—	—	—	—	—	—	6,250
Mit.	1.43	4.15	1.36	11.9	0.03	—	—	—	—	—	—	6,068
% Reduced	—	—	—	—	—	—	—	—	—	—	—	3%

2.5. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	9.66	8.88	5.18	69.6	0.19	0.09	7.77	7.86	0.08	1.38	1.46	19,191
Area	1.40	17.0	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Energy	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	20,184
Water	—	—	—	—	—	—	—	—	—	—	—	1,987
Waste	—	—	—	—	—	—	—	—	—	—	—	1,434
Refrig.	—	—	—	—	—	—	—	—	—	—	—	27.7
Off-Road	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Vegetation	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Total	11.4	26.0	8.68	138	0.20	NaN	NaN	NaN	NaN	NaN	NaN	43,033
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	9.62	8.84	5.67	64.6	0.18	0.09	7.77	7.86	0.08	1.38	1.46	18,385
Area	1.40	17.0	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Energy	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	20,184
Water	—	—	—	—	—	—	—	—	—	—	—	1,987
Waste	—	—	—	—	—	—	—	—	—	—	—	1,434

Refrig.	—	—	—	—	—	—	—	—	—	—	—	27.7
Off-Road	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Vegetation	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Total	11.3	26.0	9.17	133	0.20	NaN	NaN	NaN	NaN	NaN	NaN	42,227
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	7.34	6.73	4.38	50.9	0.14	0.07	5.98	6.05	0.06	1.06	1.12	14,319
Area	0.20	15.9	0.05	8.83	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	15.9
Energy	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	19,894
Water	—	—	—	—	—	—	—	—	—	—	—	1,987
Waste	—	—	—	—	—	—	—	—	—	—	—	1,434
Refrig.	—	—	—	—	—	—	—	—	—	—	—	27.7
Off-Road	0.01	0.00	0.31	3.13	0.00	0.00	—	0.00	0.00	—	0.00	69.6
Vegetation	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Total	7.84	22.7	7.44	65.1	0.15	NaN	NaN	NaN	NaN	NaN	NaN	37,748
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.34	1.23	0.80	9.29	0.03	0.01	1.09	1.10	0.01	0.19	0.20	2,371
Area	0.04	2.89	0.01	1.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.64
Energy	0.05	0.03	0.49	0.41	< 0.005	0.04	—	0.04	0.04	—	0.04	3,294
Water	—	—	—	—	—	—	—	—	—	—	—	329
Waste	—	—	—	—	—	—	—	—	—	—	—	237
Refrig.	—	—	—	—	—	—	—	—	—	—	—	4.58
Off-Road	< 0.005	0.00	0.06	0.57	0.00	0.00	—	0.00	0.00	—	0.00	11.5
Vegetation	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Total	1.43	4.15	1.36	11.9	0.03	NaN	NaN	NaN	NaN	NaN	NaN	6,250

2.6. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	9.66	8.88	5.18	69.6	0.19	0.09	7.77	7.86	0.08	1.38	1.46	19,191
Area	1.40	17.0	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Energy	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	20,184
Water	—	—	—	—	—	—	—	—	—	—	—	1,987
Waste	—	—	—	—	—	—	—	—	—	—	—	338
Refrig.	—	—	—	—	—	—	—	—	—	—	—	27.7
Off-Road	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Vegetation	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Total	11.4	26.0	8.68	138	0.20	NaN	NaN	NaN	NaN	NaN	NaN	41,938
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	9.62	8.84	5.67	64.6	0.18	0.09	7.77	7.86	0.08	1.38	1.46	18,385
Area	1.40	17.0	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Energy	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	20,184
Water	—	—	—	—	—	—	—	—	—	—	—	1,987
Waste	—	—	—	—	—	—	—	—	—	—	—	338
Refrig.	—	—	—	—	—	—	—	—	—	—	—	27.7
Off-Road	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Vegetation	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Total	11.3	26.0	9.17	133	0.20	NaN	NaN	NaN	NaN	NaN	NaN	41,132
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	7.34	6.73	4.38	50.9	0.14	0.07	5.98	6.05	0.06	1.06	1.12	14,319
Area	0.20	15.9	0.05	8.83	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	15.9
Energy	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	19,894

Water	—	—	—	—	—	—	—	—	—	—	—	1,987
Waste	—	—	—	—	—	—	—	—	—	—	—	338
Refrig.	—	—	—	—	—	—	—	—	—	—	—	27.7
Off-Road	0.01	0.00	0.31	3.13	0.00	0.00	—	0.00	0.00	—	0.00	69.6
Vegetation	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Total	7.84	22.7	7.44	65.1	0.15	NaN	NaN	NaN	NaN	NaN	NaN	36,652
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.34	1.23	0.80	9.29	0.03	0.01	1.09	1.10	0.01	0.19	0.20	2,371
Area	0.04	2.89	0.01	1.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.64
Energy	0.05	0.03	0.49	0.41	< 0.005	0.04	—	0.04	0.04	—	0.04	3,294
Water	—	—	—	—	—	—	—	—	—	—	—	329
Waste	—	—	—	—	—	—	—	—	—	—	—	56.0
Refrig.	—	—	—	—	—	—	—	—	—	—	—	4.58
Off-Road	< 0.005	0.00	0.06	0.57	0.00	0.00	—	0.00	0.00	—	0.00	11.5
Vegetation	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Total	1.43	4.15	1.36	11.9	0.03	NaN	NaN	NaN	NaN	NaN	NaN	6,068

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

4.1.2. Mitigated

Mobile source emissions results are presented in Sections 2.5. No further detailed breakdown of emissions is available.

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	8,284
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	2,453
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	5,223
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
undefined	—	—	—	—	—	—	—	—	—	—	—	1,009
Total	—	—	—	—	—	—	—	—	—	—	—	16,969
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	8,284
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	2,453
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	5,223
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
undefined	—	—	—	—	—	—	—	—	—	—	—	1,009
Total	—	—	—	—	—	—	—	—	—	—	—	16,969
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	1,372
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	406
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	865

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
undefined	—	—	—	—	—	—	—	—	—	—	—	119
Total	—	—	—	—	—	—	—	—	—	—	—	2,761

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	8,284
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	2,453
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	5,223
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
undefined	—	—	—	—	—	—	—	—	—	—	—	1,009
Total	—	—	—	—	—	—	—	—	—	—	—	16,969
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	8,284
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	2,453
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	5,223
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
undefined	—	—	—	—	—	—	—	—	—	—	—	1,009
Total	—	—	—	—	—	—	—	—	—	—	—	16,969
Annual	—	—	—	—	—	—	—	—	—	—	—	—

General Office Building	—	—	—	—	—	—	—	—	—	—	—	1,372
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	406
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	865
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
undefined	—	—	—	—	—	—	—	—	—	—	—	119
Total	—	—	—	—	—	—	—	—	—	—	—	2,761

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.19	0.10	1.74	1.46	0.01	0.13	—	0.13	0.13	—	0.13	2,084
Industrial Park	0.06	0.03	0.52	0.43	< 0.005	0.04	—	0.04	0.04	—	0.04	617
Strip Mall	0.05	0.02	0.43	0.36	< 0.005	0.03	—	0.03	0.03	—	0.03	515
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	3,216
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.19	0.10	1.74	1.46	0.01	0.13	—	0.13	0.13	—	0.13	2,084
Industrial Park	0.06	0.03	0.52	0.43	< 0.005	0.04	—	0.04	0.04	—	0.04	617
Strip Mall	0.05	0.02	0.43	0.36	< 0.005	0.03	—	0.03	0.03	—	0.03	515
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	3,216

Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.03	0.02	0.32	0.27	< 0.005	0.02	—	0.02	0.02	—	0.02	345
Industrial Park	0.01	0.01	0.09	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	102
Strip Mall	0.01	< 0.005	0.08	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	85.3
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.05	0.03	0.49	0.41	< 0.005	0.04	—	0.04	0.04	—	0.04	532

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.19	0.10	1.74	1.46	0.01	0.13	—	0.13	0.13	—	0.13	2,084
Industrial Park	0.06	0.03	0.52	0.43	< 0.005	0.04	—	0.04	0.04	—	0.04	617
Strip Mall	0.05	0.02	0.43	0.36	< 0.005	0.03	—	0.03	0.03	—	0.03	515
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	3,216
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.19	0.10	1.74	1.46	0.01	0.13	—	0.13	0.13	—	0.13	2,084
Industrial Park	0.06	0.03	0.52	0.43	< 0.005	0.04	—	0.04	0.04	—	0.04	617
Strip Mall	0.05	0.02	0.43	0.36	< 0.005	0.03	—	0.03	0.03	—	0.03	515
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	3,216

Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.03	0.02	0.32	0.27	< 0.005	0.02	—	0.02	0.02	—	0.02	345
Industrial Park	0.01	0.01	0.09	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	102
Strip Mall	0.01	< 0.005	0.08	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	85.3
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.05	0.03	0.49	0.41	< 0.005	0.04	—	0.04	0.04	—	0.04	532

4.3. Area Emissions by Source

4.3.2. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	14.7	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.94	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.40	1.30	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Total	1.40	17.0	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	14.7	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.94	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.40	1.30	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112

Total	1.40	17.0	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	2.69	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.17	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.04	0.03	0.01	1.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.64
Total	0.04	2.89	0.01	1.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.64

4.3.1. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	14.7	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.94	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.40	1.30	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Total	1.40	17.0	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	14.7	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.94	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.40	1.30	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Total	1.40	17.0	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112

Annual	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	2.69	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.17	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.04	0.03	0.01	1.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.64
Total	0.04	2.89	0.01	1.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.64

4.4. Water Emissions by Land Use

4.4.2. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	1,101
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	424
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	463
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,987
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	1,101
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	424
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	463

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,987
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	182
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	70.2
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	76.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	329

4.4.1. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	1,101
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	424
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	463
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,987
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	1,101
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	424
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	463

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,987
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	182
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	70.2
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	76.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	329

4.5. Waste Emissions by Land Use

4.5.2. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	566
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	223
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	644
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,434
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	566

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	223
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	644
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,434
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	93.7
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	37.0
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	107
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	237

4.5.1. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	134
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	52.7
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	152
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	338
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	134

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	52.7
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	152
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	338
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	22.1
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	8.73
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	25.2
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	56.0

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.78
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	24.9
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2.03
Total	—	—	—	—	—	—	—	—	—	—	—	27.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—

General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.78
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	24.9
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2.03
Total	—	—	—	—	—	—	—	—	—	—	—	27.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.13
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	4.12
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.34
Total	—	—	—	—	—	—	—	—	—	—	—	4.58

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.78
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	24.9
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2.03
Total	—	—	—	—	—	—	—	—	—	—	—	27.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.78

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	24.9
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2.03
Total	—	—	—	—	—	—	—	—	—	—	—	27.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.13
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	4.12
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.34
Total	—	—	—	—	—	—	—	—	—	—	—	4.58

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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Aerial Lifts	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Total	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Aerial Lifts	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Total	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Aerial Lifts	< 0.005	0.00	0.06	0.57	0.00	0.00	—	0.00	0.00	—	0.00	11.5
Total	< 0.005	0.00	0.06	0.57	0.00	0.00	—	0.00	0.00	—	0.00	11.5

4.7.2. Mitigated

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

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Aerial Lifts	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Total	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Aerial Lifts	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Total	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Aerial Lifts	< 0.005	0.00	0.06	0.57	0.00	0.00	—	0.00	0.00	—	0.00	11.5
Total	< 0.005	0.00	0.06	0.57	0.00	0.00	—	0.00	0.00	—	0.00	11.5

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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	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	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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—

—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00

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	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	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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—

Avoided	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—

Removed	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00

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
Total all Land Uses	3,891	1,128	376	1,092,862	28,021	8,125	2,711	7,870,495

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	3,891	1,128	376	1,092,862	28,021	8,125	2,711	7,870,495

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

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)
0	0.00	1,115,520	371,840	—

5.10.3. Landscape Equipment

Equipment Type	Fuel Type	Number Per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Lawn Mowers	Gasoline 4-Stroke	1.00	8.00	416	3.86	0.36
Leaf Blowers/Vacuums	Gasoline 4-Stroke	2.00	8.00	416	4.50	0.94

5.10.4. Landscape Equipment - Mitigated

Equipment Type	Fuel Type	Number Per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Lawn Mowers	Gasoline 4-Stroke	1.00	8.00	416	3.86	0.36
Leaf Blowers/Vacuums	Gasoline 4-Stroke	2.00	8.00	416	4.50	0.94

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)
General Office Building	5,140,048	585	0.0489	0.0069	6,483,442
Industrial Park	1,521,833	585	0.0489	0.0069	1,919,576
Strip Mall	3,240,354	585	0.0489	0.0069	1,602,562
Parking Lot	0.00	585	0.0489	0.0069	0.00

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)

General Office Building	5,140,048	585	0.0489	0.0069	6,483,442
Industrial Park	1,521,833	585	0.0489	0.0069	1,919,576
Strip Mall	3,240,354	585	0.0489	0.0069	1,602,562
Parking Lot	0.00	585	0.0489	0.0069	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Office Building	57,352,903	0.00
Industrial Park	22,093,625	0.00
Strip Mall	24,106,902	0.00
Parking Lot	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Office Building	57,352,903	0.00
Industrial Park	22,093,625	0.00
Strip Mall	24,106,902	0.00
Parking Lot	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Office Building	300	—
Industrial Park	118	—

Strip Mall	342	—
Parking Lot	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Office Building	70.8	—
Industrial Park	28.0	—
Strip Mall	80.6	—
Parking Lot	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Aerial Lifts	Electric	Average	56.0	5.30	25.0	0.31
Aerial Lifts	CNG	Average	1.00	4.00	82.0	0.20
Sweepers/Scrubbers	CNG	Average	1.00	2.00	36.0	0.46

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Aerial Lifts	Electric	Average	56.0	5.30	25.0	0.31
Aerial Lifts	CNG	Average	1.00	4.00	82.0	0.20
Sweepers/Scrubbers	CNG	Average	1.00	2.00	36.0	0.46

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type
—	—

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	Consistency with SB 100 requirements
Land Use	Landscape is limited on the Project Site and conservatively assumed zero sf. In addition, landscaping is used for calculation of water usage. Page IV.M.1-28 of the Draft EIR shows that existing water usage is 44,662 gpd. Using zero sf of landscaping conservatively reduces outdoor water usage to zero.
Operations: Hearths	—
Operations: Energy Use	City of LA Ordinance
Operations: Water and Waste Water	—
Operations: Consumer Products	Appendix D3 of the CalEEMod 2022 User's Guide provides a SCAQMD factor of 1.98E-05 instead of Statewide 2.14E-05. Updating from the 2008 CARB Emission Inventory to 2012 CARB Emission Inventory would further reduce the SCAQMD specific factor to 1.70E-5 (not included in analysis).
Operations: Off-Road Equipment	Onsite Equipment Inventory and daily hours of use. See calculation sheet.
Operations: Architectural Coatings	SCAQMD Rule 1113 Building Envelope Coatings limit of 50 g/L, effective date 1/1/19

TVC-Existing 2040 Custom Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	TVC-Existing 2040
Operational Year	2040
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	19.6
Location	34.07542868385967, -118.35987067242141
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4302
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.12

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
General Office Building	323	1000sqft	0.00	322,690	0.00	—	—	—

Industrial Park	95.5	1000sqft	0.00	95,540	0.00	—	—	—
Strip Mall	325	1000sqft	25.0	325,450	0.00	—	—	—
Parking Lot	1,500	Space	0.00	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Waste	S-1/S-2	Implement Waste Reduction Plan

2. Emissions Summary

2.4. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	10.4	25.1	8.00	133	0.20	—	—	—	—	—	—	42,138
Mit.	10.4	25.1	8.00	133	0.20	—	—	—	—	—	—	41,043
% Reduced	—	—	—	—	—	—	—	—	—	—	—	3%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	10.3	25.1	8.42	128	0.19	—	—	—	—	—	—	41,366
Mit.	10.3	25.1	8.42	128	0.19	—	—	—	—	—	—	40,271
% Reduced	—	—	—	—	—	—	—	—	—	—	—	3%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.09	22.1	6.86	61.0	0.15	—	—	—	—	—	—	37,076
Mit.	7.09	22.1	6.86	61.0	0.15	—	—	—	—	—	—	35,981

% Reduced	—	—	—	—	—	—	—	—	—	—	—	3%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.29	4.03	1.25	11.1	0.03	—	—	—	—	—	—	6,138
Mit.	1.29	4.03	1.25	11.1	0.03	—	—	—	—	—	—	5,957
% Reduced	—	—	—	—	—	—	—	—	—	—	—	3%

2.5. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	8.65	7.99	4.50	64.1	0.18	0.07	7.76	7.83	0.07	1.37	1.44	18,295
Area	1.40	17.0	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Energy	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	20,184
Water	—	—	—	—	—	—	—	—	—	—	—	1,987
Waste	—	—	—	—	—	—	—	—	—	—	—	1,434
Refrig.	—	—	—	—	—	—	—	—	—	—	—	27.7
Off-Road	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Vegetation	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Total	10.4	25.1	8.00	133	0.20	NaN	NaN	NaN	NaN	NaN	NaN	42,138
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	8.64	7.98	4.93	59.3	0.17	0.07	7.76	7.83	0.07	1.37	1.44	17,524
Area	1.40	17.0	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Energy	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	20,184
Water	—	—	—	—	—	—	—	—	—	—	—	1,987
Waste	—	—	—	—	—	—	—	—	—	—	—	1,434

Refrig.	—	—	—	—	—	—	—	—	—	—	—	27.7
Off-Road	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Vegetation	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Total	10.3	25.1	8.42	128	0.19	NaN	NaN	NaN	NaN	NaN	NaN	41,366
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	6.59	6.07	3.80	46.8	0.13	0.05	5.97	6.02	0.05	1.06	1.11	13,648
Area	0.20	15.9	0.05	8.83	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	15.9
Energy	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	19,894
Water	—	—	—	—	—	—	—	—	—	—	—	1,987
Waste	—	—	—	—	—	—	—	—	—	—	—	1,434
Refrig.	—	—	—	—	—	—	—	—	—	—	—	27.7
Off-Road	0.01	0.00	0.31	3.13	0.00	0.00	—	0.00	0.00	—	0.00	69.6
Vegetation	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Total	7.09	22.1	6.86	61.0	0.15	NaN	NaN	NaN	NaN	NaN	NaN	37,076
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.20	1.11	0.69	8.54	0.02	0.01	1.09	1.10	0.01	0.19	0.20	2,260
Area	0.04	2.89	0.01	1.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.64
Energy	0.05	0.03	0.49	0.41	< 0.005	0.04	—	0.04	0.04	—	0.04	3,294
Water	—	—	—	—	—	—	—	—	—	—	—	329
Waste	—	—	—	—	—	—	—	—	—	—	—	237
Refrig.	—	—	—	—	—	—	—	—	—	—	—	4.58
Off-Road	< 0.005	0.00	0.06	0.57	0.00	0.00	—	0.00	0.00	—	0.00	11.5
Vegetation	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Total	1.29	4.03	1.25	11.1	0.03	NaN	NaN	NaN	NaN	NaN	NaN	6,138

2.6. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	8.65	7.99	4.50	64.1	0.18	0.07	7.76	7.83	0.07	1.37	1.44	18,295
Area	1.40	17.0	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Energy	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	20,184
Water	—	—	—	—	—	—	—	—	—	—	—	1,987
Waste	—	—	—	—	—	—	—	—	—	—	—	338
Refrig.	—	—	—	—	—	—	—	—	—	—	—	27.7
Off-Road	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Vegetation	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Total	10.4	25.1	8.00	133	0.20	NaN	NaN	NaN	NaN	NaN	NaN	41,043
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	8.64	7.98	4.93	59.3	0.17	0.07	7.76	7.83	0.07	1.37	1.44	17,524
Area	1.40	17.0	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Energy	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	20,184
Water	—	—	—	—	—	—	—	—	—	—	—	1,987
Waste	—	—	—	—	—	—	—	—	—	—	—	338
Refrig.	—	—	—	—	—	—	—	—	—	—	—	27.7
Off-Road	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Vegetation	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Total	10.3	25.1	8.42	128	0.19	NaN	NaN	NaN	NaN	NaN	NaN	40,271
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	6.59	6.07	3.80	46.8	0.13	0.05	5.97	6.02	0.05	1.06	1.11	13,648
Area	0.20	15.9	0.05	8.83	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	15.9
Energy	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	19,894

Water	—	—	—	—	—	—	—	—	—	—	—	1,987
Waste	—	—	—	—	—	—	—	—	—	—	—	338
Refrig.	—	—	—	—	—	—	—	—	—	—	—	27.7
Off-Road	0.01	0.00	0.31	3.13	0.00	0.00	—	0.00	0.00	—	0.00	69.6
Vegetation	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Total	7.09	22.1	6.86	61.0	0.15	NaN	NaN	NaN	NaN	NaN	NaN	35,981
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.20	1.11	0.69	8.54	0.02	0.01	1.09	1.10	0.01	0.19	0.20	2,260
Area	0.04	2.89	0.01	1.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.64
Energy	0.05	0.03	0.49	0.41	< 0.005	0.04	—	0.04	0.04	—	0.04	3,294
Water	—	—	—	—	—	—	—	—	—	—	—	329
Waste	—	—	—	—	—	—	—	—	—	—	—	56.0
Refrig.	—	—	—	—	—	—	—	—	—	—	—	4.58
Off-Road	< 0.005	0.00	0.06	0.57	0.00	0.00	—	0.00	0.00	—	0.00	11.5
Vegetation	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Total	1.29	4.03	1.25	11.1	0.03	NaN	NaN	NaN	NaN	NaN	NaN	5,957

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

4.1.2. Mitigated

Mobile source emissions results are presented in Sections 2.5. No further detailed breakdown of emissions is available.

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	8,284
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	2,453
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	5,223
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
undefined	—	—	—	—	—	—	—	—	—	—	—	1,009
Total	—	—	—	—	—	—	—	—	—	—	—	16,969
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	8,284
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	2,453
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	5,223
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
undefined	—	—	—	—	—	—	—	—	—	—	—	1,009
Total	—	—	—	—	—	—	—	—	—	—	—	16,969
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	1,372
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	406
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	865

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
undefined	—	—	—	—	—	—	—	—	—	—	—	119
Total	—	—	—	—	—	—	—	—	—	—	—	2,761

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	8,284
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	2,453
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	5,223
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
undefined	—	—	—	—	—	—	—	—	—	—	—	1,009
Total	—	—	—	—	—	—	—	—	—	—	—	16,969
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	8,284
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	2,453
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	5,223
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
undefined	—	—	—	—	—	—	—	—	—	—	—	1,009
Total	—	—	—	—	—	—	—	—	—	—	—	16,969
Annual	—	—	—	—	—	—	—	—	—	—	—	—

General Office Building	—	—	—	—	—	—	—	—	—	—	—	1,372
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	406
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	865
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
undefined	—	—	—	—	—	—	—	—	—	—	—	119
Total	—	—	—	—	—	—	—	—	—	—	—	2,761

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.19	0.10	1.74	1.46	0.01	0.13	—	0.13	0.13	—	0.13	2,084
Industrial Park	0.06	0.03	0.52	0.43	< 0.005	0.04	—	0.04	0.04	—	0.04	617
Strip Mall	0.05	0.02	0.43	0.36	< 0.005	0.03	—	0.03	0.03	—	0.03	515
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	3,216
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.19	0.10	1.74	1.46	0.01	0.13	—	0.13	0.13	—	0.13	2,084
Industrial Park	0.06	0.03	0.52	0.43	< 0.005	0.04	—	0.04	0.04	—	0.04	617
Strip Mall	0.05	0.02	0.43	0.36	< 0.005	0.03	—	0.03	0.03	—	0.03	515
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	3,216

Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.03	0.02	0.32	0.27	< 0.005	0.02	—	0.02	0.02	—	0.02	345
Industrial Park	0.01	0.01	0.09	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	102
Strip Mall	0.01	< 0.005	0.08	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	85.3
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.05	0.03	0.49	0.41	< 0.005	0.04	—	0.04	0.04	—	0.04	532

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.19	0.10	1.74	1.46	0.01	0.13	—	0.13	0.13	—	0.13	2,084
Industrial Park	0.06	0.03	0.52	0.43	< 0.005	0.04	—	0.04	0.04	—	0.04	617
Strip Mall	0.05	0.02	0.43	0.36	< 0.005	0.03	—	0.03	0.03	—	0.03	515
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	3,216
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.19	0.10	1.74	1.46	0.01	0.13	—	0.13	0.13	—	0.13	2,084
Industrial Park	0.06	0.03	0.52	0.43	< 0.005	0.04	—	0.04	0.04	—	0.04	617
Strip Mall	0.05	0.02	0.43	0.36	< 0.005	0.03	—	0.03	0.03	—	0.03	515
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	3,216

Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.03	0.02	0.32	0.27	< 0.005	0.02	—	0.02	0.02	—	0.02	345
Industrial Park	0.01	0.01	0.09	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	102
Strip Mall	0.01	< 0.005	0.08	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	85.3
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.05	0.03	0.49	0.41	< 0.005	0.04	—	0.04	0.04	—	0.04	532

4.3. Area Emissions by Source

4.3.2. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	14.7	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.94	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.40	1.30	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Total	1.40	17.0	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	14.7	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.94	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.40	1.30	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112

Total	1.40	17.0	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	2.69	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.17	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.04	0.03	0.01	1.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.64
Total	0.04	2.89	0.01	1.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.64

4.3.1. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	14.7	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.94	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.40	1.30	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Total	1.40	17.0	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	14.7	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.94	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.40	1.30	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Total	1.40	17.0	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112

Annual	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	2.69	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.17	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.04	0.03	0.01	1.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.64
Total	0.04	2.89	0.01	1.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.64

4.4. Water Emissions by Land Use

4.4.2. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	1,101
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	424
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	463
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,987
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	1,101
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	424
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	463

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,987
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	182
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	70.2
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	76.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	329

4.4.1. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	1,101
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	424
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	463
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,987
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	1,101
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	424
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	463

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,987
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	182
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	70.2
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	76.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	329

4.5. Waste Emissions by Land Use

4.5.2. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	566
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	223
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	644
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,434
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	566

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	223
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	644
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,434
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	93.7
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	37.0
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	107
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	237

4.5.1. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	134
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	52.7
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	152
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	338
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	134

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	52.7
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	152
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	338
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	22.1
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	8.73
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	25.2
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	56.0

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.78
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	24.9
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2.03
Total	—	—	—	—	—	—	—	—	—	—	—	27.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—

General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.78
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	24.9
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2.03
Total	—	—	—	—	—	—	—	—	—	—	—	27.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.13
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	4.12
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.34
Total	—	—	—	—	—	—	—	—	—	—	—	4.58

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.78
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	24.9
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2.03
Total	—	—	—	—	—	—	—	—	—	—	—	27.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.78

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	24.9
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2.03
Total	—	—	—	—	—	—	—	—	—	—	—	27.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.13
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	4.12
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.34
Total	—	—	—	—	—	—	—	—	—	—	—	4.58

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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Aerial Lifts	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Total	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Aerial Lifts	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Total	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Aerial Lifts	< 0.005	0.00	0.06	0.57	0.00	0.00	—	0.00	0.00	—	0.00	11.5
Total	< 0.005	0.00	0.06	0.57	0.00	0.00	—	0.00	0.00	—	0.00	11.5

4.7.2. Mitigated

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

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Aerial Lifts	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Total	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Aerial Lifts	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Total	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Aerial Lifts	< 0.005	0.00	0.06	0.57	0.00	0.00	—	0.00	0.00	—	0.00	11.5
Total	< 0.005	0.00	0.06	0.57	0.00	0.00	—	0.00	0.00	—	0.00	11.5

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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	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	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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—

—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00

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	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	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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—

Avoided	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—

Removed	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00

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
Total all Land Uses	3,891	1,128	376	1,092,862	28,021	8,125	2,711	7,870,495

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	3,891	1,128	376	1,092,862	28,021	8,125	2,711	7,870,495

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

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)
0	0.00	1,115,520	371,840	—

5.10.3. Landscape Equipment

Equipment Type	Fuel Type	Number Per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Lawn Mowers	Gasoline 4-Stroke	1.00	8.00	416	3.86	0.36
Leaf Blowers/Vacuums	Gasoline 4-Stroke	2.00	8.00	416	4.50	0.94

5.10.4. Landscape Equipment - Mitigated

Equipment Type	Fuel Type	Number Per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Lawn Mowers	Gasoline 4-Stroke	1.00	8.00	416	3.86	0.36
Leaf Blowers/Vacuums	Gasoline 4-Stroke	2.00	8.00	416	4.50	0.94

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)
General Office Building	5,140,048	585	0.0489	0.0069	6,483,442
Industrial Park	1,521,833	585	0.0489	0.0069	1,919,576
Strip Mall	3,240,354	585	0.0489	0.0069	1,602,562
Parking Lot	0.00	585	0.0489	0.0069	0.00

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)

General Office Building	5,140,048	585	0.0489	0.0069	6,483,442
Industrial Park	1,521,833	585	0.0489	0.0069	1,919,576
Strip Mall	3,240,354	585	0.0489	0.0069	1,602,562
Parking Lot	0.00	585	0.0489	0.0069	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Office Building	57,352,903	0.00
Industrial Park	22,093,625	0.00
Strip Mall	24,106,902	0.00
Parking Lot	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Office Building	57,352,903	0.00
Industrial Park	22,093,625	0.00
Strip Mall	24,106,902	0.00
Parking Lot	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Office Building	300	—
Industrial Park	118	—

Strip Mall	342	—
Parking Lot	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Office Building	70.8	—
Industrial Park	28.0	—
Strip Mall	80.6	—
Parking Lot	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Aerial Lifts	Electric	Average	56.0	5.30	25.0	0.31
Aerial Lifts	CNG	Average	1.00	4.00	82.0	0.20
Sweepers/Scrubbers	CNG	Average	1.00	2.00	36.0	0.46

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Aerial Lifts	Electric	Average	56.0	5.30	25.0	0.31
Aerial Lifts	CNG	Average	1.00	4.00	82.0	0.20
Sweepers/Scrubbers	CNG	Average	1.00	2.00	36.0	0.46

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type
—	—

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	Consistency with SB 100 requirements
Land Use	Landscape is limited on the Project Site and conservatively assumed zero sf. In addition, landscaping is used for calculation of water usage. Page IV.M.1-28 of the Draft EIR shows that existing water usage is 44,662 gpd. Using zero sf of landscaping conservatively reduces outdoor water usage to zero.
Operations: Hearths	—
Operations: Energy Use	City of LA Ordinance
Operations: Water and Waste Water	—
Operations: Consumer Products	Appendix D3 of the CalEEMod 2022 User's Guide provides a SCAQMD factor of 1.98E-05 instead of Statewide 2.14E-05. Updating from the 2008 CARB Emission Inventory to 2012 CARB Emission Inventory would further reduce the SCAQMD specific factor to 1.70E-5 (not included in analysis).
Operations: Off-Road Equipment	Onsite Equipment Inventory and daily hours of use. See calculation sheet.
Operations: Architectural Coatings	SCAQMD Rule 1113 Building Envelope Coatings limit of 50 g/L, effective date 1/1/19

TVC-Existing 2043 Custom Report

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5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.10.4. Landscape Equipment - Mitigated

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.11.2. Mitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.12.2. Mitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.13.2. Mitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.14.2. Mitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	TVC-Existing 2043
Operational Year	2043
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	19.6
Location	34.07542868385967, -118.35987067242141
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4302
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.12

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
General Office Building	323	1000sqft	0.00	322,690	0.00	—	—	—

Industrial Park	95.5	1000sqft	0.00	95,540	0.00	—	—	—
Strip Mall	325	1000sqft	25.0	325,450	0.00	—	—	—
Parking Lot	1,500	Space	0.00	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Waste	S-1/S-2	Implement Waste Reduction Plan

2. Emissions Summary

2.4. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.97	24.8	7.76	131	0.19	—	—	—	—	—	—	41,823
Mit.	9.97	24.8	7.76	131	0.19	—	—	—	—	—	—	40,728
% Reduced	—	—	—	—	—	—	—	—	—	—	—	3%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.97	24.8	8.16	126	0.19	—	—	—	—	—	—	41,063
Mit.	9.97	24.8	8.16	126	0.19	—	—	—	—	—	—	39,968
% Reduced	—	—	—	—	—	—	—	—	—	—	—	3%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.80	21.8	6.65	59.6	0.15	—	—	—	—	—	—	36,840
Mit.	6.80	21.8	6.65	59.6	0.15	—	—	—	—	—	—	35,745

% Reduced	—	—	—	—	—	—	—	—	—	—	—	3%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.24	3.98	1.21	10.9	0.03	—	—	—	—	—	—	6,099
Mit.	1.24	3.98	1.21	10.9	0.03	—	—	—	—	—	—	5,918
% Reduced	—	—	—	—	—	—	—	—	—	—	—	3%

2.5. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	8.27	7.65	4.26	62.3	0.17	0.07	7.75	7.82	0.06	1.37	1.43	17,981
Area	1.40	17.0	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Energy	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	20,184
Water	—	—	—	—	—	—	—	—	—	—	—	1,987
Waste	—	—	—	—	—	—	—	—	—	—	—	1,434
Refrig.	—	—	—	—	—	—	—	—	—	—	—	27.7
Off-Road	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Vegetation	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Total	9.97	24.8	7.76	131	0.19	NaN	NaN	NaN	NaN	NaN	NaN	41,823
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	8.27	7.65	4.67	57.5	0.17	0.07	7.75	7.82	0.06	1.37	1.43	17,221
Area	1.40	17.0	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Energy	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	20,184
Water	—	—	—	—	—	—	—	—	—	—	—	1,987
Waste	—	—	—	—	—	—	—	—	—	—	—	1,434

Refrig.	—	—	—	—	—	—	—	—	—	—	—	27.7
Off-Road	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Vegetation	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Total	9.97	24.8	8.16	126	0.19	NaN	NaN	NaN	NaN	NaN	NaN	41,063
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	6.30	5.83	3.60	45.4	0.13	0.05	5.96	6.01	0.05	1.06	1.10	13,412
Area	0.20	15.9	0.05	8.83	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	15.9
Energy	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	19,894
Water	—	—	—	—	—	—	—	—	—	—	—	1,987
Waste	—	—	—	—	—	—	—	—	—	—	—	1,434
Refrig.	—	—	—	—	—	—	—	—	—	—	—	27.7
Off-Road	0.01	0.00	0.31	3.13	0.00	0.00	—	0.00	0.00	—	0.00	69.6
Vegetation	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Total	6.80	21.8	6.65	59.6	0.15	NaN	NaN	NaN	NaN	NaN	NaN	36,840
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.15	1.06	0.66	8.28	0.02	0.01	1.09	1.10	0.01	0.19	0.20	2,221
Area	0.04	2.89	0.01	1.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.64
Energy	0.05	0.03	0.49	0.41	< 0.005	0.04	—	0.04	0.04	—	0.04	3,294
Water	—	—	—	—	—	—	—	—	—	—	—	329
Waste	—	—	—	—	—	—	—	—	—	—	—	237
Refrig.	—	—	—	—	—	—	—	—	—	—	—	4.58
Off-Road	< 0.005	0.00	0.06	0.57	0.00	0.00	—	0.00	0.00	—	0.00	11.5
Vegetation	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Total	1.24	3.98	1.21	10.9	0.03	NaN	NaN	NaN	NaN	NaN	NaN	6,099

2.6. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	8.27	7.65	4.26	62.3	0.17	0.07	7.75	7.82	0.06	1.37	1.43	17,981
Area	1.40	17.0	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Energy	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	20,184
Water	—	—	—	—	—	—	—	—	—	—	—	1,987
Waste	—	—	—	—	—	—	—	—	—	—	—	338
Refrig.	—	—	—	—	—	—	—	—	—	—	—	27.7
Off-Road	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Vegetation	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Total	9.97	24.8	7.76	131	0.19	NaN	NaN	NaN	NaN	NaN	NaN	40,728
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	8.27	7.65	4.67	57.5	0.17	0.07	7.75	7.82	0.06	1.37	1.43	17,221
Area	1.40	17.0	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Energy	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	20,184
Water	—	—	—	—	—	—	—	—	—	—	—	1,987
Waste	—	—	—	—	—	—	—	—	—	—	—	338
Refrig.	—	—	—	—	—	—	—	—	—	—	—	27.7
Off-Road	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Vegetation	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Total	9.97	24.8	8.16	126	0.19	NaN	NaN	NaN	NaN	NaN	NaN	39,968
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	6.30	5.83	3.60	45.4	0.13	0.05	5.96	6.01	0.05	1.06	1.10	13,412
Area	0.20	15.9	0.05	8.83	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	15.9
Energy	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	19,894

Water	—	—	—	—	—	—	—	—	—	—	—	1,987
Waste	—	—	—	—	—	—	—	—	—	—	—	338
Refrig.	—	—	—	—	—	—	—	—	—	—	—	27.7
Off-Road	0.01	0.00	0.31	3.13	0.00	0.00	—	0.00	0.00	—	0.00	69.6
Vegetation	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Total	6.80	21.8	6.65	59.6	0.15	NaN	NaN	NaN	NaN	NaN	NaN	35,745
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.15	1.06	0.66	8.28	0.02	0.01	1.09	1.10	0.01	0.19	0.20	2,221
Area	0.04	2.89	0.01	1.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.64
Energy	0.05	0.03	0.49	0.41	< 0.005	0.04	—	0.04	0.04	—	0.04	3,294
Water	—	—	—	—	—	—	—	—	—	—	—	329
Waste	—	—	—	—	—	—	—	—	—	—	—	56.0
Refrig.	—	—	—	—	—	—	—	—	—	—	—	4.58
Off-Road	< 0.005	0.00	0.06	0.57	0.00	0.00	—	0.00	0.00	—	0.00	11.5
Vegetation	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Total	1.24	3.98	1.21	10.9	0.03	NaN	NaN	NaN	NaN	NaN	NaN	5,918

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

4.1.2. Mitigated

Mobile source emissions results are presented in Sections 2.5. No further detailed breakdown of emissions is available.

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	8,284
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	2,453
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	5,223
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
undefined	—	—	—	—	—	—	—	—	—	—	—	1,009
Total	—	—	—	—	—	—	—	—	—	—	—	16,969
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	8,284
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	2,453
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	5,223
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
undefined	—	—	—	—	—	—	—	—	—	—	—	1,009
Total	—	—	—	—	—	—	—	—	—	—	—	16,969
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	1,372
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	406
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	865

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
undefined	—	—	—	—	—	—	—	—	—	—	—	119
Total	—	—	—	—	—	—	—	—	—	—	—	2,761

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	8,284
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	2,453
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	5,223
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
undefined	—	—	—	—	—	—	—	—	—	—	—	1,009
Total	—	—	—	—	—	—	—	—	—	—	—	16,969
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	8,284
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	2,453
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	5,223
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
undefined	—	—	—	—	—	—	—	—	—	—	—	1,009
Total	—	—	—	—	—	—	—	—	—	—	—	16,969
Annual	—	—	—	—	—	—	—	—	—	—	—	—

General Office Building	—	—	—	—	—	—	—	—	—	—	—	1,372
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	406
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	865
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
undefined	—	—	—	—	—	—	—	—	—	—	—	119
Total	—	—	—	—	—	—	—	—	—	—	—	2,761

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.19	0.10	1.74	1.46	0.01	0.13	—	0.13	0.13	—	0.13	2,084
Industrial Park	0.06	0.03	0.52	0.43	< 0.005	0.04	—	0.04	0.04	—	0.04	617
Strip Mall	0.05	0.02	0.43	0.36	< 0.005	0.03	—	0.03	0.03	—	0.03	515
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	3,216
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.19	0.10	1.74	1.46	0.01	0.13	—	0.13	0.13	—	0.13	2,084
Industrial Park	0.06	0.03	0.52	0.43	< 0.005	0.04	—	0.04	0.04	—	0.04	617
Strip Mall	0.05	0.02	0.43	0.36	< 0.005	0.03	—	0.03	0.03	—	0.03	515
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	3,216

Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.03	0.02	0.32	0.27	< 0.005	0.02	—	0.02	0.02	—	0.02	345
Industrial Park	0.01	0.01	0.09	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	102
Strip Mall	0.01	< 0.005	0.08	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	85.3
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.05	0.03	0.49	0.41	< 0.005	0.04	—	0.04	0.04	—	0.04	532

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.19	0.10	1.74	1.46	0.01	0.13	—	0.13	0.13	—	0.13	2,084
Industrial Park	0.06	0.03	0.52	0.43	< 0.005	0.04	—	0.04	0.04	—	0.04	617
Strip Mall	0.05	0.02	0.43	0.36	< 0.005	0.03	—	0.03	0.03	—	0.03	515
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	3,216
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.19	0.10	1.74	1.46	0.01	0.13	—	0.13	0.13	—	0.13	2,084
Industrial Park	0.06	0.03	0.52	0.43	< 0.005	0.04	—	0.04	0.04	—	0.04	617
Strip Mall	0.05	0.02	0.43	0.36	< 0.005	0.03	—	0.03	0.03	—	0.03	515
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.30	0.15	2.69	2.26	0.02	0.20	—	0.20	0.20	—	0.20	3,216

Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.03	0.02	0.32	0.27	< 0.005	0.02	—	0.02	0.02	—	0.02	345
Industrial Park	0.01	0.01	0.09	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	102
Strip Mall	0.01	< 0.005	0.08	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	85.3
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.05	0.03	0.49	0.41	< 0.005	0.04	—	0.04	0.04	—	0.04	532

4.3. Area Emissions by Source

4.3.2. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	14.7	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.94	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.40	1.30	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Total	1.40	17.0	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	14.7	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.94	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.40	1.30	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112

Total	1.40	17.0	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	2.69	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.17	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.04	0.03	0.01	1.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.64
Total	0.04	2.89	0.01	1.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.64

4.3.1. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	14.7	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.94	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.40	1.30	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Total	1.40	17.0	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	14.7	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.94	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.40	1.30	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112
Total	1.40	17.0	0.37	62.0	< 0.005	0.01	—	0.01	0.02	—	0.02	112

Annual	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	2.69	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.17	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.04	0.03	0.01	1.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.64
Total	0.04	2.89	0.01	1.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.64

4.4. Water Emissions by Land Use

4.4.2. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	1,101
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	424
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	463
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,987
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	1,101
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	424
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	463

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,987
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	182
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	70.2
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	76.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	329

4.4.1. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	1,101
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	424
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	463
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,987
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	1,101
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	424
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	463

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,987
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	182
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	70.2
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	76.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	329

4.5. Waste Emissions by Land Use

4.5.2. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	566
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	223
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	644
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,434
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	566

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	223
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	644
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,434
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	93.7
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	37.0
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	107
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	237

4.5.1. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	134
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	52.7
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	152
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	338
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	134

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	52.7
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	152
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	338
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	22.1
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	8.73
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	25.2
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	56.0

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.78
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	24.9
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2.03
Total	—	—	—	—	—	—	—	—	—	—	—	27.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—

General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.78
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	24.9
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2.03
Total	—	—	—	—	—	—	—	—	—	—	—	27.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.13
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	4.12
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.34
Total	—	—	—	—	—	—	—	—	—	—	—	4.58

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.78
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	24.9
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2.03
Total	—	—	—	—	—	—	—	—	—	—	—	27.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.78

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	24.9
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2.03
Total	—	—	—	—	—	—	—	—	—	—	—	27.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.13
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	4.12
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.34
Total	—	—	—	—	—	—	—	—	—	—	—	4.58

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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Aerial Lifts	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Total	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Aerial Lifts	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Total	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Aerial Lifts	< 0.005	0.00	0.06	0.57	0.00	0.00	—	0.00	0.00	—	0.00	11.5
Total	< 0.005	0.00	0.06	0.57	0.00	0.00	—	0.00	0.00	—	0.00	11.5

4.7.2. Mitigated

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

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Aerial Lifts	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Total	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Aerial Lifts	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Total	0.01	0.00	0.44	4.40	0.00	0.00	—	0.00	0.00	—	0.00	97.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Aerial Lifts	< 0.005	0.00	0.06	0.57	0.00	0.00	—	0.00	0.00	—	0.00	11.5
Total	< 0.005	0.00	0.06	0.57	0.00	0.00	—	0.00	0.00	—	0.00	11.5

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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	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	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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—

—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00

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	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	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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—

Avoided	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—

Removed	—	—	—	—	—	—	—	—	—	—	—	—
undefined	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
Subtotal	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—
—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	0.00

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
Total all Land Uses	3,891	1,128	376	1,092,862	28,021	8,125	2,711	7,870,495

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	3,891	1,128	376	1,092,862	28,021	8,125	2,711	7,870,495

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

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)
0	0.00	1,115,520	371,840	—

5.10.3. Landscape Equipment

Equipment Type	Fuel Type	Number Per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Lawn Mowers	Gasoline 4-Stroke	1.00	8.00	416	3.86	0.36
Leaf Blowers/Vacuums	Gasoline 4-Stroke	2.00	8.00	416	4.50	0.94

5.10.4. Landscape Equipment - Mitigated

Equipment Type	Fuel Type	Number Per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Lawn Mowers	Gasoline 4-Stroke	1.00	8.00	416	3.86	0.36
Leaf Blowers/Vacuums	Gasoline 4-Stroke	2.00	8.00	416	4.50	0.94

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)
General Office Building	5,140,048	585	0.0489	0.0069	6,483,442
Industrial Park	1,521,833	585	0.0489	0.0069	1,919,576
Strip Mall	3,240,354	585	0.0489	0.0069	1,602,562
Parking Lot	0.00	585	0.0489	0.0069	0.00

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)

General Office Building	5,140,048	585	0.0489	0.0069	6,483,442
Industrial Park	1,521,833	585	0.0489	0.0069	1,919,576
Strip Mall	3,240,354	585	0.0489	0.0069	1,602,562
Parking Lot	0.00	585	0.0489	0.0069	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Office Building	57,352,903	0.00
Industrial Park	22,093,625	0.00
Strip Mall	24,106,902	0.00
Parking Lot	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Office Building	57,352,903	0.00
Industrial Park	22,093,625	0.00
Strip Mall	24,106,902	0.00
Parking Lot	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Office Building	300	—
Industrial Park	118	—

Strip Mall	342	—
Parking Lot	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Office Building	70.8	—
Industrial Park	28.0	—
Strip Mall	80.6	—
Parking Lot	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Aerial Lifts	Electric	Average	56.0	5.30	25.0	0.31
Aerial Lifts	CNG	Average	1.00	4.00	82.0	0.20
Sweepers/Scrubbers	CNG	Average	1.00	2.00	36.0	0.46

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Aerial Lifts	Electric	Average	56.0	5.30	25.0	0.31
Aerial Lifts	CNG	Average	1.00	4.00	82.0	0.20
Sweepers/Scrubbers	CNG	Average	1.00	2.00	36.0	0.46

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type
—	—

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	Consistency with SB 100 requirements
Land Use	Landscape is limited on the Project Site and conservatively assumed zero sf. In addition, landscaping is used for calculation of water usage. Page IV.M.1-28 of the Draft EIR shows that existing water usage is 44,662 gpd. Using zero sf of landscaping conservatively reduces outdoor water usage to zero.
Operations: Hearths	—
Operations: Energy Use	City of LA Ordinance
Operations: Water and Waste Water	—
Operations: Consumer Products	Appendix D3 of the CalEEMod 2022 User's Guide provides a SCAQMD factor of 1.98E-05 instead of Statewide 2.14E-05. Updating from the 2008 CARB Emission Inventory to 2012 CARB Emission Inventory would further reduce the SCAQMD specific factor to 1.70E-5 (not included in analysis).
Operations: Off-Road Equipment	Onsite Equipment Inventory and daily hours of use. See calculation sheet.
Operations: Architectural Coatings	SCAQMD Rule 1113 Building Envelope Coatings limit of 50 g/L, effective date 1/1/19

TVC - Project 2030 Custom Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	TVC - Project 2030
Operational Year	2030
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	19.6
Location	34.07491184400298, -118.35892074790567
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4302
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.12

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
General Office Building	1,400	1000sqft	25.0	1,400,000	104,008	—	—	—

Industrial Park	350	1000sqft	0.00	350,000	0.00	—	—	—
Strip Mall	104	1000sqft	0.00	104,000	0.00	—	—	—
Enclosed Parking with Elevator	2,600	Space	0.00	1,040,000	0.00	—	—	—
Unenclosed Parking with Elevator	2,700	Space	0.00	1,080,000	0.00	—	—	—
High Turnover (Sit Down Restaurant)	5.00	1000sqft	0.00	5,000	0.00	—	—	—
Strip Mall	15.0	1000sqft	0.00	15,000	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Water	W-7	Adopt a Water Conservation Strategy
Waste	S-1/S-2	Implement Waste Reduction Plan

2. Emissions Summary

2.4. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	32.7	69.5	18.6	229	0.57	0.32	22.1	22.5	0.30	3.94	4.24	145,541
Mit.	32.7	69.5	18.6	229	0.57	0.32	22.1	22.5	0.30	3.94	4.24	141,466
% Reduced	—	—	—	—	—	—	—	—	—	—	—	3%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	32.4	69.2	20.4	213	0.55	0.32	22.1	22.5	0.30	3.94	4.24	143,039

Mit.	32.4	69.2	20.4	213	0.55	0.32	22.1	22.5	0.30	3.94	4.24	138,964
% Reduced	—	—	—	—	—	—	—	—	—	—	—	3%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	24.8	62.2	15.8	168	0.43	0.25	17.0	17.3	0.23	3.03	3.26	129,956
Mit.	24.8	62.2	15.8	168	0.43	0.25	17.0	17.3	0.23	3.03	3.26	125,881
% Reduced	—	—	—	—	—	—	—	—	—	—	—	3%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.52	11.3	2.88	30.6	0.08	0.05	3.11	3.15	0.04	0.55	0.59	21,516
Mit.	4.52	11.3	2.88	30.6	0.08	0.05	3.11	3.15	0.04	0.55	0.59	20,841
% Reduced	—	—	—	—	—	—	—	—	—	—	—	3%

2.5. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	32.7	30.0	18.6	229	0.57	0.32	22.1	22.5	0.30	3.94	4.24	59,127
Area	—	39.5	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	76,151
Water	—	—	—	—	—	—	—	—	—	—	—	6,539
Waste	—	—	—	—	—	—	—	—	—	—	—	3,621
Refrig.	—	—	—	—	—	—	—	—	—	—	—	103
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	32.7	69.5	18.6	229	0.57	0.32	22.1	22.5	0.30	3.94	4.24	145,541
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	32.4	29.7	20.4	213	0.55	0.32	22.1	22.5	0.30	3.94	4.24	56,624

Area	—	39.5	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	76,151
Water	—	—	—	—	—	—	—	—	—	—	—	6,539
Waste	—	—	—	—	—	—	—	—	—	—	—	3,621
Refrig.	—	—	—	—	—	—	—	—	—	—	—	103
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	32.4	69.2	20.4	213	0.55	0.32	22.1	22.5	0.30	3.94	4.24	143,039
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	24.8	22.7	15.8	168	0.43	0.25	17.0	17.3	0.23	3.03	3.26	44,115
Area	—	39.5	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	75,577
Water	—	—	—	—	—	—	—	—	—	—	—	6,539
Waste	—	—	—	—	—	—	—	—	—	—	—	3,621
Refrig.	—	—	—	—	—	—	—	—	—	—	—	103
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	24.8	62.2	15.8	168	0.43	0.25	17.0	17.3	0.23	3.03	3.26	129,956
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.52	4.14	2.88	30.6	0.08	0.05	3.11	3.15	0.04	0.55	0.59	7,304
Area	—	7.21	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	12,513
Water	—	—	—	—	—	—	—	—	—	—	—	1,083
Waste	—	—	—	—	—	—	—	—	—	—	—	600
Refrig.	—	—	—	—	—	—	—	—	—	—	—	17.1
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	4.52	11.3	2.88	30.6	0.08	0.05	3.11	3.15	0.04	0.55	0.59	21,516

2.6. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	32.7	30.0	18.6	229	0.57	0.32	22.1	22.5	0.30	3.94	4.24	59,127
Area	—	39.5	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	76,151
Water	—	—	—	—	—	—	—	—	—	—	—	5,231
Waste	—	—	—	—	—	—	—	—	—	—	—	855
Refrig.	—	—	—	—	—	—	—	—	—	—	—	103
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	32.7	69.5	18.6	229	0.57	0.32	22.1	22.5	0.30	3.94	4.24	141,466
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	32.4	29.7	20.4	213	0.55	0.32	22.1	22.5	0.30	3.94	4.24	56,624
Area	—	39.5	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	76,151
Water	—	—	—	—	—	—	—	—	—	—	—	5,231
Waste	—	—	—	—	—	—	—	—	—	—	—	855
Refrig.	—	—	—	—	—	—	—	—	—	—	—	103
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	32.4	69.2	20.4	213	0.55	0.32	22.1	22.5	0.30	3.94	4.24	138,964
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	24.8	22.7	15.8	168	0.43	0.25	17.0	17.3	0.23	3.03	3.26	44,115
Area	—	39.5	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	75,577
Water	—	—	—	—	—	—	—	—	—	—	—	5,231
Waste	—	—	—	—	—	—	—	—	—	—	—	855

Refrig.	—	—	—	—	—	—	—	—	—	—	—	103
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	24.8	62.2	15.8	168	0.43	0.25	17.0	17.3	0.23	3.03	3.26	125,881
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.52	4.14	2.88	30.6	0.08	0.05	3.11	3.15	0.04	0.55	0.59	7,304
Area	—	7.21	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	12,513
Water	—	—	—	—	—	—	—	—	—	—	—	866
Waste	—	—	—	—	—	—	—	—	—	—	—	141
Refrig.	—	—	—	—	—	—	—	—	—	—	—	17.1
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	4.52	11.3	2.88	30.6	0.08	0.05	3.11	3.15	0.04	0.55	0.59	20,841

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

4.1.2. Mitigated

Mobile source emissions results are presented in Sections 2.5. No further detailed breakdown of emissions is available.

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	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	50,187
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	9,939
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2,745
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	6,188
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	4,905
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	424
undefined	—	—	—	—	—	—	—	—	—	—	—	1,762
Total	—	—	—	—	—	—	—	—	—	—	—	76,151
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	50,187
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	9,939
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2,745
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	6,188
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	4,905
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	424

undefined	—	—	—	—	—	—	—	—	—	—	—	1,762
Total	—	—	—	—	—	—	—	—	—	—	—	76,151
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	8,298
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,646
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	455
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	1,024
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	812
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	70.2
undefined	—	—	—	—	—	—	—	—	—	—	—	208
Total	—	—	—	—	—	—	—	—	—	—	—	12,513

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	50,187
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	9,939
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2,745

Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	6,188
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	4,905
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	424
undefined	—	—	—	—	—	—	—	—	—	—	—	1,762
Total	—	—	—	—	—	—	—	—	—	—	—	76,151
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	50,187
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	9,939
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2,745
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	6,188
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	4,905
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	424
undefined	—	—	—	—	—	—	—	—	—	—	—	1,762
Total	—	—	—	—	—	—	—	—	—	—	—	76,151
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	8,298
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,646

Strip Mall	—	—	—	—	—	—	—	—	—	—	—	455
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	1,024
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	812
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	70.2
undefined	—	—	—	—	—	—	—	—	—	—	—	208
Total	—	—	—	—	—	—	—	—	—	—	—	12,513

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

4.3. Area Emissions by Source

4.3.2. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—

Consumer Products	—	37.1	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.38	—	—	—	—	—	—	—	—	—	—
Total	—	39.5	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	37.1	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.38	—	—	—	—	—	—	—	—	—	—
Total	—	39.5	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.77	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.43	—	—	—	—	—	—	—	—	—	—
Total	—	7.21	—	—	—	—	—	—	—	—	—	—

4.3.1. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	37.1	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.38	—	—	—	—	—	—	—	—	—	—
Total	—	39.5	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—

Consumer Products	—	37.1	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.38	—	—	—	—	—	—	—	—	—	—
Total	—	39.5	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.77	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.43	—	—	—	—	—	—	—	—	—	—
Total	—	7.21	—	—	—	—	—	—	—	—	—	—

4.4. Water Emissions by Land Use

4.4.2. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	4,788
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,553
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	169
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	29.1
Total	—	—	—	—	—	—	—	—	—	—	—	6,539
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	4,788
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,553
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	169
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	29.1
Total	—	—	—	—	—	—	—	—	—	—	—	6,539
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	793
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	257
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	28.0
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	4.82
Total	—	—	—	—	—	—	—	—	—	—	—	1,083

4.4.1. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3,830
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,243
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	135
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	23.3
Total	—	—	—	—	—	—	—	—	—	—	—	5,231
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3,830
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,243
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	135

Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	23.3
Total	—	—	—	—	—	—	—	—	—	—	—	5,231
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	634
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	206
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	22.4
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	3.86
Total	—	—	—	—	—	—	—	—	—	—	—	866

4.5. Waste Emissions by Land Use

4.5.2. 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	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	2,455
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	818
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	236
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	112
Total	—	—	—	—	—	—	—	—	—	—	—	3,621
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	2,455
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	818
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	236
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	112
Total	—	—	—	—	—	—	—	—	—	—	—	3,621

Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	406
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	135
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	39.0
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	18.6
Total	—	—	—	—	—	—	—	—	—	—	—	600

4.5.1. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	579
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	193
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	55.6
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00

Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	26.5
Total	—	—	—	—	—	—	—	—	—	—	—	855
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	579
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	193
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	55.6
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	26.5
Total	—	—	—	—	—	—	—	—	—	—	—	855
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	95.9
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	32.0
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	9.21
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00

Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	4.38
Total	—	—	—	—	—	—	—	—	—	—	—	141

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3.40
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	91.1
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	7.82
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.74
Total	—	—	—	—	—	—	—	—	—	—	—	103
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3.40
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	91.1

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	7.82
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.74
Total	—	—	—	—	—	—	—	—	—	—	—	103
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.56
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	15.1
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	1.29
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.12
Total	—	—	—	—	—	—	—	—	—	—	—	17.1

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3.40
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	91.1
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	7.82
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.74
Total	—	—	—	—	—	—	—	—	—	—	—	103

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3.40
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	91.1
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	7.82
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.74
Total	—	—	—	—	—	—	—	—	—	—	—	103
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.56
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	15.1
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	1.29
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.12
Total	—	—	—	—	—	—	—	—	—	—	—	17.1

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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—

Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

4.7.2. Mitigated

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

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	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	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	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	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	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	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
Total all Land Uses	11,346	3,290	1,098	3,186,867	79,629	23,089	7,703	22,366,001

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	11,346	3,290	1,098	3,186,867	79,629	23,089	7,703	22,366,001

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

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)
0	0.00	2,811,000	937,000	—

5.10.3. Landscape Equipment

Equipment Type	Fuel Type	Number Per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Lawn Mowers	Electric	2.00	8.00	416	3.86	0.36
Leaf Blowers/Vacuums	Electric	3.00	8.00	416	3.86	0.36
Other Lawn & Garden Equipment	Electric	2.00	8.00	416	6.09	0.58
Riding Mowers	Electric	1.00	8.00	416	21.4	0.38

5.10.4. Landscape Equipment - Mitigated

Equipment Type	Fuel Type	Number Per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Lawn Mowers	Electric	2.00	8.00	416	3.86	0.36
Leaf Blowers/Vacuums	Electric	3.00	8.00	416	3.86	0.36
Other Lawn & Garden Equipment	Electric	2.00	8.00	416	6.09	0.58
Riding Mowers	Electric	1.00	8.00	416	21.4	0.38

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)
General Office Building	31,090,850	585	0.0489	0.0069	0.00
Industrial Park	6,166,650	585	0.0489	0.0069	0.00
Strip Mall	1,488,608	585	0.0489	0.0069	0.00
Enclosed Parking with Elevator	3,839,089	585	0.0489	0.0069	0.00
Unenclosed Parking with Elevator	3,043,440	585	0.0489	0.0069	0.00
High Turnover (Sit Down Restaurant)	263,035	585	0.0489	0.0069	0.00
Strip Mall	214,703	585	0.0489	0.0069	0.00

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)
General Office Building	31,090,850	585	0.0489	0.0069	0.00
Industrial Park	6,166,650	585	0.0489	0.0069	0.00
Strip Mall	1,488,608	585	0.0489	0.0069	0.00
Enclosed Parking with Elevator	3,839,089	585	0.0489	0.0069	0.00
Unenclosed Parking with Elevator	3,043,440	585	0.0489	0.0069	0.00
High Turnover (Sit Down Restaurant)	263,035	585	0.0489	0.0069	0.00
Strip Mall	214,703	585	0.0489	0.0069	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)

General Office Building	248,827,247	1,458,669
Industrial Park	80,937,500	0.00
Strip Mall	7,703,542	0.00
Enclosed Parking with Elevator	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00
High Turnover (Sit Down Restaurant)	1,517,669	0.00
Strip Mall	1,111,088	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Office Building	199,061,798	1,166,935
Industrial Park	64,750,000	0.00
Strip Mall	6,162,834	0.00
Enclosed Parking with Elevator	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00
High Turnover (Sit Down Restaurant)	1,214,135	0.00
Strip Mall	888,870	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Office Building	1,302	—
Industrial Park	434	—
Strip Mall	109	—
Enclosed Parking with Elevator	0.00	—
Unenclosed Parking with Elevator	0.00	—

High Turnover (Sit Down Restaurant)	59.5	—
Strip Mall	15.8	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Office Building	307	—
Industrial Park	102	—
Strip Mall	25.8	—
Enclosed Parking with Elevator	0.00	—
Unenclosed Parking with Elevator	0.00	—
High Turnover (Sit Down Restaurant)	14.0	—
Strip Mall	3.72	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Sweepers/Scrubbers	Electric	Average	1.00	2.00	36.0	0.46
Aerial Lifts	Electric	Average	97.0	5.30	25.0	0.31

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Sweepers/Scrubbers	Electric	Average	1.00	2.00	36.0	0.46
Aerial Lifts	Electric	Average	97.0	5.30	25.0	0.31

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type
—	—

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	Consistency with SB 100 Requirements.
Land Use	Landscape Area: Table IV.M.1-6 of the DEIR.
Operations: Energy Use	Compliance with City All Electric Building Ordinance. California Air Pollution Control Officers Association (CAPCOA) Handbook for Analyzing Greenhouse Gas Emissions Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity. Appendix C. Table E-15. December 2021.
Operations: Water and Waste Water	Consistent with indoor water usage in CalEEMod 2020 analysis. New methodology for outdoor in 2022. Larger water use increment than in DEIR.
Operations: Solid Waste	see assumptions
Operations: Architectural Coatings	SCAQMD Rule 1113 Building Envelope Coatings limit of 50 g/L, effective date 1/1/19
Operations: Consumer Products	Appendix D3 of the CalEEMod 2022 User's Guide provides a SCAQMD factor of 1.98E-05 instead of Statewide 2.14E-05. Updating from the 2008 CARB Emission Inventory to 2012 CARB Emission Inventory would further reduce the SCAQMD specific factor to 1.70E-5 (not included in analysis).
Operations: Landscape Equipment	All Electric Landscape Equipment Project Design Feature included as a C&A in the Final EIR.
Operations: Off-Road Equipment	Increase in equipment usage conservatively assumed to increase proportionally with the number of sound stages. All electric equipment commitment is included as Project Design Feature in C&A of this Final EIR.

TVC - Project 2035 Custom Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	TVC - Project 2035
Operational Year	2035
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	19.6
Location	34.07491184400298, -118.35892074790567
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4302
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.12

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
General Office Building	1,400	1000sqft	25.0	1,400,000	104,008	—	—	—

Industrial Park	350	1000sqft	0.00	350,000	0.00	—	—	—
Strip Mall	104	1000sqft	0.00	104,000	0.00	—	—	—
Enclosed Parking with Elevator	2,600	Space	0.00	1,040,000	0.00	—	—	—
Unenclosed Parking with Elevator	2,700	Space	0.00	1,080,000	0.00	—	—	—
High Turnover (Sit Down Restaurant)	5.00	1000sqft	0.00	5,000	0.00	—	—	—
Strip Mall	15.0	1000sqft	0.00	15,000	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Water	W-7	Adopt a Water Conservation Strategy
Waste	S-1/S-2	Implement Waste Reduction Plan

2. Emissions Summary

2.4. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	28.0	65.3	14.9	199	0.53	0.25	22.1	22.3	0.23	3.92	4.15	140,999
Mit.	28.0	65.3	14.9	199	0.53	0.25	22.1	22.3	0.23	3.92	4.15	136,925
% Reduced	—	—	—	—	—	—	—	—	—	—	—	3%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	27.9	65.1	16.3	185	0.51	0.25	22.1	22.3	0.23	3.92	4.15	138,709

Mit.	27.9	65.1	16.3	185	0.51	0.25	22.1	22.3	0.23	3.92	4.15	134,634
% Reduced	—	—	—	—	—	—	—	—	—	—	—	3%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	21.3	59.0	12.6	146	0.39	0.19	17.0	17.2	0.18	3.01	3.19	126,571
Mit.	21.3	59.0	12.6	146	0.39	0.19	17.0	17.2	0.18	3.01	3.19	122,497
% Reduced	—	—	—	—	—	—	—	—	—	—	—	3%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.88	10.8	2.29	26.6	0.07	0.03	3.10	3.14	0.03	0.55	0.58	20,955
Mit.	3.88	10.8	2.29	26.6	0.07	0.03	3.10	3.14	0.03	0.55	0.58	20,281
% Reduced	—	—	—	—	—	—	—	—	—	—	—	3%

2.5. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	28.0	25.8	14.9	199	0.53	0.25	22.1	22.3	0.23	3.92	4.15	54,585
Area	—	39.5	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	76,151
Water	—	—	—	—	—	—	—	—	—	—	—	6,539
Waste	—	—	—	—	—	—	—	—	—	—	—	3,621
Refrig.	—	—	—	—	—	—	—	—	—	—	—	103
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	28.0	65.3	14.9	199	0.53	0.25	22.1	22.3	0.23	3.92	4.15	140,999
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	27.9	25.6	16.3	185	0.51	0.25	22.1	22.3	0.23	3.92	4.15	52,294

Area	—	39.5	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	76,151
Water	—	—	—	—	—	—	—	—	—	—	—	6,539
Waste	—	—	—	—	—	—	—	—	—	—	—	3,621
Refrig.	—	—	—	—	—	—	—	—	—	—	—	103
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	27.9	65.1	16.3	185	0.51	0.25	22.1	22.3	0.23	3.92	4.15	138,709
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	21.3	19.5	12.6	146	0.39	0.19	17.0	17.2	0.18	3.01	3.19	40,730
Area	—	39.5	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	75,577
Water	—	—	—	—	—	—	—	—	—	—	—	6,539
Waste	—	—	—	—	—	—	—	—	—	—	—	3,621
Refrig.	—	—	—	—	—	—	—	—	—	—	—	103
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	21.3	59.0	12.6	146	0.39	0.19	17.0	17.2	0.18	3.01	3.19	126,571
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.88	3.57	2.29	26.6	0.07	0.03	3.10	3.14	0.03	0.55	0.58	6,743
Area	—	7.21	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	12,513
Water	—	—	—	—	—	—	—	—	—	—	—	1,083
Waste	—	—	—	—	—	—	—	—	—	—	—	600
Refrig.	—	—	—	—	—	—	—	—	—	—	—	17.1
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	3.88	10.8	2.29	26.6	0.07	0.03	3.10	3.14	0.03	0.55	0.58	20,955

2.6. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	28.0	25.8	14.9	199	0.53	0.25	22.1	22.3	0.23	3.92	4.15	54,585
Area	—	39.5	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	76,151
Water	—	—	—	—	—	—	—	—	—	—	—	5,231
Waste	—	—	—	—	—	—	—	—	—	—	—	855
Refrig.	—	—	—	—	—	—	—	—	—	—	—	103
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	28.0	65.3	14.9	199	0.53	0.25	22.1	22.3	0.23	3.92	4.15	136,925
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	27.9	25.6	16.3	185	0.51	0.25	22.1	22.3	0.23	3.92	4.15	52,294
Area	—	39.5	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	76,151
Water	—	—	—	—	—	—	—	—	—	—	—	5,231
Waste	—	—	—	—	—	—	—	—	—	—	—	855
Refrig.	—	—	—	—	—	—	—	—	—	—	—	103
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	27.9	65.1	16.3	185	0.51	0.25	22.1	22.3	0.23	3.92	4.15	134,634
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	21.3	19.5	12.6	146	0.39	0.19	17.0	17.2	0.18	3.01	3.19	40,730
Area	—	39.5	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	75,577
Water	—	—	—	—	—	—	—	—	—	—	—	5,231
Waste	—	—	—	—	—	—	—	—	—	—	—	855

Refrig.	—	—	—	—	—	—	—	—	—	—	—	103
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	21.3	59.0	12.6	146	0.39	0.19	17.0	17.2	0.18	3.01	3.19	122,497
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.88	3.57	2.29	26.6	0.07	0.03	3.10	3.14	0.03	0.55	0.58	6,743
Area	—	7.21	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	12,513
Water	—	—	—	—	—	—	—	—	—	—	—	866
Waste	—	—	—	—	—	—	—	—	—	—	—	141
Refrig.	—	—	—	—	—	—	—	—	—	—	—	17.1
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	3.88	10.8	2.29	26.6	0.07	0.03	3.10	3.14	0.03	0.55	0.58	20,281

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

4.1.2. Mitigated

Mobile source emissions results are presented in Sections 2.5. No further detailed breakdown of emissions is available.

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	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	50,187
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	9,939
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2,745
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	6,188
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	4,905
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	424
undefined	—	—	—	—	—	—	—	—	—	—	—	1,762
Total	—	—	—	—	—	—	—	—	—	—	—	76,151
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	50,187
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	9,939
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2,745
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	6,188
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	4,905
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	424

undefined	—	—	—	—	—	—	—	—	—	—	—	1,762
Total	—	—	—	—	—	—	—	—	—	—	—	76,151
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	8,298
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,646
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	455
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	1,024
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	812
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	70.2
undefined	—	—	—	—	—	—	—	—	—	—	—	208
Total	—	—	—	—	—	—	—	—	—	—	—	12,513

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	50,187
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	9,939
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2,745

Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	6,188
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	4,905
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	424
undefined	—	—	—	—	—	—	—	—	—	—	—	1,762
Total	—	—	—	—	—	—	—	—	—	—	—	76,151
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	50,187
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	9,939
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2,745
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	6,188
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	4,905
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	424
undefined	—	—	—	—	—	—	—	—	—	—	—	1,762
Total	—	—	—	—	—	—	—	—	—	—	—	76,151
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	8,298
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,646

Strip Mall	—	—	—	—	—	—	—	—	—	—	—	455
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	1,024
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	812
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	70.2
undefined	—	—	—	—	—	—	—	—	—	—	—	208
Total	—	—	—	—	—	—	—	—	—	—	—	12,513

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

4.3. Area Emissions by Source

4.3.2. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—

Consumer Products	—	37.1	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.38	—	—	—	—	—	—	—	—	—	—
Total	—	39.5	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	37.1	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.38	—	—	—	—	—	—	—	—	—	—
Total	—	39.5	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.77	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.43	—	—	—	—	—	—	—	—	—	—
Total	—	7.21	—	—	—	—	—	—	—	—	—	—

4.3.1. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	37.1	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.38	—	—	—	—	—	—	—	—	—	—
Total	—	39.5	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—

Consumer Products	—	37.1	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.38	—	—	—	—	—	—	—	—	—	—
Total	—	39.5	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.77	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.43	—	—	—	—	—	—	—	—	—	—
Total	—	7.21	—	—	—	—	—	—	—	—	—	—

4.4. Water Emissions by Land Use

4.4.2. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	4,788
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,553
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	169
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	29.1
Total	—	—	—	—	—	—	—	—	—	—	—	6,539
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	4,788
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,553
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	169
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	29.1
Total	—	—	—	—	—	—	—	—	—	—	—	6,539
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	793
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	257
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	28.0
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	4.82
Total	—	—	—	—	—	—	—	—	—	—	—	1,083

4.4.1. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3,830
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,243
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	135
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	23.3
Total	—	—	—	—	—	—	—	—	—	—	—	5,231
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3,830
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,243
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	135

Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	23.3
Total	—	—	—	—	—	—	—	—	—	—	—	5,231
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	634
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	206
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	22.4
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	3.86
Total	—	—	—	—	—	—	—	—	—	—	—	866

4.5. Waste Emissions by Land Use

4.5.2. 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	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	2,455
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	818
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	236
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	112
Total	—	—	—	—	—	—	—	—	—	—	—	3,621
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	2,455
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	818
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	236
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	112
Total	—	—	—	—	—	—	—	—	—	—	—	3,621

Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	406
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	135
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	39.0
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	18.6
Total	—	—	—	—	—	—	—	—	—	—	—	600

4.5.1. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	579
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	193
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	55.6
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00

Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	26.5
Total	—	—	—	—	—	—	—	—	—	—	—	855
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	579
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	193
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	55.6
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	26.5
Total	—	—	—	—	—	—	—	—	—	—	—	855
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	95.9
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	32.0
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	9.21
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00

Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	4.38
Total	—	—	—	—	—	—	—	—	—	—	—	141

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3.40
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	91.1
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	7.82
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.74
Total	—	—	—	—	—	—	—	—	—	—	—	103
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3.40
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	91.1

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	7.82
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.74
Total	—	—	—	—	—	—	—	—	—	—	—	103
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.56
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	15.1
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	1.29
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.12
Total	—	—	—	—	—	—	—	—	—	—	—	17.1

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3.40
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	91.1
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	7.82
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.74
Total	—	—	—	—	—	—	—	—	—	—	—	103

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3.40
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	91.1
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	7.82
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.74
Total	—	—	—	—	—	—	—	—	—	—	—	103
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.56
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	15.1
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	1.29
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.12
Total	—	—	—	—	—	—	—	—	—	—	—	17.1

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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—

Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

4.7.2. Mitigated

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

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	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	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	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	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	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	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
Total all Land Uses	11,346	3,290	1,098	3,186,867	79,629	23,089	7,703	22,366,001

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	11,346	3,290	1,098	3,186,867	79,629	23,089	7,703	22,366,001

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

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)
0	0.00	2,811,000	937,000	—

5.10.3. Landscape Equipment

Equipment Type	Fuel Type	Number Per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Lawn Mowers	Electric	2.00	8.00	416	3.86	0.36
Leaf Blowers/Vacuums	Electric	3.00	8.00	416	3.86	0.36
Other Lawn & Garden Equipment	Electric	2.00	8.00	416	6.09	0.58
Riding Mowers	Electric	1.00	8.00	416	21.4	0.38

5.10.4. Landscape Equipment - Mitigated

Equipment Type	Fuel Type	Number Per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Lawn Mowers	Electric	2.00	8.00	416	3.86	0.36
Leaf Blowers/Vacuums	Electric	3.00	8.00	416	3.86	0.36
Other Lawn & Garden Equipment	Electric	2.00	8.00	416	6.09	0.58
Riding Mowers	Electric	1.00	8.00	416	21.4	0.38

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)
General Office Building	31,090,850	585	0.0489	0.0069	0.00
Industrial Park	6,166,650	585	0.0489	0.0069	0.00
Strip Mall	1,488,608	585	0.0489	0.0069	0.00
Enclosed Parking with Elevator	3,839,089	585	0.0489	0.0069	0.00
Unenclosed Parking with Elevator	3,043,440	585	0.0489	0.0069	0.00
High Turnover (Sit Down Restaurant)	263,035	585	0.0489	0.0069	0.00
Strip Mall	214,703	585	0.0489	0.0069	0.00

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)
General Office Building	31,090,850	585	0.0489	0.0069	0.00
Industrial Park	6,166,650	585	0.0489	0.0069	0.00
Strip Mall	1,488,608	585	0.0489	0.0069	0.00
Enclosed Parking with Elevator	3,839,089	585	0.0489	0.0069	0.00
Unenclosed Parking with Elevator	3,043,440	585	0.0489	0.0069	0.00
High Turnover (Sit Down Restaurant)	263,035	585	0.0489	0.0069	0.00
Strip Mall	214,703	585	0.0489	0.0069	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)

General Office Building	248,827,247	1,458,669
Industrial Park	80,937,500	0.00
Strip Mall	7,703,542	0.00
Enclosed Parking with Elevator	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00
High Turnover (Sit Down Restaurant)	1,517,669	0.00
Strip Mall	1,111,088	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Office Building	199,061,798	1,166,935
Industrial Park	64,750,000	0.00
Strip Mall	6,162,834	0.00
Enclosed Parking with Elevator	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00
High Turnover (Sit Down Restaurant)	1,214,135	0.00
Strip Mall	888,870	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Office Building	1,302	—
Industrial Park	434	—
Strip Mall	109	—
Enclosed Parking with Elevator	0.00	—
Unenclosed Parking with Elevator	0.00	—

High Turnover (Sit Down Restaurant)	59.5	—
Strip Mall	15.8	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Office Building	307	—
Industrial Park	102	—
Strip Mall	25.8	—
Enclosed Parking with Elevator	0.00	—
Unenclosed Parking with Elevator	0.00	—
High Turnover (Sit Down Restaurant)	14.0	—
Strip Mall	3.72	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Sweepers/Scrubbers	Electric	Average	1.00	2.00	36.0	0.46
Aerial Lifts	Electric	Average	97.0	5.30	25.0	0.31

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Sweepers/Scrubbers	Electric	Average	1.00	2.00	36.0	0.46
Aerial Lifts	Electric	Average	97.0	5.30	25.0	0.31

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type
—	—

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	7.38	annual days of extreme heat
Extreme Precipitation	6.85	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	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 (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth 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 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.
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.

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	Consistency with SB 100 Requirements.
Land Use	Landscape Area: Table IV.M.1-6 of the DEIR.
Operations: Energy Use	Compliance with City All Electric Building Ordinance. California Air Pollution Control Officers Association (CAPCOA) Handbook for Analyzing Greenhouse Gas Emissions Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity. Appendix C. Table E-15. December 2021.
Operations: Water and Waste Water	Consistent with indoor water usage in CalEEMod 2020 analysis. New methodology for outdoor in 2022. Larger water use increment than in DEIR.
Operations: Solid Waste	see assumptions
Operations: Architectural Coatings	SCAQMD Rule 1113 Building Envelope Coatings limit of 50 g/L, effective date 1/1/19
Operations: Consumer Products	Appendix D3 of the CalEEMod 2022 User's Guide provides a SCAQMD factor of 1.98E-05 instead of Statewide 2.14E-05. Updating from the 2008 CARB Emission Inventory to 2012 CARB Emission Inventory would further reduce the SCAQMD specific factor to 1.70E-5 (not included in analysis).
Operations: Landscape Equipment	All Electric Landscape Equipment Project Design Feature included as a C&A in the Final EIR.
Operations: Off-Road Equipment	Increase in equipment usage conservatively assumed to increase proportionally with the number of sound stages. All electric equipment commitment is included as Project Design Feature in C&A of this Final EIR.

TVC - Project 2040 Custom Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	TVC - Project 2040
Operational Year	2040
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	19.6
Location	34.07491184400298, -118.35892074790567
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4302
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.12

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
General Office Building	1,400	1000sqft	25.0	1,400,000	104,008	—	—	—

Industrial Park	350	1000sqft	0.00	350,000	0.00	—	—	—
Strip Mall	104	1000sqft	0.00	104,000	0.00	—	—	—
Enclosed Parking with Elevator	2,600	Space	0.00	1,040,000	0.00	—	—	—
Unenclosed Parking with Elevator	2,700	Space	0.00	1,080,000	0.00	—	—	—
High Turnover (Sit Down Restaurant)	5.00	1000sqft	0.00	5,000	0.00	—	—	—
Strip Mall	15.0	1000sqft	0.00	15,000	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Water	W-7	Adopt a Water Conservation Strategy
Waste	S-1/S-2	Implement Waste Reduction Plan

2. Emissions Summary

2.4. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	25.1	62.7	12.9	183	0.50	0.20	22.0	22.2	0.19	3.90	4.09	138,452
Mit.	25.1	62.7	12.9	183	0.50	0.20	22.0	22.2	0.19	3.90	4.09	134,378
% Reduced	—	—	—	—	—	—	—	—	—	—	—	3%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	25.0	62.6	14.2	170	0.48	0.20	22.0	22.2	0.19	3.90	4.09	136,260

Mit.	25.0	62.6	14.2	170	0.48	0.20	22.0	22.2	0.19	3.90	4.09	132,186
% Reduced	—	—	—	—	—	—	—	—	—	—	—	3%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	19.1	57.1	10.9	134	0.38	0.15	17.0	17.1	0.14	3.00	3.15	124,662
Mit.	19.1	57.1	10.9	134	0.38	0.15	17.0	17.1	0.14	3.00	3.15	120,587
% Reduced	—	—	—	—	—	—	—	—	—	—	—	3%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.48	10.4	1.99	24.4	0.07	0.03	3.10	3.12	0.03	0.55	0.57	20,639
Mit.	3.48	10.4	1.99	24.4	0.07	0.03	3.10	3.12	0.03	0.55	0.57	19,965
% Reduced	—	—	—	—	—	—	—	—	—	—	—	3%

2.5. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	25.1	23.2	12.9	183	0.50	0.20	22.0	22.2	0.19	3.90	4.09	52,038
Area	—	39.5	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	76,151
Water	—	—	—	—	—	—	—	—	—	—	—	6,539
Waste	—	—	—	—	—	—	—	—	—	—	—	3,621
Refrig.	—	—	—	—	—	—	—	—	—	—	—	103
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	25.1	62.7	12.9	183	0.50	0.20	22.0	22.2	0.19	3.90	4.09	138,452
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	25.0	23.1	14.2	170	0.48	0.20	22.0	22.2	0.19	3.90	4.09	49,846

Area	—	39.5	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	76,151
Water	—	—	—	—	—	—	—	—	—	—	—	6,539
Waste	—	—	—	—	—	—	—	—	—	—	—	3,621
Refrig.	—	—	—	—	—	—	—	—	—	—	—	103
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	25.0	62.6	14.2	170	0.48	0.20	22.0	22.2	0.19	3.90	4.09	136,260
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	19.1	17.6	10.9	134	0.38	0.15	17.0	17.1	0.14	3.00	3.15	38,821
Area	—	39.5	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	75,577
Water	—	—	—	—	—	—	—	—	—	—	—	6,539
Waste	—	—	—	—	—	—	—	—	—	—	—	3,621
Refrig.	—	—	—	—	—	—	—	—	—	—	—	103
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	19.1	57.1	10.9	134	0.38	0.15	17.0	17.1	0.14	3.00	3.15	124,662
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.48	3.22	1.99	24.4	0.07	0.03	3.10	3.12	0.03	0.55	0.57	6,427
Area	—	7.21	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	12,513
Water	—	—	—	—	—	—	—	—	—	—	—	1,083
Waste	—	—	—	—	—	—	—	—	—	—	—	600
Refrig.	—	—	—	—	—	—	—	—	—	—	—	17.1
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	3.48	10.4	1.99	24.4	0.07	0.03	3.10	3.12	0.03	0.55	0.57	20,639

2.6. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	25.1	23.2	12.9	183	0.50	0.20	22.0	22.2	0.19	3.90	4.09	52,038
Area	—	39.5	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	76,151
Water	—	—	—	—	—	—	—	—	—	—	—	5,231
Waste	—	—	—	—	—	—	—	—	—	—	—	855
Refrig.	—	—	—	—	—	—	—	—	—	—	—	103
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	25.1	62.7	12.9	183	0.50	0.20	22.0	22.2	0.19	3.90	4.09	134,378
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	25.0	23.1	14.2	170	0.48	0.20	22.0	22.2	0.19	3.90	4.09	49,846
Area	—	39.5	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	76,151
Water	—	—	—	—	—	—	—	—	—	—	—	5,231
Waste	—	—	—	—	—	—	—	—	—	—	—	855
Refrig.	—	—	—	—	—	—	—	—	—	—	—	103
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	25.0	62.6	14.2	170	0.48	0.20	22.0	22.2	0.19	3.90	4.09	132,186
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	19.1	17.6	10.9	134	0.38	0.15	17.0	17.1	0.14	3.00	3.15	38,821
Area	—	39.5	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	75,577
Water	—	—	—	—	—	—	—	—	—	—	—	5,231
Waste	—	—	—	—	—	—	—	—	—	—	—	855

Refrig.	—	—	—	—	—	—	—	—	—	—	—	103
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	19.1	57.1	10.9	134	0.38	0.15	17.0	17.1	0.14	3.00	3.15	120,587
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.48	3.22	1.99	24.4	0.07	0.03	3.10	3.12	0.03	0.55	0.57	6,427
Area	—	7.21	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	12,513
Water	—	—	—	—	—	—	—	—	—	—	—	866
Waste	—	—	—	—	—	—	—	—	—	—	—	141
Refrig.	—	—	—	—	—	—	—	—	—	—	—	17.1
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	3.48	10.4	1.99	24.4	0.07	0.03	3.10	3.12	0.03	0.55	0.57	19,965

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

4.1.2. Mitigated

Mobile source emissions results are presented in Sections 2.5. No further detailed breakdown of emissions is available.

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	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	50,187
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	9,939
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2,745
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	6,188
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	4,905
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	424
undefined	—	—	—	—	—	—	—	—	—	—	—	1,762
Total	—	—	—	—	—	—	—	—	—	—	—	76,151
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	50,187
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	9,939
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2,745
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	6,188
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	4,905
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	424

undefined	—	—	—	—	—	—	—	—	—	—	—	1,762
Total	—	—	—	—	—	—	—	—	—	—	—	76,151
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	8,298
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,646
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	455
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	1,024
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	812
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	70.2
undefined	—	—	—	—	—	—	—	—	—	—	—	208
Total	—	—	—	—	—	—	—	—	—	—	—	12,513

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	50,187
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	9,939
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2,745

Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	6,188
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	4,905
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	424
undefined	—	—	—	—	—	—	—	—	—	—	—	1,762
Total	—	—	—	—	—	—	—	—	—	—	—	76,151
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	50,187
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	9,939
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2,745
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	6,188
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	4,905
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	424
undefined	—	—	—	—	—	—	—	—	—	—	—	1,762
Total	—	—	—	—	—	—	—	—	—	—	—	76,151
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	8,298
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,646

Strip Mall	—	—	—	—	—	—	—	—	—	—	—	455
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	1,024
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	812
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	70.2
undefined	—	—	—	—	—	—	—	—	—	—	—	208
Total	—	—	—	—	—	—	—	—	—	—	—	12,513

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

4.3. Area Emissions by Source

4.3.2. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—

Consumer Products	—	37.1	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.38	—	—	—	—	—	—	—	—	—	—
Total	—	39.5	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	37.1	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.38	—	—	—	—	—	—	—	—	—	—
Total	—	39.5	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.77	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.43	—	—	—	—	—	—	—	—	—	—
Total	—	7.21	—	—	—	—	—	—	—	—	—	—

4.3.1. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	37.1	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.38	—	—	—	—	—	—	—	—	—	—
Total	—	39.5	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—

Consumer Products	—	37.1	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.38	—	—	—	—	—	—	—	—	—	—
Total	—	39.5	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.77	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.43	—	—	—	—	—	—	—	—	—	—
Total	—	7.21	—	—	—	—	—	—	—	—	—	—

4.4. Water Emissions by Land Use

4.4.2. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	4,788
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,553
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	169
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	29.1
Total	—	—	—	—	—	—	—	—	—	—	—	6,539
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	4,788
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,553
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	169
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	29.1
Total	—	—	—	—	—	—	—	—	—	—	—	6,539
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	793
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	257
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	28.0
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	4.82
Total	—	—	—	—	—	—	—	—	—	—	—	1,083

4.4.1. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3,830
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,243
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	135
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	23.3
Total	—	—	—	—	—	—	—	—	—	—	—	5,231
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3,830
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,243
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	135

Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	23.3
Total	—	—	—	—	—	—	—	—	—	—	—	5,231
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	634
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	206
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	22.4
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	3.86
Total	—	—	—	—	—	—	—	—	—	—	—	866

4.5. Waste Emissions by Land Use

4.5.2. 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	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	2,455
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	818
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	236
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	112
Total	—	—	—	—	—	—	—	—	—	—	—	3,621
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	2,455
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	818
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	236
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	112
Total	—	—	—	—	—	—	—	—	—	—	—	3,621

Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	406
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	135
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	39.0
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	18.6
Total	—	—	—	—	—	—	—	—	—	—	—	600

4.5.1. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	579
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	193
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	55.6
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00

Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	26.5
Total	—	—	—	—	—	—	—	—	—	—	—	855
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	579
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	193
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	55.6
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	26.5
Total	—	—	—	—	—	—	—	—	—	—	—	855
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	95.9
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	32.0
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	9.21
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00

Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	4.38
Total	—	—	—	—	—	—	—	—	—	—	—	141

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3.40
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	91.1
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	7.82
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.74
Total	—	—	—	—	—	—	—	—	—	—	—	103
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3.40
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	91.1

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	7.82
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.74
Total	—	—	—	—	—	—	—	—	—	—	—	103
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.56
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	15.1
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	1.29
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.12
Total	—	—	—	—	—	—	—	—	—	—	—	17.1

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3.40
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	91.1
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	7.82
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.74
Total	—	—	—	—	—	—	—	—	—	—	—	103

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3.40
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	91.1
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	7.82
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.74
Total	—	—	—	—	—	—	—	—	—	—	—	103
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.56
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	15.1
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	1.29
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.12
Total	—	—	—	—	—	—	—	—	—	—	—	17.1

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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—

Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

4.7.2. Mitigated

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

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	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	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	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	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	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	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
Total all Land Uses	11,346	3,290	1,098	3,186,867	79,629	23,089	7,703	22,366,001

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	11,346	3,290	1,098	3,186,867	79,629	23,089	7,703	22,366,001

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

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)
0	0.00	2,811,000	937,000	—

5.10.3. Landscape Equipment

Equipment Type	Fuel Type	Number Per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Lawn Mowers	Electric	2.00	8.00	416	3.86	0.36
Leaf Blowers/Vacuums	Electric	3.00	8.00	416	3.86	0.36
Other Lawn & Garden Equipment	Electric	2.00	8.00	416	6.09	0.58
Riding Mowers	Electric	1.00	8.00	416	21.4	0.38

5.10.4. Landscape Equipment - Mitigated

Equipment Type	Fuel Type	Number Per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Lawn Mowers	Electric	2.00	8.00	416	3.86	0.36
Leaf Blowers/Vacuums	Electric	3.00	8.00	416	3.86	0.36
Other Lawn & Garden Equipment	Electric	2.00	8.00	416	6.09	0.58
Riding Mowers	Electric	1.00	8.00	416	21.4	0.38

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)
General Office Building	31,090,850	585	0.0489	0.0069	0.00
Industrial Park	6,166,650	585	0.0489	0.0069	0.00
Strip Mall	1,488,608	585	0.0489	0.0069	0.00
Enclosed Parking with Elevator	3,839,089	585	0.0489	0.0069	0.00
Unenclosed Parking with Elevator	3,043,440	585	0.0489	0.0069	0.00
High Turnover (Sit Down Restaurant)	263,035	585	0.0489	0.0069	0.00
Strip Mall	214,703	585	0.0489	0.0069	0.00

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)
General Office Building	31,090,850	585	0.0489	0.0069	0.00
Industrial Park	6,166,650	585	0.0489	0.0069	0.00
Strip Mall	1,488,608	585	0.0489	0.0069	0.00
Enclosed Parking with Elevator	3,839,089	585	0.0489	0.0069	0.00
Unenclosed Parking with Elevator	3,043,440	585	0.0489	0.0069	0.00
High Turnover (Sit Down Restaurant)	263,035	585	0.0489	0.0069	0.00
Strip Mall	214,703	585	0.0489	0.0069	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)

General Office Building	248,827,247	1,458,669
Industrial Park	80,937,500	0.00
Strip Mall	7,703,542	0.00
Enclosed Parking with Elevator	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00
High Turnover (Sit Down Restaurant)	1,517,669	0.00
Strip Mall	1,111,088	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Office Building	199,061,798	1,166,935
Industrial Park	64,750,000	0.00
Strip Mall	6,162,834	0.00
Enclosed Parking with Elevator	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00
High Turnover (Sit Down Restaurant)	1,214,135	0.00
Strip Mall	888,870	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Office Building	1,302	—
Industrial Park	434	—
Strip Mall	109	—
Enclosed Parking with Elevator	0.00	—
Unenclosed Parking with Elevator	0.00	—

High Turnover (Sit Down Restaurant)	59.5	—
Strip Mall	15.8	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Office Building	307	—
Industrial Park	102	—
Strip Mall	25.8	—
Enclosed Parking with Elevator	0.00	—
Unenclosed Parking with Elevator	0.00	—
High Turnover (Sit Down Restaurant)	14.0	—
Strip Mall	3.72	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Sweepers/Scrubbers	Electric	Average	1.00	2.00	36.0	0.46
Aerial Lifts	Electric	Average	97.0	5.30	25.0	0.31

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Sweepers/Scrubbers	Electric	Average	1.00	2.00	36.0	0.46
Aerial Lifts	Electric	Average	97.0	5.30	25.0	0.31

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type
—	—

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	Consistency with SB 100 Requirements.
Land Use	Landscape Area: Table IV.M.1-6 of the DEIR.
Operations: Energy Use	Compliance with City All Electric Building Ordinance. California Air Pollution Control Officers Association (CAPCOA) Handbook for Analyzing Greenhouse Gas Emissions Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity. Appendix C. Table E-15. December 2021.
Operations: Water and Waste Water	Consistent with indoor water usage in CalEEMod 2020 analysis. New methodology for outdoor in 2022. Larger water use increment than in DEIR.
Operations: Solid Waste	see assumptions
Operations: Architectural Coatings	SCAQMD Rule 1113 Building Envelope Coatings limit of 50 g/L, effective date 1/1/19
Operations: Consumer Products	Appendix D3 of the CalEEMod 2022 User's Guide provides a SCAQMD factor of 1.98E-05 instead of Statewide 2.14E-05. Updating from the 2008 CARB Emission Inventory to 2012 CARB Emission Inventory would further reduce the SCAQMD specific factor to 1.70E-5 (not included in analysis).
Operations: Landscape Equipment	All Electric Landscape Equipment Project Design Feature included as a C&A in the Final EIR.
Operations: Off-Road Equipment	Increase in equipment usage conservatively assumed to increase proportionally with the number of sound stages. All electric equipment commitment is included as Project Design Feature in C&A of this Final EIR.

TVC - Project 2043 Custom Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	TVC - Project 2043
Operational Year	2043
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	19.6
Location	34.07491184400298, -118.35892074790567
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4302
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.12

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
General Office Building	1,400	1000sqft	25.0	1,400,000	104,008	—	—	—

Industrial Park	350	1000sqft	0.00	350,000	0.00	—	—	—
Strip Mall	104	1000sqft	0.00	104,000	0.00	—	—	—
Enclosed Parking with Elevator	2,600	Space	0.00	1,040,000	0.00	—	—	—
Unenclosed Parking with Elevator	2,700	Space	0.00	1,080,000	0.00	—	—	—
High Turnover (Sit Down Restaurant)	5.00	1000sqft	0.00	5,000	0.00	—	—	—
Strip Mall	15.0	1000sqft	0.00	15,000	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Water	W-7	Adopt a Water Conservation Strategy
Waste	S-1/S-2	Implement Waste Reduction Plan

2. Emissions Summary

2.4. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	24.0	61.7	12.2	178	0.50	0.19	22.0	22.2	0.17	3.90	4.07	137,557
Mit.	24.0	61.7	12.2	178	0.50	0.19	22.0	22.2	0.17	3.90	4.07	133,483
% Reduced	—	—	—	—	—	—	—	—	—	—	—	3%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	24.0	61.7	13.4	165	0.48	0.19	22.0	22.2	0.17	3.90	4.07	135,398

Mit.	24.0	61.7	13.4	165	0.48	0.19	22.0	22.2	0.17	3.90	4.07	131,323
% Reduced	—	—	—	—	—	—	—	—	—	—	—	3%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	18.3	56.4	10.3	130	0.37	0.14	16.9	17.1	0.13	3.00	3.13	123,990
Mit.	18.3	56.4	10.3	130	0.37	0.14	16.9	17.1	0.13	3.00	3.13	119,915
% Reduced	—	—	—	—	—	—	—	—	—	—	—	3%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.33	10.3	1.89	23.7	0.07	0.03	3.09	3.12	0.02	0.55	0.57	20,528
Mit.	3.33	10.3	1.89	23.7	0.07	0.03	3.09	3.12	0.02	0.55	0.57	19,853
% Reduced	—	—	—	—	—	—	—	—	—	—	—	3%

2.5. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	24.0	22.2	12.2	178	0.50	0.19	22.0	22.2	0.17	3.90	4.07	51,143
Area	—	39.5	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	76,151
Water	—	—	—	—	—	—	—	—	—	—	—	6,539
Waste	—	—	—	—	—	—	—	—	—	—	—	3,621
Refrig.	—	—	—	—	—	—	—	—	—	—	—	103
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	24.0	61.7	12.2	178	0.50	0.19	22.0	22.2	0.17	3.90	4.07	137,557
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	24.0	22.2	13.4	165	0.48	0.19	22.0	22.2	0.17	3.90	4.07	48,984

Area	—	39.5	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	76,151
Water	—	—	—	—	—	—	—	—	—	—	—	6,539
Waste	—	—	—	—	—	—	—	—	—	—	—	3,621
Refrig.	—	—	—	—	—	—	—	—	—	—	—	103
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	24.0	61.7	13.4	165	0.48	0.19	22.0	22.2	0.17	3.90	4.07	135,398
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	18.3	16.9	10.3	130	0.37	0.14	16.9	17.1	0.13	3.00	3.13	38,149
Area	—	39.5	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	75,577
Water	—	—	—	—	—	—	—	—	—	—	—	6,539
Waste	—	—	—	—	—	—	—	—	—	—	—	3,621
Refrig.	—	—	—	—	—	—	—	—	—	—	—	103
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	18.3	56.4	10.3	130	0.37	0.14	16.9	17.1	0.13	3.00	3.13	123,990
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.33	3.09	1.89	23.7	0.07	0.03	3.09	3.12	0.02	0.55	0.57	6,316
Area	—	7.21	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	12,513
Water	—	—	—	—	—	—	—	—	—	—	—	1,083
Waste	—	—	—	—	—	—	—	—	—	—	—	600
Refrig.	—	—	—	—	—	—	—	—	—	—	—	17.1
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	3.33	10.3	1.89	23.7	0.07	0.03	3.09	3.12	0.02	0.55	0.57	20,528

2.6. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	24.0	22.2	12.2	178	0.50	0.19	22.0	22.2	0.17	3.90	4.07	51,143
Area	—	39.5	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	76,151
Water	—	—	—	—	—	—	—	—	—	—	—	5,231
Waste	—	—	—	—	—	—	—	—	—	—	—	855
Refrig.	—	—	—	—	—	—	—	—	—	—	—	103
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	24.0	61.7	12.2	178	0.50	0.19	22.0	22.2	0.17	3.90	4.07	133,483
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	24.0	22.2	13.4	165	0.48	0.19	22.0	22.2	0.17	3.90	4.07	48,984
Area	—	39.5	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	76,151
Water	—	—	—	—	—	—	—	—	—	—	—	5,231
Waste	—	—	—	—	—	—	—	—	—	—	—	855
Refrig.	—	—	—	—	—	—	—	—	—	—	—	103
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	24.0	61.7	13.4	165	0.48	0.19	22.0	22.2	0.17	3.90	4.07	131,323
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	18.3	16.9	10.3	130	0.37	0.14	16.9	17.1	0.13	3.00	3.13	38,149
Area	—	39.5	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	75,577
Water	—	—	—	—	—	—	—	—	—	—	—	5,231
Waste	—	—	—	—	—	—	—	—	—	—	—	855

Refrig.	—	—	—	—	—	—	—	—	—	—	—	103
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	18.3	56.4	10.3	130	0.37	0.14	16.9	17.1	0.13	3.00	3.13	119,915
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.33	3.09	1.89	23.7	0.07	0.03	3.09	3.12	0.02	0.55	0.57	6,316
Area	—	7.21	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	12,513
Water	—	—	—	—	—	—	—	—	—	—	—	866
Waste	—	—	—	—	—	—	—	—	—	—	—	141
Refrig.	—	—	—	—	—	—	—	—	—	—	—	17.1
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	3.33	10.3	1.89	23.7	0.07	0.03	3.09	3.12	0.02	0.55	0.57	19,853

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

4.1.2. Mitigated

Mobile source emissions results are presented in Sections 2.5. No further detailed breakdown of emissions is available.

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	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	50,187
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	9,939
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2,745
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	6,188
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	4,905
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	424
undefined	—	—	—	—	—	—	—	—	—	—	—	1,762
Total	—	—	—	—	—	—	—	—	—	—	—	76,151
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	50,187
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	9,939
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2,745
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	6,188
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	4,905
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	424

undefined	—	—	—	—	—	—	—	—	—	—	—	1,762
Total	—	—	—	—	—	—	—	—	—	—	—	76,151
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	8,298
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,646
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	455
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	1,024
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	812
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	70.2
undefined	—	—	—	—	—	—	—	—	—	—	—	208
Total	—	—	—	—	—	—	—	—	—	—	—	12,513

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	50,187
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	9,939
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2,745

Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	6,188
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	4,905
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	424
undefined	—	—	—	—	—	—	—	—	—	—	—	1,762
Total	—	—	—	—	—	—	—	—	—	—	—	76,151
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	50,187
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	9,939
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2,745
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	6,188
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	4,905
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	424
undefined	—	—	—	—	—	—	—	—	—	—	—	1,762
Total	—	—	—	—	—	—	—	—	—	—	—	76,151
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	8,298
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,646

Strip Mall	—	—	—	—	—	—	—	—	—	—	—	455
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	1,024
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	812
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	70.2
undefined	—	—	—	—	—	—	—	—	—	—	—	208
Total	—	—	—	—	—	—	—	—	—	—	—	12,513

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

4.3. Area Emissions by Source

4.3.2. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—

Consumer Products	—	37.1	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.38	—	—	—	—	—	—	—	—	—	—
Total	—	39.5	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	37.1	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.38	—	—	—	—	—	—	—	—	—	—
Total	—	39.5	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.77	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.43	—	—	—	—	—	—	—	—	—	—
Total	—	7.21	—	—	—	—	—	—	—	—	—	—

4.3.1. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	37.1	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.38	—	—	—	—	—	—	—	—	—	—
Total	—	39.5	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—

Consumer Products	—	37.1	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.38	—	—	—	—	—	—	—	—	—	—
Total	—	39.5	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.77	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.43	—	—	—	—	—	—	—	—	—	—
Total	—	7.21	—	—	—	—	—	—	—	—	—	—

4.4. Water Emissions by Land Use

4.4.2. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	4,788
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,553
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	169
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	29.1
Total	—	—	—	—	—	—	—	—	—	—	—	6,539
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	4,788
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,553
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	169
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	29.1
Total	—	—	—	—	—	—	—	—	—	—	—	6,539
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	793
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	257
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	28.0
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	4.82
Total	—	—	—	—	—	—	—	—	—	—	—	1,083

4.4.1. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3,830
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,243
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	135
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	23.3
Total	—	—	—	—	—	—	—	—	—	—	—	5,231
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3,830
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,243
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	135

Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	23.3
Total	—	—	—	—	—	—	—	—	—	—	—	5,231
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	634
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	206
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	22.4
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	3.86
Total	—	—	—	—	—	—	—	—	—	—	—	866

4.5. Waste Emissions by Land Use

4.5.2. 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	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	2,455
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	818
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	236
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	112
Total	—	—	—	—	—	—	—	—	—	—	—	3,621
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	2,455
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	818
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	236
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	112
Total	—	—	—	—	—	—	—	—	—	—	—	3,621

Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	406
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	135
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	39.0
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	18.6
Total	—	—	—	—	—	—	—	—	—	—	—	600

4.5.1. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	579
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	193
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	55.6
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00

Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	26.5
Total	—	—	—	—	—	—	—	—	—	—	—	855
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	579
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	193
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	55.6
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	26.5
Total	—	—	—	—	—	—	—	—	—	—	—	855
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	95.9
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	32.0
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	9.21
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00

Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	4.38
Total	—	—	—	—	—	—	—	—	—	—	—	141

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3.40
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	91.1
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	7.82
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.74
Total	—	—	—	—	—	—	—	—	—	—	—	103
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3.40
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	91.1

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	7.82
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.74
Total	—	—	—	—	—	—	—	—	—	—	—	103
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.56
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	15.1
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	1.29
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.12
Total	—	—	—	—	—	—	—	—	—	—	—	17.1

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3.40
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	91.1
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	7.82
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.74
Total	—	—	—	—	—	—	—	—	—	—	—	103

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3.40
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	91.1
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	7.82
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.74
Total	—	—	—	—	—	—	—	—	—	—	—	103
Annual	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.56
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	15.1
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	1.29
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.12
Total	—	—	—	—	—	—	—	—	—	—	—	17.1

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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—

Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

4.7.2. Mitigated

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

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—
Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—
Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	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	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	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	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	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	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
Total all Land Uses	11,346	3,290	1,098	3,186,867	79,629	23,089	7,703	22,366,001

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	11,346	3,290	1,098	3,186,867	79,629	23,089	7,703	22,366,001

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

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)
0	0.00	2,811,000	937,000	—

5.10.3. Landscape Equipment

Equipment Type	Fuel Type	Number Per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Lawn Mowers	Electric	2.00	8.00	416	3.86	0.36
Leaf Blowers/Vacuums	Electric	3.00	8.00	416	3.86	0.36
Other Lawn & Garden Equipment	Electric	2.00	8.00	416	6.09	0.58
Riding Mowers	Electric	1.00	8.00	416	21.4	0.38

5.10.4. Landscape Equipment - Mitigated

Equipment Type	Fuel Type	Number Per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Lawn Mowers	Electric	2.00	8.00	416	3.86	0.36
Leaf Blowers/Vacuums	Electric	3.00	8.00	416	3.86	0.36
Other Lawn & Garden Equipment	Electric	2.00	8.00	416	6.09	0.58
Riding Mowers	Electric	1.00	8.00	416	21.4	0.38

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)
General Office Building	31,090,850	585	0.0489	0.0069	0.00
Industrial Park	6,166,650	585	0.0489	0.0069	0.00
Strip Mall	1,488,608	585	0.0489	0.0069	0.00
Enclosed Parking with Elevator	3,839,089	585	0.0489	0.0069	0.00
Unenclosed Parking with Elevator	3,043,440	585	0.0489	0.0069	0.00
High Turnover (Sit Down Restaurant)	263,035	585	0.0489	0.0069	0.00
Strip Mall	214,703	585	0.0489	0.0069	0.00

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)
General Office Building	31,090,850	585	0.0489	0.0069	0.00
Industrial Park	6,166,650	585	0.0489	0.0069	0.00
Strip Mall	1,488,608	585	0.0489	0.0069	0.00
Enclosed Parking with Elevator	3,839,089	585	0.0489	0.0069	0.00
Unenclosed Parking with Elevator	3,043,440	585	0.0489	0.0069	0.00
High Turnover (Sit Down Restaurant)	263,035	585	0.0489	0.0069	0.00
Strip Mall	214,703	585	0.0489	0.0069	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)

General Office Building	248,827,247	1,458,669
Industrial Park	80,937,500	0.00
Strip Mall	7,703,542	0.00
Enclosed Parking with Elevator	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00
High Turnover (Sit Down Restaurant)	1,517,669	0.00
Strip Mall	1,111,088	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Office Building	199,061,798	1,166,935
Industrial Park	64,750,000	0.00
Strip Mall	6,162,834	0.00
Enclosed Parking with Elevator	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00
High Turnover (Sit Down Restaurant)	1,214,135	0.00
Strip Mall	888,870	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Office Building	1,302	—
Industrial Park	434	—
Strip Mall	109	—
Enclosed Parking with Elevator	0.00	—
Unenclosed Parking with Elevator	0.00	—

High Turnover (Sit Down Restaurant)	59.5	—
Strip Mall	15.8	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Office Building	307	—
Industrial Park	102	—
Strip Mall	25.8	—
Enclosed Parking with Elevator	0.00	—
Unenclosed Parking with Elevator	0.00	—
High Turnover (Sit Down Restaurant)	14.0	—
Strip Mall	3.72	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Sweepers/Scrubbers	Electric	Average	1.00	2.00	36.0	0.46
Aerial Lifts	Electric	Average	97.0	5.30	25.0	0.31

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Sweepers/Scrubbers	Electric	Average	1.00	2.00	36.0	0.46
Aerial Lifts	Electric	Average	97.0	5.30	25.0	0.31

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type
—	—

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	Consistency with SB 100 Requirements.
Land Use	Landscape Area: Table IV.M.1-6 of the DEIR.
Operations: Energy Use	Compliance with City All Electric Building Ordinance. California Air Pollution Control Officers Association (CAPCOA) Handbook for Analyzing Greenhouse Gas Emissions Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity. Appendix C. Table E-15. December 2021.
Operations: Water and Waste Water	Consistent with indoor water usage in CalEEMod 2020 analysis. New methodology for outdoor in 2022. Larger water use increment than in DEIR.
Operations: Solid Waste	see assumptions
Operations: Architectural Coatings	SCAQMD Rule 1113 Building Envelope Coatings limit of 50 g/L, effective date 1/1/19
Operations: Consumer Products	Appendix D3 of the CalEEMod 2022 User's Guide provides a SCAQMD factor of 1.98E-05 instead of Statewide 2.14E-05. Updating from the 2008 CARB Emission Inventory to 2012 CARB Emission Inventory would further reduce the SCAQMD specific factor to 1.70E-5 (not included in analysis).
Operations: Landscape Equipment	All Electric Landscape Equipment Project Design Feature included as a C&A in the Final EIR.
Operations: Off-Road Equipment	Increase in equipment usage conservatively assumed to increase proportionally with the number of sound stages. All electric equipment commitment is included as Project Design Feature in C&A of this Final EIR.

TVC 2050 Project

Final EIR

Appendix A-4-Threshold Calculations

Step 1. Determine Allowable Increase using 98th percentile NO2 and Max NO2 data

Central Los Angeles Monitoring Data

SRA	City	Design Value 2017-2019	98th percentile, ppb 2019	2020	2021	Threshold (ppb)	Allowable Increase (ppb)
1	Central LA	56	56	55	57	100	44

SRA	City	Design Value 2006-2008	Max Hourly, ppb 2006	2007	2008	Threshold (ppb)	Allowable Increase (ppb)
1	Central LA	120	110	100	120	180	60

Max Hourly vs. 98th Percentile Ratio (Allowable Increase)	74%

Step 2. Use ratio in Step 1 to determine LST lookup value. Extrapolate/Interpolate LST look-up value for project area

LST Threshold (SRA 1, 25 meter receptor)

Project Size (acres)	NO2 (lbs/day)	98th Percentile NO2 (lbs/day)	CO (lbs/day)	PM10 (lbs/day)	PM2.5 (lbs/day)	PM10 Ops (lbs/day)	PM2.5 Ops (lbs/day)
5	161	119	1861	16	8	4	2

TVC 2050 Project

Final EIR

Appendix A-5-Construction

- Television City Detailed Construction Emissions Calculations
- Volatile Organic Compounds (VOC) from Material Movement
- Dewatering Emissions Calculations
- On-site Truck/Vehicle Activity

Television City - Construction Emissions Detailed Calculation

Construction Emissions - Summer

Year	Phase Name	Source	TOG	ROG	NOx	CO	SO2	PM10	PM2.5
			CalEEMod Output						
2024	Building Construction	Off-Road Equipment	0.39	0.39	6.62	23.8	0.04	0.06	0.06
2024	Grading	Dust From Material Movement						5.12	2.63
2024	Grading	Off-Road Equipment	1.88	1.88	17.3	105	0.18	0.35	0.35
2024	Mat Foundation	Off-Road Equipment	0.83	0.74	13.6	18.3	0.03	0.16	0.15
2025	Building Construction	Off-Road Equipment	0.39	0.39	6.62	23.8	0.04	0.06	0.06
2025	Architectural Coatings	Architectural Coatings		28.6					
2025	Architectural Coatings	Off-Road Equipment	0.26	0.26	7.13	12.7	0.02	0.03	0.03
2026	Paving	Off-Road Equipment	0.18	0.18	4.83	8.93	0.01	0.02	0.02
2026	Paving	Paving		1.25					
2026	Architectural Coatings	Architectural Coatings		28.6					
2026	Architectural Coatings	Off-Road Equipment	0.26	0.26	7.13	12.7	0.02	0.03	0.03
2024	Building Construction	Offsite	6.98	6.16	10.26	103.86	0.02	18.5	4.42
2024	Grading	Offsite	7.98	3.30	106.78	66.43	0.58	30.23	8.90
2024	Mat Foundation	Offsite	3.93	1.54	52.38	30.04	0.25	11.22	3.35
2025	Building Construction	Offsite	6.69	5.88	9.46	95.66	0.02	18.5	4.4
2025	Architectural Coatings	Offsite	9.44	8.39	10.92	136.23	0.02	26.03	6.12
2026	Paving	Offsite	0	0	0	0	0	0	0
2026	Architectural Coatings	Offsite	8.22	7.21	9.94	126.16	0.02	26.03	6.12
			Calculated with AP-42, EMFAC						
2023	Demolition	Onsite Road Dust						0.03	0.01
2023	Demolition	Onsite Road Exhaust	0.07		1.29	0.89	0.00	0.00	0.00
2023	Grading	Grading						0.04	0.00
2023	Grading	Onsite Road Dust						3.61	0.46
2023	Grading	Onsite Road Exhaust	0.55		10.29	6.93	0.03	0.01	0.01
2024	Grading	Grading						0.04	0.00
2024	Grading	Onsite Road Dust						3.61	0.46
2024	Grading	Onsite Road Exhaust	0.55		10.29	6.93	0.03	0.01	0.01
2024	Mat Foundation	Onsite Road Dust						1.86	0.24
2024	Mat Foundation	Onsite Road Exhaust	0.83		16.05	10.37	0.04	0.01	0.01
2024	Building Construction	Onsite Road Dust						0.18	0.04
2024	Building Construction	Onsite Road Exhaust	0.13		1.66	1.94	0.01	0.00	0.00
2025	Building Construction	Onsite Road Dust						0.18	0.04
2025	Building Construction	Onsite Road Exhaust	0.13		1.66	1.94	0.01	0.00	0.00
2025	Architectural Coatings	Onsite Road Dust						0.25	0.06
2025	Architectural Coatings	Onsite Road Exhaust	0.13		1.21	2.05	0.01	0.00	0.01
2026	Architectural Coatings	Onsite Road Dust						0.25	0.06
2026	Architectural Coatings	Onsite Road Exhaust	0.13		1.21	2.05	0.01	0.00	0.01
2026	Paving/Landscape	Onsite Road Dust						0.00	0.00

Television City - Construction Emissions Detailed Calculation

Construction Emissions - Summer

Regional Emissions

Emissions by Construction Phase

Year	Phase	TOG	ROG	NOx	CO	SO2	PM10	PM2.5
2024	Building Construction	7.5	6.6	18.5	129.6	0.1	18.7	4.5
2024	Grading	10.4	5.2	134.4	178.4	0.8	39.4	12.4
2024	Mat Foundation	5.6	2.3	82.0	58.7	0.3	13.3	3.8
2025	Building Construction	7.2	6.3	17.7	121.4	0.1	18.7	4.5
2025	Architectural Coatings	9.8	37.3	19.3	151.0	0.0	26.3	6.2
2026	Paving	0.2	1.4	4.8	8.9	0.0	0.0	0.0
2026	Architectural Coatings	8.6	36.1	18.3	140.9	0.0	26.3	6.2
	Additional 100 Employee Trips	0.5	0.4	0.5	7.5	0.0	1.3	0.3

Maximum Emissions with Overlapping Phases

Year	Phase							
2024	No Overlap	10.9	7.0	134.8	185.9	0.8	40.7	12.7
2025	Building Construction / Architectural Coatings	17.0	43.5	37.0	272.4	0.1	45.1	10.7
2026	Architectural Coatings / Paving	8.8	37.5	23.1	149.8	0.1	26.3	6.2

Localized Emissions

Emissions by Construction Phase

Year	Phase	TOG	ROG	NOx	CO	SO2	PM10	PM2.5
2024	Building Construction	0.5	0.4	8.3	25.7	0.0	0.2	0.1
2024	Grading	2.4	1.9	27.6	111.9	0.2	9.1	3.4
2024	Mat Foundation	1.7	0.7	29.6	28.7	0.1	2.0	0.4
2025	Building Construction	0.5	0.4	8.3	25.7	0.0	0.2	0.1
2025	Architectural Coatings	0.4	28.9	8.3	14.7	0.0	0.3	0.1
2026	Paving	0.2	1.4	4.8	8.9	0.0	0.0	0.0
2026	Architectural Coatings	0.4	28.9	8.3	14.7	0.0	0.3	0.1

Maximum Emissions with Overlapping Phases

2024	No Overlap	2.4	1.9	29.6	111.9	0.2	9.1	3.4
2025	Building Construction / Architectural Coatings	0.9	29.3	16.6	40.5	0.1	0.5	0.2
2026	Architectural Coatings / Paving	0.6	30.3	13.2	23.7	0.0	0.3	0.1

Television City - Construction Emissions Detailed Calculation

Construction Emissions - Winter

Year	Phase Name	Source	TOG	ROG	NOx	CO	SO2	PM10	PM2.5
				CalEEMod Output					
2023	Dewatering	Off-Road Equipment	0.5	0.5	2.1	24.3	0.0	0.3	0.1
2023	Demolition	Demolition						4.6	0.7
2023	Demolition	Off-Road Equipment	0.6	0.6	6.1	37.0	0.1	0.1	0.1
2023	Demolition	Offsite	1.2	0.6	12.1	10.9	0.1	3.9	1.1
2023	Grading	Dust From Material Movement						5.1	2.6
2023	Grading	Off-Road Equipment	1.9	1.9	17.3	105.0	0.2	0.4	0.4
2023	Grading	Offsite	8.7	3.3	116.2	65.5	0.6	30.8	8.9
2024	Grading	Dust From Material Movement						5.1	2.6
2024	Grading	Off-Road Equipment	1.9	1.9	17.3	105.0	0.2	0.4	0.4
2024	Grading	Offsite	7.9	3.2	111.0	61.5	0.6	30.2	8.9
2024	Building Construction	Off-Road Equipment	0.4	0.4	6.6	23.8	0.0	0.1	0.1
2024	Building Construction	Offsite	6.9	6.1	11.6	88.0	0.0	18.5	4.4
2025	Building Construction	Off-Road Equipment	0.4	0.4	6.6	23.8	0.0	0.1	0.1
2025	Building Construction	Offsite	6.6	5.8	10.3	81.4	0.0	18.5	4.4
2025	Architectural Coatings	Architectural Coatings		28.6					
2025	Architectural Coatings	Off-Road Equipment	0.3	0.3	7.1	12.7	0.0	0.0	0.0
2025	Architectural Coatings	Offsite	9.4	8.3	12.0	115.3	0.0	26.0	6.1
2026	Architectural Coatings	Architectural Coatings		28.6					
2026	Architectural Coatings	Off-Road Equipment	0.3	0.3	7.1	12.7	0.0	0.0	0.0
2026	Architectural Coatings	Offsite	8.2	7.2	11.0	108.2	0.0	26.0	6.1
				Calculated with AP-42, EMFAC					
2023	Dewatering	Dewatering	0.1	0.1				0.0	0.0
2023	Demolition	Onsite Road Dust						0.0	0.0
2023	Demolition	Onsite Road Exhaust	0.1		1.3	0.9	0.0	0.0	0.0
2023	Grading	Grading						0.0	0.0
2023	Grading	Onsite Road Dust						3.6	0.5
2023	Grading	Onsite Road Exhaust	0.5		10.3	6.9	0.0	0.0	0.0
2024	Grading	Grading						0.0	0.0
2024	Grading	Onsite Road Dust						3.6	0.5
2024	Grading	Onsite Road Exhaust	0.5		10.3	6.9	0.0	0.0	0.0
2024	Building Construction	Onsite Road Dust						0.2	0.0
2024	Building Construction	Onsite Road Exhaust	0.1		1.7	1.9	0.0	0.0	0.0
2025	Building Construction	Onsite Road Dust						0.2	0.0
2025	Building Construction	Onsite Road Exhaust	0.1		1.7	1.9	0.0	0.0	0.0
2025	Architectural Coatings	Onsite Road Dust						0.2	0.1
2025	Architectural Coatings	Onsite Road Exhaust	0.1		1.2	2.0	0.0	0.0	0.0
2026	Architectural Coatings	Onsite Road Dust						0.2	0.1
2026	Architectural Coatings	Onsite Road Exhaust	0.1		1.2	2.0	0.0	0.0	0.0
2026	Paving/Landscape	Onsite Road Dust						0.0	0.0

Regional Emissions

Emissions by Construction Phase

Year	Phase	TOG	ROG	NOx	CO	SO2	PM10	PM2.5
2023	Dewatering	0.6	0.5	2.1	24.3	0.0	0.4	0.1
2023	Demolition	1.9	1.2	19.5	48.8	0.1	8.6	1.9
2023	Grading	11.2	5.2	143.7	177.4	0.8	39.9	12.3
2024	Grading	10.3	5.1	138.6	173.5	0.8	39.4	12.4
2024	Building Construction	7.4	6.5	19.9	113.8	0.1	18.7	4.5
2025	Building Construction	7.1	6.2	18.5	107.1	0.1	18.7	4.5
2025	Architectural Coatings	9.7	37.2	20.3	130.0	0.0	26.3	6.2
2026	Architectural Coatings	8.6	36.0	19.3	122.9	0.0	26.3	6.2
	Additional 100 Employee Trips	0.5	0.4	0.6	6.4	0.0	1.3	0.3

Maximum Emissions with Overlapping Phases

Year	Phase							
2023	Demolition/Grading	13.6	6.9	163.8	232.6	0.9	49.8	14.5
2024	Building Construction/Grading (No Overlap)	10.3	6.5	138.6	173.5	0.8	39.4	12.4
2025	Building Construction/Architectural Coatings (No Overlap)	9.7	37.2	20.3	130.0	0.1	26.3	6.2
2026	Architectural Coatings	8.6	36.0	19.3	122.9	0.0	26.3	6.2

Television City - Construction Emissions Detailed Calculation

Construction Emissions - Winter

Localized Emissions

Emissions by Construction Phase

Year	Phase	TOG	ROG	NOx	CO	SO2	PM10	PM2.5
2023	Dewatering	0.6	0.5	2.1	24.3	0.0	0.4	0.1
2023	Demolition	0.7	0.6	7.4	37.9	0.1	4.7	0.8
2023	Grading	2.4	1.9	27.6	111.9	0.2	9.1	3.4
2024	Grading	2.4	1.9	27.6	111.9	0.2	9.1	3.4
2024	Building Construction	0.5	0.4	8.3	25.7	0.0	0.2	0.1
2025	Building Construction	0.5	0.4	8.3	25.7	0.0	0.2	0.1
2025	Architectural Coatings	0.4	28.9	8.3	14.7	0.0	0.3	0.1
2026	Architectural Coatings	0.4	28.9	8.3	14.7	0.0	0.3	0.1

Maximum Emissions with Overlapping Phases

Year	Phase							
2023	Demolition/Grading	3.1	2.5	35.0	149.8	0.3	13.9	4.3
2024	Building Construction/Grading (No Overlap)	2.4	1.9	27.6	111.9	0.2	9.1	3.4
2025	Building Construction/Architectural Coatings (No Overlap)	0.5	28.9	8.3	25.7	0.0	0.3	0.1
2026	Architectural Coatings	0.4	28.9	8.3	14.7	0.0	0.3	0.1

VOC From Material Movement

CalEEMod Methodology

Excavation / Truck Loading Emissions

Excavation Amount per Day (CY)[a]	322
Excavation Amount per Day (tons)[b]	406
Excavation Amount per Day (kg)	368,063
Gasoline Range Organic Max Concentration (mg/kg)	0.23
GRO Emissions (lbs/day) - Uncontrolled	0.19
Foam Control Efficiency (%)[c]	91%
VOC Emissions (lbs/day) - Controlled	**0.02**

[a] Based on 23 truck loads per day of contaminated soil x 14 cubic yards per load

[b] Based on CalEEMod Default of 1.26 tons/CY

[c] U.S. Environmental Protection Agency, Control of Air Emissions from Superfund Sites, (1992) 108.

Television City

Dewatering Emissions Calculations

Dewatering Volumes

Area	AERMOD Excavation Area	Total Gallons
1	4	3,700,000
2	4	7,500,000
3	4	5,000,000
4A	2	
4B	2	150,000
5	3	100,000
6	1	9,900,000
Total		**26,350,000**

AERMOD Excavation Area	Total Gallons	Total Liters
1	9,900,000	37,471,500
2	150,000	567,750
3	100,000	378,500
4	16,200,000	61,317,000
	26,350,000	99,734,750

Source: Appendix FEIR-13, Dewatering Simulation and Analysis for Temporary Excavation and Underground Parking Structure Construction, of this Final EIR

Dewatering Parameters

Treatment System Parameters		
Flow Rate (gal/day)[a]	72,000	24 hrs/day operation
Flow Rate (L/day)	272,550	
Emission Factor (Release Factor)[b, c]	1%	
Total Dewatering Volume (gal.)[d]	26,400,000	

VOC Calculations

Groundwater Concentrations (ug/L)	Max Detected (ug/L)[e]	Average Detected (ug/L)[e]	Max Daily Emissions (lbs)[f]	Total Emissions (lbs)[f]	Avg Daily Emissions (lbs)[f]
Gasoline Range Organics	160000	12337	1.15	32.56	0.05
Diesel Range Organics	40000	4092	0.29	10.80	0.02
Oil Range Organics	4600	539	0.03	1.42	0.00
Total VOC			1.48	44.78	**0.07**

[a] Based on an initial dewatering system flow rate of 50 gallons per minute which covers the entire site, 24 hours per day. Geosyntec, Evalution--Dewatering Simulation and Analysis for Temporary Excavation and Underground Parking Structure Construction, April 28, 2023.

[b] U.S. Environmental Protection Agency, Overview of Drinking Water Treatment Technologies. https://www.epa.gov/sdwa/overview-drinking-water-treatment-technologies#GAC, accessed May 31, 2023.

[c] Dewatering system would use Granular Activated Carbon (GAC) which could remove up to 99.9% of VOCs. Conservatively assumed 99% removal efficiency as this is less than 99.9%.

[d] Total dewatering volume (rounded up). Assumed for annual emissions calculations.

[e] Memo Estimated Volume of Impacted Soil and Constituents of Potential Concern. Geosyntec Memo, March 13, 2023. Included as Appendix C2 of the Final EIR Health Risk Assessment

[f] As discussed in Appendix FEIR-10, Confirmatory HRA in Response to Comments, of this Final EIR, it was conservatively assumed that the groundwater that is pumped during the temporary construction dewatering efforts on-site would require treatment through a closed-loop system, which would minimize the release of VOCs to the atmosphere during treatment. Water treatment would be performed using a granular activated carbon (GAC) system, which would consist of a holding tank, transfer pumps, filtration units and carbon vessels. The holding tank may be exposed to the atmosphere for brief maintenance activities. All other components of the system would be closed loop and result in minimal emissions during groundwater treatment. VOC emissions from the treatment of groundwater were calculated based on the water flow rate through the holding tank and potential exposure to the atmosphere. In addition, electricity and GHG emissions associated with the GAC system (i.e., two 0.5 hp electric pumps) were calculated within CalEEMod. Please refer to Appendix A.3 of this Confirmatory Analysis for the CalEEMod output files.

On-site Truck/Vehicle Activity

As discussed on page IV.A-41 in Section IV.A, Air Quality, of the Draft EIR, the Project's emissions were estimated using CalEEMod 2020.4.0 software, an emissions inventory software program recommended by SCAQMD. The CalEEMod 2020.4.0 software did not have the ability to calculate on-site vehicle travel emissions. As CalEEMod 2022.1 is able to calculate on-site vehicle travel emissions, on-site vehicular activity (delivery and haul trucks and construction employee trips) is included in this Confirmatory Analysis.

The existing Project Site includes extensive paved surface parking and paved roadways. Project construction will utilize the existing paved network to limit travel on unpaved surfaces, thereby reducing the potential release of fugitive dust emissions. Provided below is a summary of the parameters used for on-site construction truck/vehicle activity. Speed limits and fugitive dust control measures are included as Project Design Features in Section III, Revisions, Clarifications, and Corrections to the Draft EIR.

- Construction employees would travel a maximum of 500 feet (one-way) on paved surfaces to designated paved surface parking areas. Speed limit shall be a maximum of 15 miles per hour (mph). Please refer to Page 872 of Appendix A of this Confirmatory Analysis.

- Construction delivery trucks would travel to designated paved staging areas a maximum of 2,200 feet per delivery (two-way) on paved surfaces. Speed limit shall be a maximum of 15 mph. Please refer to Page 872 of Appendix A of this Confirmatory Analysis.

- Construction haul trucks used for demolition activities would travel to construction debris pickup locations on paved surfaces a maximum of 2,200 feet per haul (two-way) on paved surfaces with limited travel on unpaved surfaces near the active work zone to position for loading/unloading. Speed limit shall be a maximum of 15 mph. Please refer to Page 872 of Appendix A of this Confirmatory Analysis.

- Construction haul trucks used for import/export activities would travel a maximum of 1,600 feet per haul on paved surfaces (two-way), 400 feet per haul on unpaved surfaces (fugitive dust controlled by soil stabilizer), and 200 feet per haul near the active work zone (fugitive dust controlled by watering 3 times daily). Speed limit shall be a maximum of 15 mph on paved surfaces; 10 mph on unpaved surfaces controlled by soil stabilizers; and 5 mph near the active work zone to position for loading/unloading. CalEEMod provides a default control factor of 74 percent for watering of unpaved roads three times daily and

84 percent for application of dust suppressants. Please refer to Page 879 of Appendix A of this Confirmatory Analysis

Emissions from diesel-powered haul trucks traveling on-site were calculated using the CARB EMFAC2021 emissions model.[1] The EMFAC2021 model contains on-road vehicle fleet information (number of vehicles, miles traveled, emissions) based on registration data from the Department of Motor Vehicles.[2] On-site trucks include haul trucks and delivery trucks. EMFAC2021 outputs provide emission factors in terms of grams per mile while traveling or grams per hour of idling time. Emissions also vary by speed and the size of the engine. Consistent with CalEEMod default assumptions for haul trucks, all construction trucks would be diesel powered. Emissions from on-site trucks were calculated for both idle and travel emissions. Calculations were based on emission factors for the EMFAC vehicle class Heavy-Heavy Duty Truck (HHDT) which are trucks with gross vehicle weight of 33,001 lbs and higher. The fleet mix was based on the earliest year of construction contemplated in the Draft EIR (Year 2023) and accounts for the incorporation of Mitigation Measure AIR-MM-2 (limiting truck usage to model years 2010 and newer), which is included in Section IV.A, Air Quality, of the Draft EIR. Therefore, EMFAC emissions factors for the fleet mix only included model years 2010 and newer vehicles.

Idle emissions were based on idle time and the number of trucks operating on-site. Idle time was limited to a maximum of five minutes at a time per the Air Toxics Control Measure adopted by CARB to limit idling toxics emissions.[3] While State regulation limits idling to five minutes at a time, trucks often idle several times on-site (entrance and exit staging areas and during soil loading operations). To account for idling emissions throughout the Project Site, a total of 15 minutes of idling per trip was assumed in the calculation of on-site truck emissions.

Travel emissions were calculated based on the number of truck trips, speed and distance traveled. On-site travel by construction trucks on paved roads were limited to 15 miles per hour (mph) with reduced speeds closer to the active construction area. Specifically, trucks were limited to 10 mph on stabilized unpaved roads and 5 mph on unpaved roads controlled by watering (e.g., active working face of excavation activities). Truck travel distances were measured based on Figure II-4, Conceptual Site Plan, of the Draft EIR.

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1 *California Air Resources Board, Mobile Source Emission Inventory—Current Methods and Data, https://ww2.arb.ca.gov/msei-modeling-tools, accessed November 2023.*

2 *California Air Resources Board, EMFAC2021 Technical Documentation, May 2022.*

3 *Cal. Code Regs. Tit. 13, §2485.*

Emissions from gasoline-powered vehicles resulting from employee vehicle trips were calculated using the CARB EMFAC2021 emission model. Calculations were based on emission factors for the EMFAC vehicle class light-duty-auto (LDA) and light-duty-trucks (LDT1 and LDT2) consistent with CalEEMod default assumptions for employee vehicle trips. The fleet mix was based on the earliest year of construction contemplated in the Draft EIR (Year 2023) and accounted for the number of construction employees evaluated in the Draft EIR. Construction employee on-site speed was assumed to be 10 mph and distances were measured based on Figure II-4, Conceptual Site Plan, in Section II, Project Description, of the Draft EIR.

The calculation of emissions associated with on-site construction truck/vehicle activity is provided below.

Television City - Annual Emissions

Onsite Road Exhaust Calculations

On-site Road Dust Parameters

Worker Trips Length (ft)[a]	500	Travel from street to worker parking. One-way distance
Truck Trip Length (ft) - Paved[b]	950	50% of travel from street to staging area and construction area and back to street. One-way distance
Truck Trip Length (ft) - Unpaved with Soil Stabilizer[c]	200	Travel from on-site paved road to construction area. One-way distance
Truck Trip Length (ft) - Unpaved with Watering Only[c]	100	Travel from unpaved road (soil stabilizer) to material drop off point (active working area) to position for loading/unloading
Idle Time per Truck (min)	15	Assumed 5 minutes at check in + 5 minutes to load/unload + 5 minutes check out.

[a] Distances measured using Google Earth. Workers would access the site from Beverly Boulevard on to Genesee Avenue. Parking would be located at the northern portion of the site.

[b] Distances measured using Google Earth. Trucks would enter from Fairfax Avenue to the staging area, then exit on Beverly Boulevard.

[c] Assumed length of unpaved segment during construction activities

On-site Travel Distances

			Total Distance Travelled per Day (mi)			
Phase Name	Trip Type	One-Way Trips per Day	Paved	Unpaved with Soil Stabilizer	Unpaved with Watering Only	Total Idle Time per Day (hr)
Demolition	Worker	100	18.9			
Demolition	Hauling	80	28.8	6.1	3.0	10
Mat Foundation	Worker	100	18.9			
Mat Foundation	Vendor	1000	359.8	75.8	37.9	125
Grading/Foundation	Worker	490	92.8			
Grading/Foundation	Vendor	40	14.4	3.0	1.5	5
Grading/Foundation	Hauling	600	215.9	45.5	22.7	75
Building Construction	Worker	1350	255.7			
Building Construction	Vendor	100	36.0	7.6	3.8	13
Finishing/Architectural Coating/Paving/Landscaping	Worker	1940	367.4			
Finishing/Architectural Coating/Paving/Landscaping	Vendor	70	25.2	5.3	2.7	9

Note: Grading/Foundation (referred to as Excavation/Foundations in Draft EIR); Building Construction (referred to as Structure/Enclosure in Draft EIR); Finishing/Architectural Coating (referred to as Architectural Coating/Finishing in Draft EIR)

Vehicle Emission Factors[d]

	TOG	CO	NOx	PM10	PM2_5	SOx
HHDT Emission Factors @ 15 mph (g/mi)	0.04	0.41	4.88	0.01	0.01	0.02
HHDT Emission Factors @ 10 mph (g/mi)	0.08	0.76	7.36	0.01	0.01	0.03
HHDT Emission Factors @ 5 mph (g/mi)	0.14	1.22	10.24	0.01	0.01	0.03
LDA, LDT1, LDT2 Emission Factors @ 10 mph (g/mi)	0.08	1.62	0.10	0.00	0.01	0.01
HHDT Emission Factors - Idle (g/hr)	2.7	34.4	29.5	0.0	0.0	0.1

[d] EMFAC2021 v. 1.0.2. California Air Resources Board. Included in Appendix A-6 of this Confirmatory Analysis

On-site Vehicle Emission Calculations

		Paved Road Travel (15 MPH)					
Phase Name	Trip Type	TOG	CO	NOx	PM10	PM2_5	SOx
Demolition	Worker	0.00	0.07	0.00	0.00	0.00	0.00
Demolition	Hauling	0.00	0.05	0.47	0.00	0.00	0.00
Mat Foundation	Worker	0.00	0.07	0.00	0.00	0.00	0.00
Mat Foundation	Vendor	0.06	0.60	5.84	0.01	0.01	0.02
Grading/Foundation	Worker	0.02	0.33	0.02	0.00	0.00	0.00
Grading/Foundation	Vendor	0.00	0.02	0.23	0.00	0.00	0.00
Grading/Foundation	Hauling	0.04	0.36	3.50	0.00	0.00	0.01
Building Construction	Worker	0.05	0.91	0.06	0.00	0.00	0.00
Building Construction	Vendor	0.01	0.06	0.58	0.00	0.00	0.00
Finishing/Architectural Coating/Paving/Landscaping	Worker	0.07	1.31	0.08	0.00	0.00	0.00
Finishing/Architectural Coating/Paving/Landscaping	Vendor	0.00	0.04	0.41	0.00	0.00	0.00

		Unpaved Road (Soil Stabilizer) - 10 MPH					
Phase Name	Trip Type	TOG	CO	NOx	PM10	PM2_5	SOx
Demolition	Worker						
Demolition	Hauling	0.00	0.01	0.10	0.00	0.00	0.00
Mat Foundation	Worker						
Mat Foundation	Vendor	0.01	0.13	1.23	0.00	0.00	0.00
Grading/Foundation	Worker						
Grading/Foundation	Vendor	0.00	0.01	0.05	0.00	0.00	0.00
Grading/Foundation	Hauling	0.01	0.08	0.74	0.00	0.00	0.00
Building Construction	Worker						
Building Construction	Vendor	0.00	0.01	0.12	0.00	0.00	0.00
Finishing/Architectural Coating/Paving/Landscaping	Worker						
Finishing/Architectural Coating/Paving/Landscaping	Vendor	0.00	0.01	0.09	0.00	0.00	0.00

On-site Vehicle Emission Calculations

		Unpaved Road (Watering Only) - 5 MPH					
Phase Name	**Trip Type**	**TOG**	**CO**	**NOx**	**PM10**	**PM2_5**	**SOx**
Demolition	Worker						
Demolition	Hauling	0.00	0.01	0.07	0.00	0.00	0.00
Mat Foundation	Worker						
Mat Foundation	Vendor	0.01	0.10	0.86	0.00	0.00	0.00
Grading/Foundation	Worker						
Grading/Foundation	Vendor	0.00	0.00	0.03	0.00	0.00	0.00
Grading/Foundation	Hauling	0.01	0.06	0.51	0.00	0.00	0.00
Building Construction	Worker						
Building Construction	Vendor	0.00	0.01	0.09	0.00	0.00	0.00
Finishing/Architectural Coating/Paving/Landscaping	Worker						
Finishing/Architectural Coating/Paving/Landscaping	Vendor	0.00	0.01	0.06	0.00	0.00	0.00

		Idle Emissions					
Phase Name	**Trip Type**	**TOG**	**CO**	**NOx**	**PM10**	**PM2_5**	**SOx**
Demolition	Worker						
Demolition	Hauling	0.06	0.76	0.65	0.00	0.00	0.00
Mat Foundation	Worker						
Mat Foundation	Vendor	0.74	9.47	8.12	0.00	0.00	0.01
Grading/Foundation	Worker						
Grading/Foundation	Vendor	0.03	0.38	0.32	0.00	0.00	0.00
Grading/Foundation	Hauling	0.45	5.68	4.87	0.00	0.00	0.01
Building Construction	Worker						
Building Construction	Vendor	0.07	0.95	0.81	0.00	0.00	0.00
Finishing/Architectural Coating/Paving/Landscaping	Worker						
Finishing/Architectural Coating/Paving/Landscaping	Vendor	0.05	0.66	0.57	0.00	0.00	0.00

		Total On-site Vehicle Exhaust					
Phase Name	**Trip Type**	**TOG**	**CO**	**NOx**	**PM10**	**PM2_5**	**SOx**
Demolition	Worker	0.00	0.07	0.00	0.00	0.00	0.00
Demolition	Hauling	0.07	0.82	1.28	0.00	0.00	0.00
Mat Foundation	Worker	0.00	0.07	0.00	0.00	0.00	0.00
Mat Foundation	Vendor	0.83	10.30	16.04	0.01	0.01	0.04
Grading/Foundation	Worker	0.02	0.33	0.02	0.00	0.00	0.00
Grading/Foundation	Vendor	0.03	0.41	0.64	0.00	0.00	0.00
Grading/Foundation	Hauling	0.50	6.18	9.62	0.01	0.01	0.03
Building Construction	Worker	0.05	0.91	0.06	0.00	0.00	0.00
Building Construction	Vendor	0.08	1.03	1.60	0.00	0.00	0.00
Finishing/Architectural Coating/Paving/Landscaping	Worker	0.07	1.31	0.08	0.00	0.00	0.00
Finishing/Architectural Coating/Paving/Landscaping	Vendor	0.06	0.72	1.12	0.00	0.00	0.00

EMFAC2021 - Project Level (PL) Output
Los Angeles County - South Coast

Construction Year	2023		TOG	CO	NOx	PM10	PM2_5	SOx
		Idle Emissions (g/hr)	2.7	34.4	29.5	0.0	0.0	0.1
		Cold Start (g/start)			18.5			
		Warm Start (g/start)			0.1			

Idle Emission Rates (g/hr)

calendar_year	season_mo	sub_area	vehicle_cla	fuel	temperatu	relative_hu	process	speed_time	pollutant	emission_rate
2021	Annual	Los Angele	HHDT	Dsl			IDLEX		HC	1.878065251
2021	Annual	Los Angele	HHDT	Dsl			IDLEX		CO	31.71824547
2021	Annual	Los Angele	HHDT	Dsl			IDLEX		NOx	33.23248721
2021	Annual	Los Angele	HHDT	Dsl			IDLEX		SOx	0.057366613
2021	Annual	Los Angele	HHDT	Dsl			IDLEX		PM	0.022299135
2021	Annual	Los Angele	HHDT	Dsl			IDLEX		TOG	2.707606672
2021	Annual	Los Angele	HHDT	Dsl			IDLEX		ROG	2.378381833
2021	Annual	Los Angele	HHDT	Dsl			IDLEX		CO2	6012.977142
2021	Annual	Los Angele	HHDT	Dsl			IDLEX		CH4	0.110469676
2021	Annual	Los Angele	HHDT	Dsl			IDLEX		PM10	0.022165341
2021	Annual	Los Angele	HHDT	Dsl			IDLEX		PM2_5	0.021206478
2022	Annual	Los Angele	HHDT	Dsl			IDLEX		HC	1.871852779
2022	Annual	Los Angele	HHDT	Dsl			IDLEX		CO	32.29138187
2022	Annual	Los Angele	HHDT	Dsl			IDLEX		NOx	32.16791672
2022	Annual	Los Angele	HHDT	Dsl			IDLEX		SOx	0.056148725
2022	Annual	Los Angele	HHDT	Dsl			IDLEX		PM	0.019063159
2022	Annual	Los Angele	HHDT	Dsl			IDLEX		TOG	2.698650152
2022	Annual	Los Angele	HHDT	Dsl			IDLEX		ROG	2.370514359
2022	Annual	Los Angele	HHDT	Dsl			IDLEX		CO2	5885.322183
2022	Annual	Los Angele	HHDT	Dsl			IDLEX		CH4	0.110104252
2022	Annual	Los Angele	HHDT	Dsl			IDLEX		PM10	0.01894878
2022	Annual	Los Angele	HHDT	Dsl			IDLEX		PM2_5	0.018129064
2023	Annual	Los Angele	HHDT	Dsl			IDLEX		HC	1.87042469
2023	Annual	Los Angele	HHDT	Dsl			IDLEX		CO	34.37638574
2023	Annual	Los Angele	HHDT	Dsl			IDLEX		NOx	29.46575102
2023	Annual	Los Angele	HHDT	Dsl			IDLEX		SOx	0.053715021
2023	Annual	Los Angele	HHDT	Dsl			IDLEX		PM	0.017149315
2023	Annual	Los Angele	HHDT	Dsl			IDLEX		TOG	2.696591275
2023	Annual	Los Angele	HHDT	Dsl			IDLEX		ROG	2.368705827
2023	Annual	Los Angele	HHDT	Dsl			IDLEX		CO2	5630.229407
2023	Annual	Los Angele	HHDT	Dsl			IDLEX		CH4	0.110020251
2023	Annual	Los Angele	HHDT	Dsl			IDLEX		PM10	0.017046419
2023	Annual	Los Angele	HHDT	Dsl			IDLEX		PM2_5	0.016308999
2024	Annual	Los Angele	HHDT	Dsl			IDLEX		HC	1.869741699
2024	Annual	Los Angele	HHDT	Dsl			IDLEX		CO	34.44921949
2024	Annual	Los Angele	HHDT	Dsl			IDLEX		NOx	29.04218904
2024	Annual	Los Angele	HHDT	Dsl			IDLEX		SOx	0.052835847
2024	Annual	Los Angele	HHDT	Dsl			IDLEX		PM	0.016166697
2024	Annual	Los Angele	HHDT	Dsl			IDLEX		TOG	2.695606607
2024	Annual	Los Angele	HHDT	Dsl			IDLEX		ROG	2.367840888
2024	Annual	Los Angele	HHDT	Dsl			IDLEX		CO2	5538.077324
2024	Annual	Los Angele	HHDT	Dsl			IDLEX		CH4	0.109980076
2024	Annual	Los Angele	HHDT	Dsl			IDLEX		PM10	0.016069697
2024	Annual	Los Angele	HHDT	Dsl			IDLEX		PM2_5	0.015374529
2025	Annual	Los Angele	HHDT	Dsl			IDLEX		HC	1.86928828
2025	Annual	Los Angele	HHDT	Dsl			IDLEX		CO	34.5091758
2025	Annual	Los Angele	HHDT	Dsl			IDLEX		NOx	28.48737632
2025	Annual	Los Angele	HHDT	Dsl			IDLEX		SOx	0.051959089
2025	Annual	Los Angele	HHDT	Dsl			IDLEX		PM	0.015387609
2025	Annual	Los Angele	HHDT	Dsl			IDLEX		TOG	2.694952913
2025	Annual	Los Angele	HHDT	Dsl			IDLEX		ROG	2.367266677
2025	Annual	Los Angele	HHDT	Dsl			IDLEX		CO2	5446.178479
2025	Annual	Los Angele	HHDT	Dsl			IDLEX		CH4	0.109953406
2025	Annual	Los Angele	HHDT	Dsl			IDLEX		PM10	0.015295283

2025	Annual	Los Angele	HHDT	Dsl		IDLEX	PM2_5	0.014633616
2026	Annual	Los Angele	HHDT	Dsl		IDLEX	HC	1.868768251
2026	Annual	Los Angele	HHDT	Dsl		IDLEX	CO	34.56273286
2026	Annual	Los Angele	HHDT	Dsl		IDLEX	NOx	27.89060032
2026	Annual	Los Angele	HHDT	Dsl		IDLEX	SOx	0.051103441
2026	Annual	Los Angele	HHDT	Dsl		IDLEX	PM	0.014640721
2026	Annual	Los Angele	HHDT	Dsl		IDLEX	TOG	2.694203187
2026	Annual	Los Angele	HHDT	Dsl		IDLEX	ROG	2.366608113
2026	Annual	Los Angele	HHDT	Dsl		IDLEX	CO2	5356.492297
2026	Annual	Los Angele	HHDT	Dsl		IDLEX	CH4	0.109922817
2026	Annual	Los Angele	HHDT	Dsl		IDLEX	PM10	0.014552876
2026	Annual	Los Angele	HHDT	Dsl		IDLEX	PM2_5	0.013923325

Start Emission Rates (g/start)

calendar_year	season_mo	sub_area	vehicle_cla	fuel	temperatu	relative_hu	process	speed_time	pollutant	emission_rate
2021	Annual	Los Angele	HHDT	Dsl			STREX	5	NOx	0.084850293
2021	Annual	Los Angele	HHDT	Dsl			STREX	720	NOx	15.3378187
2022	Annual	Los Angele	HHDT	Dsl			STREX	5	NOx	0.074689716
2022	Annual	Los Angele	HHDT	Dsl			STREX	720	NOx	16.28214019
2023	Annual	Los Angele	HHDT	Dsl			STREX	5	NOx	0.057423126
2023	Annual	Los Angele	HHDT	Dsl			STREX	720	NOx	18.52191972
2024	Annual	Los Angele	HHDT	Dsl			STREX	5	NOx	0.049382658
2024	Annual	Los Angele	HHDT	Dsl			STREX	720	NOx	18.54962055
2025	Annual	Los Angele	HHDT	Dsl			STREX	5	NOx	0.043126025
2025	Annual	Los Angele	HHDT	Dsl			STREX	720	NOx	18.51
2026	Annual	Los Angele	HHDT	Dsl			STREX	5	NOx	0.037834491
2026	Annual	Los Angele	HHDT	Dsl			STREX	720	NOx	18.43050887

Regional Idle Rates (g/trip)

Region	Calendar Y	Vehicle Cat	Model Yea	Speed	Fuel	TOG_IDLEX	CO_IDLEX	NOx_IDLEX	PM10_IDLE	PM2.5_IDLEX
South Coast	2022	HHDT	Aggregate	Aggregate	Diesel	0.392545	4.714274	4.663536	0.002664	0.002548787
South Coast	2023	HHDT	Aggregate	Aggregate	Diesel	0.390864	4.988727	4.262406	0.002392	0.002288933
South Coast	2024	HHDT	Aggregate	Aggregate	Diesel	0.388288	4.967242	4.175353	0.002251	0.002153345
South Coast	2025	HHDT	Aggregate	Aggregate	Diesel	0.386492	4.953494	4.07704	0.002138	0.002045511
South Coast	2026	HHDT	Aggregate	Aggregate	Diesel	0.385275	4.946328	3.979593	0.002035	0.00194666
South Coast	2027	HHDT	Aggregate	Aggregate	Diesel	0.38458	4.944557	3.890746	0.00195	0.001866037
South Coast	2028	HHDT	Aggregate	Aggregate	Diesel	0.384307	4.947143	3.811702	0.00188	0.001798842
South Coast	2029	HHDT	Aggregate	Aggregate	Diesel	0.384325	4.953463	3.744733	0.001807	0.001729085
South Coast	2030	HHDT	Aggregate	Aggregate	Diesel	0.384657	4.963157	3.694074	0.001744	0.001668304
South Coast	2031	HHDT	Aggregate	Aggregate	Diesel	0.385508	4.978978	3.6576	0.001691	0.001617815
South Coast	2032	HHDT	Aggregate	Aggregate	Diesel	0.386678	4.997861	3.627229	0.001655	0.001583531
South Coast	2033	HHDT	Aggregate	Aggregate	Diesel	0.388033	5.018767	3.601027	0.001625	0.001554924
South Coast	2034	HHDT	Aggregate	Aggregate	Diesel	0.389541	5.041613	3.578307	0.001594	0.001525469
South Coast	2035	HHDT	Aggregate	Aggregate	Diesel	0.391126	5.064663	3.560299	0.001574	0.00150565
South Coast	2036	HHDT	Aggregate	Aggregate	Diesel	0.39318	5.093121	3.54963	0.001564	0.001496023
South Coast	2037	HHDT	Aggregate	Aggregate	Diesel	0.395247	5.121316	3.542644	0.001558	0.001490931
South Coast	2038	HHDT	Aggregate	Aggregate	Diesel	0.397306	5.149225	3.538721	0.001555	0.001487494
South Coast	2039	HHDT	Aggregate	Aggregate	Diesel	0.399342	5.176725	3.5372	0.001552	0.001484954
South Coast	2040	HHDT	Aggregate	Aggregate	Diesel	0.401361	5.203926	3.538025	0.00155	0.001482717
South Coast	2041	HHDT	Aggregate	Aggregate	Diesel	0.403361	5.230762	3.541088	0.001549	0.001481586
South Coast	2042	HHDT	Aggregate	Aggregate	Diesel	0.405311	5.256742	3.546284	0.001549	0.001482219
South Coast	2043	HHDT	Aggregate	Aggregate	Diesel	0.407205	5.281873	3.552966	0.001551	0.001484059
South Coast	2044	HHDT	Aggregate	Aggregate	Diesel	0.409056	5.306443	3.560583	0.001553	0.001485402
South Coast	2045	HHDT	Aggregate	Aggregate	Diesel	0.41083	5.329951	3.569406	0.001554	0.001487053
South Coast	2046	HHDT	Aggregate	Aggregate	Diesel	0.412529	5.352442	3.578857	0.001556	0.001488673
South Coast	2047	HHDT	Aggregate	Aggregate	Diesel	0.414147	5.373814	3.589131	0.001558	0.001490895
South Coast	2048	HHDT	Aggregate	Aggregate	Diesel	0.415676	5.393925	3.59972	0.001561	0.001493827
South Coast	2049	HHDT	Aggregate	Aggregate	Diesel	0.417104	5.412681	3.610347	0.001565	0.001497018
South Coast	2050	HHDT	Aggregate	Aggregate	Diesel	0.418444	5.4303	3.620407	0.001568	0.001499767

Source: EMFAC2021 (v1.0.2) Emissions Inventory
Region Type: Air Basin
Region: South Coast
Calendar Year: 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, tons/day for Emissions, 1000 gallons/day for Fuel Consumption, mph for Speed, kWh/day for Energy Consumption

Construction Year 2023
Truck Model Year 2010+ Consitent with Mitigation Measure AIR-MM-2
Fuel Type Diesel

Totals	12,806		0.1	0.0	0.0	39.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.0			
g/mi			7.36	0.01	0.01	2761.02	0.00	0.44	0.07	0.08	0.76	0.03	0.22	0.14	0.05	246.64	0.00			

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Total VMT	CVMT	EVMT	NOx	PM2.5	PM10	CO2	CH4	N2O	ROG	TOG	CO	SOX	NH3	PM10_PMBW	PM2.5_PMBW	Fuel Consumption	Energy Consumption
South Coast	2023	HHDT	2010	10	Diesel	5.3	5.3	0	7.1E-05	1.6E-07	1.7E-07	2.2E-02	2.2E-07	3.5E-06	4.7E-06	5.3E-06	1.3E-05	2.1E-07	2.2E-07	8.7E-07	3.0E-07	2.0E-03	0.0E+00
South Coast	2023	HHDT	2011	10	Diesel	256.7	256.7	0	3.2E-03	5.9E-06	6.2E-06	9.4E-01	6.4E-06	1.5E-04	1.4E-04	1.6E-04	6.7E-04	8.9E-06	6.2E-05	3.9E-05	1.4E-05	8.4E-02	0.0E+00
South Coast	2023	HHDT	2012	10	Diesel	742.6	742.6	0	8.2E-03	8.1E-06	8.5E-06	2.8E+00	3.5E-06	4.4E-04	7.4E-05	8.5E-05	1.2E-03	2.6E-05	1.8E-04	1.1E-04	3.9E-05	2.5E-01	0.0E+00
South Coast	2023	HHDT	2013	10	Diesel	815.1	815.1	0	8.9E-03	8.6E-06	9.0E-06	2.9E+00	3.7E-06	4.5E-04	8.0E-05	9.1E-05	1.3E-03	2.7E-05	2.0E-04	1.2E-04	4.3E-05	2.6E-01	0.0E+00
South Coast	2023	HHDT	2014	10	Diesel	1038.0	1038.0	0	8.7E-03	1.1E-05	1.1E-05	3.3E+00	3.4E-06	5.2E-04	7.3E-05	8.4E-05	9.6E-04	3.2E-05	2.5E-04	1.6E-04	5.5E-05	3.0E-01	0.0E+00
South Coast	2023	HHDT	2015	10	Diesel	1453.3	1453.3	0	1.2E-02	1.5E-05	1.6E-05	4.7E+00	4.7E-06	7.3E-04	1.0E-04	1.2E-04	1.3E-03	4.4E-05	3.5E-04	2.2E-04	7.7E-05	4.2E-01	0.0E+00
South Coast	2023	HHDT	2016	10	Diesel	1502.7	1502.7	0	1.3E-02	1.6E-05	1.6E-05	4.8E+00	4.9E-06	7.6E-04	1.1E-04	1.2E-04	1.4E-03	4.6E-05	3.6E-04	2.3E-04	8.0E-05	4.3E-01	0.0E+00
South Coast	2023	HHDT	2017	10	Diesel	955.8	955.8	0	7.7E-03	8.6E-06	9.0E-06	2.9E+00	2.8E-06	4.6E-04	6.0E-05	6.8E-05	5.6E-04	2.8E-05	2.3E-04	1.4E-04	5.1E-05	2.6E-01	0.0E+00
South Coast	2023	HHDT	2018	10	Diesel	763.3	763.3	0	6.2E-03	7.0E-06	7.3E-06	2.3E+00	2.2E-06	3.6E-04	4.8E-05	5.5E-05	4.5E-04	2.1E-05	1.9E-04	1.2E-04	4.0E-05	2.0E-01	0.0E+00
South Coast	2023	HHDT	2019	10	Diesel	1145.5	1145.5	0	8.9E-03	9.6E-06	1.0E-05	3.4E+00	3.2E-06	5.4E-04	6.9E-05	7.8E-05	6.5E-04	3.2E-05	2.8E-04	1.7E-04	6.1E-05	3.0E-01	0.0E+00
South Coast	2023	HHDT	2020	10	Diesel	1120.0	1120.0	0	8.3E-03	8.8E-06	9.2E-06	3.3E+00	3.0E-06	5.2E-04	6.5E-05	7.4E-05	6.1E-04	3.1E-05	2.7E-04	1.7E-04	5.9E-05	3.0E-01	0.0E+00
South Coast	2023	HHDT	2021	10	Diesel	1024.3	1024.3	0	7.2E-03	7.3E-06	7.6E-06	2.6E+00	2.6E-06	4.1E-04	5.7E-05	6.5E-05	5.3E-04	2.5E-05	2.5E-04	1.5E-04	5.4E-05	2.3E-01	0.0E+00
South Coast	2023	HHDT	2022	10	Diesel	1029.7	1029.7	0	6.6E-03	6.5E-06	6.7E-06	2.6E+00	2.5E-06	4.1E-04	5.4E-05	6.1E-05	5.1E-04	2.5E-05	2.5E-04	1.6E-04	5.4E-05	2.3E-01	0.0E+00
South Coast	2023	HHDT	2023	10	Diesel	768.8	768.8	0	4.3E-03	4.1E-06	4.3E-06	2.0E+00	1.8E-06	3.1E-04	3.8E-05	4.3E-05	3.6E-04	1.9E-05	1.9E-04	1.2E-04	4.1E-05	1.8E-01	0.0E+00
South Coast	2023	HHDT	2024	10	Diesel	184.9	184.9	0	8.1E-04	8.4E-07	8.7E-07	4.4E-01	4.0E-07	6.9E-05	8.5E-06	9.7E-06	8.0E-05	4.2E-06	4.5E-05	2.8E-05	9.8E-06	3.9E-02	0.0E+00

Summary
Year 2023

TOG	CO	NOx	PM10	PM2_5	SOx	CO2
7.9E-02	7.6E-01	7.4E+00	8.7E-03	8.3E-03	2.6E-02	2.8E+03

Construction Year 2023 2010 AND NEWER ONLY
Truck Model Year 2010+
Fuel Type Diesel

Totals	685		0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0			
g/mi			10.24	0.01	0.01	3227.92	0.01	0.51	0.12	0.14	1.22	0.03	0.22	0.14	0.05	288.35	0.00			

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Total VMT	CVMT	EVMT	NOx	PM2.5	PM10	CO2	CH4	N2O	ROG	TOG	CO	SOX	NH3	PM10_PMBW	PM2.5_PMBW	Fuel Consumption	Energy Consumption
South Coast	2023	HHDT	2010	5	Diesel	0.3	0.3	0	4.5E-06	9.8E-09	1.0E-08	1.4E-03	1.5E-08	2.2E-07	3.3E-07	3.7E-07	9.4E-07	1.3E-08	1.2E-08	4.7E-08	1.7E-08	1.3E-04	0.0E+00
South Coast	2023	HHDT	2011	5	Diesel	13.6	13.6	0	2.1E-04	3.5E-07	3.7E-07	6.0E-02	5.2E-07	9.4E-06	1.1E-05	1.3E-05	5.6E-05	5.6E-07	3.3E-06	2.1E-06	7.2E-07	5.3E-03	0.0E+00
South Coast	2023	HHDT	2012	5	Diesel	39.0	39.0	0	5.3E-04	4.9E-07	5.1E-07	1.8E-01	2.9E-07	2.8E-05	6.2E-06	7.1E-06	1.1E-04	1.7E-06	9.5E-06	5.9E-06	2.1E-06	1.6E-02	0.0E+00
South Coast	2023	HHDT	2013	5	Diesel	42.9	42.9	0	5.9E-04	5.2E-07	5.4E-07	1.8E-01	3.1E-07	2.9E-05	6.7E-06	7.7E-06	1.1E-04	1.7E-06	1.0E-05	6.5E-06	2.3E-06	1.6E-02	0.0E+00
South Coast	2023	HHDT	2014	5	Diesel	54.4	54.4	0	6.5E-04	6.4E-07	6.7E-07	2.0E-01	3.2E-07	3.2E-05	6.8E-06	7.7E-06	8.1E-05	1.9E-06	1.3E-05	8.2E-06	2.9E-06	1.8E-02	0.0E+00
South Coast	2023	HHDT	2015	5	Diesel	76.6	76.6	0	9.2E-04	8.9E-07	9.3E-07	2.9E-01	4.4E-07	4.5E-05	9.5E-06	1.1E-05	1.1E-04	2.7E-06	1.9E-05	1.2E-05	4.1E-06	2.6E-02	0.0E+00
South Coast	2023	HHDT	2016	5	Diesel	79.6	79.6	0	9.5E-04	9.3E-07	9.7E-07	3.0E-01	4.6E-07	4.7E-05	9.9E-06	1.1E-05	1.2E-04	2.8E-06	1.9E-05	1.2E-05	4.2E-06	2.7E-02	0.0E+00
South Coast	2023	HHDT	2017	5	Diesel	50.7	50.7	0	5.9E-04	5.7E-07	6.0E-07	1.8E-01	2.7E-07	2.9E-05	5.9E-06	6.7E-06	4.8E-05	1.7E-06	1.2E-05	7.7E-06	2.7E-06	1.6E-02	0.0E+00
South Coast	2023	HHDT	2018	5	Diesel	41.2	41.2	0	4.8E-04	4.7E-07	4.9E-07	1.4E-01	2.2E-07	2.2E-05	4.8E-06	5.5E-06	4.0E-05	1.3E-06	1.0E-05	6.2E-06	2.2E-06	1.3E-02	0.0E+00
South Coast	2023	HHDT	2019	5	Diesel	61.4	61.4	0	6.8E-04	6.5E-07	6.8E-07	2.1E-01	3.2E-07	3.3E-05	6.9E-06	7.9E-06	5.7E-05	2.0E-06	1.5E-05	9.3E-06	3.3E-06	1.9E-02	0.0E+00
South Coast	2023	HHDT	2020	5	Diesel	61.1	61.1	0	6.5E-04	5.9E-07	6.2E-07	2.1E-01	3.1E-07	3.3E-05	6.6E-06	7.5E-06	5.4E-05	2.0E-06	1.5E-05	9.2E-06	3.2E-06	1.9E-02	0.0E+00
South Coast	2023	HHDT	2021	5	Diesel	55.9	55.9	0	5.6E-04	5.0E-07	5.2E-07	1.7E-01	2.7E-07	2.6E-05	5.8E-06	6.6E-06	4.7E-05	1.6E-06	1.4E-05	8.4E-06	3.0E-06	1.5E-02	0.0E+00
South Coast	2023	HHDT	2022	5	Diesel	56.1	56.1	0	5.1E-04	4.4E-07	4.6E-07	1.7E-01	2.5E-07	2.6E-05	5.5E-06	6.2E-06	4.5E-05	1.6E-06	1.4E-05	8.5E-06	3.0E-06	1.5E-02	0.0E+00
South Coast	2023	HHDT	2023	5	Diesel	42.0	42.0	0	3.3E-04	2.8E-07	2.9E-07	1.2E-01	1.8E-07	2.0E-05	3.8E-06	4.4E-06	3.2E-05	1.2E-06	1.0E-05	6.4E-06	2.2E-06	1.1E-02	0.0E+00
South Coast	2023	HHDT	2024	5	Diesel	10.2	10.2	0	6.4E-05	5.7E-08	6.0E-08	2.8E-02	4.1E-08	4.4E-06	8.7E-07	9.9E-07	7.2E-06	2.7E-07	2.5E-06	1.5E-06	5.4E-07	2.5E-03	0.0E+00

Summary
Year 2023

TOG	CO	NOx	PM10	PM2_5	SOx	CO2
1.4E-01	1.2E+00	1.0E+01	1.0E-02	9.8E-03	3.1E-02	3.2E+03

Construction Year **2023** **2010 AND NEWER ONLY**
Truck Model Year **2010+**
Fuel Type **Diesel**

Totals	33,832		0.2	0.0	0.0	84.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	0.0	
g/mi			4.88	0.01	0.01	2262.54	0.00	0.36	0.03	0.04	0.41	0.02	0.22	0.14	0.05	202.11	0.00		

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Total VMT	CVMT	EVMT	NOx	PM2.5	PM10	CO2	CH4	N2O	ROG	TOG	CO	SOX	NH3	PM10_PMBW	PM2.5_PMBW	Fuel Consumption	Energy Consumption
South Coast	2023	HHDT	2010	15	Diesel	14.5	14.5	0	1.5E-04	3.8E-07	3.9E-07	5.2E-02	4.0E-07	8.2E-06	8.6E-06	9.8E-06	2.5E-05	4.9E-07	6.1E-07	2.4E-06	8.2E-07	4.6E-03	0.0E+00
South Coast	2023	HHDT	2011	15	Diesel	678.1	678.1	0	6.5E-03	1.3E-05	1.3E-05	2.0E+00	9.7E-06	3.1E-04	2.1E-04	2.4E-04	1.0E-03	1.9E-05	1.6E-04	1.0E-04	3.5E-05	1.8E-01	0.0E+00
South Coast	2023	HHDT	2012	15	Diesel	1955.2	1955.2	0	1.6E-02	1.7E-05	1.8E-05	5.8E+00	5.1E-06	9.1E-04	1.1E-04	1.2E-04	1.8E-03	5.5E-05	4.7E-04	2.9E-04	1.0E-04	5.2E-01	0.0E+00
South Coast	2023	HHDT	2013	15	Diesel	2141.0	2141.0	0	1.8E-02	1.8E-05	1.9E-05	5.9E+00	5.4E-06	9.3E-04	1.2E-04	1.3E-04	1.9E-03	5.6E-05	5.2E-04	3.2E-04	1.1E-04	5.3E-01	0.0E+00
South Coast	2023	HHDT	2014	15	Diesel	2715.1	2715.1	0	1.5E-02	2.5E-05	2.7E-05	7.2E+00	4.4E-06	1.1E-03	9.4E-05	1.1E-04	1.4E-03	6.8E-05	6.6E-04	4.0E-04	1.4E-04	6.4E-01	0.0E+00
South Coast	2023	HHDT	2015	15	Diesel	3822.3	3822.3	0	2.1E-02	3.5E-05	3.7E-05	1.0E+01	6.1E-06	1.6E-03	1.3E-04	1.5E-04	1.9E-03	9.6E-05	9.3E-04	5.7E-04	2.0E-04	9.0E-01	0.0E+00
South Coast	2023	HHDT	2016	15	Diesel	3963.3	3963.3	0	2.1E-02	3.7E-05	3.8E-05	1.0E+01	6.3E-06	1.6E-03	1.4E-04	1.6E-04	2.0E-03	9.9E-05	9.6E-04	5.9E-04	2.1E-04	9.4E-01	0.0E+00
South Coast	2023	HHDT	2017	15	Diesel	2528.5	2528.5	0	1.3E-02	1.8E-05	1.8E-05	6.5E+00	3.4E-06	1.0E-03	7.2E-05	8.2E-05	8.1E-04	6.1E-05	6.1E-04	3.8E-04	1.3E-04	5.8E-01	0.0E+00
South Coast	2023	HHDT	2018	15	Diesel	2019.0	2019.0	0	1.1E-02	1.4E-05	1.5E-05	4.9E+00	2.7E-06	7.8E-04	5.8E-05	6.6E-05	6.5E-04	4.7E-05	4.9E-04	3.0E-04	1.1E-04	4.4E-01	0.0E+00
South Coast	2023	HHDT	2019	15	Diesel	3037.2	3037.2	0	1.5E-02	2.0E-05	2.0E-05	7.5E+00	3.9E-06	1.2E-03	8.4E-05	9.5E-05	9.3E-04	7.1E-05	7.4E-04	4.5E-04	1.6E-04	6.7E-01	0.0E+00
South Coast	2023	HHDT	2020	15	Diesel	2974.5	2974.5	0	1.4E-02	1.8E-05	1.9E-05	7.3E+00	3.7E-06	1.1E-03	7.9E-05	9.0E-05	8.8E-04	6.9E-05	7.2E-04	4.4E-04	1.6E-04	6.5E-01	0.0E+00
South Coast	2023	HHDT	2021	15	Diesel	2718.9	2718.9	0	1.2E-02	1.5E-05	1.6E-05	5.7E+00	3.2E-06	9.0E-04	6.9E-05	7.9E-05	7.7E-04	5.4E-05	6.6E-04	4.1E-04	1.4E-04	5.1E-01	0.0E+00
South Coast	2023	HHDT	2022	15	Diesel	2728.0	2728.0	0	1.1E-02	1.3E-05	1.4E-05	5.8E+00	3.0E-06	9.1E-04	6.5E-05	7.4E-05	7.3E-04	5.4E-05	6.6E-04	4.1E-04	1.4E-04	5.1E-01	0.0E+00
South Coast	2023	HHDT	2023	15	Diesel	2045.4	2045.4	0	7.3E-03	8.4E-06	8.8E-06	4.3E+00	2.1E-06	6.8E-04	4.6E-05	5.2E-05	5.1E-04	4.1E-05	5.0E-04	3.0E-04	1.1E-04	3.9E-01	0.0E+00
South Coast	2023	HHDT	2024	15	Diesel	491.4	491.4	0	1.4E-03	1.7E-06	1.8E-06	9.6E-01	4.8E-07	1.5E-04	1.0E-05	1.2E-05	1.2E-04	9.1E-06	1.2E-04	7.3E-05	2.6E-05	8.6E-02	0.0E+00

Summary

	TOG	CO	NOx	PM10	PM2_5	SOx	CO2
Year 2023	3.9E-02	4.1E-01	4.9E+00	7.1E-03	6.8E-03	2.1E-02	2.3E+03

Source: EMFAC2021 (v1.0.2) Emissions Inventory
Region Type: Air Basin
Region: South Coast
Calendar Year: 2023
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, tons/day for Emissions, 1000 gallons/day for Fuel Consumption, mph for Speed, kWh/day for Energy Consumption

Construction Year **2023**

					Totals	2,222,093		0.2	0.0	0.0	1,471.0	0.0	0.0	0.1	0.2	4.0	0.0	0.1	0.0	0.0	155.1	294,932.4	
					g/mi			0.10	0.01	0.00	600.48	0.01	0.01	0.06	0.08	1.62	0.01	0.03	0.01	0.00	63.30	120394.28	
Region	**Calendar Year**	**Vehicle Category**	**Model Year**	**Speed**	**Fuel**	**Total VMT**	**CVMT**	**EVMT**	**NOx**	**PM2.5**	**PM10**	**CO2**	**CH4**	**N2O**	**ROG**	**TOG**	**CO**	**SOX**	**NH3**	**PM10_PMBW**	**PM2.5_PMBW**	**Fuel Consumption**	**Energy Consumption**
South Coast	2023	LDA	Aggregate	10	Gasoline	1407266.7	1407266.7	0	1.1E-01	8.6E-03	9.4E-03	8.6E+02	1.8E-02	1.2E-02	7.1E-02	1.0E-01	2.2E+00	8.5E-03	5.3E-02	1.1E-02	4.0E-03	9.1E+01	0.0E+00
South Coast	2023	LDA	Aggregate	10	Diesel	3086.6	3086.6	0	9.2E-04	2.4E-04	2.5E-04	1.7E+00	3.6E-05	2.7E-04	7.8E-04	8.9E-04	1.1E-02	1.6E-05	1.1E-05	2.5E-05	8.9E-06	1.5E-01	0.0E+00
South Coast	2023	LDA	Aggregate	10	Electricity	453799.3	0.0	5E+05	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.2E-03	4.1E-04	0.0E+00	2.1E+05
South Coast	2023	LDA	Aggregate	10	Plug-in Hybric	195391.0	21343.6	2E+05	3.7E-04	1.4E-04	1.5E-04	1.4E+01	9.6E-05	6.9E-05	3.0E-04	4.4E-04	3.0E-02	1.4E-04	9.1E-04	5.1E-04	1.8E-04	1.5E+00	6.4E+04
South Coast	2023	LDT1	Aggregate	10	Gasoline	119859.9	119859.9	0	4.0E-02	1.2E-03	1.3E-03	8.8E+01	5.1E-03	2.7E-03	2.3E-02	3.3E-02	4.7E-01	8.7E-04	5.0E-03	1.4E-03	4.9E-04	9.2E+00	0.0E+00
South Coast	2023	LDT1	Aggregate	10	Diesel	26.3	26.3	0	3.3E-05	2.0E-05	2.1E-05	2.5E-02	1.2E-06	4.0E-06	2.5E-05	2.9E-05	1.0E-04	2.4E-07	9.0E-08	3.5E-07	1.2E-07	2.3E-03	0.0E+00
South Coast	2023	LDT1	Aggregate	10	Electricity	1549.4	0.0	1549	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.0E-06	1.4E-06	0.0E+00	7.3E+02
South Coast	2023	LDT1	Aggregate	10	Plug-in Hybric	785.8	75.4	710.3	1.3E-06	3.2E-07	3.4E-07	4.9E-02	3.4E-07	2.4E-07	1.1E-06	1.6E-06	1.1E-04	4.8E-07	3.5E-06	2.0E-06	7.1E-07	5.1E-03	2.6E+02
South Coast	2023	LDT2	Aggregate	10	Gasoline	665429.6	665429.6	0	9.5E-02	4.2E-03	4.6E-03	5.0E+02	1.1E-02	7.7E-03	4.4E-02	6.4E-02	1.2E+00	5.0E-03	2.7E-02	7.4E-03	2.6E-03	5.3E+01	0.0E+00
South Coast	2023	LDT2	Aggregate	10	Diesel	2222.5	2222.5	0	3.4E-04	3.6E-05	3.7E-05	1.6E+00	2.3E-05	2.5E-04	4.9E-04	5.6E-04	4.6E-03	1.5E-05	7.6E-06	2.4E-05	8.5E-06	1.4E-01	0.0E+00
South Coast	2023	LDT2	Aggregate	10	Electricity	16784.9	0.0	16785	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.3E-05	1.5E-05	0.0E+00	7.9E+03
South Coast	2023	LDT2	Aggregate	10	Plug-in Hybric	27300.7	2781.9	24519	4.8E-05	1.4E-05	1.5E-05	1.8E+00	1.3E-05	9.0E-06	3.9E-05	5.7E-05	3.9E-03	1.8E-05	1.3E-04	7.0E-05	2.5E-05	1.9E-01	9.1E+03

Television City - Annual Emissions

Onsite Road Dust Calculations

On-site Road Dust Parameters

Worker Trips Length (ft)[a]	500	Travel from street to worker parking. One-way distance
Truck Trip Length (ft) - Paved[b]	950	50% of travel from street to staging area and construction area and back to street. One-way distance
Truck Trip Length (ft) - Unpaved with Soil Stabilizer[c]	200	Travel from on-site paved road to construction area. One-way distance
Truck Trip Length (ft) - Unpaved with Watering Only[c]	100	Travel from unpaved road (soil stabilizer) to material drop off point (active working area) to position for loading/unloading
Soil Stabilizer Control Efficiency	84%	https://ww2.arb.ca.gov/our-work/programs/equipment-and-process-precertification-program-stationary-sources-only-0
Watering Control Efficiency	74%	CalEEMod 2022 Default for Watering 3 times daily

[a] Distances measured using Google Earth. Workers would access the site from Beverly Boulevard on to Genesee Avenue. Parking would be located at the northern portion of the site. Please refer to on-site staging figure included in the AECOM construction memo of this Confirmatory Analysis, Appendix A-5.

[b] Distances measured using Google Earth. Trucks would enter from Fairfax Avenue to the staging area, then exit on Beverly Boulevard. See Appendix A-5 for staging location.

[c] Assumed length of unpaved segment during construction activities

CalEEMod Inputs				Distance Travelled (ft)			PM10 - Emission Factor (g/mi)			Emissions (lbs/day)			
Phase Name	Trip Type	One-Way Trips per Day	Vehicle Mix	On-site Paved	On-site Unpaved (Soil Stabilizer)	On-site Unpaved (Watering Only)	On-site Paved	On-site Unpaved (Soil Stabilizer)	On-site Unpaved (Watering Only)	On-site Paved	On-site Unpaved (Soil Stabilizer)	On-site Unpaved (Watering Only)	Total Emissions
Demolition													
Demolition	Worker	100	LDA,LDT1,LDT2	500			0.3			0.01			
Demolition	Vendor		HHDT,MHDT										
Demolition	Hauling	80	HHDT	950			0.3			0.02			
Demolition	Onsite truck	0	HHDT										0.03
Mat Foundation													
Mat Foundation	Worker	100	LDA,LDT1,LDT2	500			0.3			0.01			
Mat Foundation	Vendor	1000	HHDT	950	100		0.3	41		0.12	1.73		
Mat Foundation	Hauling	0	HHDT										
Mat Foundation	Onsite truck	0	HHDT										1.86
Grading/Foundation													
Grading/Foundation	Worker	490	LDA,LDT1,LDT2	500			0.3			0.06			
Grading/Foundation	Vendor	40	HHDT	950	200	100	0.3	41	47	0.00	0.14	0.08	
Grading/Foundation	Hauling	600	HHDT	950	200	100	0.3	41	47	0.07	2.07	1.19	
Grading/Foundation	Onsite truck	0	HHDT										3.61
Building Construction													
Building Construction	Worker	1350	LDA,LDT1,LDT2	500			0.3			0.17			
Building Construction	Vendor	100	HHDT,MHDT	950			0.3			0.01			
Building Construction	Hauling	0	HHDT										
Building Construction	Onsite truck	0	HHDT										0.18
Paving/Landscape													
Paving/Landscape	Worker	0	LDA,LDT1,LDT2										
Paving/Landscape	Vendor		HHDT,MHDT										
Paving/Landscape	Hauling	0	HHDT										
Paving/Landscape	Onsite truck		HHDT										0.00
Finishing/Architectural Coating													
Finishing/Architectural Coating	Worker[a]	1940	LDA,LDT1,LDT2	500			0.3			0.24			
Finishing/Architectural Coating	Vendor	70	HHDT,MHDT	950			0.3			0.01			
Finishing/Architectural Coating	Hauling	0	HHDT										
Finishing/Architectural Coating	Onsite truck	0	HHDT										0.25

[a] Includes Paving/Landscape worker trips

Television City - Annual Emissions

Onsite Road Dust Calculations

CalEEMod Inputs

Phase Name	Trip Type	One-Way Trips per Day	Vehicle Mix	Distance Travelled (ft)			PM2.5 - Emission Factor (g/mi)			Emissions (lbs/day)			
				On-site Paved	On-site Unpaved (Soil Stabilizer)	On-site Unpaved (Watering Only)	On-site Paved	On-site Unpaved (Soil Stabilizer)	On-site Unpaved (Watering Only)	On-site Paved	On-site Unpaved (Soil Stabilizer)	On-site Unpaved (Watering Only)	Total Emissions
Demolition													
Demolition	Worker	100	LDA,LDT1,LDT2	500			0.1			0.00			
Demolition	Vendor		HHDT,MHDT										
Demolition	Hauling	80	HHDT	950			0.1			0.00			
Demolition	Onsite truck	0	HHDT										**0.01**
Mat Foundation													
Mat Foundation	Worker	100	LDA,LDT1,LDT2	500			0.1			0.00			
Mat Foundation	Vendor	1000	HHDT	950	100		0.1	5		0.03	0.21		
Mat Foundation	Hauling	0	HHDT										
Mat Foundation	Onsite truck	0	HHDT										**0.24**
Grading/Foundation													
Grading/Foundation	Worker	490	LDA,LDT1,LDT2	500			0.1			0.02			
Grading/Foundation	Vendor	40	HHDT	950	200	100	0.1	5	6	0.00	0.02	0.01	
Grading/Foundation	Hauling	600	HHDT	950	200	100	0.1	5	6	0.02	0.25	0.15	
Grading/Foundation	Onsite truck	0	HHDT										**0.46**
Building Construction													
Building Construction	Worker	1350	LDA,LDT1,LDT2	500			0.1			0.04			
Building Construction	Vendor	100	HHDT,MHDT	950			0.1			0.00			
Building Construction	Hauling	0	HHDT										
Building Construction	Onsite truck	0	HHDT										**0.04**
Paving/Landscape													
Paving/Landscape	Worker	0	LDA,LDT1,LDT2										
Paving/Landscape	Vendor		HHDT,MHDT										
Paving/Landscape	Hauling	0	HHDT										
Paving/Landscape	Onsite truck		HHDT										**0.00**
Finishing/Architectural Coating													
Finishing/Architectural Coating	Worker	1940	LDA,LDT1,LDT2	500			0.3			0.24			
Finishing/Architectural Coating	Vendor	70	HHDT,MHDT	950			0.3			0.01			
Finishing/Architectural Coating	Hauling	0	HHDT										
Finishing/Architectural Coating	Onsite truck	0	HHDT										**0.25**

On-site Haul Road Emission Factors

Paved Road Dust Emission Factors

AP-42 Emission Factor Equation

[k(sL)^0.91 x (W)^1.02] x (1- P/4N)

PM10

Parameter	Value	Units
particle size multiplier (k)	1	
road surface silt loading (sL)	0.1	
average weight (W)	2.4	tons
number of "wet" days (P)	16.8	days
number of days in averaging period (N)	365	days
Emission Factor	**0.297**	g/mi

PM2.5

Parameter	Value	Units
particle size multiplier (k)	0.25	
road surface silt loading (sL)	0.1	
average weight (W)	2.4	tons
number of "wet" days (P)	16.8	days
number of days in averaging period (N)	365	days
Emission Factor	**0.074**	g/mi

Dust From Material Movement

CalEEMod Methodology

Emissions Summary		
	Fugitive PM10 (lbs/day)	
Excavation/Truck Loading Emissions	0.04	

Excavation/Truck Loading Emissions

EF = k x (0.0032) x ((U/5)^1.3 / (M/2)^1.4)		
k = particle size multiplier	0.35	
U = mean wind speed (mph)	**1.12**	CalEEMod Default (0.5 m/s)
M = material moisture content (%)	**12**	CalEEMod Default (12 %)
Truck Loading Emission Factor (lb/ton)	1.30E-05	
Soil Density (tons/CY)	1.26	CalEEMod Default
Soil Movement (CY/day)	4,443	822,000 CY per day / 185 days
Soil Movement (tons/day)	5,617	
Number of Times Soil Handed per Day	2	Double handling.
Emissions (lbs/day)	0.15	
Control Factor (%)	74%	CalEEMod 2022 Default for Watering 3 time
Excavation/Truck Loading Emissions - Controlled (lbs/day)	**0.04**	
Total On-site Fugitive (lbs/day)	**0.15**	
Total On-site Fugitive (lbs/day) - Controlled	**0.04**	SCAQMD Rule 403 Control Effiency

Television City

Operational On-site Mobile Dust Emissions

Project - 2026[a]			
Truck Type	**Total Trips**	**Non Diesel**	**Diesel**
HHDT (semis)	36	0	36
Light Heavy 5-ton (T5)	43	23	20
Medium Heavy 10-ton (T6&7)	87	29	58
Total Truck Trips	**166**	52	114
Worker Trip[b]	**13288**		

Existing - 2026[a]			
Truck Type	**Total Trips**	**Non Diesel**	**Diesel**
HHDT (semis)	13	0	13
Light Heavy 5-ton (T5)	22	12	10
Medium Heavy 10-ton (T6&7)	43	14	29
Total Truck Trips	**78**	26	52
Worker Trip[b]	**3813**		

Mobility Hub[c]	
Trip Parameters	**Daily Trips**
Shuttle Trips	104
Uber/Lyft	298
Pickup/Dropoff/Vanpool	396
Total Mobility Hub Trips	798

Truck On-site Distance (mi)[d]	**0.5**		**Truck On-site Distance (mi)[d]**	**0.5**	
Truck Daily Onsite VMT	166		**Truck Daily Onsite VMT**	**78**	
Worker On-site Distance (mi)[e]	**0.1**		**Worker On-site Distance (mi)[e]**	**0.1**	
Worker Daily Onsite VMT	2658		**Worker Daily Onsite VMT**	**722**	
Mobility Hub On-site Distance (mi)[f]	**0.1**				
Mobility Hub Onsite VMT	160				
Total Daily Onsite VMT	2983	2967	**Total Daily Onsite VMT**	**800.2**	
	PM10	**PM2.5**		**PM10**	**PM2.5**
Emission Factor (g/mi)[g]	0.297	0.073	**Emission Factor (g/mi)**	0.297	0.073
Emissions (lbs/day)	**2.0**	**0.5**	**Emissions (lbs/day)**	**0.5**	**0.1**
Controlled (Street Sweeper 9%)[h]	**1.8**	**0.4**	**Controlled (Street Sweeper 9%)**	**0.5**	**0.1**

[a] Gibson Transportation Consulting, Inc., Truck Trip Forecasts for the Television City 2050 Specific Plan Project Los Angeles, California. March 8, 2023. See Appendix A-7 of this Confirmatory Analysis.

[b] Based on Appendix M - Transportation of the Draft EIR, minus truck trips

[c] Gibson Transportation Consulting, Inc., TVC 2050 Project Mobility Hub Usage Patterns. March 8, 2023. See Appendix A-7 of this Confirmatory Analysis.

[d] Distances measured using Google Earth. Delivery trucks would enter from Fairfax Avenue to the delivery area, then exit on Beverly Boulevard which is approximately 0.35 miles. An additional 0.15 miles would allow for trucks to deliver to various locations throughout the site. Total distance of 0.5 miles

[e] Distances measured using Google Earth. Workers would access the site from Beverly Boulevard on to Genesee Avenue. Parking would be located at the northern pc the site.

[f] Distances measured using Google Earth. Vehicles would enter the site from Fairfax Avenue to the Mobility Hub.

[g] Please refer to Road Dust Emission Factor Calculation Worksheet

[h] Table XI-C. Mitigation Measure Examples: Fugitive Dust From Paved Roads. April 2007. South Coast Air Quality Management District.

Television City

Operational On-site Mobile Exhaust Emissions

Project - 2026			
Truck Type	**Total Trips**	**Non Diesel**	**Diesel**
HHDT (semis)	36	0	36
Light Heavy 5-ton (T5)	43	23	20
Medium Heavy 10-ton (T6&7)	87	29	58
Total Truck Trips	166	52	114

Distance Travelled On-site (mi) 0.5

Diesel Emissions - Year 2026

Emission Factor - Diesel (g/mi)	**TOG**	**CO**	**NOx**	**PM10**	**PM2_5**	**SOx**
HHDT (semis)	0.1	0.7	7.9	0.0	0.0	0.0
Light Heavy 5-ton (T5)	0.3	0.7	1.2	0.1	0.0	0.0
Medium Heavy 10-ton (T6&7)	0.1	0.3	2.4	0.0	0.0	0.0

Diesel Emissions (lbs/day)	**TOG**	**CO**	**NOx**	**PM10**	**PM2_5**	**SOx**
HHDT (semis)	0.0	0.0	0.3	4.9E-04	0.0	0.0
Light Heavy 5-ton (T5)	0.0	0.0	0.0	1.2E-03	0.0	0.0
Medium Heavy 10-ton (T6&7)	0.0	0.0	0.2	1.6E-03	0.0	0.0
Total	**1.8E-02**	**6.3E-02**	**5.0E-01**	**3.2E-03**	**3.1E-03**	**2.4E-03**

Gasoline Emissions - Year 2026

Emission Factor - Gasoline (g/mi)	**TOG**	**CO**	**NOx**	**PM10**	**PM2_5**	**SOx**
HHDT (semis)						
Light Heavy 5-ton (T5)	0.1	1.6	0.2	0.0	0.0	0.0
Medium Heavy 10-ton (T6&7)	0.2	1.6	0.4	0.0	0.0	0.0

Gasoline Emissions (lbs/day)	**TOG**	**CO**	**NOx**	**PM10**	**PM2_5**	**SOx**
HHDT (semis)						
Light Heavy 5-ton (T5)	0.0	0.0	0.0	0.0	0.0	0.0
Medium Heavy 10-ton (T6&7)	0.0	0.1	0.0	0.0	0.0	0.0
Total	**9.1E-03**	**0.1**	**0.0**	**0.0**	**0.0**	**0.0**

Idle Emissions - Diesel

Idle Time per Truck (min)	15						
Trips per Day	114						
		TOG	**CO**	**NOx**	**PM10**	**PM2_5**	**SOx**
Idle Emission Factors (g/hr)		2.69	34.56	27.89	**0.01**	0.01	0.05
Idle Emissions (lbs/day)		**1.70E-01**	**2.18E+00**	**1.76E+00**	**9.16E-04**	**8.76E-04**	**3.22E-03**

Idle Emissions - Gasoline

Idle Time per Truck (min)	15						
Trips per Day	52						
		TOG	**CO**	**NOx**	**PM10**	**PM2_5**	**SOx**
Idle Emission Factors (g/hr)		0.87	7.32	0.05	0	0	0.00
Idle Emissions (lbs/day)		**2.49E-02**	**2.09E-01**	**1.47E-03**	**0.00E+00**	**0.00E+00**	**7.42E-05**

Existing - 2026			
Truck Type	**Total Trips**	**Non Diesel**	**Diesel**
HHDT (semis)	13	0	13
Light Heavy 5-ton (T5)	22	12	10
Medium Heavy 10-ton (T6&7)	43	14	29
Total Truck Trips	78	26	52

Distance Travelled On-site (mi) 0.5

Diesel Emissions - Year 2026

Emission Factor - Diesel (g/mi)	**TOG**	**CO**	**NOx**	**PM10**	**PM2_5**	**SOx**
HHDT (semis)	0.1	0.7	7.9	0.0	0.0	0.0
Light Heavy 5-ton (T5)	0.3	0.7	1.2	0.1	0.0	0.0
Medium Heavy 10-ton (T6&7)	0.1	0.3	2.4	0.0	0.0	0.0

Diesel Emissions (lbs/day)	**TOG**	**CO**	**NOx**	**PM10**	**PM2_5**	**SOx**
HHDT (semis)	0.001	0.010	0.1	1.8E-04	0.0	0.0
Light Heavy 5-ton (T5)	0.003	0.008	0.0	5.8E-04	0.0	0.0
Medium Heavy 10-ton (T6&7)	0.004	0.010	0.1	7.8E-04	0.0	0.0
Total	**8.3E-03**	2.8E-02	2.1E-01	1.5E-03	1.5E-03	1.1E-03

Gasoline Emissions - Year 2026

Emission Factor - Gasoline (g/mi)	**TOG**	**CO**	**NOx**	**PM10**	**PM2_5**	**SOx**
HHDT (semis)						
Light Heavy 5-ton (T5)	0.2	2.2	0.3	0.0	0.0	0.0
Medium Heavy 10-ton (T6&7)	0.5	3.8	0.9	0.0	0.0	0.0

Gasoline Emissions (lbs/day)	**TOG**	**CO**	**NOx**	**PM10**	**PM2_5**	**SOx**
HHDT (semis)						
Light Heavy 5-ton (T5)	0.0	0.0	0.0	0.0	0.0	0.0
Medium Heavy 10-ton (T6&7)	0.0	0.1	0.0	0.0	0.0	0.0
Total	**9.8E-03**	0.1	0.0	0.0	0.0	0.0

Idle Emissions - Diesel

Idle Time per Truck (min)	15						
Trips per Day	52						
		TOG	**CO**	**NOx**	**PM10**	**PM2_5**	**SOx**
Idle Emission Factors (g/hr)		2.69	34.56	27.89	**0.01**	0.01	0.05
Idle Emissions (lbs/day)		**7.74E-02**	9.92E-01	8.01E-01	**4.18E-04**	4.00E-04	1.47E-03

Idle Emissions - Gasoline

Idle Time per Truck (min)	15						
Trips per Day	26						
		TOG	**CO**	**NOx**	**PM10**	**PM2_5**	**SOx**
Idle Emission Factors (g/hr)		0.87	7.32	0.05	0.00	0.00	0.00
Idle Emissions (lbs/day)		**1.24E-02**	1.05E-01	7.35E-04	0.00E+00	0.00E+00	3.71E-05

Television City

Operational On-site Mobile Exhaust Emissions

Worker Trips							
Distance (ft)	500						
Distance (mi)	0.1						
		TOG	CO	NOx	PM10	PM2_5	SOx
Run Speed	10						
Run Emission Factors (g/mi)[a]		0.06	1.34	0.08	0.01	0.01	0.01
Run Emissions	Trips per Day						
Employee Trips (lbs/day	13,288	0.17	3.73	0.21	0.0E+00	0.01	0.02

Worker Trips							
Distance (ft)	500						
Distance (mi)	0.1						
		TOG	CO	NOx	PM10	PM2_5	SOx
Run Speed	10						
Run Emission Factors (g/mi)[a]		0.06	1.34	0.08	0.01	0.01	0.01
Run Emissions	Trips per Day						
Employee Trips (lbs/day	3,813	0.05	1.07	0.06	4.5E-03	0.00	0.00

Mobility Hub[b,d]							
Trip Parameters	**Daily Trips**						
Shuttle Trips	104						
Uber/Lyft	298						
Pickup/Dropoff/Vanpool	396						
Distance (mi)	0.5						
Run Speed (mph)	10						
Shutlte Idle Time per Trip (min)	15						
Emission Factors		**TOG**	**CO**	**NOx**	**PM10**	**PM2_5**	**SOx**
Light Duty Auto - Travel (g/mi)[b]		0.06	1.34	0.08	0.01	0.01	0.01
Shuttle - Travel (g/mi)[b]		0.22	1.62	0.44	0.00	0.00	0.03
Shuttle - Idle (g/hr)[b]		0.87	7.32	0.05	0.00	0.00	0.00
Light Duty Auto Emissions	Trips per Day						
Passenger Travel (lbs/day)[e]	694	0.05	1.03	0.06	0.00	0.00	0.00
Shutlte Emissions							
Shuttle Travel (lbs/day)	104	0.03	0.19	0.05	0.00	0.00	0.00
Shuttle Idle (lbs/day)		**0.05**	0.42	0.00	0.00	0.00	0.00
Mobility Hub Emissions (lbs/da		0.12	1.63	0.11	0.00	0.00	0.01

[a] Distances measured using Google Earth. Delivery trucks would enter from Fairfax Avenue to the delivery area, then exit on Beverly Boulevard which is approximately 0.35 miles. An additional 0.15 miles would allow for trucks to deliver to various lo throughout the site. Total distance of 0.5 miles

[b] EMFAC2021 v. 1.0.2. California Air Resources Board. Included in Appendix A-6 of this Confirmatory Analysis

[c] Gibson Transportation Consulting, Inc., TVC 2050 Project Mobility Hub Usage Patterns. March 8, 2023. See Appendix A-7 of this Confirmatory Analysis.

[d] Shuttles traveling to and from the Mobility Hub would not be diesel but rather gasoline, natural gas, or electric powered. Electric vehicle (EV) chargers would be provided for the shuttle parking spaces. As a conservative assumption, shuttles traveling to and from the Mobility Hub would be powered by gasoline. Emission factors were based on EMFAC2021 Medium Heavy-Duty Trucks (MHDT) powered by gasoline. Emissions from gasoline powered vehicles resulting from employee vehicle trips were calculated using the CARB EMFAC2021 emission model. Calculations were based on emission factors for the EMFAC vehicle class LDA, LDT1 and LDT2, consistent with CalEEMod default assumptions for employee vehicle trips. The fleet mix accounted for existing baseline year (2021) and future buildout years (2026) and for the number of employee trips evaluated in the Draft EIR. Employee on-site speed was assumed to be 10 mph, and distances were measured based on Figure II-4, Conceptual Site Plan, in Section II, Project Description, of the Draft EIR. The distance travelled for ride sharing services was 500 feet while shuttles were 0.5 miles (2,640 feet) per trip as measured across the Project Site.

[e] Based on Uber/Lyft and Pickup/Dropoff Trips

TVC 2050 Project

Final EIR

Appendix A-6-Operations of a Modern Studio

MEMORANDUM

To: Stephanie Eyestone-Jones, Eyestone Environmental

From: Jeremy Hariton, The MBS Group

Date: September 7, 2023

Re: Overview of Changes in the Studio Industry and Representative Data from MBS Studios

---

The following provides background information on studio operations as it relates to the Project. Specifically, this memorandum provides an overview of the changing studio industry, including changes in the need for production support uses. Also provided herein is representative information and data regarding use of paint booths and basecamp areas from The MBS Group, the largest studio operator in the world and an affiliate of the Applicant. This information and data substantiates various analyses in the EIR for the TVC Project.

Overview of the Changing Studio Industry

Legacy studio lots like Television City often lag behind advancements made in modern technology and sustainable infrastructure. Television City began operations in the era of analog broadcast, with physical film reels being the primary medium to capture media content. Studios must continue to evolve with the industry that they serve to remain competitive and attract modern content creators. In modern times, the public is able to access digital content on phones, computers, tablets, and televisions from anywhere around the globe, instantly. These technological advancements have also changed how production companies operate. Studio lots function as content creation ecosystems, with the gamut of involved personnel often co-locating in one facility. As a result, more and different types of space must be provided within the studio facility to accommodate the variety of individuals required during the full lifecycle of the content creation process. Consistently across the entertainment industry, as studios modernize from the film and analog era to the modern digital environment, the ratio of production spaces has drastically decreased. Modern studios such as MBS Media Campus, Paramount, Sunset Gower, and Sunset Bronson, among others, typically provide ratios of production support

to sound stage square footage ranging from 0.1:1 to 1.5:1. Refer to Table 1 below for a comparison of these studios to the Project which shows that the proposed TVC Project is within the range for modern studios. The increase in production office and general office (and decrease of production support space) accommodates the needs of modern media companies and content producers by providing space for digital editing, visual effects (VFX), sound editing, and more traditional corporate functions such as advertising, marketing, accounting, and human resources. In other words, many traditional production functions that used to occur in production support space are now often better accommodated in office space. Further, advancements in technological capacity have also enabled more of the production process to occur within the sound stage itself. For example, virtual production diminishes the need to film on location and fiber connectivity allows for production activity on sound stages to communicate and collaborate with other production personnel in production or general office space in a dynamic manner.

Table 1
Sound Stage and Production Support Use Ratios at Recent Studio Projects in Los Angeles

Project	Sound Stage (Existing, in sf)	Production Support (Existing, in sf)	Ratio of Production Support to Sound Stages (Existing)	Sound Stage (with Project Implemen-tation, in sf)	Production Support (with Project Implemen-tation, in sf)	Ratio of Production Support to Sound Stages (with Project Implementation)
TVC (Proposed Development Program)	95,000	325,450	3.4:1	350,000	104,000	0.3:1
Paramount	362,000	586,000	1.6:1	383,000	588,000	1.5:1
Sunset Gower	175,000	56,000	0.3:1	169,000	54,000	0.3:1
Sunset Bronson	145,000	15,000	0.1:1	No Change	No Change	No Change

sf = square feet

Source: Sunset Gower Studios Enhancement Plan Draft EIR, 2020 (https://planning.lacity.org/eir/Sunset_Gower_Studios/DEIR/files/App_B.pdf); Paramount Pictures Master Plan Draft EIR, 2011 (https://planning.lacity.org/eir/paramount/deir/files/App_E.pdf); and Sunset Bronson Entertainment Center Project Draft EIR, 2013 (https://planning.lacity.org/eir/SunsetBronsonStudios/feir/index.html).

Change in Demand for Production Support Uses

Under existing conditions, Television City is over-provisioned with production support uses relative to the mix of sound stage and production office space on-site. Television City was built and operated as an owner-user full-service facility, providing every conceivable service to the CBS productions being produced at the studio. Currently, the production support space is used extensively for storage of set pieces, far greater than is typical at studio lots in Los Angeles. Modern studios no longer offer the full-service range of production support, but more so allow each individual production the flexibility to choose how to use their space to meet their specific needs. As stated above, in some instances, traditional set making and processes like fabrication and painting have shifted to digital production and virtual environments reducing the needs for physical construction techniques. This also includes set construction and other ancillary activities that are not required to happen in close proximity to the sound stage.

Representative Information and Data From MBS Studios

Paint Usage

Historically, MBS has used an average of 750 gallons of paint, solvents, and adhesives annually. It breaks down to 600 gallons of water-based paint and 150 gallons of solvent based products. MBS currently has no permitted paint booths. In the last five years only once has a production requested to install a temporary spray booth (a small portable 20’x10’ unit that was used for a six month period).

Basecamp Operations (Equipment)

Each production at MBS typically occurs on two to four sound stages with basecamp operations that include, among other things, equipment that require an electrical hook-up. Provided below is a list of equipment requiring an electrical connection, size of electrical connections, and the electricity demand for each type of equipment for a production that is used in the basecamp.

As shown in the table below, each production could require up to two catering trucks per day. Most of the catering trucks are not equipped with cooking equipment (i.e., char broilers) since meals are often prepared off-site (e.g., sandwiches, salads). However, based on a review of production operations, it is estimated that up to 50 percent of the catering trucks on a given day could have a char broiler or griddle and would operate for approximately four hours.

Table 2
Production Equipment Related to Basecamp Operations

Equipment Type	Pieces of Equipment	Electrical Connection Type (Amps)	Electrical Load Typically Required (Amps)	Demand Factor (How Often Is Equipment Connected?)
Camera Trucks	1	50	40	25%
Set Lighting Trucks	1	20	16	25%
Grip Trucks	1	20	16	25%
Make up Trailers	1	50	40	25%
Wardrobe Trailers	1	50	40	25%
FX Trailers	1	50	40	25%
Cast Trailers	4.5	50	40	25%
Props Trucks	1	20	16	25%
Back-up Electric Generators	2	N/A	0	25%
Set Dressing Trucks	1.5	20	16	25%
Containers	1	20	16	25%
Stakebeds	4.5	20	16	25%
Pass Vans	4.5	N/A	0	25%
Catering Trucks	2	50	40	25%
Dump Station	1.5	N/A	0	25%
Water	1.5	N/A	0	25%
Van / Shuttle Parking	4.5	N/A	0	25%
Uber / Lyft Parking	1	N/A	0	25%
Craft Service	1	50	40	25%

Source: Manhattan Beach Studios, 2023.

Signage

Studio lots contain signage on the exterior and interior of the site for promotional purposes. Energy consumption for lighting signs differ depending on the type of display which may be either a static display or a dynamic display (animated). For analytical purposes, it was assumed conservatively that the Project would contain approximately 120,000 square feet of interior signage (including 12,000 square feet of digital display signage) and approximately 31,000 square feet of exterior signage. Energy usage factors are obtained from the Draft Environmental Impact Report for the Los Angeles Metro Transportation Communication Network.

TVC 2050 Project

Final EIR

Appendix A-7-Operations

- SCAQMD 2019 through 2021 Annual Emissions Report
- Emergency Generator Fuel Consumption
- Emergency Generator Emission Calculations (Existing and Proposed)
- Char Boiler Emissions
- Spray Booth Emissions
- Onsite Truck/Vehicle Activity
- Mobility Hub (VMT) Reduction
- Landscape
- Onsite Equipment

South Coast AQMD

Annual Emission Report

Reporting Year: **2019**

Print Date: **05/13/2020**

Facility Id: **189282**

Facility Name **TELEVISION CITY PRODUCTIONS, LLC**

Facility Type: **Entertainment**

StatusUpdate

Facility ID	189282
Facility Shutdown Date	N/A
Change of Ownership Date	N/A
Change in Equipment Location Date	N/A
Emissions are zero for this year's report, or emissions reduced by 50%	N/A
Exemption Request	N/A
Use of alternative Calculation methodology	N/A
Other	N/A
Refund Request	N/A

South Coast AQMD

Annual Emission Report

Reporting Year: **2019**

Print Date: **05/13/2020**

Facility Id: **189282**

Facility Name **TELEVISION CITY PRODUCTIONS, LLC**

Facility Type: **Entertainment**

External Combustion Process List Overview

AER Device ID	Permit Device ID	A/N	Process ID	Equipment	Fuel	Fuel Usage	Units		Criteria Pollutant Units	ROG	SPOG	NOx	SOx	CO	PM
ES11			P1	Boiler <10 MMBTU/HR	Natural Gas	9.185086	mmscf	EF	lbs/ mmscf	5.500000		100.000000	0.600000	84.000000	7.600000
								Emissions	lbs	50.52		918.51	5.51	771.55	69.81

Total Emissions	lbs	50.52		918.51	5.51	771.55	69.81
Total Emissions	tons	0.03	0.00	0.46	0.00	0.39	0.03

South Coast AQMD

Annual Emission Report

Reporting Year: **2019**

Print Date: **05/13/2020**

Facility Id: **189282**

Facility Name **TELEVISION CITY PRODUCTIONS, LLC**

Facility Type: **Entertainment**

Internal Combustion Process List Overview

AER Device ID	Permit Device ID	A/N	Process ID	Equipment	Fuel	Fuel Usage	Units		Criteria Pollutant Units	ROG	SPOG	NOx	SOx	CO	PM
ES1		610182	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn	Distillate Fuel Oil No. 2 (Diesel)	0.188370	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
								Emissions	lbs	7.06		88.35	0.04	19.21	6.31
ES2		610185	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn	Distillate Fuel Oil No. 2 (Diesel)	0.082590	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
								Emissions	lbs	3.10		38.73	0.02	8.42	2.77
ES3		610180	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn	Distillate Fuel Oil No. 2 (Diesel)	0.021800	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
								Emissions	lbs	0.82		10.22	0.00	2.22	0.73
ES4		610183	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn	Distillate Fuel Oil No. 2 (Diesel)	0.037500	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
								Emissions	lbs	1.41		17.59	0.01	3.83	1.26
ES5		610184	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn	Distillate Fuel Oil No. 2 (Diesel)	0.031740	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
								Emissions	lbs	1.19		14.89	0.01	3.24	1.06

Total Emissions	lbs	13.58		169.78	0.08	36.92	12.13
Total Emissions	tons	0.01	0.00	0.08	0.00	0.02	0.01

South Coast AQMD

Annual Emission Report

Reporting Year: **2019**

Print Date: **05/13/2020**

Facility Id: **189282**

Facility Name **TELEVISION CITY PRODUCTIONS, LLC**

Facility Type: **Entertainment**

Spray Coating/Spray Booth Process List Overview

AER Device ID	Permit Device ID	A/N	Process ID	Equipment	Material Activity Code	Material Description	Usage	Units		Criteria Pollutant Units	ROG	SPOG	NOx	SOx	CO	PM
ES7		610178	P1	Spray Booth	Coating : Wood Flat Stock Coating Operations : HVLP Application : Adhesive	Spray 77	1.570313	gal	EF	lbs/ gal	4.253400					1.050000
									Emissions	lbs	6.68					0.16
ES7		610178	P2	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Evershield	87.500000	gal	EF	lbs/ gal	0.416700					1.050000
									Emissions	lbs	36.46					9.19
ES7		610178	P3	Spray Booth	Solvents : Solvent Cleaning Operations : Wipe Cleaning : Product Cleaning/Surface Preparation	Rapid Tac	2.000000	gal	EF	lbs/ gal	1.150920					
									Emissions	lbs	2.30					
ES7		610178	P4	Spray Booth	Solvents : Solvent Cleaning Operations : Wipe Cleaning : Product Cleaning/Surface Preparation	Bestine	1.500000	gal	EF	lbs/ gal	8.340000					
									Emissions	lbs	12.51					
ES7		610178	P5	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Clear Topcoat	Krylon Clear	0.100000	gal	EF	lbs/ gal						1.050000
									Emissions	lbs						0.01
ES7		610178	P6	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Clear Topcoat	Krylon Dulling	0.172000	gal	EF	lbs/ gal	6.792100					1.050000
									Emissions	lbs	1.17					0.02
ES7		610178	P7	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Krylon Gloss	0.750000	gal	EF	lbs/ gal						1.050000
									Emissions	lbs						0.08
ES7		610178	P8	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Krylon Satin	0.750000	gal	EF	lbs/ gal						1.050000
									Emissions	lbs						0.08

AER Device ID	Permit Device ID	A/N	Process ID	Equipment	Material Activity Code	Material Description	Usage	Units		Criteria Pollutant Units	ROG	SPOG	NOx	SOx	CO	PM
ES9		610186	P1	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Fresh	4.500000	gal	EF	lbs/ gal	0.416700					1.050000
									Emissions	lbs	1.88					0.47
ES9		610186	P2	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Lux	33.625000	gal	EF	lbs/ gal	0.834000					1.050000
									Emissions	lbs	28.04					3.53
ES9		610186	P3	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Pro Solutions	5.000000	gal	EF	lbs/ gal	1.508340					1.050000
									Emissions	lbs	7.54					0.53
ES9		610186	P4	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Rustoleum	14.125000	gal	EF	lbs/ gal	0.834000					1.050000
									Emissions	lbs	11.78					1.48
ES9		610186	P5	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Stripe 60	5.625000	gal	EF	lbs/ gal	0.500000					1.050000
									Emissions	lbs	2.81					0.59
ES9		610186	P6	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Stripe 75	19.780000	gal	EF	lbs/ gal	0.625000					1.050000
									Emissions	lbs	12.36					2.08
ES9		610186	P7	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Suprema 25	110.750000	gal	EF	lbs/ gal	0.208340					1.050000
									Emissions	lbs	23.07					11.63
ES9		610186	P8	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Suprema 40	344.500000	gal	EF	lbs/ gal	0.340000					1.050000
									Emissions	lbs	117.13					36.17
ES9		610186	P9	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Suprema 50	11.500000	gal	EF	lbs/ gal	0.416700					1.050000
									Emissions	lbs	4.79					1.21
ES9		610186	P10	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Ultra	57.500000	gal	EF	lbs/ gal	0.416700					1.050000
									Emissions	lbs	23.96					6.04
ES9		610186	P11	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Valspar	16.250000	gal	EF	lbs/ gal	2.291670					1.050000
									Emissions	lbs	37.24					1.71
ES9		610186	P12	Spray Booth	Solvents : Solvent Cleaning Operations : Wipe Cleaning : Product Cleaning/Surface Preparation	Acetone	21.250000	gal	EF	lbs/ gal	6.670000					
									Emissions	lbs	141.74					
ES10		610187	P1	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 0.00	461.970000	gal	EF	lbs/ gal						1.050000
									Emissions	lbs						48.51

AER Device ID	Permit Device ID	A/N	Process ID	Equipment	Material Activity Code	Material Description	Usage	Units		Criteria Pollutant Units	ROG	SPOG	NOx	SOx	CO	PM
ES10		610187	P3	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 0.02	21.000000	gal	EF	lbs/ gal	0.020000					1.050000
									Emissions	lbs	0.42					2.21
ES10		610187	P4	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 0.08	3.250000	gal	EF	lbs/ gal	0.080000					1.050000
									Emissions	lbs	0.26					0.34
ES10		610187	P5	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 0.11	12.500000	gal	EF	lbs/ gal	0.110000					1.050000
									Emissions	lbs	1.38					1.31
ES10		610187	P6	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 0.17	36.500000	gal	EF	lbs/ gal	0.170000					1.050000
									Emissions	lbs	6.21					3.83
ES10		610187	P7	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 0.33	1,011.150000	gal	EF	lbs/ gal	0.330000					1.050000
									Emissions	lbs	333.68					106.17
ES10		610187	P8	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 0.336	0.250000	gal	EF	lbs/ gal	0.336000					1.050000
									Emissions	lbs	0.08					0.03
ES10		610187	P9	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 0.4	270.000000	gal	EF	lbs/ gal	0.400000					1.050000
									Emissions	lbs	108.00					28.35
ES10		610187	P10	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 0.41	22.000000	gal	EF	lbs/ gal	0.410000					1.050000
									Emissions	lbs	9.02					2.31
ES10		610187	P11	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 0.417	17.000000	gal	EF	lbs/ gal	0.417000					1.050000
									Emissions	lbs	7.09					1.79
ES10		610187	P12	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 0.44	4.000000	gal	EF	lbs/ gal	0.440000					1.050000
									Emissions	lbs	1.76					0.42
ES10		610187	P13	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 0.5	0.250000	gal	EF	lbs/ gal	0.500000					1.050000
									Emissions	lbs	0.13					0.03
ES10		610187	P14	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 0.64	4.250000	gal	EF	lbs/ gal	0.640000					1.050000
									Emissions	lbs	2.72					0.45
ES10		610187	P15	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 0.83	5.300000	gal	EF	lbs/ gal	0.830000					1.050000
									Emissions	lbs	4.40					0.56

AER Device ID	Permit Device ID	A/N	Process ID	Equipment	Material Activity Code	Material Description	Usage	Units		Criteria Pollutant Units	ROG	SPOG	NOx	SOx	CO	PM
ES10		610187	P16	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 1.03	2.750000	gal	EF	lbs/ gal	1.030000					1.050000
									Emissions	lbs	2.83					0.29
ES10		610187	P17	Spray Booth	Coating : Wood Products Coatings : Other : Pigmented Topcoats	Coating - 1.25	146.750000	gal	EF	lbs/ gal	1.250000					1.050000
									Emissions	lbs	183.44					15.41
ES10		610187	P18	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 1.3	12.000000	gal	EF	lbs/ gal	1.300000					1.050000
									Emissions	lbs	15.60					1.26
ES10		610187	P19	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 1.4	8.750000	gal	EF	lbs/ gal	1.400000					1.050000
									Emissions	lbs	12.25					0.92
ES10		610187	P20	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 1.69	52.750000	gal	EF	lbs/ gal	1.690000					1.050000
									Emissions	lbs	89.15					5.54
ES10		610187	P21	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 1.696	0.250000	gal	EF	lbs/ gal	1.696000					1.050000
									Emissions	lbs	0.42					0.03
ES10		610187	P22	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 1.8	1.250000	gal	EF	lbs/ gal	1.800000					1.050000
									Emissions	lbs	2.25					0.13
ES10		610187	P23	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 1.82	15.250000	gal	EF	lbs/ gal	1.820000					1.050000
									Emissions	lbs	27.76					1.60
ES10		610187	P24	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 1.85	1.500000	gal	EF	lbs/ gal	1.850000					1.050000
									Emissions	lbs	2.78					0.16
ES10		610187	P25	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 1.92	1.500000	gal	EF	lbs/ gal	1.920000					1.050000
									Emissions	lbs	2.88					0.16
ES10		610187	P26	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 1.94	149.520000	gal	EF	lbs/ gal	1.920000					1.050000
									Emissions	lbs	287.08					15.70
ES10		610187	P27	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 2.00	47.000000	gal	EF	lbs/ gal	2.000000					1.050000
									Emissions	lbs	94.00					4.94
ES10		610187	P28	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 2.08	91.550000	gal	EF	lbs/ gal	2.080000					1.050000
									Emissions	lbs	190.42					9.61

AER Device ID	Permit Device ID	A/N	Process ID	Equipment	Material Activity Code	Material Description	Usage	Units		Criteria Pollutant Units	ROG	SPOG	NOx	SOx	CO	PM
ES10		610187	P29	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 2.1	173.100000	gal	EF	lbs/ gal	2.100000					1.050000
									Emissions	lbs	363.51					18.18
ES10		610187	P30	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 2.2	1.250000	gal	EF	lbs/ gal	2.200000					1.050000
									Emissions	lbs	2.75					0.13
ES10		610187	P31	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 4.59	0.750000	gal	EF	lbs/ gal	0.750000					1.050000
									Emissions	lbs	0.56					0.08
ES10		610187	P32	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 6.00	0.500000	gal	EF	lbs/ gal	6.000000					1.050000
									Emissions	lbs	3.00					0.05

Total Emissions	lbs	2,227.28					345.43
Total Emissions	tons	1.11	0.00	0.00	0.00	0.00	0.17

South Coast AQMD

Annual Emission Report

Reporting Year: **2019**

Print Date: **05/13/2020**

Facility Id: **189282**

Facility Name **TELEVISION CITY PRODUCTIONS, LLC**

Facility Type: **Entertainment**

Criteria Pollutants Permitted Emissions Summary

	VOC (tons)	SPOG (tons)	NOx (tons)	NOx RECLAIM (tons)	SOx (tons)	SOx RECLAIM (tons)	CO (tons)	PM (tons)
External Combustion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Internal Combustion	0.01	0.00	0.08	0.00	0.00	0.00	0.02	0.01
Spray Coating/ Spray Booth	1.11	0.00	0.00	0.00	0.00	0.00	0.00	0.17
Other Use of Organics	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Storage Tanks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fugitive Components	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Process Emissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Shutdown/Startup/Turnaround and Upsets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Permitted Emissions	**1.12**	**0.00**	**0.08**	**0.00**	**0.00**	**0.00**	**0.02**	**0.18**

South Coast AQMD

Annual Emission Report

Reporting Year: **2019**

Print Date: **05/13/2020**

Facility Id: **189282**

Facility Name **TELEVISION CITY PRODUCTIONS, LLC**

Facility Type: **Entertainment**

Criteria Pollutants Non-Permitted Emissions Summary

	VOC (tons)	SPOG (tons)	NOx (tons)	NOx RECLAIM (tons)	SOx (tons)	SOx RECLAIM (tons)	CO (tons)	PM (tons)
External Combustion	0.03	0.00	0.46	0.00	0.00	0.00	0.39	0.03
Internal Combustion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spray Coating/ Spray Booth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Use of Organics	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Storage Tanks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fugitive Components	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Process Emissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Shutdown/Startup/Turnaround and Upsets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Non-Permitted Emissions	**0.03**	**0.00**	**0.46**	**0.00**	**0.00**	**0.00**	**0.39**	**0.03**

South Coast AQMD

Annual Emission Report

Reporting Year: **2019**

Print Date: **05/13/2020**

Facility Id: **189282**

Facility Name **TELEVISION CITY PRODUCTIONS, LLC**

Facility Type: **Entertainment**

Toxic Air Contaminants (TAC) / Ozone Depleting Compounds (ODC) Emissions and Fees Summary

For detailed TAC Records please see related “AER TAC Report” Excel file

South Coast AQMD

Annual Emission Report

Reporting Year: **2019**

Print Date: **05/13/2020**

Facility Id: **189282**

Facility Name **TELEVISION CITY PRODUCTIONS, LLC**

Facility Type: **Entertainment**

Total Emissions and Fees

Submittal Date: No later than April 17 2020	Total Permitted Emissions (tons)	Total Non-Permitted Emissions (tons)	Total RECLAIM Emissions (tons)	Total Emission (tons)	Total Emissions/ Subject To Fee (tons)	Emissions Fees Due
Organic Gasses	1.12	0.03		1.15	0.00	$0.00
Specific Organics	0.00	0.00		0.00	0.00	$0.00
Nitrogen Oxides	0.08	0.46	0.00	0.54	0.00	$0.00
Sulfur Oxides	0.00	0.00	0.00	0.00	0.00	$0.00
Carbon Monoxide	0.02	0.39		0.41	0.00	$0.00
Particulate Matter	0.18	0.03		0.21	0.00	$0.00

1. TOTAL EMISSION FEES FOR ALL CRITERIA POLLUTANTS	$0.00
2. TOXIC AIR CONTAMINANTS/ OZONE DEPLETER FEES (Total amount from Form TACS or DC)	$0.00

TAC Fees Breakdown	
Facility Flat Fee:	$78.03
CPWE Emission Fees:	$65.00
Ammonia & Depleting Compounds (ODC) Fees:	$0.00
Per Device Fees (total devices with fees 5):	$854.75
Fees After Exemption:	$0.00
Total Facility TAC Fees:	$997.78

3. TOTAL FEES DUE	$0.00
4. INSTALLMENTS PAID FOR 2019 - (if any) -- All Criteria Pollutants	$0.00
5. INSTALLMENTS PAID FOR 2019 - (if any) -- Toxic Air Contaminants/Ozone Depleters	$0.00
6. BALANCE DUE (Line 3 - Line 4 - Line 5)	$0.00
7. LATE PAYMENT SURCHARGE	$0.00
8. AMOUNT DUE	**$0.00**

South Coast AQMD

Annual Emission Report

Reporting Year: **2019**

Facility Id: **189282**

Print Date: **05/13/2020**

Facility Name **TELEVISION CITY PRODUCTIONS, LLC**

Facility Type: **Entertainment**

Electronic Certification Sheet

Information

NAICS code:	541330	
AB2588 Filing Period:	No	Brief Description of Operation
RECLAIM:	No	
Facility Operating Status:	Operating	
Classified As Small Business:	No	
Business Operating Hours		Television production facility
Hours/Day;	8	
Days/Week:	5	
Weeks/Year:	50	

Equipment Location Address

Facility Name:
TELEVISION CITY PRODUCTIONS, LLC
7800 BEVERLY BLVD
LOS ANGELES, CA 90036

Mailing Information

Facility Name:
TELEVISION CITY PRODUCTIONS, LLC
11111 Santa Monica Blvd , Suite 1100
Los Angeles , CA 90025 3345

Contact Information

Name:	Jeff Mapes	Phone:	323 575-2465
Title:		Fax:	
E-mail:	jeff.mapes@tvcityla.com		

Preparer Information

Name:	Patrick Luu	Phone:	714 893-7900
Title:	Consultant	Fax:	
E-mail:	luu@proehs.com		

Authorized Person Information

Name:	Jeff Mapes	Phone:	323 575-2465
Title:		Fax:	
E-mail:	jeff.mapes@tvcityla.com		

I declare under penalty of perjury that the data submitted truly represents throughput and emissions for this reporting period, and that the emission factors represent the best available data for my company in the calculation of annual emission figures.

[x] I acknowledge that I have read the South Coast AQMD Certification Statement.*

[x] I agree on the responsibility for this AER Report Submission in accordance with Certification Statement.*

South Coast

AQMD

Annual Emission Report

Reporting Year: **2019**

Facility Id: **189282**

Print Date: **05/13/2020**

Facility Name **TELEVISION CITY PRODUCTIONS, LLC**

Facility Type: **Entertainment**

AER Submittal Confirmation

Thank you for submitting your Annual Emissions Report for Facility ID: 189282.

Please print the AER Payment Voucher and include the check for emission fees due if applicable and mail them to the SCAQMD.

AER Payment Voucher and check are first received and processed by Bank of America for check deposits, return receipts for certified mails will be stamped by Bank of America rather than AQMD. Please mail the required AER Payment Voucher and check to the following address:

South Coast Air Quality Management District
Annual Emission Reporting Program
File No. 54493
Los Angeles, CA 90074-4493

* To avoid late payment surcharges, all mails must be postmarked by the Post Office on or before April 17, 2020

NOTE: For any overnight delivery, example FedEx, please use the following address:

Bank of America Lockbox Services
Lockbox LAC-054493
2706 Media Center Drive
Los Angeles, CA. 90065

If you wish to use a messenger (or hand deliver), the package should be delivered to the cashier's booth at AQMD Headquarters at the address listed below in Diamond Bar on or before 5:00 p.m. April 17, 2020
Please note that AQMD is closed on Mondays.

South Coast Air Quality Management District
ATTN: Finance Cashier
Annual Emission Reporting Program
21865 Copley Drive
Diamond Bar, CA 91765-4178

South Coast AQMD

Annual Emission Report

Reporting Year: **2020**

Print Date: **03/10/2021**

Facility Id: **189282**

Facility Name **TELEVISION CITY PRODUCTIONS, LLC**

Facility Type: **Entertainment**

StatusUpdate

Facility ID	189282
Facility Shutdown Date	N/A
Change of Ownership Date	N/A
Change in Equipment Location Date	N/A
Emissions are zero for this year's report, or emissions reduced by 50%	N/A
Exemption Request	N/A
Use of alternative Calculation methodology	N/A
Other	N/A
Refund Request	N/A

South Coast AQMD

Annual Emission Report

Reporting Year: **2020**

Print Date: **03/10/2021**

Facility Id: **189282**

Facility Name **TELEVISION CITY PRODUCTIONS, LLC**

Facility Type: **Entertainment**

External Combustion Process List Overview

AER Device ID	Permit Device ID	A/N	Process ID	Equipment	Fuel	Fuel Usage	Units		Criteria Pollutant Units	ROG	SPOG	NOx	SOx	CO	PM
ES11			P1	Boiler <10 MMBTU/HR	Natural Gas	28.936135	mmscf	EF	lbs/ mmscf	5.500000		100.000000	0.600000	84.000000	7.600000
								Emissions	lbs	159.15		2,893.61	17.36	2,430.64	219.91

Total Emissions	lbs	159.15		2,893.61	17.36	2,430.64	219.91
Total Emissions	tons	0.08	0.00	1.45	0.01	1.22	0.11

South Coast AQMD

Annual Emission Report

Reporting Year: **2020**

Print Date: **03/10/2021**

Facility Id: **189282**

Facility Name **TELEVISION CITY PRODUCTIONS, LLC**

Facility Type: **Entertainment**

Internal Combustion Process List Overview

AER Device ID	Permit Device ID	A/N	Process ID	Equipment	Fuel	Fuel Usage	Units		Criteria Pollutant Units	ROG	SPOG	NOx	SOx	CO	PM
ES1		610182	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn	Distillate Fuel Oil No. 2 (Diesel)	2.150250	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
								Emissions	lbs	80.63		1,008.47	0.45	219.33	72.03
ES2		610185	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn	Distillate Fuel Oil No. 2 (Diesel)	0.942720	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
								Emissions	lbs	35.35		442.14	0.20	96.16	31.58
ES3		610180	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn	Distillate Fuel Oil No. 2 (Diesel)	0.248870	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
								Emissions	lbs	9.33		116.72	0.05	25.38	8.34
ES4		610183	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn	Distillate Fuel Oil No. 2 (Diesel)	0.428060	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
								Emissions	lbs	16.05		200.76	0.09	43.66	14.34
ES5		610184	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn	Distillate Fuel Oil No. 2 (Diesel)	0.362360	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
								Emissions	lbs	13.59		169.95	0.08	36.96	12.14
ES12		618456	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn	Distillate Fuel Oil No. 2 (Diesel)	2.923740	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	0.012000
								Emissions	lbs	109.64		1,371.23	0.61	298.22	0.04

Total Emissions	lbs	264.60		3,309.26	1.48	719.71	138.47
Total Emissions	tons	0.13	0.00	1.65	0.00	0.36	0.07

South Coast AQMD

Annual Emission Report

Reporting Year: **2020**

Print Date: **03/10/2021**

Facility Id: **189282**

Facility Name **TELEVISION CITY PRODUCTIONS, LLC**

Facility Type: **Entertainment**

Spray Coating/Spray Booth Process List Overview

AER Device ID	Permit Device ID	A/N	Process ID	Equipment	Material Activity Code	Material Description	Usage	Units		Criteria Pollutant Units	ROG	SPOG	NOx	SOx	CO	PM
ES7		610178	P1	Spray Booth	Coating : Wood Flat Stock Coating Operations : HVLP Application : Adhesive	Spray 77	1.570000	gal	EF	lbs/ gal	4.253400					1.050000
									Emissions	lbs	6.68					0.16
ES7		610178	P2	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Evershield	2.500000	gal	EF	lbs/ gal	0.416700					1.050000
									Emissions	lbs	1.04					0.26
ES7		610178	P3	Spray Booth	Solvents : Solvent Cleaning Operations : Wipe Cleaning : Product Cleaning/Surface Preparation	Rapid Tac	2.000000	gal	EF	lbs/ gal	1.150920					
									Emissions	lbs	2.30					
ES7		610178	P4	Spray Booth	Solvents : Solvent Cleaning Operations : Wipe Cleaning : Product Cleaning/Surface Preparation	Bestine	1.500000	gal	EF	lbs/ gal	8.340000					
									Emissions	lbs	12.51					
ES7		610178	P5	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Clear Topcoat	Krylon Clear	0.093750	gal	EF	lbs/ gal						1.050000
									Emissions	lbs						0.01
ES7		610178	P6	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Clear Topcoat	Krylon Dulling	0.171875	gal	EF	lbs/ gal	6.792100					1.050000
									Emissions	lbs	1.17					0.02
ES7		610178	P7	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Krylon Gloss	0.562500	gal	EF	lbs/ gal						1.050000
									Emissions	lbs						0.06
ES7		610178	P8	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Krylon Satin	0.562500	gal	EF	lbs/ gal						1.050000
									Emissions	lbs						0.06

AER Device ID	Permit Device ID	A/N	Process ID	Equipment	Material Activity Code	Material Description	Usage	Units		Criteria Pollutant Units	ROG	SPOG	NOx	SOx	CO	PM
ES9		610186	P1	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Fresh	0.000000	gal	EF	lbs/ gal	0.416700					1.050000
									Emissions	lbs	0.00					0.00
ES9		610186	P2	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Lux	13.500000	gal	EF	lbs/ gal	0.834000					1.050000
									Emissions	lbs	11.26					1.42
ES9		610186	P3	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Pro Solutions	1.500000	gal	EF	lbs/ gal	1.508340					1.050000
									Emissions	lbs	2.26					0.16
ES9		610186	P4	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Rustoleum	0.250000	gal	EF	lbs/ gal	0.834000					1.050000
									Emissions	lbs	0.21					0.03
ES9		610186	P5	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Stripe 60	2.250000	gal	EF	lbs/ gal	0.500000					1.050000
									Emissions	lbs	1.13					0.24
ES9		610186	P6	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Stripe 75	0.000000	gal	EF	lbs/ gal	0.625000					1.050000
									Emissions	lbs	0.00					0.00
ES9		610186	P7	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Suprema 25	69.000000	gal	EF	lbs/ gal	0.208340					1.050000
									Emissions	lbs	14.38					7.25
ES9		610186	P8	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Suprema 40	212.500000	gal	EF	lbs/ gal	0.340000					1.050000
									Emissions	lbs	72.25					22.31
ES9		610186	P9	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Suprema 50	14.250000	gal	EF	lbs/ gal	0.416700					1.050000
									Emissions	lbs	5.94					1.50
ES9		610186	P10	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Ultra	65.500000	gal	EF	lbs/ gal	0.416700					1.050000
									Emissions	lbs	27.29					6.88
ES9		610186	P11	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Valspar	15.500000	gal	EF	lbs/ gal	2.291670					1.050000
									Emissions	lbs	35.52					1.63
ES9		610186	P12	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Acri-var	1.750000	gal	EF	lbs/ gal	2.291670					1.050000
									Emissions	lbs	4.01					0.18
ES9		610186	P13	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Aristoshield	2.250000	gal	EF	lbs/ gal	0.416700					1.050000
									Emissions	lbs	0.94					0.24

AER Device ID	Permit Device ID	A/N	Process ID	Equipment	Material Activity Code	Material Description	Usage	Units		Criteria Pollutant Units	ROG	SPOG	NOx	SOx	CO	PM
ES9		610186	P14	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Base	0.875000	gal	EF	lbs/ gal	4.167000					1.050000
									Emissions	lbs	3.65					0.09
ES9		610186	P15	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Inslx	8.000000	gal	EF	lbs/ gal	0.834000					1.050000
									Emissions	lbs	6.67					0.84
ES9		610186	P16	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Scotch 100	4.000000	gal	EF	lbs/ gal	0.834000					1.050000
									Emissions	lbs	3.34					0.42
ES9		610186	P17	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Scotch 150	3.000000	gal	EF	lbs/ gal	1.250000					1.050000
									Emissions	lbs	3.75					0.32
ES9		610186	P18	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	XIM	1.250000	gal	EF	lbs/ gal	0.834000					1.050000
									Emissions	lbs	1.04					0.13
ES10		610187	P1	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 0.00	273.000000	gal	EF	lbs/ gal						1.050000
									Emissions	lbs						28.67
ES10		610187	P3	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 0.02	3.000000	gal	EF	lbs/ gal	0.020000					1.050000
									Emissions	lbs	0.06					0.32
ES10		610187	P4	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 0.08	0.500000	gal	EF	lbs/ gal	0.080000					1.050000
									Emissions	lbs	0.04					0.05
ES10		610187	P5	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 0.11	0.000000	gal	EF	lbs/ gal	0.110000					1.050000
									Emissions	lbs	0.00					0.00
ES10		610187	P6	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 0.17	11.000000	gal	EF	lbs/ gal	0.170000					1.050000
									Emissions	lbs	1.87					1.16
ES10		610187	P7	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 0.33	573.250000	gal	EF	lbs/ gal	0.330000					1.050000
									Emissions	lbs	189.17					60.19
ES10		610187	P8	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 0.336	0.000000	gal	EF	lbs/ gal	0.336000					1.050000
									Emissions	lbs	0.00					0.00
ES10		610187	P9	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 0.4	226.000000	gal	EF	lbs/ gal	0.400000					1.050000
									Emissions	lbs	90.40					23.73

AER Device ID	Permit Device ID	A/N	Process ID	Equipment	Material Activity Code	Material Description	Usage	Units		Criteria Pollutant Units	ROG	SPOG	NOx	SOx	CO	PM
ES10		610187	P10	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 0.41	9.500000	gal	EF	lbs/ gal	0.410000					1.050000
									Emissions	lbs	3.90					1.00
ES10		610187	P11	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 0.417	0.000000	gal	EF	lbs/ gal	0.417000					1.050000
									Emissions	lbs	0.00					0.00
ES10		610187	P12	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 0.44	55.250000	gal	EF	lbs/ gal	0.440000					1.050000
									Emissions	lbs	24.31					5.80
ES10		610187	P13	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 0.5	0.000000	gal	EF	lbs/ gal	0.500000					1.050000
									Emissions	lbs	0.00					0.00
ES10		610187	P14	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 0.64	1.000000	gal	EF	lbs/ gal	0.640000					1.050000
									Emissions	lbs	0.64					0.11
ES10		610187	P15	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 0.83	0.500000	gal	EF	lbs/ gal	0.830000					1.050000
									Emissions	lbs	0.42					0.05
ES10		610187	P16	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 1.03	6.250000	gal	EF	lbs/ gal	1.030000					1.050000
									Emissions	lbs	6.44					0.66
ES10		610187	P17	Spray Booth	Coating : Wood Products Coatings : Other : Pigmented Topcoats	Coating - 1.25	109.250000	gal	EF	lbs/ gal	1.250000					1.050000
									Emissions	lbs	136.56					11.47
ES10		610187	P18	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 1.3	5.000000	gal	EF	lbs/ gal	1.300000					1.050000
									Emissions	lbs	6.50					0.53
ES10		610187	P19	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 1.4	11.000000	gal	EF	lbs/ gal	1.400000					1.050000
									Emissions	lbs	15.40					1.16
ES10		610187	P20	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 1.69	15.500000	gal	EF	lbs/ gal	1.690000					1.050000
									Emissions	lbs	26.20					1.63
ES10		610187	P21	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 1.696	0.000000	gal	EF	lbs/ gal	1.696000					1.050000
									Emissions	lbs	0.00					0.00
ES10		610187	P22	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 1.8	0.000000	gal	EF	lbs/ gal	1.800000					1.050000
									Emissions	lbs	0.00					0.00

AER Device ID	Permit Device ID	A/N	Process ID	Equipment	Material Activity Code	Material Description	Usage	Units		Criteria Pollutant Units	ROG	SPOG	NOx	SOx	CO	PM
ES10		610187	P23	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 1.82	0.000000	gal	EF	lbs/ gal	1.820000					1.050000
									Emissions	lbs	0.00					0.00
ES10		610187	P24	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 1.85	0.000000	gal	EF	lbs/ gal	1.850000					1.050000
									Emissions	lbs	0.00					0.00
ES10		610187	P25	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 1.92	4.000000	gal	EF	lbs/ gal	1.920000					1.050000
									Emissions	lbs	7.68					0.42
ES10		610187	P26	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 1.94	138.000000	gal	EF	lbs/ gal	1.920000					1.050000
									Emissions	lbs	264.96					14.49
ES10		610187	P27	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 2.00	17.000000	gal	EF	lbs/ gal	2.000000					1.050000
									Emissions	lbs	34.00					1.79
ES10		610187	P28	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 2.08	36.750000	gal	EF	lbs/ gal	2.080000					1.050000
									Emissions	lbs	76.44					3.86
ES10		610187	P29	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 2.1	182.250000	gal	EF	lbs/ gal	2.100000					1.050000
									Emissions	lbs	382.73					19.14
ES10		610187	P30	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 2.2	1.500000	gal	EF	lbs/ gal	2.200000					1.050000
									Emissions	lbs	3.30					0.16
ES10		610187	P31	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 4.59	0.750000	gal	EF	lbs/ gal	0.750000					1.050000
									Emissions	lbs	0.56					0.08
ES10		610187	P32	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 6.00	5.500000	gal	EF	lbs/ gal	6.000000					1.050000
									Emissions	lbs	33.00					0.58
ES10		610187	P33	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 0.3	2.250000	gal	EF	lbs/ gal	0.300000					1.050000
									Emissions	lbs	0.68					0.24
ES10		610187	P34	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 0.441	1.000000	gal	EF	lbs/ gal	0.441000					1.050000
									Emissions	lbs	0.44					0.11
ES10		610187	P35	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 0.4412	12.000000	gal	EF	lbs/ gal	0.441200					1.050000
									Emissions	lbs	5.29					1.26

AER Device ID	Permit Device ID	A/N	Process ID	Equipment	Material Activity Code	Material Description	Usage	Units		Criteria Pollutant Units	ROG	SPOG	NOx	SOx	CO	PM
ES10		610187	P36	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 0.75	0.750000	gal	EF	lbs/ gal	0.750000					1.050000
									Emissions	lbs	0.56					0.08
ES10		610187	P37	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 1.01	2.000000	gal	EF	lbs/ gal	1.010000					1.050000
									Emissions	lbs	2.02					0.21
ES10		610187	P38	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 1.04	2.000000	gal	EF	lbs/ gal	1.040000					1.050000
									Emissions	lbs	2.08					0.21
ES10		610187	P39	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 2.3	9.000000	gal	EF	lbs/ gal	2.300000					1.050000
									Emissions	lbs	20.70					0.95
ES10		610187	P40	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 2.4	17.000000	gal	EF	lbs/ gal	2.400000					1.050000
									Emissions	lbs	40.80					1.79
ES10		610187	P41	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 2.8	2.000000	gal	EF	lbs/ gal	2.800000					1.050000
									Emissions	lbs	5.60					0.21

Total Emissions	lbs	1,600.06					226.23
Total Emissions	tons	0.80	0.00	0.00	0.00	0.00	0.11

South Coast AQMD

Annual Emission Report

Reporting Year: **2020**

Print Date: **03/10/2021**

Facility Id: **189282**

Facility Name **TELEVISION CITY PRODUCTIONS, LLC**

Facility Type: **Entertainment**

Criteria Pollutants Permitted Emissions Summary

	VOC (tons)	SPOG (tons)	NOx (tons)	NOx RECLAIM (tons)	SOx (tons)	SOx RECLAIM (tons)	CO (tons)	PM (tons)
External Combustion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Internal Combustion	0.13	0.00	1.65	0.00	0.00	0.00	0.36	0.07
Spray Coating/ Spray Booth	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.11
Other Use of Organics	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Storage Tanks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fugitive Components	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Process Emissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Shutdown/Startup/Turnaround and Upsets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Permitted Emissions	**0.93**	**0.00**	**1.65**	**0.00**	**0.00**	**0.00**	**0.36**	**0.18**

South Coast AQMD

Annual Emission Report

Reporting Year: **2020**

Print Date: **03/10/2021**

Facility Id: **189282**

Facility Name **TELEVISION CITY PRODUCTIONS, LLC**

Facility Type: **Entertainment**

Criteria Pollutants Non-Permitted Emissions Summary

	VOC (tons)	SPOG (tons)	NOx (tons)	NOx RECLAIM (tons)	SOx (tons)	SOx RECLAIM (tons)	CO (tons)	PM (tons)
External Combustion	0.08	0.00	1.45	0.00	0.01	0.00	1.22	0.11
Internal Combustion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spray Coating/ Spray Booth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Use of Organics	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Storage Tanks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fugitive Components	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Process Emissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Shutdown/Startup/Turnaround and Upsets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Non-Permitted Emissions	**0.08**	**0.00**	**1.45**	**0.00**	**0.01**	**0.00**	**1.22**	**0.11**

South Coast AQMD

Annual Emission Report

Reporting Year: **2020**

Print Date: **03/10/2021**

Facility Id: **189282**

Facility Name **TELEVISION CITY PRODUCTIONS, LLC**

Facility Type: **Entertainment**

Toxic Air Contaminants (TAC) / Ozone Depleting Compounds (ODC) Emissions and Fees Summary

For detailed TAC Records please see
related “AER TAC Report” Excel file

South Coast AQMD

Annual Emission Report

Reporting Year: **2020**

Facility Id: **189282**

Print Date: **03/10/2021**

Facility Name **TELEVISION CITY PRODUCTIONS, LLC**

Facility Type: **Entertainment**

Total Emissions and Fees

Submittal Date: No later than March 17 2021	Total Permitted Emissions (tons)	Total Non-Permitted Emissions (tons)	Total RECLAIM Emissions (tons)	Total Emission (tons)	Total Emissions/ Subject To Fee (tons)	Emissions Fees Due
Organic Gasses	0.93	0.08		1.01	0.00	$0.00
Specific Organics	0.00	0.00		0.00	0.00	$0.00
Nitrogen Oxides	1.65	1.45	0.00	3.10	0.00	$0.00
Sulfur Oxides	0.00	0.01	0.00	0.01	0.00	$0.00
Carbon Monoxide	0.36	1.22		1.58	0.00	$0.00
Particulate Matter	0.18	0.11		0.29	0.00	$0.00

1. TOTAL EMISSION FEES FOR ALL CRITERIA POLLUTANTS	$0.00
2. TOXIC AIR CONTAMINANTS/ OZONE DEPLETER FEES (Total amount from Form TACS or DC)	$0.00

TAC Fees Breakdown	
Facility Flat Fee:	$78.03
CPWE Emission Fees:	$1520.00
Ammonia & Depleting Compounds (ODC) Fees:	$0.00
Per Device Fees (total devices with fees 6):	$2051.34
Fees After Exemption:	$0.00
Total Facility TAC Fees:	$3649.37

3. TOTAL FEES DUE	$0.00
4. INSTALLMENTS PAID FOR 2020 - (if any) -- All Criteria Pollutants	$0.00
5. INSTALLMENTS PAID FOR 2020 - (if any) -- Toxic Air Contaminants/Ozone Depleters	$0.00
6. BALANCE DUE (Line 3 - Line 4 - Line 5)	$0.00
7. LATE PAYMENT SURCHARGE	$0.00
8. AMOUNT DUE	**$0.00**

South Coast AQMD

Annual Emission Report

Reporting Year: **2020**

Facility Id: **189282**

Print Date: **03/10/2021**

Facility Name **TELEVISION CITY PRODUCTIONS, LLC**

Facility Type: **Entertainment**

Electronic Certification Sheet

Information

NAICS code:	541330	
AB2588 Filing Period:	No	Brief Description of Operation
RECLAIM:	No	
Facility Operating Status:	Operating	
Classified As Small Business:	No	
Business Operating Hours		Television production facility
Hours/Day;	8	
Days/Week:	5	
Weeks/Year:	50	

Equipment Location Address

Facility Name:
TELEVISION CITY PRODUCTIONS, LLC
7800 BEVERLY BLVD
LOS ANGELES, CA 90036

Mailing Information

Facility Name:
TELEVISION CITY PRODUCTIONS, LLC
11111 Santa Monica Blvd , Suite 1100
Los Angeles , CA 90025 3345

Contact Information

Name:	Jeff Mapes	Phone:	323 575-2465
Title:		Fax:	
E-mail:	jeff.mapes@tvcityla.com		

Preparer Information

Name:	Patrick Luu	Phone:	714 893-7900
Title:	Consultant	Fax:	
E-mail:	luu@proehs.com		

Authorized Person Information

Name:	Jeff Mapes	Phone:	323 575-2465
Title:		Fax:	
E-mail:	jeff.mapes@tvcityla.com		

I declare under penalty of perjury that the data submitted truly represents throughput and emissions for this reporting period, and that the emission factors represent the best available data for my company in the calculation of annual emission figures.

[x] I acknowledge that I have read the South Coast AQMD Certification Statement.*

[x] I agree on the responsibility for this AER Report Submission in accordance with Certification Statement.*

South Coast AQMD

Annual Emission Report

Reporting Year: **2020**

Facility Id: **189282**

Print Date: **03/10/2021**

Facility Name **TELEVISION CITY PRODUCTIONS, LLC**

Facility Type: **Entertainment**

AER Submittal Confirmation

Thank you for submitting your Annual Emissions Report for Facility ID: 189282.

Please print the AER Payment Voucher and include the check for emission fees due if applicable and mail them to the SCAQMD.

AER Payment Voucher and check are first received and processed by Bank of America for check deposits, return receipts for certified mails will be stamped by Bank of America rather than AQMD. Please mail the required AER Payment Voucher and check to the following address:

South Coast Air Quality Management District
Annual Emission Reporting Program
File No. 54493
Los Angeles, CA 90074-4493

* To avoid late payment surcharges, all mails must be postmarked by the Post Office on or before March 17, 2021

NOTE: For any overnight delivery, example FedEx, please use the following address:

Bank of America Lockbox Services
Lockbox LAC-054493
2706 Media Center Drive
Los Angeles, CA. 90065

If you wish to use a messenger (or hand deliver), the package should be delivered to the cashier's booth at AQMD Headquarters at the address listed below in Diamond Bar on or before 5:00 p.m. March 17, 2021
Please note that AQMD is closed on Mondays.

South Coast Air Quality Management District
ATTN: Cash Management
Annual Emission Reporting Program
21865 Copley Drive
Diamond Bar, CA 91765-4178

South Coast AQMD

Annual Emission Report

Reporting Year: **2021**

Print Date: **02/21/2022**

Facility Id: **189282**

Facility Name **TELEVISION CITY PRODUCTIONS, LLC**

Facility Type: **Entertainment**

StatusUpdate

Facility ID	189282
Facility Shutdown Date	N/A
Change of Ownership Date	N/A
Change in Equipment Location Date	N/A
Emissions are zero for this year's report, or emissions reduced by 50%	N/A
Exemption Request	N/A
Use of alternative Calculation methodology	N/A
Other	N/A
Refund Request	N/A
Data is Confidential	NO

South Coast AQMD

Annual Emission Report

Reporting Year: **2021**

Print Date: **02/21/2022**

Facility Id: **189282**

Facility Name **TELEVISION CITY PRODUCTIONS, LLC**

Facility Type: **Entertainment**

External Combustion Process List Overview

AER Device ID	Permit Device ID	A/N	Process ID	Equipment	Fuel	Fuel Usage	Units		Criteria Pollutant Units	ROG	SPOG	NOx	SOx	CO	PM
ES11			P1	Boiler <10 MMBTU/HR	Natural Gas	28.491932	mmscf	EF	lbs/ mmscf	5.500000		100.000000	0.600000	84.000000	7.600000
								Emissions	lbs	156.71		2,849.19	17.10	2,393.32	216.54

Total Emissions	lbs	156.71		2,849.19	17.10	2,393.32	216.54
Total Emissions	tons	0.08	0.00	1.42	0.01	1.20	0.11

South Coast AQMD

Annual Emission Report

Reporting Year: **2021**

Print Date: **02/21/2022**

Facility Id: **189282**

Facility Name **TELEVISION CITY PRODUCTIONS, LLC**

Facility Type: **Entertainment**

Internal Combustion Process List Overview

AER Device ID	Permit Device ID	A/N	Process ID	Equipment	Fuel	Fuel Usage	Units		Criteria Pollutant Units	ROG	SPOG	NOx	SOx	CO	PM
ES1		610182	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn	Distillate Fuel Oil No. 2 (Diesel)	0.634400	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
								Emissions	lbs	23.79		297.53	0.13	64.71	21.25
ES2		610185	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn	Distillate Fuel Oil No. 2 (Diesel)	0.196800	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
								Emissions	lbs	7.38		92.30	0.04	20.07	6.59
ES3		610180	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn	Distillate Fuel Oil No. 2 (Diesel)	0.052170	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
								Emissions	lbs	1.96		24.47	0.01	5.32	1.75
ES4		610183	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn	Distillate Fuel Oil No. 2 (Diesel)	0.196200	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
								Emissions	lbs	7.36		92.02	0.04	20.01	6.57
ES5		610184	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn	Distillate Fuel Oil No. 2 (Diesel)	0.084930	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
								Emissions	lbs	3.18		39.83	0.02	8.66	2.85
ES12		618456	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn	Distillate Fuel Oil No. 2 (Diesel)	1.104000	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	0.012000
								Emissions	lbs	41.40		517.78	0.23	112.61	0.01

Total Emissions	lbs	85.07		1,063.93	0.48	231.39	39.02
Total Emissions	tons	0.04	0.00	0.53	0.00	0.12	0.02

South Coast AQMD

Annual Emission Report

Reporting Year: **2021**

Print Date: **02/21/2022**

Facility Id: **189282**

Facility Name **TELEVISION CITY PRODUCTIONS, LLC**

Facility Type: **Entertainment**

Spray Coating/Spray Booth Process List Overview

AER Device ID	Permit Device ID	A/N	Process ID	Equipment	Material Activity Code	Material Description	Usage	Units		Criteria Pollutant Units	ROG	SPOG	NOx	SOx	CO	PM
ES7		610178	P1	Spray Booth	Coating : Wood Flat Stock Coating Operations : HVLP Application : Adhesive	Spray 77	1.570310	gal	EF	lbs/ gal	4.253400					1.050000
									Emissions	lbs	6.68					0.16
ES7		610178	P2	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Evershield	1.000000	gal	EF	lbs/ gal	0.416700					1.050000
									Emissions	lbs	0.42					0.11
ES7		610178	P3	Spray Booth	Solvents : Solvent Cleaning Operations : Wipe Cleaning : Product Cleaning/Surface Preparation	Rapid Tac	2.000000	gal	EF	lbs/ gal	1.150920					1.050000
									Emissions	lbs	2.30					0.21
ES7		610178	P4	Spray Booth	Solvents : Solvent Cleaning Operations : Wipe Cleaning : Product Cleaning/Surface Preparation	Bestine	1.500000	gal	EF	lbs/ gal	8.340000					1.050000
									Emissions	lbs	12.51					0.16
ES7		610178	P5	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Clear Topcoat	Krylon Clear	0.093750	gal	EF	lbs/ gal	1.150900					1.050000
									Emissions	lbs	0.11					0.01
ES7		610178	P6	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Clear Topcoat	Krylon Dulling	0.171875	gal	EF	lbs/ gal	6.792100					1.050000
									Emissions	lbs	1.17					0.02
ES7		610178	P7	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Krylon Gloss	0.750000	gal	EF	lbs/ gal						1.050000
									Emissions	lbs						0.08
ES7		610178	P8	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Krylon Satin	0.750000	gal	EF	lbs/ gal						1.050000
									Emissions	lbs						0.08

AER Device ID	Permit Device ID	A/N	Process ID	Equipment	Material Activity Code	Material Description	Usage	Units		Criteria Pollutant Units	ROG	SPOG	NOx	SOx	CO	PM
ES9		610186	P1	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Fresh	0.500000	gal	EF	lbs/ gal	0.416700					1.050000
									Emissions	lbs	0.21					0.05
ES9		610186	P2	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Lux	25.770000	gal	EF	lbs/ gal	0.834000					1.050000
									Emissions	lbs	21.49					2.71
ES9		610186	P3	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Pro Solutions	0.000000	gal	EF	lbs/ gal	1.508340					1.050000
									Emissions	lbs	0.00					0.00
ES9		610186	P4	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Rustoleum	7.250000	gal	EF	lbs/ gal	0.834000					1.050000
									Emissions	lbs	6.05					0.76
ES9		610186	P5	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Stripe 60	0.000000	gal	EF	lbs/ gal	0.500000					1.050000
									Emissions	lbs	0.00					0.00
ES9		610186	P6	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Stripe 75	1.750000	gal	EF	lbs/ gal	0.625000					1.050000
									Emissions	lbs	1.09					0.18
ES9		610186	P7	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Suprema 25	0.000000	gal	EF	lbs/ gal	0.208340					1.050000
									Emissions	lbs	0.00					0.00
ES9		610186	P8	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Suprema 40	0.000000	gal	EF	lbs/ gal	0.340000					1.050000
									Emissions	lbs	0.00					0.00
ES9		610186	P9	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Suprema 50	245.530000	gal	EF	lbs/ gal	0.416700					1.050000
									Emissions	lbs	102.31					25.78
ES9		610186	P10	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Ultra	45.260000	gal	EF	lbs/ gal	0.416700					1.050000
									Emissions	lbs	18.86					4.75
ES9		610186	P11	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Valspar	4.750000	gal	EF	lbs/ gal	2.291670					1.050000
									Emissions	lbs	10.89					0.50
ES9		610186	P12	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Acri-var	0.500000	gal	EF	lbs/ gal	2.291670					1.050000
									Emissions	lbs	1.15					0.05
ES9		610186	P13	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Aristoshield	10.590000	gal	EF	lbs/ gal	0.416700					1.050000
									Emissions	lbs	4.41					1.11

AER Device ID	Permit Device ID	A/N	Process ID	Equipment	Material Activity Code	Material Description	Usage	Units		Criteria Pollutant Units	ROG	SPOG	NOx	SOx	CO	PM
ES9		610186	P14	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Axalta	3.670000	gal	EF	lbs/ gal	0.420000					1.050000
									Emissions	lbs	1.54					0.39
ES9		610186	P15	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Dex-Coat	6.000000	gal	EF	lbs/ gal	0.416895					1.050000
									Emissions	lbs	2.50					0.63
ES9		610186	P16	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Scotch 100	0.000000	gal	EF	lbs/ gal	0.834000					1.050000
									Emissions	lbs	0.00					0.00
ES9		610186	P17	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Scotch 150	0.000000	gal	EF	lbs/ gal	1.250000					1.050000
									Emissions	lbs	0.00					0.00
ES9		610186	P18	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	XIM	0.250000	gal	EF	lbs/ gal	0.834000					1.050000
									Emissions	lbs	0.21					0.03
ES9		610186	P19	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	De-Endura	6.490000	gal	EF	lbs/ gal	0.416895					1.050000
									Emissions	lbs	2.71					0.68
ES9		610186	P20	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Clear Topcoat	Sparta Shield	13.010000	gal	EF	lbs/ gal	0.416895					1.050000
									Emissions	lbs	5.42					1.37
ES9		610186	P21	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Stains, Toners, and Washcoats	Wax Stain	0.620000	gal	EF	lbs/ gal	4.585849					1.050000
									Emissions	lbs	2.84					0.07
ES9		610186	P22	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Stains, Toners, and Washcoats	Wood Stain	0.250000	gal	EF	lbs/ gal	2.084477					1.050000
									Emissions	lbs	0.52					0.03
ES9		610186	P23	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Krylon Coat	0.750000	gal	EF	lbs/ gal	3.451894					1.050000
									Emissions	lbs	2.59					0.08
ES10		610187	P1	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 0.00	326.500000	gal	EF	lbs/ gal						1.050000
									Emissions	lbs						34.28
ES10		610187	P3	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 0.02	45.000000	gal	EF	lbs/ gal	0.020000					1.050000
									Emissions	lbs	0.90					4.73
ES10		610187	P4	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 0.08	0.500000	gal	EF	lbs/ gal	0.080000					1.050000
									Emissions	lbs	0.04					0.05

AER Device ID	Permit Device ID	A/N	Process ID	Equipment	Material Activity Code	Material Description	Usage	Units		Criteria Pollutant Units	ROG	SPOG	NOx	SOx	CO	PM
ES10		610187	P5	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 0.11	1.000000	gal	EF	lbs/ gal	0.110000					1.050000
									Emissions	lbs	0.11					0.11
ES10		610187	P6	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 0.17	8.750000	gal	EF	lbs/ gal	0.170000					1.050000
									Emissions	lbs	1.49					0.92
ES10		610187	P7	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 0.33	392.750000	gal	EF	lbs/ gal	0.330000					1.050000
									Emissions	lbs	129.61					41.24
ES10		610187	P8	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 0.34	0.750000	gal	EF	lbs/ gal	0.340000					1.050000
									Emissions	lbs	0.26					0.08
ES10		610187	P9	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 0.4	121.750000	gal	EF	lbs/ gal	0.400000					1.050000
									Emissions	lbs	48.70					12.78
ES10		610187	P10	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 0.41	33.500000	gal	EF	lbs/ gal	0.410000					1.050000
									Emissions	lbs	13.74					3.52
ES10		610187	P11	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 0.42	29.500000	gal	EF	lbs/ gal	0.420000					1.050000
									Emissions	lbs	12.39					3.10
ES10		610187	P12	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 0.43	11.000000	gal	EF	lbs/ gal	0.430000					1.050000
									Emissions	lbs	4.73					1.16
ES10		610187	P13	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 2.09	33.000000	gal	EF	lbs/ gal	2.090000					1.050000
									Emissions	lbs	68.97					3.47
ES10		610187	P14	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 2.11	0.250000	gal	EF	lbs/ gal	2.110000					1.050000
									Emissions	lbs	0.53					0.03
ES10		610187	P15	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 0.83	0.000000	gal	EF	lbs/ gal	0.830000					1.050000
									Emissions	lbs	0.00					0.00
ES10		610187	P16	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 1.03	12.250000	gal	EF	lbs/ gal	1.030000					1.050000
									Emissions	lbs	12.62					1.29
ES10		610187	P17	Spray Booth	Coating : Wood Products Coatings : Other : Pigmented Topcoats	Coating - 1.25	47.750000	gal	EF	lbs/ gal	1.250000					1.050000
									Emissions	lbs	59.69					5.01

AER Device ID	Permit Device ID	A/N	Process ID	Equipment	Material Activity Code	Material Description	Usage	Units		Criteria Pollutant Units	ROG	SPOG	NOx	SOx	CO	PM
ES10		610187	P18	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 1.26	14.250000	gal	EF	lbs/ gal	1.260000					1.050000
									Emissions	lbs	17.96					1.50
ES10		610187	P19	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 1.4	8.250000	gal	EF	lbs/ gal	1.400000					1.050000
									Emissions	lbs	11.55					0.87
ES10		610187	P20	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 1.69	2.500000	gal	EF	lbs/ gal	1.690000					1.050000
									Emissions	lbs	4.23					0.26
ES10		610187	P21	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 1.696	0.000000	gal	EF	lbs/ gal	1.696000					1.050000
									Emissions	lbs	0.00					0.00
ES10		610187	P22	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 1.8	0.000000	gal	EF	lbs/ gal	1.800000					1.050000
									Emissions	lbs	0.00					0.00
ES10		610187	P23	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 1.82	0.750000	gal	EF	lbs/ gal	1.820000					1.050000
									Emissions	lbs	1.37					0.08
ES10		610187	P24	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 1.85	0.000000	gal	EF	lbs/ gal	1.850000					1.050000
									Emissions	lbs	0.00					0.00
ES10		610187	P25	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 1.92	13.500000	gal	EF	lbs/ gal	1.920000					1.050000
									Emissions	lbs	25.92					1.42
ES10		610187	P26	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 1.94	103.000000	gal	EF	lbs/ gal	1.920000					1.050000
									Emissions	lbs	197.76					10.82
ES10		610187	P27	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 2.00	12.250000	gal	EF	lbs/ gal	2.000000					1.050000
									Emissions	lbs	24.50					1.29
ES10		610187	P28	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 2.08	94.250000	gal	EF	lbs/ gal	2.080000					1.050000
									Emissions	lbs	196.04					9.90
ES10		610187	P29	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 2.1	119.250000	gal	EF	lbs/ gal	2.100000					1.050000
									Emissions	lbs	250.43					12.52
ES10		610187	P30	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 2.2	0.500000	gal	EF	lbs/ gal	2.200000					1.050000
									Emissions	lbs	1.10					0.05

AER Device ID	Permit Device ID	A/N	Process ID	Equipment	Material Activity Code	Material Description	Usage	Units		Criteria Pollutant Units	ROG	SPOG	NOx	SOx	CO	PM
ES10		610187	P31	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 4.59	0.000000	gal	EF	lbs/ gal	0.750000					1.050000
									Emissions	lbs	0.00					0.00
ES10		610187	P32	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 6.09	2.000000	gal	EF	lbs/ gal	6.090000					1.050000
									Emissions	lbs	12.18					0.21
ES10		610187	P33	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 0.3	1.000000	gal	EF	lbs/ gal	0.300000					1.050000
									Emissions	lbs	0.30					0.11
ES10		610187	P34	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 0.64	1.250000	gal	EF	lbs/ gal	0.640000					1.050000
									Emissions	lbs	0.80					0.13
ES10		610187	P35	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 0.03	2.000000	gal	EF	lbs/ gal	0.030000					1.050000
									Emissions	lbs	0.06					0.21
ES10		610187	P36	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 2.29	0.250000	gal	EF	lbs/ gal	2.290000					1.050000
									Emissions	lbs	0.57					0.03
ES10		610187	P37	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 1.01	0.750000	gal	EF	lbs/ gal	1.010000					1.050000
									Emissions	lbs	0.76					0.08
ES10		610187	P38	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 1.15	14.500000	gal	EF	lbs/ gal	1.150000					1.050000
									Emissions	lbs	16.68					1.52
ES10		610187	P39	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 2.3	1.500000	gal	EF	lbs/ gal	2.300000					1.050000
									Emissions	lbs	3.45					0.16
ES10		610187	P40	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 2.4	0.000000	gal	EF	lbs/ gal	2.400000					1.050000
									Emissions	lbs	0.00					0.00
ES10		610187	P41	Spray Booth	Coating : Wood Products Coatings : HVLP Application : Pigmented Topcoats	Coating - 2.8	0.000000	gal	EF	lbs/ gal	2.800000					1.050000
									Emissions	lbs	0.00					0.00

Total Emissions	lbs	1,327.37					192.86
Total Emissions	tons	0.66	0.00	0.00	0.00	0.00	0.10

South Coast AQMD

Annual Emission Report

Reporting Year: **2021**

Print Date: **02/21/2022**

Facility Id: **189282**

Facility Name **TELEVISION CITY PRODUCTIONS, LLC**

Facility Type: **Entertainment**

Criteria Pollutants Permitted Emissions Summary

	VOC (tons)	SPOG (tons)	NOx (tons)	NOx RECLAIM (tons)	SOx (tons)	SOx RECLAIM (tons)	CO (tons)	PM (tons)
External Combustion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Internal Combustion	0.04	0.00	0.53	0.00	0.00	0.00	0.12	0.02
Spray Coating/ Spray Booth	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.10
Other Use of Organics	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Storage Tanks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fugitive Components	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Process Emissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Shutdown/Startup/Turnaround and Upsets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Permitted Emissions	**0.70**	**0.00**	**0.53**	**0.00**	**0.00**	**0.00**	**0.12**	**0.12**

South Coast AQMD

Annual Emission Report

Reporting Year: **2021**

Print Date: **02/21/2022**

Facility Id: **189282**

Facility Name **TELEVISION CITY PRODUCTIONS, LLC**

Facility Type: **Entertainment**

Criteria Pollutants Non-Permitted Emissions Summary

	VOC (tons)	SPOG (tons)	NOx (tons)	NOx RECLAIM (tons)	SOx (tons)	SOx RECLAIM (tons)	CO (tons)	PM (tons)
External Combustion	0.08	0.00	1.42	0.00	0.01	0.00	1.20	0.11
Internal Combustion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spray Coating/ Spray Booth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Use of Organics	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Storage Tanks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fugitive Components	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Process Emissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Shutdown/Startup/Turnaround and Upsets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Non-Permitted Emissions	**0.08**	**0.00**	**1.42**	**0.00**	**0.01**	**0.00**	**1.20**	**0.11**

South Coast AQMD

Annual Emission Report

Reporting Year: **2021**

Print Date: **02/21/2022**

Facility Id: **189282**

Facility Name **TELEVISION CITY PRODUCTIONS, LLC**

Facility Type: **Entertainment**

Toxic Air Contaminants (TAC) / Ozone Depleting Compounds (ODC) Emissions and Fees Summary

For detailed TAC Records please see
related “AER TAC Report” Excel file

South Coast AQMD

Annual Emission Report

Reporting Year: **2021**

Facility Id: **189282**

Print Date: **02/21/2022**

Facility Name **TELEVISION CITY PRODUCTIONS, LLC**

Facility Type: **Entertainment**

Total Emissions and Fees

Submittal Date: No later than March 17 2022	Total Permitted Emissions (tons)	Total Non-Permitted Emissions (tons)	Total RECLAIM Emissions (tons)	Total Emission (tons)	Total Emissions/ Subject To Fee (tons)	Emissions Fees Due
Organic Gasses	0.70	0.08		0.78	0.00	$0.00
Specific Organics	0.00	0.00		0.00	0.00	$0.00
Nitrogen Oxides	0.53	1.42	0.00	1.95	0.00	$0.00
Sulfur Oxides	0.00	0.01	0.00	0.01	0.00	$0.00
Carbon Monoxide	0.12	1.20		1.32	0.00	$0.00
Particulate Matter	0.12	0.11		0.23	0.00	$0.00

1. TOTAL EMISSION FEES FOR ALL CRITERIA POLLUTANTS	$0.00
2. TOXIC AIR CONTAMINANTS/ OZONE DEPLETER FEES (Total amount from Form TACS or DC)	$0.00

TAC Fees Breakdown	
Facility Flat Fee:	$78.03
CPWE Emission Fees:	$430.00
Ammonia & Depleting Compounds (ODC) Fees:	$0.00
Per Device Fees (total devices with fees 6):	$2051.34
Fees After Exemption:	$0.00
Total Facility TAC Fees:	$2559.37

3. TOTAL FEES DUE	$0.00
4. INSTALLMENTS PAID FOR 2021 - (if any) -- All Criteria Pollutants	$0.00
5. INSTALLMENTS PAID FOR 2021 - (if any) -- Toxic Air Contaminants/Ozone Depleters	$0.00
6. BALANCE DUE (Line 3 - Line 4 - Line 5)	$0.00
7. LATE PAYMENT SURCHARGE	$0.00
8. AMOUNT DUE	**$0.00**

South Coast AQMD

Annual Emission Report

Reporting Year: **2021**

Facility Id: **189282**

Print Date: **02/21/2022**

Facility Name **TELEVISION CITY PRODUCTIONS, LLC**

Facility Type: **Entertainment**

Electronic Certification Sheet

Information

NAICS code:	541330	
AB2588 Filing Period:	No	Brief Description of Operation
RECLAIM:	No	
Facility Operating Status:	Operating	
Classified As Small Business:	No	
Business Operating Hours		Television production facility
Hours/Day;	8	
Days/Week:	5	
Weeks/Year:	50	

Equipment Location Address

Facility Name:
TELEVISION CITY PRODUCTIONS, LLC
7800 BEVERLY BLVD
LOS ANGELES, CA 90036

Mailing Information

Facility Name:
TELEVISION CITY PRODUCTIONS, LLC
11111 Santa Monica Blvd , Suite 1100
Los Angeles , CA 90025 3345

Contact Information

Name:	Jeff Mapes	Phone:	323 575-2465
Title:		Fax:	
E-mail:	jeff.mapes@tvcityla.com		

Preparer Information

Name:	Patrick Luu	Phone:	714 893-7900
Title:	Consultant	Fax:	
E-mail:	luu@proehs.com		

Authorized Person Information

Name:	Jeff Mapes	Phone:	323 575-2465
Title:		Fax:	
E-mail:	jeff.mapes@tvcityla.com		

I declare under penalty of perjury that the data submitted truly represents throughput and emissions for this reporting period, and that the emission factors represent the best available data for my company in the calculation of annual emission figures.

[x] I acknowledge that I have read the South Coast AQMD Certification Statement.*

[x] I agree on the responsibility for this AER Report Submission in accordance with Certification Statement.*

South Coast AQMD

Annual Emission Report

Reporting Year: **2021**

Facility Id: **189282**

Print Date: **02/21/2022**

Facility Name **TELEVISION CITY PRODUCTIONS, LLC**

Facility Type: **Entertainment**

AER Submittal Confirmation

Thank you for submitting your Annual Emissions Report for Facility ID: 189282.

Please print the AER Payment Voucher and include the check for emission fees due if applicable and mail them to the SCAQMD.

AER Payment Voucher and check are first received and processed by Bank of America for check deposits, return receipts for certified mails will be stamped by Bank of America rather than AQMD. Please mail the required AER Payment Voucher and check to the following address:

South Coast Air Quality Management District
Annual Emission Reporting Program
File No. 54493
Los Angeles, CA 90074-4493

* To avoid late payment surcharges, all mails must be postmarked by the Post Office on or before March 17, 2022

NOTE: For any overnight delivery, example FedEx, please use the following address:

Bank of America Lockbox Services
Lockbox LAC-054493
2706 Media Center Drive
Los Angeles, CA. 90065

If you wish to use a messenger (or hand deliver), the package should be delivered to the cashier's booth at AQMD Headquarters at the address listed below in Diamond Bar on or before 5:00 p.m. March 17, 2022
Please note that AQMD is closed on Mondays.

South Coast Air Quality Management District
ATTN: Cash Management
Annual Emission Reporting Program
21865 Copley Drive
Diamond Bar, CA 91765-4178

Television City Air Quality Assessment

Emergency Generator Fuel Consumption

South Coast AQMD

Facility ID: **189282**

Facility Name: **Television City Productions, LLC**

Facility Type: **Entertainment**

Fuel Consumption and Hours of Operation/Maintenance (Existing)

Year 2019	Big Red (610182)	Big Yellow (610185)	Earth (610184)	Little Green (610183)	Little Yellow (610180)	Big Blue (618456)	
BHP	2160	947	364	430	250		2937
Hours (1/1/2019)	50.5	271.9	151.9	22.01	271.3		
Hours (12/31/2019)	59.7	276.1	161.1	36.7	279.5		
Total Hours	9.2	4.2	9.2	14.69	8.2		

Year 2020	Big Red (610182)	Big Yellow (610185)	Earth (610184)	Little Green (610183)	Little Yellow (610180)	Big Blue (618456)	
Hours (1/1/2020)	59.3	279.5	161.1	35.5	279.5		0
Hours (12/31/2020)	73.2	286.8	171.7	48.3	287.7		17.2
Total Hours	13.9	7.3	10.6	12.8	8.2		17.2

Year 2021	Big Red (610182)	Big Yellow (610185)	Earth (610184)	Little Green (610183)	Little Yellow (610180)	Big Blue (618456)	
Hours (1/1/2021)	73.2	286.8	171.7	48.3	287.7		17.2
Hours (12/31/2021)	79.3	290.9	177.4	59.2	292.4		25.2
Total Hours	6.1	4.1	5.7	10.9	4.7		8

2019-2021 Ann. Avg.	Big Red (610182)	Big Yellow (610185)	Earth (610184)	Little Green (610183)	Little Yellow (610180)	Big Blue (618456)	
Hours (1/1/2019)	50.5	271.9	151.9	22.01	271.3		0
Hours (12/31/2021)	79.3	290.9	177.4	59.2	292.4		25.2
Total Hours	28.8	19	25.5	37.19	21.1		25.2
Annual Average Hours	9.60	6.33	8.50	12.40	7.03		12.60
gal/hr	104	48	11.1	18	14.9		138
Annaul Average Gallons	998.4	304.0	94.4	223.1	104.8		1738.8

Hours of Operattion for Proposed Emergency Generators:

Average Hours for all Generators Except Big Blue: 8.8 hrs/yr

Source: TVC's 2019-2021 Annual Emission Reports provide the fuel consumption for each emergency generator based on engine maintence logs and fuel usage.

Source: Gallons per hour for each exisitng engine was obtained from TVC's SCAQMD Rule 1472 Compliance Plan, prepared by Pro Active Consulting Group, July 2020.

Big Red (Public Records (AN396927 pg 23)); Big Yellow (Public Records (AN577030 pg. 42)); Earth (Public Records (AN271106 pg 13)); Little Green (Page 15 of 92 Series Specs); Little Yellow (QSL9-G2 spec sheet); and Big Blue (Caterpillar)

Television City Health Risk Assessment
Emergency Generator Emissions and Time Records

South Coast
AQMD

Facility ID: **189282**
Facility Name: **Television City Productions, LLC**
Facility Type: **Entertainment**

Fuel Consumption

Existing Conditions--Internal Combustion Process List (Stationary Diesel I.C.Engines, 4 Stroke-Lean Burn)

Device Description	Application Number	Make and Operating Hours	Horsepower	Organic Gases		Nitrogen Oxides		Sulfur Oxides		Carbon Monoxide		Particulate Matter (PM10)		Particulate Matter (PM2.5)		CO2 Equivalent GHG (CO2e)		Diesel Fuel Usage	
				Emission Factor (g/hp-hr)	Emissions lb/hr	Emission Factor (g/hp-hr)	Emissions lb/hr	Emission Factor (g/hp-hr)	Emissions lb/hr	Emission Factor (g/hp-hr)	Emissions lb/hr	Emission Factor (g/hp-hr)	Emissions lb/hr	Emission Factor (g/hp-hr)	Emissions lb/hr	Emission Factor (lb/hp-hr)	Emissions lb/hr	Avg Annual Hours	Gallons of Fuel/hr
Emergency Generator (Big Red)	G56074 610182	CAT3512TA--20 hr/yr maintenance and 200 hours operated in any one year	2160	1.00	4.76	6.90	32.86	0.62	2.95	8.50	40.48	0.38	1.81	0.38	1.81	1.15	1819.68	9.60	104
Emergency Generator	G56078 610185	Detroit 8123--30 hr/yr maintenance and 200 hours operated in any one year	947	0.08	0.17	9.38	19.58	0.0049	0.01	3.42	7.14	0.21	0.44	0.21	0.44	1.15	797.79	6.33	48
Emergency Generator	G56072 610180	John Deere 6076A--20 hr/yr maintenance and 200 hours operated in any one year	250	0.36	0.20	8.56	4.72	0.16	0.09	2.70	1.49	0.73	0.40	0.73	0.40	1.15	210.61	7.03	15
Emergency Generator	G56075 610183	Detroit 8083--20 hr/yr maintenance and 200 hours operated in any one year	430	1.12	1.06	14.07	13.34	0.00049	0.00	3.03	2.87	0.96	0.91	0.96	0.91	1.15	362.25	12.40	18
Emergency Generator (Earth Station)	G56076 610184	Cummins QSL9-G2 (Tier 3)--50 hr/yr maintenance and 200 hours operated in any one year	364	0.16	0.13	2.67	2.14	0.00049	0.00	2.39	1.92	0.12	0.10	0.12	0.10	1.15	306.65	8.50	11
Emergency Generator (Big Blue)	G60781 618456	Cat 3516 (Tier 2)--50 hr/yr maintenance and 200 hours operated in any one year	2937	0.25	1.62	3.93	25.45	0.00049	0.00	0.49	3.17	0.08	0.53	0.08	0.53	1.15	2474.25	12.60	138
		Total Site Horsepower:	7088																
Maximum Daily Emissions in Pounds (Big Red): Only one generator would be tested per day.					4.8		32.9		3.0		40.5		1.8		1.8		1,820		
Average Daily Emissions in Pounds for Routine Testing (Per Permit Requirements 20-50 hours per year):					0.6		8.2		0.2		3.7		0.3		0.3		578		
Average Daily Emissions in Pounds (2019-2021 Usage):					0.2		2.7		0.1		1.5		0.1		0.1		171		
Average Daily Emissions in Pounds assumed max hours of operation (200 per year):					4.3		53.7		1.7		31.3		2.3		2.3		3,272		
Average Annual Emissions in Pounds for Routine Testing (Per Permit Requirements 20-50 hours per year):													107.0				210,830	gal/yr	11,633
Average Annual Emissions in Pounds (2019-2021 Usage):													41.8				62,276	gal/yr	3,463
Average Annual Emissions in Pounds assumed max hours of operation (200 per year):													837.52				1,194,246	gal/yr	66,800

Source: ProActive Consulting Group, SCAQMD Rule 1472 Compliance Plan for Television City Productions, LLC, July 2020.
CO2E Emission Factor Assumed to be Consisent with CalEEMod default (1.15 lb/hp-hr CO2 and 0.073134 g/hp-hr CH4).
Fuel Usage: See Emergency Generator Fuel Consumption and Annual Hours Calculation Sheet

Project Conditions--Internal Combustion Process List (Stationary Diesel I.C.Engines, 4 Stroke-Lean Burn)

All generators with the exception of Big Blue would be decommissioned. In addition, Big Blue would be the largest generator and represent the maximum daily emissions during a generator test day.

Device Description	Application Number	Make and Operating Hours	Horsepower	Organic Gases		Nitrogen Oxides		Sulfur Oxides		Carbon Monoxide		Particulate Matter (PM10)		Particulate Matter (PM2.5)		CO2 Equivalent GHG (CO2e)		Diesel Fuel Usage	
				Emission Factor (g/hp-hr)	Emissions lb/hr	Emission Factor (g/hp-hr)	Emissions lb/hr	Emission Factor (g/hp-hr)	Emissions lb/hr	Emission Factor (g/hp-hr)	Emissions lb/hr	Emission Factor (g/hp-hr)	Emissions lb/hr	Emission Factor (g/hp-hr)	Emissions lb/hr	Emission Factor (lb/hp-hr)	Emissions lb/hr	Avg Annual Hours	Gallons of Fuel/hr
Emergency Generator (Big Blue)	G60781 618456	Cat 3516 (Tier 2)--50 hr/yr maintenance and 200 hours operated in any one year	2937	0.25	1.62	3.93	25.45	0.00049	0.00	0.49	3.17	0.08	0.53	0.08	0.53	1.15	2474.25	12.60	138
		Make and Operating Hours	Horsepower	Emission Factor (h/hp-hr)	Emissions lb/hr	Emission Factor (g/hp-hr)	Emissions lb/hr	Emission Factor (g/hp-hr)	Emissions lb/hr	Emission Factor (g/hp-hr)	Emissions lb/hr	Emission Factor (g/hp-hr)	Emissions lb/hr	Emission Factor (g/hp-hr)	Emissions lb/hr	Emission Factor (lb/hp-hr)	Emissions lb/hr	Avg Annual Hours	Gallons of Fuel/hr
7 new 500 kw generators (equivalent to 762 bhp)	NA	SCAQMD Rule 1472-50 hr/yr maintenance and 200 hours operated in any one year (EPA Tier 4 emission factors); SOX and CO2e are CalEEMod default.	762	0.14	0.17	0.50	0.61	0.0049	0.01	2.60	3.19	0.02	0.02	0.02	0.02	1.15	641.94	8.77	27
Maximum Daily Emissions in Pounds (Big Blue): Only one generator would be tested per day.					1.62		25.45		0.00		3.17		0.53		0.53		2,474		
Average Daily Emissions in Pounds (Big Blue and seven new 500 kw generators 50 hrs per year):					0.39		4.07		0.01		3.49		0.10		0.10		954		
Average Daily Emissions in Pounds (Avg 2019-2021) Big Blue and seven new 500 kw generators:					0.08		0.98		0.00		0.65		0.02		0.02		193		
Average Daily Emissions in Pounds (Big Blue and seven new 500 kw generators 200 hrs per year):					1.58		15.96		0.03		15.14		0.39		0.39		3,818		
Average Annual Emissions in Pounds for Routine Testing (Per Permit Requirements 50 hours per year):													35.1				348,392	gal/yr	16,235
Average Annual Emissions in Pounds (2019-2021 Usage):													8.2				70,596	gal/yr	3,377
Average Annual Emissions in Pounds assumed max hours of operation (200 per year):													140.53				1,393,568	gal/yr	64,938
			Horsepower	Emission Factor (lb/hp	Emissions lb/hr	Emission Factor (g/hp-	Emissions lb/hr	Emission Factor (g/hp-	Emissions lb/hr	Emission Factor (g/hp-	Emissions lb/hr	Emission Factor (g/hp-	Emissions lb/hr	Emission Factor (g/hp-	Emissions lb/hr	Emission Factor (lb/hp-hr)	Emissions lb/hr	Avg Annual Hours	Gallons of Fuel/hr
Incremental Difference (Maximum Daily Emissions on Test Day)					(3.14)		(7.41)		(2.95)		(37.30)		(1.28)		(1.28)		655		-
Incremental Difference (Average Daily Emissions for Routine Testing 50 hours per year)					(0.20)		(4.10)		(0.16)		(0.25)		(0.20)		(0.20)		377		
Incremental Difference (Average Daily Emissions for Routine Testing (Avg 2019-2021 hours per year)					(0.14)		(1.69)		(0.08)		(0.82)		(0.09)		(0.09)		23		-
Incremental Difference (Average Daily Emissions for Permitted 200 hours per year)					(2.77)		(37.78)		(1.65)		(16.13)		(1.91)		(1.91)		546		
Incremental Difference (Average Annual Per Permit Requirements 50 hrs)					-		-		-		-		(71.82)		-		137,562	gal/yr	4,602
Incremental Difference (Average Annual Emissions (2019-2021))					-		-		-		-		(33.57)		-		8,321	gal/yr	(87)
Incremental Difference (Average Annual Emissions assumed max hours of operation (200/yr))					-		-		-		-		(696.99)		-		199,322	gal/yr	(1,862)

26.50 3.5000

Source: ProActive Consulting Group, SCAQMD Rule 1472 Compliance Plan for Television City Productions, LLC, July 2020 and CalEEMod Default Emission Factors.
CO2E Emission Factor Assumed to be Consisent with CalEEMod default (1.15 lb/hp-hr CO2 and 0.073134 g/hp-hr CH4).
New generators could be located within 50 meters (170 feet) of sensitive receptors. Therefore, Project is committed to new generators meeting requirements in SCAQMD Rule 1472 (Table 1) in which generators under 750 horsepower must meet 0.01 g/bhp for PM10 and 0.02 g/bphp for new generators greater than 750 horsepower . New generators will meet CARB Tier 4 Final requirements. Big Blue is committed to being place more than 50 meters away from a sensitive receptor.
Fuel Usage: 2021 AER.

Television City Air Quality Assessment

Char Broiler Emissions

CHARBROILER

Existing[a]	**Peak Daily**[b]	**Average Daily**[b]
# of Food Trucks Not Equipped with Cooking Eq	12	6
# of Food Trucks Equipped with Charboiler	6	3
# of Food Trucks Equipped with Griddle	6	3
Hours of Operation per Day On-Site	5	4
Days per year		260

		SCAQMD Rule 1138 - Appendix I		Emissions Max Daily				Emissions Annual				Emissions Average Daily		
Emission Factors[c]	Quantity per Hour per truck (lbs)	PM (lb/1,000 lb)	ROG (lb/1,000 lb)	PM (lbs/day)	PM10 (lbs/day)	PM2.5 (lbs/day)	ROG (lbs/day)	PM (lbs/year)	PM10 (lbs/year)	PM2.5 (lbs/year)	ROG (lbs/year)	PM10 (lbs/day)	PM2.5 (lbs/day)	ROG (lbs/day)
Under-Fired Broiler														
25% Fat Hamburger	3.75	32.65	3.94	3.7	2.6	1.5	0.4	382.0	267.4	152.8	46.1	1.0	0.6	0.2
Chicken	5.625	10.48	1.82	1.8	1.2	0.7	0.3	183.9	128.7	73.6	31.9	0.5	0.3	0.1
Steak (e.g., burrito)	3.75	17.19	0.86	1.9	1.4	0.8	0.10	201.1	140.8	80.4	10.1	0.5	0.3	0.0
Fish	3.75	3.3	0.38	0.4	0.3	0.1	0.04	38.6	27.0	15.4	4.4	0.1	0.1	0.0
Griddle														
24% fat hamburger	7.5	5.08	0.07	1.1	0.8	0.5	0.0	118.9	83.2	47.5	1.6	0.3	0.2	0.0
sk-boneless chicken breast	15	BDL*	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.7	0.0	0.0	0.1
Total				8.9	6.2	3.6	0.9	924.5	647.2	369.8	112.9	2.5	1.4	0.4

CHARBROILER

Buildout[a]	**Peak Daily**[b]	**Average Daily**[b]
# of Food Trucks Not Equipped with Cooking Eq	12	10
# of Food Trucks Equipped with Charboiler	6	5
# of Food Trucks Equipped with Griddle	6	5
Hours of Operation per Day On-Site	5	4
Days per year		260

		SCAQMD Rule 1138 - Appendix I		Emissions Max Daily				Emissions Annual				Emissions Average Daily		
Emission Factors[c]	Quantity per Hour per truck (lbs)	PM (lb/1,000 lb)	ROG (lb/1,000 lb)	PM (lbs/day)	PM10 (lbs/day)	PM2.5 (lbs/day)	ROG (lbs/day)	PM (lbs/year)	PM10 (lbs/year)	PM2.5 (lbs/year)	ROG (lbs/year)	PM10 (lbs/day)	PM2.5 (lbs/day)	ROG (lbs/day)
Under-Fired Broiler														
25% Fat Hamburger	3.75	32.65	3.94	3.7	2.6	1.5	0.4	636.7	445.7	254.7	76.8	1.7	1.0	0.3
Chicken	5.625	10.48	1.82	1.8	1.2	0.7	0.3	306.5	214.6	122.6	53.2	0.8	0.5	0.2
Steak (e.g., burrito)	3.75	17.19	0.86	1.9	1.4	0.8	0.10	335.2	234.6	134.1	16.8	0.9	0.5	0.1
Fish	3.75	3.3	0.38	0.4	0.3	0.1	0.04	64.4	45.0	25.7	7.4	0.2	0.1	0.0
Griddle														
24% fat hamburger	7.5	5.08	0.07	1.1	0.8	0.5	0.0	198.1	138.7	79.2	2.7	0.5	0.3	0.0
sk-boneless chicken breast	15	BDL*	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.2	0.0	0.0	0.1
Total				8.9	6.2	3.6	0.9	1540.9	1078.6	616.4	188.2	4.1	2.4	0.7
			Difference	0.0	0.0	0.0	0.0	616.4	431.4	246.5	75.3	1.7	0.9	0.3

Television City Air Quality Assessment

Charbroiler Emissions Calculations

[a] **Existing Conditions**

6 productions
Avg daily of 6 food trucks equipped with a charbroiler or griddle (vast majority would prepare food offsite and distribute on site (e.g., sandwiches, salads)) and would operate an average of 4 hours per day/260 days per year

[b] **Buildout Conditions**

10 productions
Avg daily of 10 food trucks equipped with a charbroiler or griddle (vast majority would prepare food offsite and distribute on site (e.g., sandwiches, salads)) and would operate an average of 4 hours per day/260 days per year

[c] **Food Trucks**

2 food trucks per production per MBS memorandum; Can serve one meal per minute per truck (Conservative as not all meals would require under-fired broiler or griddle (e.g., salads, wraps, etc.)); Under-Fire Broiler meals would assumed to be split evenly between 8 oz fish, 8 oz per chicken sandwich, 4 ounces per hamburger, and 4 oz steak (e.g., buritto); Griddle meals would assumed to be split evenly between 8 oz sk-boneless chicken breast, and 4 ounces per hamburger.
Conservatively assumes no PM control efficiency for exhaust filters
*BDL (Below Detection Limit)

[d] South Coast Air Quality Management District, Final –Methodology to Calculate Particulate Matter (PM) 2.5 and PM 2.5 Significance Thresholds, Appendix A, http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/particulate-matter-(pm)-2.5-significance-thresholds-and-calculation-methodology/final_pm2_5methodology.pdf?sfvrsn=2. Accessed September 2023. Per Appendix A, for cooking (baking, charbroiling, deep fat frying), PM10 is 0.7 fraction of PMand PM2.5 is 0.42 fraction of PM.
South Coast Air Quality Management District, Emission Factors for Commercial Cooking Operations, https://www.aqmd.gov/docs/default-source/rule-book/support-documents/rule-1138/par1138pdsr_appendixi.pdf?sfvrsn=2. Accessed September 2023.

MBS Memorandum included as Appendix A-7 of this Confirmatory Analysis.

Television City Air Quality Assessment

Spray Booth Emissions - Usage Records - 2019 AER Report

Coating, Adhesive, and Solvent Usage

AER Device ID	A/N	Process ID	Material Description	Usage	Usage (gal)	ROG (lbs)	PM (lbs)
ES7	610178	P1	Spray 77	1.57 gal	1.57	6.68	0.16
ES7	610178	P2	Evershield	87.50 gal	87.5	36.46	9.19
ES7	610178	P3	Rapid Tac	2.00 gal	2	2.3	
ES7	610178	P4	Bestine	1.50 gal	1.5	12.51	
ES7	610178	P5	Krylon Clear	0.10 gal	0.1		0.01
ES7	610178	P6	Krylon Dulling	0.17 gal	0.17	1.17	0.02
ES7	610178	P7	Krylon Gloss	0.75 gal	0.75		0.08
ES7	610178	P8	Krylon Satin	0.75 gal	0.75		0.08
ES9	610186	P1	Fresh	4.50 gal	4.5	1.88	0.47
ES9	610186	P10	Ultra	57.50 gal	57.5	23.96	6.04
ES9	610186	P11	Valspar	16.25 gal	16.25	37.24	1.71
ES9	610186	P12	Acetone	21.25 gal	21.25	141.74	
ES9	610186	P2	Lux	33.63 gal	33.63	28.04	3.53
ES9	610186	P3	Pro Solutions	5.00 gal	5	7.54	0.53
ES9	610186	P4	Rustoleum	14.13 gal	14.13	11.78	1.48
ES9	610186	P5	Stripe 60	5.63 gal	5.63	2.81	0.59
ES9	610186	P6	Stripe 75	19.78 gal	19.78	12.36	2.08
ES9	610186	P7	Suprema 25	110.75 gal	110.75	23.07	11.63
ES9	610186	P8	Suprema 40	344.50 gal	344.5	117.13	36.17
ES9	610186	P9	Suprema 50	11.50 gal	11.5	4.79	1.21
ES10	610187	P1	Coating - 0.00	461.97 gal	461.97		48.51
ES10	610187	P10	Coating - 0.41	22.00 gal	22	9.02	2.31
ES10	610187	P11	Coating - 0.417	17.00 gal	17	7.09	1.79
ES10	610187	P12	Coating - 0.44	4.00 gal	4	1.76	0.42
ES10	610187	P13	Coating - 0.5	0.25 gal	0.25	0.13	0.03
ES10	610187	P14	Coating - 0.64	4.25 gal	4.25	2.72	0.45
ES10	610187	P15	Coating - 0.83	5.30 gal	5.3	4.4	0.56
ES10	610187	P16	Coating - 1.03	2.75 gal	2.75	2.83	0.29
ES10	610187	P17	Coating - 1.25	146.75 gal	146.75	183.44	15.41
ES10	610187	P18	Coating - 1.3	12.00 gal	12	15.6	1.26
ES10	610187	P19	Coating - 1.4	8.75 gal	8.75	12.25	0.92
ES10	610187	P20	Coating - 1.69	52.75 gal	52.75	89.15	5.54
ES10	610187	P21	Coating - 1.696	0.25 gal	0.25	0.42	0.03
ES10	610187	P22	Coating - 1.8	1.25 gal	1.25	2.25	0.13
ES10	610187	P23	Coating - 1.82	15.25 gal	15.25	27.76	1.6
ES10	610187	P24	Coating - 1.85	1.50 gal	1.5	2.78	0.16
ES10	610187	P25	Coating - 1.92	1.50 gal	1.5	2.88	0.16
ES10	610187	P26	Coating - 1.94	149.52 gal	149.52	287.08	15.7
ES10	610187	P27	Coating - 2.00	47.00 gal	47	94	4.94
ES10	610187	P28	Coating - 2.08	91.55 gal	91.55	190.42	9.61
ES10	610187	P29	Coating - 2.1	173.10 gal	173.1	363.51	18.18
ES10	610187	P3	Coating - 0.02	21.00 gal	21	0.42	2.21
ES10	610187	P30	Coating - 2.2	1.25 gal	1.25	2.75	0.13
ES10	610187	P31	Coating - 4.59	0.75 gal	0.75	0.56	0.08
ES10	610187	P32	Coating - 6.00	0.50 gal	0.5	3	0.05
ES10	610187	P4	Coating - 0.08	3.25 gal	3.25	0.26	0.34
ES10	610187	P5	Coating - 0.11	12.50 gal	12.5	1.38	1.31
ES10	610187	P6	Coating - 0.17	36.50 gal	36.5	6.21	3.83
ES10	610187	P7	Coating - 0.33	1,011.15 gal	1011.15	333.68	106.17
ES10	610187	P8	Coating - 0.336	0.25 gal	0.25	0.08	0.03
ES10	610187	P9	Coating - 0.4	270.00 gal	270	108	28.35
Total:					3289.85	2227.29	345.48
Daily:						8.5	1.3

G56070 (610178) M40 Scenic Arts Spray Booth; **G56079 (610186)** Facilities Paint Shop; & **G56080 (610187)** Mill-1968

The existing spray paint booths will be removed as part of the Project. Given the nature and logistics of production activities in newer studio facilities and their usage at Manhattan Beach Studios, spray paint booth usage is assumed herein not to increase as a result of the Project. Furthermore, any new spray paint booths at the Project Site would include the most up-to-date equipment, which would comply with SCAQMD requirements (e.g., more efficient paint sprayers and HEPA filtration) and SCAQMD permit conditions.

PM Emissions from Existing Spray Booths: HVLP 65% transfer efficiency and SCAQMD PM filtration default control efficiency of 90% and 50% fallout.

On-site Truck/Vehicle Activity

Diesel trucks including food trucks accessing basecamp areas would travel on-site for short distances and would plug into electric power when parked. Emissions are associated with delivery trucks, catering and services trucks, and other trucks used to deliver materials or provide services to television production operations. Existing truck trips and distribution were based on the manual trip counts collected by Gibson in 2019 in conjunction with the preparation of the Draft EIR (Gibson Truck Trip Memorandum), included as Appendix A-7 of this Confirmatory Analysis.[1] All heavy-duty trucks (semis) were assumed to be diesel powered. Medium-heavy and medium-duty truck emissions calculations were based on EMFAC2021 vehicle registration data (population) and VMT within Los Angeles County for diesel and gasoline vehicles. The analysis included on-site travel and idle time of 15 minutes per vehicle for medium- and heavy-duty trucks. Each truck is assumed to be entering the Project Site from Fairfax Avenue or Beverly Boulevard and travelling approximately 2,200 feet on-site. Emission factors also take into account the existing baseline year (2021) and anticipated buildout year (2026). Truck trips and distribution at Project buildout were based on the trip modeling performed by Gibson Transportation.[2] Reentrained dust from truck travel was also calculated based on USEPA AP-42 emission factors. Trucks were assumed to be travelling 100 percent on paved roads during on-site travel.

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[1] *Gibson Transportation Consulting, Inc., Truck Trip Forecasts for the Television City 2050 Specific Plan Project Los Angeles, California, March 8, 2023.*

[2] *Ibid.*

Gibson transportation consulting, inc.

MEMORANDUM

TO: Stephanie Eyestone-Jones, Eyestone Environmental

FROM: Patrick A. Gibson, P.E., PTOE, and Jonathan Chambers, P.E.

DATE: March 8, 2023

RE: Truck Trip Estimates for the
TVC 2050 Project
Los Angeles, California **Ref:** J1750a

Gibson Transportation Consulting, Inc. (GTC) prepared estimates of truck activity to and from the Television City campus with completion of the TVC 2050 Project (Project).

The estimates are based on counts of existing truck activity collected at the campus over three days in year 2019. The counts identified "heavy" and "light" trucks, with the distinction that heavy trucks had a trailer while light trucks were fixed frame or "single-unit."

Currently, most trucks access the Project Site via the driveway on Beverly Boulevard at Genesee Avenue. The largest trucks, which only arrive and depart on an infrequent basis (once a week or less), use the driveway on Fairfax Avenue at the southwest corner of the Project Site. With the Project, trucks would have the ability to enter the Project Site from Fairfax Avenue, Beverly Boulevard, and The Grove Drive and internally traverse the Project Site to get to a specific location.

The existing site counts are summarized in Table 1 and provided in the Attachment. As shown therein, there were between 55 and 80 light truck trips per day, for an average of 65 trips per day representing approximately 33 trucks. There was an average of 13 heavy truck trips per day representing approximately seven trucks. Based on supplemental data provided by Manhattan Beach Studios, the largest owner and operator of studios in the world, approximately one third of light trucks for studio uses tend to be five-ton trucks and the remaining two thirds are 10-ton trucks, so Table 1 further breaks down the light truck trip totals using those proportions.

Table 1: Existing Truck Trips at TVC

	Heavy	Light	Light Truck Split	
Day	**Trucks**	**Trucks**	**5-ton**	**10-ton**
Day 1 (September 10, 2019)	11	55	18	37
Day 2 (September 11, 2019)	16	60	20	40
Day 3 (September 12, 2019)	12	80	27	53
Average	**13**	**65**	**22**	**43**

The Project increases the size of the on-site development envelope and also increases the proportion of office space within the resulting land use mix. Therefore, the existing truck trips were used as a basis to estimate Project truck trips. The existing and proposed land use mix are summarized in Table 2.

Table 2: Existing and Proposed Land Use Mix

	Existing		Project	
Land Use Mix	**Total (sf)**	**Percent**	**Total (sf)**	**Percent**
Sound Stage	95,540	13%	350,000	19%
Production Support	325,450	44%	104,000	6%
Production Office	163,090	22%	700,000	37%
General Office	159,600	21%	700,000	37%
Retail	0	0%	20,000	1%
Total	**743,680**		**1,874,000**	

Based on the increases in total on-site development, GTC estimates that light truck activity at the Project Site would approximately double with completion of the Project, while heavy truck activity would approximately triple. The resulting truck trip estimates with the Project are shown in Table 3.

Table 3: Truck Trip Forecasts with Project

	Heavy	Light Trucks		
Scenario	**Trucks**	**5-ton**	**10-ton**	**Total**
Existing	13	22	43	78
With Project Completion	36	44	86	166
Net New	23	22	43	88

The truck trip forecasts are daily forecasts. Based on the existing counts from September 2019, truck trips occur as early as 4:00 A.M. and as late as 9:00 P.M., with the highest concentration between approximately 8:00 A.M. and 2:00 P.M. As a result, truck trips are dispersed throughout the day and do not tend to concentrate in any particular hour.

Attachment

Truck Counts

Prepared by City Count, LLC (www.citycount.com)

ADT Volume Report - Light Truck

Beverly & Genesee - Television City Driveway Count

Day: Tuesday, September 10, 2019 **City:** Los Angeles, CA

Daily Totals	Inbound	Outbound	Total
	31	24	55

AM	In		Out		Total		PM	In		Out		Total	
00:00	0		0		0		12:00	0		0		0	
00:15	0		0		0		12:15	0		0		0	
00:30	0		0		0		12:30	0		0		0	
00:45	0	0	0	0	0	0	12:45	2	2	0	0	2	2
01:00	0		0		0		13:00	1		1		2	
01:15	0		0		0		13:15	0		1		1	
01:30	0		0		0		13:30	0		1		1	
01:45	0	0	0	0	0	0	13:45	1	2	1	4	2	6
02:00	0		0		0		14:00	0		1		1	
02:15	0		0		0		14:15	2		0		2	
02:30	0		0		0		14:30	0		3		3	
02:45	0	0	0	0	0	0	14:45	1	3	1	5	2	8
03:00	0		0		0		15:00	1		0		1	
03:15	0		0		0		15:15	0		0		0	
03:30	0		0		0		15:30	1		0		1	
03:45	0	0	0	0	0	0	15:45	0	2	0	0	0	2
04:00	0		0		0		16:00	0		0		0	
04:15	0		0		0		16:15	0		0		0	
04:30	1		0		1		16:30	1		0		1	
04:45	0	1	0	0	0	1	16:45	0	1	0	0	0	1
05:00	0		1		1		17:00	0		0		0	
05:15	0		0		0		17:15	0		0		0	
05:30	1		0		1		17:30	0		0		0	
05:45	0	1	1	2	1	3	17:45	1	1	0	0	1	1
06:00	2		0		2		18:00	0		0		0	
06:15	0		0		0		18:15	0		0		0	
06:30	1		0		1		18:30	0		0		0	
06:45	0	3	1	1	1	4	18:45	0	0	0	0	0	0
07:00	0		1		1		19:00	0		1		1	
07:15	0		0		0		19:15	0		0		0	
07:30	0		0		0		19:30	0		0		0	
07:45	0	0	0	1	0	1	19:45	1	1	0	1	1	2
08:00	0		0		0		20:00	0		2		2	
08:15	1		0		1		20:15	0		0		0	
08:30	0		1		1		20:30	0		0		0	
08:45	0	1	0	1	0	2	20:45	0	0	0	2	0	2
09:00	0		0		0		21:00	0		0		0	
09:15	1		0		1		21:15	0		0		0	
09:30	3		0		3		21:30	0		0		0	
09:45	0	4	0	0	0	4	21:45	0	0	0	0	0	0
10:00	2		0		2		22:00	0		0		0	
10:15	2		1		3		22:15	0		0		0	
10:30	1		1		2		22:30	0		0		0	
10:45	0	5	3	5	3	10	22:45	0	0	0	0	0	0
11:00	1		0		1		23:00	0		0		0	
11:15	0		1		1		23:15	0		0		0	
11:30	2		0		2		23:30	0		0		0	
11:45	1	4	1	2	2	6	23:45	0	0	0	0	0	0
Totals		19		12	**31**		**Totals**		12		12	**24**	
Split %		61.3%		38.7%	**56.4%**		**Split %**		50.0%		50.0%	**43.6%**	

Daily Totals	Inbound	Outbound	Total
	31	24	55

Note: For the purpose of this count, a Light Truck is a commercial vehicle with a fixed frame (i.e., no trailer, such as a box truck).

Prepared by City Count, LLC (www.citycount.com)

ADT Volume Report - Light Truck

Beverly & Genesee - Television City Driveway Count

Day: Wednesday, September 11, 2019 **City:** Los Angeles, CA

Daily Totals	Inbound	Outbound	Total
	33	27	60

AM	In		Out		Total		PM	In		Out		Total	
00:00	0		0		0		12:00	1		2		3	
00:15	0		0		0		12:15	0		0		0	
00:30	0		0		0		12:30	1		1		2	
00:45	0	0	0	0	0	0	12:45	0	2	1	4	1	6
01:00	0		0		0		13:00	0		2		2	
01:15	0		0		0		13:15	2		0		2	
01:30	0		0		0		13:30	0		0		0	
01:45	0	0	0	0	0	0	13:45	1	3	2	4	3	7
02:00	0		0		0		14:00	2		0		2	
02:15	0		0		0		14:15	1		3		4	
02:30	0		0		0		14:30	0		0		0	
02:45	0	0	0	0	0	0	14:45	0	3	1	4	1	7
03:00	0		0		0		15:00	0		0		0	
03:15	0		0		0		15:15	0		0		0	
03:30	0		0		0		15:30	0		0		0	
03:45	0	0	0	0	0	0	15:45	0	0	0	0	0	0
04:00	0		0		0		16:00	3		0		3	
04:15	0		0		0		16:15	0		1		1	
04:30	0		0		0		16:30	2		0		2	
04:45	0	0	0	0	0	0	16:45	1	6	0	1	1	7
05:00	0		0		0		17:00	1		0		1	
05:15	0		0		0		17:15	0		1		1	
05:30	0		0		0		17:30	0		0		0	
05:45	0	0	0	0	0	0	17:45	0	1	0	1	0	2
06:00	1		0		1		18:00	0		0		0	
06:15	0		0		0		18:15	0		0		0	
06:30	0		0		0		18:30	0		0		0	
06:45	0	1	0	0	0	1	18:45	0	0	0	0	0	0
07:00	1		1		2		19:00	0		1		1	
07:15	0		2		2		19:15	0		0		0	
07:30	0		1		1		19:30	0		0		0	
07:45	0	1	0	4	0	5	19:45	0	0	0	1	0	1
08:00	1		0		1		20:00	1		0		1	
08:15	0		1		1		20:15	0		0		0	
08:30	0		0		0		20:30	0		0		0	
08:45	2	3	0	1	2	4	20:45	0	1	0	0	0	1
09:00	1		0		1		21:00	0		0		0	
09:15	0		1		1		21:15	0		0		0	
09:30	1		1		2		21:30	0		0		0	
09:45	1	3	0	2	1	5	21:45	0	0	0	0	0	0
10:00	1		1		2		22:00	0		0		0	
10:15	1		0		1		22:15	0		0		0	
10:30	0		0		0		22:30	0		0		0	
10:45	1	3	0	1	1	4	22:45	0	0	0	0	0	0
11:00	2		0		2		23:00	0		0		0	
11:15	1		2		3		23:15	0		0		0	
11:30	1		1		2		23:30	0		0		0	
11:45	2	6	1	4	3	10	23:45	0	0	0	0	0	0
Totals		17		12		**29**	**Totals**		16		15		**31**
Split %		58.6%		41.4%		**48.3%**	**Split %**		51.6%		48.4%		**51.7%**

Daily Totals	Inbound	Outbound	Total
	33	27	60

Note: For the purpose of this count, a Light Truck is a commercial vehicle with a fixed frame (i.e., no trailer, such as a box truck).

Prepared by City Count, LLC (www.citycount.com)

ADT Volume Report - Light Truck

Beverly & Genesee - Television City Driveway Count

Day: Thursday, September 12, 2019 **City:** Los Angeles, CA

Daily Totals	Inbound	Outbound		Total
	48	32		80

AM	In		Out		Total		PM	In		Out		Total	
00:00	0		0		0		12:00	1		0		1	
00:15	0		0		0		12:15	0		2		2	
00:30	0		0		0		12:30	0		0		0	
00:45	0	0	0	0	0	0	12:45	1	2	0	2	1	4
01:00	0		0		0		13:00	1		0		1	
01:15	0		0		0		13:15	0		0		0	
01:30	0		0		0		13:30	1		0		1	
01:45	0	0	0	0	0	0	13:45	0	2	0	0	0	2
02:00	0		0		0		14:00	0		1		1	
02:15	0		0		0		14:15	1		1		2	
02:30	0		0		0		14:30	0		1		1	
02:45	0	0	0	0	0	0	14:45	0	1	0	3	0	4
03:00	0		0		0		15:00	0		0		0	
03:15	0		0		0		15:15	0		0		0	
03:30	1		0		1		15:30	0		0		0	
03:45	0	1	0	0	0	1	15:45	1	1	1	1	2	2
04:00	0		0		0		16:00	0		0		0	
04:15	0		0		0		16:15	1		0		1	
04:30	0		0		0		16:30	2		0		2	
04:45	1	1	0	0	1	1	16:45	1	4	0	0	1	4
05:00	0		1		1		17:00	1		1		2	
05:15	0		0		0		17:15	0		0		0	
05:30	0		0		0		17:30	1		0		1	
05:45	0	0	0	1	0	1	17:45	1	3	0	1	1	4
06:00	1		0		1		18:00	1		0		1	
06:15	1		1		2		18:15	2		0		2	
06:30	1		1		2		18:30	0		1		1	
06:45	1	4	0	2	1	6	18:45	0	3	0	1	0	4
07:00	0		1		1		19:00	0		0		0	
07:15	1		5		6		19:15	0		0		0	
07:30	2		2		4		19:30	0		1		1	
07:45	0	3	1	9	1	12	19:45	0	0	0	1	0	1
08:00	0		0		0		20:00	0		0		0	
08:15	0		1		1		20:15	0		0		0	
08:30	0		1		1		20:30	0		0		0	
08:45	2	2	0	2	2	4	20:45	0	0	0	0	0	0
09:00	4		0		4		21:00	0		0		0	
09:15	1		1		2		21:15	0		0		0	
09:30	2		2		4		21:30	0		0		0	
09:45	2	9	0	3	2	12	21:45	0	0	0	0	0	0
10:00	3		0		3		22:00	0		0		0	
10:15	1		0		1		22:15	0		0		0	
10:30	3		3		6		22:30	0		0		0	
10:45	1	8	1	4	2	12	22:45	0	0	0	0	0	0
11:00	1		0		1		23:00	0		0		0	
11:15	1		0		1		23:15	0		0		0	
11:30	1		1		2		23:30	0		0		0	
11:45	1	4	1	2	2	6	23:45	0	0	0	0	0	0
Totals		32		23	55		Totals		16		9	25	
Split %		58.2%		41.8%	68.8%		Split %		64.0%		36.0%	31.3%	

Daily Totals	Inbound	Outbound		Total
	48	32		80

Note: For the purpose of this count, a Light Truck is a commercial vehicle with a fixed frame (i.e., no trailer, such as a box truck).

Prepared by City Count, LLC (www.citycount.com)

ADT Volume Report - Heavy Truck

Beverly & Genesee - Television City Driveway Count

Day: Tuesday, September 10, 2019 **City:** Los Angeles, CA

Daily Totals	Inbound	Outbound	Total
	6	5	11

AM	In		Out		Total		PM	In		Out		Total	
00:00	0		0		0		12:00	0		0		0	
00:15	0		0		0		12:15	0		0		0	
00:30	0		0		0		12:30	1		0		1	
00:45	0	0	0	0	0	0	12:45	0	1	0	0	0	1
01:00	0		0		0		13:00	0		0		0	
01:15	0		0		0		13:15	0		0		0	
01:30	0		0		0		13:30	0		0		0	
01:45	0	0	0	0	0	0	13:45	0	0	1	1	1	1
02:00	0		0		0		14:00	0		0		0	
02:15	0		0		0		14:15	0		0		0	
02:30	0		0		0		14:30	0		0		0	
02:45	0	0	0	0	0	0	14:45	0	0	0	0	0	0
03:00	0		0		0		15:00	0		0		0	
03:15	0		0		0		15:15	0		0		0	
03:30	0		0		0		15:30	0		0		0	
03:45	0	0	0	0	0	0	15:45	0	0	0	0	0	0
04:00	0		0		0		16:00	0		0		0	
04:15	0		0		0		16:15	0		0		0	
04:30	0		0		0		16:30	0		0		0	
04:45	0	0	0	0	0	0	16:45	0	0	0	0	0	0
05:00	0		0		0		17:00	0		0		0	
05:15	1		0		1		17:15	0		0		0	
05:30	0		0		0		17:30	0		0		0	
05:45	0	1	0	0	0	1	17:45	0	0	0	0	0	0
06:00	0		1		1		18:00	0		0		0	
06:15	0		0		0		18:15	0		0		0	
06:30	0		0		0		18:30	0		0		0	
06:45	0	0	0	1	0	1	18:45	0	0	0	0	0	0
07:00	1		0		1		19:00	1		0		1	
07:15	0		0		0		19:15	0		0		0	
07:30	0		1		1		19:30	0		0		0	
07:45	0	1	0	1	0	2	19:45	0	1	0	0	0	1
08:00	0		0		0		20:00	0		0		0	
08:15	1		0		1		20:15	0		0		0	
08:30	0		0		0		20:30	0		0		0	
08:45	1	2	0	0	1	2	20:45	0	0	0	0	0	0
09:00	0		1		1		21:00	0		0		0	
09:15	0		0		0		21:15	0		0		0	
09:30	0		1		1		21:30	0		0		0	
09:45	0	0	0	2	0	2	21:45	0	0	0	0	0	0
10:00	0		0		0		22:00	0		0		0	
10:15	0		0		0		22:15	0		0		0	
10:30	0		0		0		22:30	0		0		0	
10:45	0	0	0	0	0	0	22:45	0	0	0	0	0	0
11:00	0		0		0		23:00	0		0		0	
11:15	0		0		0		23:15	0		0		0	
11:30	0		0		0		23:30	0		0		0	
11:45	0	0	0	0	0	0	23:45	0	0	0	0	0	0
Totals		4		4	**8**		**Totals**		2		1	**3**	
Split %		50.0%		50.0%	**72.7%**		**Split %**		66.7%		33.3%	**27.3%**	

Daily Totals	Inbound	Outbound	Total
	6	5	11

Note: For the purpose of this count, a Heavy Truck is a commercial vehicle with a trailer.

Prepared by City Count, LLC (www.citycount.com)

ADT Volume Report - Heavy Truck

Beverly & Genesee - Television City Driveway Count

Day: Wednesday, September 11, 2019 **City:** Los Angeles, CA

Daily Totals	Inbound	Outbound	Total
	11	5	16

AM	In		Out		Total		PM	In		Out		Total	
00:00	0		0		0		12:00	0		0		0	
00:15	0		0		0		12:15	0		0		0	
00:30	0		0		0		12:30	0		0		0	
00:45	0	0	0	0	0	0	12:45	0	0	0	0	0	0
01:00	0		0		0		13:00	0		0		0	
01:15	0		0		0		13:15	1		0		1	
01:30	0		0		0		13:30	1		0		1	
01:45	0	0	0	0	0	0	13:45	0	2	0	0	0	2
02:00	0		0		0		14:00	0		0		0	
02:15	0		0		0		14:15	0		0		0	
02:30	0		0		0		14:30	0		1		1	
02:45	0	0	0	0	0	0	14:45	0	0	0	1	0	1
03:00	0		0		0		15:00	0		0		0	
03:15	0		0		0		15:15	0		0		0	
03:30	0		0		0		15:30	1		0		1	
03:45	0	0	0	0	0	0	15:45	0	1	0	0	0	1
04:00	0		0		0		16:00	0		0		0	
04:15	0		0		0		16:15	0		0		0	
04:30	0		0		0		16:30	0		0		0	
04:45	2	2	0	0	2	2	16:45	0	0	0	0	0	0
05:00	0		1		1		17:00	0		0		0	
05:15	0		0		0		17:15	0		0		0	
05:30	0		0		0		17:30	0		0		0	
05:45	0	0	0	1	0	1	17:45	0	0	0	0	0	0
06:00	0		0		0		18:00	0		0		0	
06:15	0		0		0		18:15	0		0		0	
06:30	0		0		0		18:30	0		0		0	
06:45	0	0	0	0	0	0	18:45	1	1	0	0	1	1
07:00	0		0		0		19:00	0		0		0	
07:15	1		0		1		19:15	0		0		0	
07:30	0		0		0		19:30	0		0		0	
07:45	0	1	0	0	0	1	19:45	0	0	0	0	0	0
08:00	0		0		0		20:00	0		0		0	
08:15	1		0		1		20:15	0		0		0	
08:30	1		0		1		20:30	0		0		0	
08:45	0	2	1	1	1	3	20:45	0	0	0	0	0	0
09:00	0		1		1		21:00	0		0		0	
09:15	0		0		0		21:15	0		0		0	
09:30	0		0		0		21:30	0		0		0	
09:45	0	0	0	1	0	1	21:45	0	0	0	0	0	0
10:00	0		0		0		22:00	0		0		0	
10:15	1		0		1		22:15	0		0		0	
10:30	0		0		0		22:30	0		0		0	
10:45	0	1	0	0	0	1	22:45	0	0	0	0	0	0
11:00	1		0		1		23:00	0		0		0	
11:15	0		1		1		23:15	0		0		0	
11:30	0		0		0		23:30	0		0		0	
11:45	0	1	0	1	0	2	23:45	0	0	0	0	0	0
Totals		7		4	11		Totals		4		1	5	
Split %		63.6%		36.4%	68.8%		Split %		80.0%		20.0%	31.3%	

Daily Totals	Inbound	Outbound	Total
	11	5	16

Note: For the purpose of this count, a Heavy Truck is a commercial vehicle with a trailer.

Prepared by City Count, LLC (www.citycount.com)

ADT Volume Report - Heavy Truck

Beverly & Genesee - Television City Driveway Count

Day: Thursday, September 12, 2019 **City:** Los Angeles, CA

Daily Totals	Inbound	Outbound	Total
	9	3	12

AM	In		Out		Total		PM	In		Out		Total	
00:00	0		0		0		12:00	1		0		1	
00:15	0		0		0		12:15	0		0		0	
00:30	0		0		0		12:30	0		0		0	
00:45	0	0	0	0	0	0	12:45	0	1	0	0	0	1
01:00	0		0		0		13:00	0		0		0	
01:15	0		0		0		13:15	2		0		2	
01:30	0		0		0		13:30	0		0		0	
01:45	0	0	0	0	0	0	13:45	0	2	0	0	0	2
02:00	0		0		0		14:00	0		1		1	
02:15	0		0		0		14:15	1		0		1	
02:30	0		0		0		14:30	0		0		0	
02:45	0	0	0	0	0	0	14:45	0	1	0	1	0	2
03:00	0		0		0		15:00	0		0		0	
03:15	0		0		0		15:15	0		0		0	
03:30	0		0		0		15:30	0		0		0	
03:45	0	0	0	0	0	0	15:45	0	0	0	0	0	0
04:00	0		0		0		16:00	0		0		0	
04:15	0		0		0		16:15	0		0		0	
04:30	0		0		0		16:30	0		0		0	
04:45	0	0	0	0	0	0	16:45	0	0	0	0	0	0
05:00	0		0		0		17:00	0		0		0	
05:15	0		0		0		17:15	0		0		0	
05:30	0		0		0		17:30	0		0		0	
05:45	0	0	0	0	0	0	17:45	0	0	0	0	0	0
06:00	0		0		0		18:00	0		0		0	
06:15	0		0		0		18:15	0		0		0	
06:30	0		0		0		18:30	0		0		0	
06:45	0	0	0	0	0	0	18:45	0	0	0	0	0	0
07:00	0		0		0		19:00	0		0		0	
07:15	0		0		0		19:15	0		0		0	
07:30	0		0		0		19:30	0		0		0	
07:45	0	0	0	0	0	0	19:45	0	0	0	0	0	0
08:00	0		0		0		20:00	0		0		0	
08:15	1		0		1		20:15	0		0		0	
08:30	0		0		0		20:30	0		0		0	
08:45	0	1	0	0	0	1	20:45	0	0	0	0	0	0
09:00	0		0		0		21:00	0		0		0	
09:15	1		1		2		21:15	0		0		0	
09:30	0		0		0		21:30	0		0		0	
09:45	1	2	0	1	1	3	21:45	0	0	0	0	0	0
10:00	0		0		0		22:00	0		0		0	
10:15	0		1		1		22:15	0		0		0	
10:30	0		0		0		22:30	0		0		0	
10:45	0	0	0	1	0	1	22:45	0	0	0	0	0	0
11:00	0		0		0		23:00	0		0		0	
11:15	1		0		1		23:15	0		0		0	
11:30	1		0		1		23:30	0		0		0	
11:45	0	2	0	0	0	2	23:45	0	0	0	0	0	0
Totals		5		2	7		Totals		4		1	5	
Split %		71.4%		28.6%	58.3%		Split %		80.0%		20.0%	41.7%	

Daily Totals	Inbound	Outbound	Total
	9	3	12

Note: For the purpose of this count, a Heavy Truck is a commercial vehicle with a trailer.

Gibson
transportation consulting, inc.

MEMORANDUM

TO: Stephanie Eyestone-Jones, Eyestone Environmental

FROM: Patrick A. Gibson, P.E., PTOE, and Jonathan Chambers, P.E.

DATE: March 8, 2023

RE: TVC 2050 Project Mobility Hub Usage Patterns **Ref:** J1750a

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This memorandum summarizes the projected usage patterns for the proposed Mobility Hub to be constructed and operated as part of the TVC 2050 Project, outlines the mode split assumptions that form the basis of the travel projections to be served by the Mobility Hub, details the travel components that will utilize the Mobility Hub, and outlines the overall vehicular trip and VMT effects of the Mobility Hub trips.

Tables 1 through 3 summarize the discussion below.

MODE SPLIT

Table 1 summarizes the modal split assumed to utilize the Mobility Hub. The top portion of Table 1 shows the employee, visitor, and audience populations that would use the Project Site on a busy weekday. These populations were then converted to person-trips per day.

As shown in Table 1, there would be a weekday average of approximately 427 audiences members visiting the Project Site, which results in approximately 854 audience member person-trips per day on a typical stage shooting day.

Mode split percentages were then applied to each category of trip by mode. The various choices were estimated at 0%, 5%, or 10% of the daily trips for each trip category for each mode split choice. Though pedestrian and bicycle trips may also utilize the Mobility Hub, their overall effect on automobile trips is already accounted for in the Project trip generation estimates so, to avoid double counting, they are not repeated here.

The lower portion of Table 1 shows the number of person-trips per day that would be served by the Mobility Hub. A total of approximately 4,325 daily trips represents 25% of the total trips to/from the Project site. The total mode slit for the overall Project would be slightly higher because, as mentioned above, the estimates in Table 1 do not include pedestrian and bicycle trips nor do they include transit trips by Los Angeles County Metropolitan Transportation Authority (Metro) buses.

MOBILITY HUB ACTIVITY

Table 2 shows the data for the individual modes that would utilize the Mobility Hub.

The most active component of the Mobility Hub would be the shuttle buses to/from the planned Metro D (Purple) Line station at Wilshire Boulevard & Fairfax Avenue. The morning and afternoon peak periods (four hours each spanning 6-10 am in the morning and 2-6 pm in the evening) would provide 10- to 15-minute headways between the Metro station and the Mobility Hub. The four-hour midday period of 10 am to 2 pm would provide 30-minute headways. With this level of service, the Project shuttle buses can be expected to carry approximately 1,616 passengers per day.

The approximately 164 visitors and audience members per day that would utilize rideshare vehicles for their trips would be expected to arrive and depart in approximately 149 rideshare vehicles each way, with each vehicle making one inbound and one outbound trip for each pick-up or drop-off. The visitor and audience members that use the pick-up/drop-off area of the Mobility Hub would also be served by 149 vehicles that would each make one inbound and one outbound trip for each pick- up and each drop off.

An active vanpool program serving 5% (approximately 783) of the Project employee daily person-trips would utilize 98 van trips carrying eight employees each.

Finally, though the increase in carpools would not necessarily utilize the Mobility Hub for each trip, they are included in Table 2 so that the overall trip and VMT reduction of the additional carpool activity could be tracked. A total of approximately 1,566 additional employee trips would travel to the Project site via the increased carpools.

TRIP AND VMT DISPLACEMENT BY MOBILITY HUB

Table 3 shows the effects of the Mobility Hub and the transportation demand management (TDM) program on the overall number of vehicle trips and the overall VMT totals for the Project.

The last row in Table 2 shows that approximately 4,293 person trips per day are expected to travel to/from the Project site via a mode of travel other than the single occupant automobile. With the increased carpool activity and the facilities and programs supported by both the Mobility Hub and the TDM program, both the number of automobile trips per day and the VMT to/from the Project Site will be decreased over the levels analyzed in the Project's Draft Environmental Impact Report.

TABLE 1
MOBILITY HUB MODE SPLIT

Category	Daily Total	Trips per Person per Day	Person-Trips Per Day	Mode Split Percentages [a]						
				Shuttle	Uber / Lyft	Pick-up / Drop-off	Vanpool	Carpool		
Employee	7,832	2	15,664	10%			5%	10%		
Visitor [b]		5%	783	5%	10%	10%				
Audience	427	2	854	5%	10%	10%				
			17,301							
				Mode Split Trips / Day					**Total**	**Non-Auto Mode Split**
				Shuttle	**Uber / Lyft**	**Pick-up / Drop-off**	**Vanpool**	**Carpool**		
Employee				1,566			783	1,566	**3,915**	25%
Visitor				39	78	78			**195**	25%
Audience				43	86	86			**215**	25%
			Total	**1,648**	**164**	**164**	**783**	**1,566**	**4,325**	25%

NOTES

[a] See Table 10 in Section A, TDM Effects on Trip Generation in Topical Response No. 11, Transportation Demand Management for a discussion of the range of mode splits by type of TDM Program.

[b] See Response to Comment No. 106-2 for a discussion of the total person trips by category for the Project. The Urban Land Institute and National Parking Association in Shared Parking, Third Edition, 2020 estimate office visitors generate 5-10% of the total office trips per day. This analysis chose the lower end of the range to be conservative. This estimate includes visitors to the General Office, Production Office, and Production Support spaces on the Project Site.

TABLE 2
MOBILITY HUB ACTIVITY FORECASTS

			Passenger Trips per day
Shuttle [a]	Daily Operations: 4 hrs AM, 4 hrs PM, 4 hrs mid-day		
	4-6 trips per hour AM and PM peaks, 2 trips per hour mid-day hours		
	100% occupancy for 3 AM and 3 PM hours	6 trips per hour x 36 persons per trip x 6 hours	1,296
	50% occupancy for 1 AM and 1 PM hours	4 trips per hour x 20 persons per trip x 2 hours	160
	50% occupancy for 8 mid-day trips	2 trips per hour x 20 persons per trip x 4 hours	160
		Shuttle Subtotal	1,616
Uber/Lyft [b]	164 passengers/day @ 1.1 passengers/vehicle = 149 daily cars in and out of Mobility Hub for pick-up and 149 daily cars in and out of Mobility Hub for drop-off		164
Pick-up / Drop-off [b]	164 passengers/day @ 1.1 passengers/veh = 149 daily cars in and out of Mobility Hub for pick-up and 149 daily cars in and out of Mobility Hub for drop-off		164
Vanpool [c]	783 passengers/day @ 8 passengers/vehicle = 49 van trips in and 49 van trips out/day		783
Carpool [d]	1,566 passenger trips/day are made with an employee who was already coming to the site		1,566
		Total	**4,293**

NOTES:

[a] It was assumed that the Project shuttle buses would operate for 12 hours per day:
6 - 10 am for the morning peak period
10 am - 2 pm for the mid-day period
2 - 6 pm for the afternoon peak period
These hours may be adjusted depending on actual demand.
Bus occupancy levels in each hour of the day were estimated based on typical employee shuttles from transit to office.

[b] Average vehicle occupancy of 1.1 persons/vehicle based on U.S. Census Data,
American Community Survey (https://map.myneighborhooddata.org)

[c] Vanpool capacity of 8 persons per vehicle represents a medium-sized van.

[d] An increase of 1,566 passenger trips using carpools represents a 10% increase in the number of employees forming carpools.

TABLE 3
MOBILITY HUB TRIP AND VMT DISPLACEMENT

			Displacement of Trips	Displacement of VMT
Shuttle	4 buses at 40 passenger capacity will make 52 round trips per day between the Mobility Hub and the Wilshire/Fairfax station [a]			
	52 trips x 1.7 mile round trip = **88.4 bus VMT per day**		+104	+88
	These 52 bus trips would replace 1,616 passengers/1.1 passengers/veh = 1,469 auto trips [b]			
	1,469 auto trips x 6.7 miles per trip **= 9,842 auto VMT per day**	[c]	(1,469)	(9,842)
Uber / Lyft and Pick-up / Drop-off				
	These **328** people coming to/from the site could generate up to **1,192 auto trips/day** (one arrival and one departure for each trip, assuming 1.1 passengers per vehicle)	[d]	+1,192	+7,986
	If self-driven, these people would have made **596 auto trips/day** to and from the site	[e]	(596)	(3,993)
Vanpool	783 passengers per day would come in 98 vans (98 in + 98 out in terms of trips)			
	98 + 98 = 196 van trips x 6.7 miles per trip = **1,313 VMT for the van fleet**		+196	+1,313
	783 passengers driving themselves would generate 783 @ 1.1 people per car = (712 vehicles in + 712 out)			
	1,424 auto trips x 6.7 miles per trip = **9,541 VMT if they all came by car**		(1,424)	(9,541)
Carpool	In this scenario, 1,566 employees choose to carpool instead of drive to work.			
	1,550 @ 1.1 persons per vehicle = 1,424 vehicles taken off the roadway x 6.7 miles per trip			
	1,424 trips x 6.7 miles per trip = **9,541 carpool VMT per day**		(1,424)	(9,541)

	Displacement by Mobility Hub	
	Trips	**VMT**
Increase	+1,492	+9,388
Decrease	(4,913)	(32,917)
Net	**(3,421)**	**(23,529)**

NOTES

[a] See Table 2 for a description of shuttle bus activity levels.

[b] See Table 2 for the calculation of shuttle bus passenger levels.

[c] 6.7 miles/ trip represents the calculated work VMT per employee for the Project. See Transportation Assessment, Appendix M.1 of the Draft EIR, page 119 and Table 13, VMT Summary on page 123.

[d] (328 people inbound + 328 people outbound) x (2 inbound trips + 2 outbound trips) / 1.1 persons/veh = 1,192 veh trips

[e] (328 people / 1.1 persons/car) x (1 trip in + 1 trip out) = 596 veh trips

Onsite Equipment

Journal Transactions for Account Ledger: ACTUAL Account: 81251 - LANDSCAPE EQUIPMENT 1 of 4
Company/Branch: STUDIO From Period: 01-2019 6887 11/10/2022 7:36 AM
To Period: 11-2022 Jeffrey Mapes

Period	Date	Module	Batch Number	Tran. Type	Ref. Number	Subaccount	Description	Debit	Credit	Ending Balance
							Beginning Balance:			**0.00**
Project		**Description**								
0000		Non-Project Code.								
05-2019	5/31/2019	GL	5470699		Spreadsheet	6887		32.86	0.00	32.86
							Project Total:		**32.86**	
							Project Total:		**0.00**	
Project		**Description**								
0000		Non-Project Code.								
12-2019	12/24/2019	GL	6256218		Manual	6887	GAS FOR LANDSCAPE MACHINERY	8.21	0.00	8.21
12-2019	12/24/2019	GL	6256218		Manual	6887	GAS FOR LANDSCAPE MACHINERY	6.71	0.00	14.92
12-2019	12/24/2019	GL	6256218		Manual	6887	GAS FOR LANDSCAPE MACHINERY	10.47	0.00	25.39
01-2020	1/31/2020	GL	JE010057		JEFF MAPES	6887	GAS FOR LANDSCAPE MACHINERY	5.13	0.00	30.52
02-2020	2/29/2020	GL	JE010202		JEFF MAPES	6887	GAS FOR LANDSCAPE MACHINERY	9.09	0.00	39.61
							Project Total:			**39.61**
							Project Total:			**0.00**
Project		**Description**								
0000		Non-Project Code.								
09-2020	9/28/2020	GL	JE011104		JEFF MAPES	6887	GAS FOR LANDSCAPE - 9/25/2020	5.81	0.00	5.81
10-2020	10/29/2020	GL	JE011213		JEFF MAPES	6887	GAS FOR LANDSCAPE - 10/16/2020	6.80	0.00	12.61
10-2020	10/29/2020	GL	JE011213		JEFF MAPES	6887	GAS FOR LANDSCAPE - 10/2/2020	7.74	0.00	20.35
10-2020	10/29/2020	GL	JE011213		JEFF MAPES	6887	GAS FOR LANDSCAPE - 10/7/2020	6.90	0.00	27.25
10-2020	10/29/2020	GL	JE011213		JEFF MAPES	6887	GAS FOR LANDSCAPE - 10/22/2020	5.83	0.00	33.08
10-2020	10/29/2020	GL	JE011213		JEFF MAPES	6887	GAS FOR LANDSCAPE - 10/28/2020	4.42	0.00	37.50
10-2020	10/29/2020	GL	JE011213		JEFF MAPES	6887	GAS FOR LANDSCAPE - 10/12/2020	5.95	0.00	43.45
11-2020	11/23/2020	GL	JE011324		JEFF MAPES	6887	GAS FOR LANDSCAPE - 11/27/2020	6.24	0.00	49.69
11-2020	11/23/2020	GL	JE011324		JEFF MAPES	6887	GAS FOR LANDSCAPE - 11/20/2020	4.19	0.00	53.88
11-2020	11/23/2020	GL	JE011324		JEFF MAPES	6887	GAS FOR LANDSCAPE - 11/18/2020	6.94	0.00	60.82

Journal Transactions for Account Ledger: ACTUAL Account: 81251 - FUEL & STEAM Page: 2 of 4
Company/Branch: STUDIO From Period: 01-2019 Subaccount: 6887 Date: 11/10/2022 7:36 AM
To Period: 11-2022 User: Jeffrey Mapes

Period	Date	Module	Batch Number	Tran. Type	Ref. Number	Subaccount	Description	Debit	Credit	Ending Balance
11-2020	11/23/2020	GL	JE011324		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE MACHINERY - 11/11/2020	4.07	0.00	64.89
11-2020	11/23/2020	GL	JE011324		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 11/4/2020	7.91	0.00	72.80
12-2020	12/21/2020	GL	JE011507		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 12/3/2020	5.05	0.00	77.85
12-2020	12/21/2020	GL	JE011507		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 12/11/2020	4.69	0.00	82.54
12-2020	12/21/2020	GL	JE011507		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 12/22/2020	8.99	0.00	91.53
01-2021	1/31/2021	GL	JE011942		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 1/20/2021	5.24	0.00	96.77
01-2021	1/31/2021	GL	JE011942		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 1/25/2021	5.57	0.00	102.34
01-2021	1/31/2021	GL	JE011942		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 1/8/2021 1	7.55	0.00	109.89
02-2021	2/1/2021	GL	JE011941		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 1/8/2021 1	7.55	0.00	117.44
02-2021	2/1/2021	GL	JE011941		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 1/20/2021	5.24	0.00	122.68
02-2021	2/1/2021	GL	JE011941		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 1/25/2021	5.57	0.00	128.25
02-2021	2/1/2021	GL	JE011943		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 1/8/2021 1	0.00	7.55	120.70
02-2021	2/1/2021	GL	JE011943		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 1/20/2021	0.00	5.24	115.46
02-2021	2/1/2021	GL	JE011943		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 1/25/2021	0.00	5.57	109.89
02-2021	2/26/2021	GL	JE012022		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 2/15/2021	5.70	0.00	115.59
02-2021	2/26/2021	GL	JE012022		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 2/19/2021	4.97	0.00	120.56
02-2021	2/26/2021	GL	JE012022		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 2/3/2021 1	6.35	0.00	126.91
02-2021	2/26/2021	GL	JE012022		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 2/8/2021 1	4.79	0.00	131.70
02-2021	2/26/2021	GL	JE012022		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 2/25/2021	7.52	0.00	139.22
03-2021	3/29/2021	GL	JE012166		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 3/25/2021	4.55	0.00	143.77
03-2021	3/29/2021	GL	JE012166		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 3/10/2021	7.70	0.00	151.47
03-2021	3/29/2021	GL	JE012166		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 3/22/2021	4.69	0.00	156.16
04-2021	4/30/2021	GL	JE012403		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 4/7/2021 1	6.17	0.00	162.33
04-2021	4/30/2021	GL	JE012403		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 4/23/2021	5.58	0.00	167.91
04-2021	4/30/2021	GL	JE012403		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 4/30/2021	11.92	0.00	179.83
05-2021	5/31/2021	GL	JE012686		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 5/20/2021	8.59	0.00	188.42
05-2021	5/31/2021	GL	JE012686		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 5/5/2021 1	9.39	0.00	197.81
05-2021	5/31/2021	GL	JE012686		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 5/17/2021	12.02	0.00	209.83
06-2021	6/30/2021	GL	JE012810		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 6/3/2021 1	11.61	0.00	221.44
06-2021	6/30/2021	GL	JE012810		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 6/11/2021	12.40	0.00	233.84
06-2021	6/30/2021	GL	JE012810		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 6/16/2021	6.45	0.00	240.29
06-2021	6/30/2021	GL	JE012810		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 6/23/2021	9.00	0.00	249.29
06-2021	6/30/2021	GL	JE012810		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 6/25/2021	6.00	0.00	255.29
07-2021	7/12/2021	GL	JE012946		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 7/28/2021	7.71	0.00	263.00
07-2021	7/12/2021	GL	JE012946		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 7/23/2021	12.64	0.00	275.64
07-2021	7/12/2021	GL	JE012946		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 7/1/2021 1	7.13	0.00	282.77
07-2021	7/12/2021	GL	JE012946		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 7/8/2021 1	9.42	0.00	292.19
07-2021	7/12/2021	GL	JE012946		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE MACHINERY - 7/16/2021	10.28	0.00	302.47
08-2021	8/30/2021	GL	JE013143		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 8/5/2021 1	10.14	0.00	312.61
08-2021	8/30/2021	GL	JE013143		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 8/12/2021	12.13	0.00	324.74
08-2021	8/30/2021	GL	JE013143		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 8/18/2021	10.45	0.00	335.19
08-2021	8/30/2021	GL	JE013143		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 8/26/2021	13.07	0.00	348.26
09-2021	9/27/2021	GL	JE013263		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 9/20/2021	6.37	0.00	354.63
10-2021	10/28/2021	GL	JE013432		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 10/15/2021	11.74	0.00	366.37
11-2021	11/24/2021	GL	JE013552		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 11/11/2021	7.24	0.00	373.61
12-2021	12/23/2021	GL	JE013707		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 12/8/2021	9.17	0.00	382.78
01-2022	1/31/2022	GL	JE013856		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 1/12/2022	13.62	0.00	396.40
01-2022	1/31/2022	GL	JE013856		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 1/13/2022	4.90	0.00	401.30
01-2022	1/31/2022	GL	JE013856		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 1/26/2022	13.19	0.00	414.49
02-2022	2/28/2022	GL	JE013982		Mapes, Jeff	6887	CC: GAS FOR LANDSCAPE 2/1/2022 MACHINERY	9.25	0.00	423.74
02-2022	2/28/2022	GL	JE013982		Mapes, Jeff	6887	CC: GAS FOR LANDSCAPE 2/16/2022	6.90	0.00	430.64
03-2022	3/31/2022	GL	JE014087		Mapes, Jeff	6887	CC: GAS FOR LANDSCAPE 3/22/2022	9.84	0.00	440.48
03-2022	3/31/2022	GL	JE014087		Mapes, Jeff	6887	CC: GAS FOR LANDSCAPE 3/1/2022	7.57	0.00	448.05
04-2022	4/29/2022	GL	JE014220		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 4/20/2022	11.33	0.00	459.38
04-2022	4/29/2022	GL	JE014220		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 4/28/2022	8.00	0.00	467.38
04-2022	4/29/2022	GL	JE014220		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 4/8/2022 1	13.01	0.00	480.39
05-2022	5/30/2022	GL	JE014348		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 5/11/2022	7.88	0.00	488.27
05-2022	5/30/2022	GL	JE014348		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 5/19/2022	9.91	0.00	498.18
05-2022	5/30/2022	GL	JE014348		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 5/25/2022	9.78	0.00	507.96
06-2022	6/29/2022	GL	JE014451		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 6/22/2022	6.47	0.00	514.43
06-2022	6/29/2022	GL	JE014451		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 6/15/2022	9.40	0.00	523.83
06-2022	6/29/2022	GL	JE014451		JEFF MAPES	6887	CC: GAS FOR LANDSCAPE - 6/8/2022 1	11.99	0.00	535.82
07-2022	7/2/2022	AP	AP047294			6887	David Caldwell 07.02.22 reimburse	17.85	0.00	553.67
07-2022	7/31/2022	GL	JE014539			6887	CC: 76 - DBA BEVERLY 76 - 7/15/2022	11.09	0.00	564.76
07-2022	7/31/2022	GL	JE014539			6887	CC: 76 - DBA BEVERLY 76 - 7/22/2022	9.46	0.00	574.22
08-2022	8/31/2022	GL	JE014652			6887	CC: 76 - DBA BEVERLY 76 - 8/26/2022	5.72	0.00	579.94
08-2022	8/31/2022	GL	JE014652			6887	CC: 76 - DBA BEVERLY 76 - 8/12/2022	16.00	0.00	595.94
09-2022	9/30/2022	GL	JE014737			6887	CC: 76 - DBA BEVERLY 76 - 9/9/2022 1	10.45	0.00	606.39
09-2022	9/30/2022	GL	JE014737			6887	CC: 76 - DBA BEVERLY 76 - 9/14/2022	6.01	0.00	612.40
09-2022	9/30/2022	GL	JE014737			6887	CC: BEVERLY 76 - 9/23/2022	50.00	0.00	662.40
							Project Total:			**662.40**
							Project Total:			**0.00**
							Account Total:			**741.20**

Journal Transactions for Account Ledger: ACTUAL Account: 81251 - LANDSCAPE EQUIPMENT Page: 4 of 4
Company/Branch: STUDIO From Period: 01-2019 Subaccount: 6887 Date: 11/10/2022 7:36 AM
To Period: 11-2022 User: Jeffrey Mapes

Television City Air Quality Assessment

Onsite Equipment (Provided by Jeff Mapes, TVC, February 15, 2023)

Unit	Type	Fuel	Dept	Hrs/Day	Make	Model	Serial Nbr	Remarks
8	3-Wheeler	electric	Stage	8	EZ-Go	XI640	7417	Yellow
29	3-Wheeler	electric	Special Effects	8	Taylor Dunn	1159SC	61804	
34	3-Wheeler	electric	Special Effects	8	Taylor Dunn	SC00159	76787	
37	3-Wheeler	electric	Stage	8	Taylor Dunn	SC-001-59	158496	Rcvd-11/25/03
9	Cart	electric	Prod Electric	0	EZ-Go	XI-875	8161	
27	Cart	electric	Drapery	8	EZ-Go	X1500	VL-A38064	
28	Cart	electric	Stage Ops	1	EZ-Go	Textrron	847148	Exec Golf Cart
41	Cart	electric	Prod. Electric	4	EZGO	Titan	2285863	Yellow
42	Cart	electric	Prod. Shop	4	EZGO	Titan	2285896	Yellow
52	Cart	electric	Prod.Shop	8	EZGO	875PE	2611429	New 2/07
53	Cart	electric	Prod.Shop	8	EZGO	875PE	2611454	New 2/08
74	Cart	electric	Prod. Lighting	8	Easy-Go	B5-440-48	206070	New 1/18
59	Fork Lift	electric	Stage Ops	4	Clark	ECX 32	ECX360-1534	New 9/11
64	Fork lift	electric	Stock Scenery	8	CLARK	ECX 30	0054-9931	New 1/15
65	Fork lift	electric	Stock Scenery	4	CLARK	ECX 30	0052-9931	New 1/15
32	Forklift	electric	Transportation	8	Crown	40FCTT	9A108995	
33	Forklift	electric	Transportation	2	Nissan	N/A	N/A	Sent to VW-15'
38	Forklift	electric	Transportation	8	Crown	FC4010	9A131619	New in 2004
44	Forklift	electric	Stock Scenery	0	mitsubishi	FBC-15n	A4BC110229	New 02/06
73	Forklift	electric	Prod. Lighting	2	Caterpillar	E3500	A4EC150597	New 3/18
0	Man Lift	electric	Stage Ops	8	JLG	20MVL	130024484	New 12/15
0	Man Lift	electric	Stage Ops	8	JLG	20MVL	130024494	New 12/15
0	Man Lift	electric	Stage Ops	8	JLG	20MVL	130024483	New 12/15
0	Man Lift	electric	Stage Ops	8	JLG	20MVL	130024485	New 12/15
0	Man Lift	electric	Stage Ops	8	JLG	20MVL	130024482	New 12/15
0	Man Lift	electric	Stage Ops	8	JLG	20MVL	130024502	New 12/15
0	Man Lift	electric	stage ops	8	JLG	20MVL	130031517	New 7/17
21	Man Lift	electric	Stage	0	Workforce	XLT-2900	2900-0222	"Cougar"
22	Man Lift	electric	Stage	2	Workforce	XLT-2900	2900-0239	"Cougar"
25	Man Lift	electric	Stage	8	Workforce	XLT-2900	2990-0758	"Cougar"-New
39	Man Lift	propane	Stage	4	JLG	20DVL	130006410	Orange
43	Man Lift	electric	Stage	8	JLG	20DVL	130006716	
47	Man Lift	electric	Stage Ops	4	JLG	20MVL	130009421	New 1/07
48	Man Lift	electric	Stage Ops	4	JLG	20MVL	130009412	New 1/07
60	Man Lift	electric	Stage Ops	0	Genie	GR-20	GR14-28915	New 12/13
61	Man Lift	electric	Stage Ops	0	Genie	GR-20	GR14-28911	New 12/13
69	Man Lift	electric	Stage Ops	4	JLG	20MVL	130023197	New 5/15
70	Man Lift	electric	Stage Ops	4	JLG	20MVL	130023188	New 5/15
71	Man lift	electric	stage ops	4	JLG	20MVL	130032521	New 3/18
75	Man Lift	electric	Stage Ops	8	JLG	400176	18230026	New 5/18
45	Scissor Lift	electric	Prod. Shop	4	JLG	2030es	200153744	New 08/06
49	Scissor Lift	electric	Stage Ops	1	JLG	4069le	200163667	New 1/07
58	Scissor Lift	electric	Stage Ops	2	JLG	2030ES	200192321	New 4/09
72	Scissor lift	electric	Prod. Shop	4	JLG	2632E	M200018790	New 5/18
46	Stacker Lift	electric	Prod. Lighting	6	Clark	CSP15-160	CSP15-0047-6932FP	New 1/07
51	Stacker Lift	electric	Stage Ops	4	Crown	WR Series	6A246740	New 3/07
56	Stacker Lift	electric	Stage Ops	2	Big Joe	PDI24-T9	382494	New 4/09
57	Stock Chaser	electric	Stage Ops	8	EZ-GO	XI640	2548286	New 4/09
62	Stock Chaser	electric	Stage Ops	8	EZGO	SC-100-24	197329	New 12/14
63	Stock Chaser	electric	Stage Ops	8	EZGO	SC-100-24	197328	New 12/14
36	Tow Tractor	electric	Stock Scenery	0	Taylor Dunn	P2-50	148027	Rcvd-8/8/01
50	Tow Tractor	electric	Stock Scenery	8	Charlatte	TE208	208043	New 3/07
55	Tow Tractor	electric	Stock Scenery	8	Charlatte	TE208	2080424	New 4/09
66	Tow Tractor	electric	Stock Scenery	4	Charlatte	TE208	2080981	New 12/14
67	Tow Tractor	electric	Stock Scenery	8	Charlatte	TE208	2080979	New 12/14
68	Tow Tractor	electric	Transportation	6	Charlatte	TE208	2080980	New 12/14
30	Tugger	electric	Transportation	3	Taylor Dunn	3249P	36344	
Total	56			5.3				

Appendix B

TVC 2050 Project Greenhouse Gas Appendix

TVC 2050 Project

Final EIR

Appendix B-Greenhouse Gas

- Appendix B-1-Summary of GHG Emissions
- Appendix B-2-SB100 CO2 Intensity
- Appendix B-3-2022 Scoping Plan Analysis

TVC 2050 Project

Final EIR

Appendix B-1-Summary of GHG Emissions

- 2026 Buildout
  - Conceptual Plan (Proposed Development Program)
  - Max Equivalency Scenario (Maximum Land Use Exchange Scenario)
- Electric Vehicles and Solar Panel

TVC 2050 - Summary of GHG Emissions 2026 Buildout

Draft EIR CalEEMod 2020	
Construction Emissions - Annual	
CalEEMod Output - Annual Construction	
Year	CO2e
2023	3221
2024	7695
2025	2524
2026	864
30-year Amortized	**477**

Final EIR CalEEMod 2022		
Construction Emissions - Annual		
CalEEMod Output - Annual Construction		
Year	CO2e	
2023	3502	
2024	8545	
2025	3914	
2026	1465	
2023	20	Dewatering Installation
2023-2025	32	Dewatering Pumps (Electricity)
Additional 100 worker trips	128	
30-year Amortized	**587**	

Conceptual Land Use Program Operational Emissions - Annual (Draft EIR CalEEMod 2020)

	Baseline (Existing Year)	Baseline (Buildout Year) - No MXD	Project (Buildout Year) No MXD/PDFs	Project(Buildout Year) - With MXD/PDFs	Project(Buildout Year) - No MXD less Baseline	Project (Buildout Year) - With MMs less Baseline
Category	CO2e	CO2e	CO2e	CO2e	Increment	Increment
Area	0.1	0.1	0.2	0.2	0.1	0.1
Energy	3819	3278	8438	7787	5160	4509
Mobile	2882	2478	11661	7272	9183	4795
EV	(25)	(22)	(990)	(990)	(968)	(968)
Solar	(449)	(431)	0	(533)	431	(102)
Stationary (Emergency Generators)	28.2	28.2	32.0	32	4	4
Waste	98	98	230	230	133	133
Water	968	851	1740	1740	889	889
Operations Total	**7321**	**6279**	**21110**	**15538**	**14831**	9259
Construction Amortized			477	477	477	477
Total			**21587**	**16015**	**15308**	**9736**

Conceptual Land Use Program Operational Emissions - Annual (Final EIR CalEEMod 2022)

	Baseline (Existing Year)	Baseline (Buildout Year)	Project (Buildout Year) No MXD/PDFs	Project(Buildout Year) - With MXD/PDFs	Project(Buildout Year) - No MXD less Baseline	Project (Buildout Year) - With MMs less Baseline
Category	CO2e	CO2e	CO2e	CO2e	Increment	Increment
Area	2.6	2.6	2.6	0.0	(0.0)	(2.6)
Energy	3406	3294	12513	12513	9219	9219
Mobile	3138	2785	12563	7921	9778	5136
EV	(25)	(22)	(990)	(990)	(968)	(968)
Solar	(449)	(431)		(533)	431	(102)
Stationary (Emergency Generators)	28.2	28.2	32.0	32	4	4
Waste	56	56	141	141	85	85
Water	337	329	866	866	537	537
Refrigeration	5	5	17	17	13	13
Off-Road (Onsite Combustion Equipment)	12	12	12	0	0	(12)
Miscellaneous Electrical Usage	0	0	685	685	685	685
Operations Total	**6510**	**6058**	**25156**	**19967**	**19098**	13909
Construction Amortized			587	587	587	587
Total			**25743**	**20554**	**19685**	**14496**

Miscellaneous electrical includes basecamp operations (lighting, ventilation, addtional electrical hookups), Mobility Hub (lighting, ventilation, and four new EV chargers), signage, circulation areas (lighting), and methane ventilation for sound stages on slab foundation. See attached calculation sheet.

Land Use Exchange VMT/Natural Gas Operational Emissions - Annual (Draft EIR CalEEMod 2020)

	Baseline (Existing Year)	Baseline (Buildout Year) - No MXD	Project (Buildout Year) No MXD/PDFs	Project(Buildout Year) - With MXD/PDFs/MMs	Project (Buildout Year) - Without MMs less Baseline	Project (Buildout Year) - With MMs less Baseline
Category	CO2e	CO2e	CO2e	CO2e	Increment	Increment
Area	0.1	0.1	0.2	0.2	0.1	0.1
Energy	3819	3278	8438	7829	5160	4551
Mobile	2882	2478	8841	8169	6363	5691
EV	(25)	(22)	(990)	(990)	(968)	(968)
Solar	(449)	(431)	0	(533)	431	(102)
Stationary (Emergency Generators)	28	28	32.0	32.0	4	4
Waste	98	98	230	230	132	132
Water	968	851	1740	1740	889	889
Operations Total	**7321**	**6279**	**18291**	**16477**	**12012**	10198
Construction Amortized			477	477	477	477
Total			**18768**	**16954**	**12489**	**10675**

Land Use Exchange VMT/Natural Gas Operational Emissions - Annual (Final EIR CalEEMod 2022)

	Baseline (Existing Year)	Baseline (Buildout Year) - No MXD	Project (Buildout Year) No MXD/PDFs	Project(Buildout Year) - With MXD/PDFs/MMs	Project(Buildout Year) - No MXD less Baseline	Project (Buildout Year) - With MMs less Baseline
Category	CO2e	CO2e	CO2e	CO2e	Increment	Increment
Area	2.6	2.6	2.6	0.0	(0.04)	(2.6)
Energy	3406	3294	12601	12601	9307	9307
Mobile	3138	2785	9631	7999	6846	5214
EV	(25)	(22)	(990)	(990)	(968)	(968)
Solar	(449)	(431)	0	(533)	431	(102)
Stationary (Emergency Generators)	28.2	28.2	32.0	32	4	4
Waste	56	56	143	143	87	87
Water	337	329	847	847	518	518
Refrigeration	5	5	17	17	13	13
Off-Road (Onsite Combustion Equipment)	12	12	12	0	0	(12)
Miscellaneous Electrical Usage	0	0	747	747	747	747
Operations Total	**6510**	**6058**	**23042**	**20863**	**16985**	**14806**
Construction Amortized			587	587	587	587
Total			**23629**	**21450**	**17572**	**15392**

TVC 2050 - Electric Vehicle Charging and Solar Panel Calculations

GHG Emissions Reductions for Commercial Uses Associated with City Codes (Electric Vehicle Charging Stations/Plugins)

Step 1: Estimating GHG Emisisons Reduction to Replace Gasoline/Diesel Vehicle with Electric Vehicle

	Existing Baseline (Year 2021)	Existing Buildout (Year 2026)	Buildout (Year 2026)	
LADWP Electricity Emission Factor[1]	0.28	0.27	0.27	MTCO2E/MWh
Fuel Economy of Electric Vehicle[2]	0.36	0.38	0.38	kWh/mile
Gasoline/Diesel CO2 Emissions While Running[3]	332	306	306	grams/mile
Annual VMT Reduction per Parking Spot[4]	9,125	9,125	9,125	miles/charging station
Number of On-Site Chargers[5]	12	12	530	
Annual VMT Reduction All Stations/Plugins (Based on Charge)	109,500	109,500	4,836,250	
Energy Usage for Charging Vehicles	30,248	29,056	1,283,306	kWH/year

Step 2: Estimating GHG Emissions Reduction from Installing Electric Vehicle Charging Stations/Plugins

GHG Emisisons of Gasoline/Diesel Vehicle	36	34	1,480	MTCO2E/MWh
GHG Emissions of Electric Vehicle	11	11	489	MTCO2E/MWh
GHG Emisisons Reduction	**25**	**22**	**990**	MTCO2E/MWh

Notes:
1) CO2 intensity factor reflects a 2026 RPS for LADWP (585 lbs of CO2E/MWh).
2) CARB, EMFAC 2021, Electric and Plug-in vehicles for 2021 and 2026. Year 2021 average fuel economy shows lower efficiency than future years. However, this is due to the lack of electric powered heavy duty trucks in Year 2021, which would lower the average fuel economy.
3) CARB, 2021. EMFAC2021, running exhaust emission rate for CO2 and CH4 for light duty gasoline- and diesel-powered vehicles in Los Angeles, aggregated for all models and speeds, averaged over all seasons for 2026.
4) Annual VMT reduction estimated based on an estimate of 10 hours of charge time for a Level 2 charging station that charges at a rate of 25 driving range per hour. It is conservatively assumed that 10% of the miles charged would be driven by the charged vehicles.
5) City Code requires 10% of parking spaces to be equipped with EV chargers of 5,300 parking spaces (Page IV.K-24, of Section IV.K, Transportation, of the Draft EIR).

GHG Emissions Reductions for Solar Panels

Existing (Year 2021):

Existing Solar Array:	1,617	Annual Mwh production in Year 2019					
Existing CO2 Intensity (lb/MWh)	609	CO_2	0.029	CH_4	0.006	N_2O	
Global Warming Potential	1	CO_2	25	CH_4	298	N_2O	
CO2e	(448.62)	mtons/yr					

Existing (Year 2026):

Existing Solar Array:	1,617	Annual Mwh in Year 2026					
CO2 Intensity in 2026 (lb/MWh)	585	CO_2	0.029	CH_4	0.006	N_2O	
Global Warming Potential	1	CO_2	25	CH_4	298	N_2O	
CO2e	(430.92)	mtons/yr					

Buildout:

	2000	(Project Design Feature GHG-PDF-2)					
CO2 Intensity in 2026 (lb/MWh)	585	CO_2	0.029	CH_4	0.006	N_2O	
Global Warming Potential	1	CO_2	25	CH_4	298	N_2O	
CO2e	(532.98)	mtons/yr					

TVC 2050 Project

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Appendix B-2-SB100 CO_2 Intensity

SB100 - Renewable Portfolio Standards

Data from Draft EIR (Appendix B, p. 310)

Year	% RPS	RPS Reduction (%)	Carbon Intensity (lbs/MWh)	Notes / Source
				LADWP 2015 Power Integrated Resource Plan (December 31, 2015) - Page 16 (20% RPS).
2015	20	-20%	1131	LADWP 2017 Strategic Long-Term Resource Plan (Year 2015)
2016	29	-31%	834	LADWP 2017 Power Strategic Long-Term Resource Plan, Table C-1
2017	31	-6%	780	LADWP 2016 Power Integrated Resources Plan, 31% RPS
2020	33	-6%	733	SB 100, Year 2020 RPS Goal
2026	46	-29%	520	LADWP 2016 Power Integrated Resources Plan, 525 lbs/MWh for Year 2026
2030	60	-23%	403	SB 100, Year 2030 RPS Goal
2036	65	-8%	372	LADWP 2016 Power Integrated Resources Plan goal for 2036
2045	100	-35%	0	Set to zero (carbon neutral goal of SB 100)

Build Out Year	Carbon Intensity (lbs/MWh)	
2026	**585**	**(Applied in CalEEMod 2022 Modeling for Year 2026)**
2043	336	

Note: The CalEEMod 2020 default value (691.98) was used for Year 2021.

Relevant Data Subsequent to Publication of the Draft EIR

Year	% RPS	RPS Reduction (%)	Carbon Intensity (lbs/MWh)	Notes / Source
2020	36.7	-36.7	579	LADWP Power Content Label for 2020
2021	35.2	4%	**609**	**LADWP Power Content Label for 2021 (Applied in CalEEMod 2022 Modeling for Year 2021)**

Build Out Year	Carbon Intensity (lbs/MWh)	
2026	508	For Comparison purposes using the more relevant data (Power Content Label 2020-2021).

As shown above, relevant data available subseqent to the Draft EIR publication date demonstrates that the Draft EIR used a conservative forecasted carbon intensity value for Year 2026 of 585 lbs/MWh instead of 508 lb/MWh. Since the 2026 RPS is 46 percent, it would convert as follows: 609 / (1 - 0.352) * (1 - 0.46) which equals approximately 508 lbs of CO2e per MWh, notably lower than the 585 lbs of CO2e per MWh used in the Draft EIR.

TVC 2050 Project

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Appendix B-3-2022 Scoping Plan Analysis

Appendix B-3: 2022 Scoping Plan Consistency Analysis

Introduction

The Scoping Plan is a greenhouse gas emission (GHG) reduction roadmap developed and updated by the California Air Resources Board (CARB) at least once every five years, as required by Assembly Bill (AB) 32. It lays out the transformations needed across various sectors to reduce GHG emissions and reach the State's climate targets. CARB published the Final 2022 Scoping Plan for Achieving Carbon Neutrality (2022 Scoping Plan Update) in November 2022, as the third update to the original plan that was adopted in 2008. The initial Scoping Plan laid out a path to achieve the AB 32 2020 limit of returning to 1990 levels of GHG emissions, a reduction of approximately 15 percent below business as usual activities.[1] The 2008 Scoping Plan included a mix of incentives, regulations, and carbon pricing, laying out the portfolio approach to addressing climate change and clearly making the case for using multiple tools to meet California's GHG targets. The 2013 Scoping Plan Update assessed progress toward achieving the 2020 limit and made the case for addressing short-lived climate pollutants (SLCPs).[2] The second update, the 2017 Scoping Plan Update,[3] shifted focus to the newer Senate Bill (SB) 32 goal of a 40 percent reduction below 1990 levels by 2030 by laying out a detailed cost-effective and technologically feasible path to this target, and also assessed progress toward achieving the AB 32 goal of returning to 1990 levels by 2020. The 2020 goal was ultimately reached in 2016, four years ahead of the schedule called for under AB 32.

The 2022 Scoping Plan Update is the most comprehensive and far-reaching Scoping Plan developed to date. It identifies a technologically feasible, cost-effective, and equity-focused path to achieve carbon neutrality by 2045 and to reduce anthropogenic GHG emissions to at least 85 percent below 1990 levels, while also assessing the progress California is making toward reducing its GHG emissions by at least 40 percent below 1990 levels by 2030, as called for in SB 32 and laid out in the 2017 Scoping Plan.[4] The 2030 target is an interim but important stepping stone along the critical path to the broader goal

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1 *CARB. 2008. Climate Change Scoping Plan. ww2.arb.ca.gov/sites/default/files/classic/cc/scopingplan/document/adopted_scoping_plan.pdf.*

2 *CARB. 2014. First Update to the Climate Change Scoping Plan. ww2.arb.ca.gov/sites/default/files/classic/cc/scopingplan/2013_update/first_update_climate_change_scoping_plan.pdf.*

3 *CARB. 2017. California's 2017 Climate Change Scoping Plan. ww2.arb.ca.gov/sites/default/files/classic/cc/scopingplan/scoping_plan_2017.pdf.*

4 *CARB, California's 2017 Climate Change Scoping Plan, 2017, ww2.arb.ca.gov/sites/default/files/classic/cc/scopingplan/scoping_plan_2017.pdf.*

of deep decarbonization by 2045. The relatively longer path assessed in the 2022 Scoping Plan Update incorporates, coordinates, and leverages many existing and ongoing efforts to reduce GHGs and air pollution, while identifying new clean technologies and energy. Given the focus on carbon neutrality, the 2022 Scoping Plan Update also includes discussion for the first time of the natural and working lands sectors as sources for both sequestration and carbon storage, and as sources of emissions as a result of wildfires. A summary of the GHG emissions reductions and targets set forth under the 2022 Scoping Plan Update is provided in Table 1 on page 2.

Table 1
Estimated Statewide Greenhouse Gas Emissions Reductions in the 2022 Scoping Plan

Emissions Scenario	GHG Emissions ($MMTCO_2e$)
2019	
2019 State GHG Emissions	404
2030	
2030 BAU Forecast	312
2030 GHG Emissions without Carbon Removal and Capture	233
2030 GHG Emissions with Carbon Removal and Capture	226
2030 Emissions Target Set by AB 32 (i.e., 1990 level by 2030)	260
Reduction below Business-As-Usual necessary to achieve 1990 levels by 2030	52 (16.7%)[a]
2045	
2045 BAU Forecast	266
2045 GHG Emissions without Carbon Removal and Capture	72
2045 GHG Emissions with Carbon Removal and Capture	(3)

$MMTCO_2e$ = million metric tons of carbon dioxide equivalents; parenthetical numbers represent negative values.

[a] *312 – 260 = 52 /312 = 16.7%*

Source: CARB, Final 2022 Climate Change Scoping Plan, November 2022.

The 2022 Scoping Plan Update reflects existing and recent direction in the Governor's Executive Orders and Statutes, which identify policies, strategies, and regulations in support of and implementation of the Scoping Plan. Among these include Executive Order B-55-18 and AB 1279 (The California Climate Crisis Act), which identify the 2045 carbon neutrality and GHG reduction targets required for the Scoping Plan. Table 2 on page 3 provides a summary of major climate legislation and executive orders issued since the adoption of the 2017 Scoping Plan.

Table 2
Major Climate Legislation and Executive Orders Enacted Since the 2017 Scoping Plan

Bill/Executive Order	Summary
AB 1279 (Muratsuchi, Chapter 337, Statutes of 2022) *The California Climate Crisis Act*	AB 1279 establishes the policy of the state to achieve carbon neutrality as soon as possible, but no later than 2045; to maintain net negative GHG emissions thereafter; and to ensure that by 2045 statewide anthropogenic GHG emissions are reduced at least 85 percent below 1990 levels. The bill requires CARB to ensure that Scoping Plan updates identify and recommend measures to achieve carbon neutrality, and to identify and implement policies and strategies that enable CO_2 removal solutions and carbon capture, utilization, and storage (CCUS) technologies. This bill is reflected directly in 2022 Scoping Plan Update.
SB 905 (Caballero, Chapter 359, Statutes of 2022) *Carbon Capture, Removal, Utilization, and Storage Program*	SB 905 requires CARB to create the Carbon Capture, Removal, Utilization, and Storage Program to evaluate, demonstrate, and regulate CCUS and carbon dioxide removal (CDR) projects and technology. The bill requires CARB, on or before January 1, 2025, to adopt regulations creating a unified state permitting application for approval of CCUS and CDR projects. The bill also requires the Secretary of the Natural Resources Agency to publish a framework for governing agreements for two or more tracts of land overlying the same geologic storage reservoir for the purposes of a carbon sequestration project. The 2022 Scoping Plan Update modeling reflects both CCUS and CDR contributions to achieve carbon neutrality.
SB 846 (Dodd, Chapter 239, Statutes of 2022) *Diablo Canyon Powerplant: Extension of Operations*	SB 846 extends the Diablo Canyon Power Plant's sunset date by up to five additional years for each of its two units and seeks to make the nuclear power plant eligible for federal loans. The bill requires that the California Public Utilities Commission (CPUC) not include and disallow a load-serving entity from including in their adopted resource plan, the energy, capacity, or any attribute from the Diablo Canyon power plant. The 2022 Scoping Plan Update explains the emissions impact of this legislation.
SB 1020 (Laird, Chapter 361, Statutes of 2022) *Clean Energy, Jobs, and Affordability Act of 2022*	SB 1020 adds interim renewable energy and zero carbon energy retail sales of electricity targets to California end-use customers set at 90 percent in 2035 and 95 percent in 2040. It accelerates the timeline required to have 100 percent renewable energy and zero carbon energy procured to serve state agencies from the original target year of 2045 to 2035. This bill requires each state agency to individually achieve the 100 percent goal by 2035 with specified requirements. This bill requires the CPUC, California Energy Commission (CEC), and CARB, on or before December 1, 2023, and annually thereafter, to issue a joint reliability progress report that reviews system and local reliability. The bill also modifies the requirement for CARB to hold a portion of its Scoping Plan workshops in regions of the state with the most significant exposure to air pollutants by further specifying that this includes communities with minority populations or low-income communities in areas designated as being in extreme federal non-attainment. The 2022 Scoping Plan Update describes the implications of this legislation on emissions.

Table (Continued)
Major Climate Legislation and Executive Orders Enacted Since the 2017 Scoping Plan

Bill/Executive Order	Summary
SB 1137 (Gonzales, Chapter 365, Statutes of 2022) *Oil & Gas Operations: Location Restrictions: Notice of Intention: Health protection zone: Sensitive receptors*	SB 1137 prohibits the development of new oil and gas wells or infrastructure in health protection zones, as defined, except for purposes of public health and safety or other limited exceptions. The bill requires operators of existing oil and gas wells or infrastructure within health protection zones to undertake specified monitoring, public notice, and nuisance requirements. The bill requires CARB to consult and concur with the California Geologic Energy Management Division (CalGEM) on leak detection and repair plans for these facilities, adopt regulations as necessary to implement emission detection system standards, and collaborate with CalGEM on public access to emissions detection data.
SB 1075 (Skinner, Chapter 363, Statutes of 2022) *Hydrogen: Green Hydrogen: Emissions of Greenhouse Gases*	SB 1075 requires CARB, by June 1, 2024, to prepare an evaluation that includes: policy recommendations regarding the use of hydrogen, and specifically the use of green hydrogen, in California; a description of strategies supporting hydrogen infrastructure, including identifying policies that promote the reduction of GHGs and short-lived climate pollutants; a description of other forms of hydrogen to achieve emission reductions; an analysis of curtailed electricity; an estimate of GHG and emission reductions that could be achieved through deployment of green hydrogen through a variety of scenarios; an analysis of the potential for opportunities to integrate hydrogen production and applications with drinking water supply treatment needs; policy recommendations for regulatory and permitting processes associated with transmitting and distributing hydrogen from production sites to end uses; an analysis of the life-cycle GHG emissions from various forms of hydrogen production; and an analysis of air pollution and other environmental impacts from hydrogen distribution and end uses. This bill would inform the production of hydrogen at the scale called for in the 2022 Scoping Plan Update.
AB 1757 (Garcia, Chapter 341, Statutes of 2022) *California Global Warming Solutions Act of 2006: Climate Goal: Natural and Working Lands*	AB 1757 requires the California Natural Resources Agency (CNRA), in collaboration with CARB, other state agencies, and an expert advisory committee, to determine a range of targets for natural carbon sequestration, and for nature-based climate solutions, that reduce GHG emissions in 2030, 2038, and 2045 by January 1, 2024. These targets must support state goals to achieve carbon neutrality and foster climate adaptation and resilience. This bill also requires CARB to develop standard methods for state agencies to consistently track GHG emissions and reductions, carbon sequestration, and additional benefits from natural and working lands over time. These methods will account for GHG emissions reductions of CO_2, methane, and nitrous oxide related to natural and working lands and the potential impacts of climate change on the ability to reduce GHG emissions and sequester carbon from natural and working lands, where feasible. This 2022 Scoping Plan Update describes the next steps and implications of this legislation for the natural and working lands sector.
SB 1206 (Skinner, Chapter 884, Statutes of 2022) *Hydrofluorocarbon gases: sale or distribution*	SB 1206 mandates a stepped sales prohibition on newly produced high-global warming potential (GWP) hydrofluorocarbons (HFCs) to transition California's economy toward recycled and reclaimed HFCs for servicing existing HFC-based equipment. Additionally, SB 1206 also requires CARB to develop regulations to increase the adoption of very low-, i.e., GWP < 10,

Table (Continued)
Major Climate Legislation and Executive Orders Enacted Since the 2017 Scoping Plan

Bill/Executive Order	Summary
	and no-GWP technologies in sectors that currently rely on higher-GWP HFCs.
SB 27) (Skinner, Chapter 237, Statutes of 2021) *Carbon Sequestration: State Goals: Natural and Working Lands: Registry of Projects*	SB 27 requires CNRA, in coordination with other state agencies, to establish the Natural and Working Lands Climate Smart Strategy by July 1, 2023. This bill also requires CARB to establish specified CO_2 removal targets for 2030 and beyond as part of its Scoping Plan. Under SB 27, CNRA is to establish and maintain a registry to identify projects in the state that drive climate action on natural and working lands and are seeking funding. CNRA also must track carbon removal and GHG emission reduction benefits derived from projects funded through the registry. This bill is reflected directly in 2022 Scoping Plan Update as CO_2 removal targets for 2030 and 2045 in support of carbon neutrality.
SB 596 (Becker, Chapter 246, Statutes of 2021) *Greenhouse Gases: Cement Sector: Net- zero Emissions Strategy*	SB 596 requires CARB, by July 1, 2023, to develop a comprehensive strategy for the state's cement sector to achieve net-zero-emissions of GHGs associated with cement used within the state as soon as possible, but no later than December 31, 2045. The bill establishes an interim target of 40 percent below the 2019 average GHG intensity of cement by December 31, 2035. Under SB 596, CARB must: • Define a metric for GHG intensity and establish a baseline from which to measure GHG intensity reductions. • Evaluate the feasibility of the 2035 interim target (40 percent reduction in GHG intensity) by July 1, 2028. • Coordinate and consult with other state agencies. • Prioritize actions that leverage state and federal incentives. • Evaluate measures to support market demand and financial incentives to encourage the production and use of cement with low GHG intensity. The 2022 Scoping Plan Update modeling is designed to achieve these outcomes.
Executive Order N-82-20	Governor Newsom signed Executive Order N-82-20 in October 2020 to combat the climate and biodiversity crises by setting a statewide goal to conserve at least 30 percent of California's land and coastal waters by 2030. The Executive Order also instructed the CNRA, in consultation with other state agencies, to develop a Natural and Working Lands Climate Smart Strategy that serves as a framework to advance the state's carbon neutrality goal and build climate resilience. In addition to setting a statewide conservation goal, the Executive Order directed CARB to update the target for natural and working lands in support of carbon neutrality as part of this Scoping Plan, and to take into consideration the NWL Climate Smart Strategy. CO_2 Executive Order N-82-20 also calls on the CNRA, in consultation with other state agencies, to establish the California Biodiversity Collaborative (Collaborative). The Collaborative shall be made up of governmental partners, California Native American tribes, experts, business and community leaders, and other stakeholders from across the state. State

Table (Continued)
Major Climate Legislation and Executive Orders Enacted Since the 2017 Scoping Plan

Bill/Executive Order	Summary
	agencies will consult the Collaborative on efforts to: • Establish a baseline assessment of California's biodiversity that builds upon existing data and can be updated over time. • Analyze and project the impact of climate change and other stressors in California's biodiversity. • Inventory current biodiversity efforts across all sectors and highlight opportunities for additional action to preserve and enhance biodiversity. CNRA also is tasked with advancing efforts to conserve biodiversity through various actions, such as streamlining the state's process to approve and facilitate projects related to environmental restoration and land management. The California Department of Food and Agriculture (CDFA) is directed to advance efforts to conserve biodiversity through measures such as reinvigorating populations of pollinator insects, which restore biodiversity and improve agricultural production. The Natural and Working Lands Climate Smart Strategy informs 2022 Scoping Plan Update.
Executive Order N-79-20	Governor Newsom signed Executive Order N-79-20 in September 2020 to establish targets for the transportation sector to support the state in its goal to achieve carbon neutrality by 2045. The targets established in this Executive Order are: • 100 percent of in-state sales of new passenger cars and trucks will be zero-emission by 2035. • 100 percent of medium- and heavy-duty vehicles will be zero-emission by 2045 for all operations where feasible, and by 2035 for drayage trucks. • 100 percent of off-road vehicles and equipment will be zero-emission by 2035 where feasible. The Executive Order also tasked CARB to develop and propose regulations that require increasing volumes of zero-emission passenger vehicles, medium- and heavy-duty vehicles, drayage trucks, and off-road vehicles toward their corresponding targets of 100 percent zero-emission by 2035 or 2045, as listed above. The 2022 Scoping Plan Update modeling reflects achieving these targets.
Executive Order N-19-19	Governor Newsom signed Executive Order N-19-19 in September 2019 to direct state government to redouble its efforts to reduce GHG emissions and mitigate the impacts of climate change while building a sustainable, inclusive economy. This Executive Order instructs the Department of Finance to create a Climate Investment Framework that: • Includes a proactive strategy for the state's pension funds that reflects the increased risks to the economy and physical environment due to climate change. • Provides a timeline and criteria to shift investments to companies and industry sectors with greater growth potential based on their focus of reducing carbon emissions and adapting to the impacts of climate change. • Aligns with the fiduciary responsibilities of the California Public Employees'

Table (Continued)
Major Climate Legislation and Executive Orders Enacted Since the 2017 Scoping Plan

Bill/Executive Order	Summary
	Retirement System, California State Teachers' Retirement System, and the University of California Retirement Program. Executive Order N-19-19 directs the State Transportation Agency to leverage more than $5 billion in annual state transportation spending to help reverse the trend of increased fuel consumption and reduce GHG emissions associated with the transportation sector. It also calls on the Department of General Services to leverage its management and ownership of the state's 19 million square feet in managed buildings, 51,000 vehicles, and other physical assets and goods to minimize state government's carbon footprint. Finally, it tasks CARB with accelerating progress toward California's goal of five million ZEV sales by 2030 by: • Developing new criteria for clean vehicle incentive programs to encourage manufacturers to produce clean, affordable cars. • Proposing new strategies to increase demand in the primary and secondary markets for ZEVs. • Considering strengthening existing regulations or adopting new ones to achieve the necessary GHG reductions from within the transportation sector. The 2022 Scoping Plan Update modeling reflects efforts to accelerate ZEV deployment.
SB 576 (Umberg, Chapter 374, Statutes of 2019) *Coastal Resources: Climate Ready Program and Coastal Climate Change Adaptation, Infrastructure and Readiness Program*	Sea level rise, combined with storm-driven waves, poses a direct risk to the state's coastal resources, including public and private real property and infrastructure. Rising marine waters threaten sensitive coastal areas, habitats, the survival of threatened and endangered species, beaches, other recreation areas, and urban waterfronts. SB 576 mandates that the Ocean Protection Council develop and implement a coastal climate adaptation, infrastructure, and readiness program to improve the climate change resiliency of California's coastal communities, infrastructure, and habitat. This bill also instructs the State Coastal Conservancy to administer the Climate Ready Program, which addresses the impacts and potential impacts of climate change on resources within the conservancy's jurisdiction.
AB 65 (Petrie- Norris, Chapter 347, Statutes of 2019) *Coastal Protection: Climate Adaption: Project Prioritization: Natural Infrastructure: Local General Plans*	This bill requires the State Coastal Conservancy, when it allocates any funding appropriated pursuant to the California Drought, Water, Parks, Climate, Coastal Protection, and Outdoor Access For All Act of 2018, to prioritize projects that use natural infrastructure in coastal communities to help adapt to climate change. The bill requires the conservancy to provide information to the Office of Planning and Research on any projects funded pursuant to the above provision to be considered for inclusion into the clearinghouse for climate adaption information. The bill authorizes the conservancy to provide technical assistance to coastal communities to better assist them with their projects that use natural infrastructure.
Executive Order B-55-18	Governor Brown signed Executive Order B-55-18 in September 2018 to establish a statewide goal to achieve carbon neutrality as soon as possible, and no later than 2045, and to achieve and maintain net negative emissions thereafter. Policies and programs undertaken to achieve this goal shall: • Seek to improve air quality and support the health and economic

Table (Continued)
Major Climate Legislation and Executive Orders Enacted Since the 2017 Scoping Plan

Bill/Executive Order	Summary
	resiliency of urban and rural communities, particularly low-income and disadvantaged communities. • Be implemented in a manner that supports climate adaptation and biodiversity, including protection of the state's water supply, water quality, and native plants and animals. This Executive Order also calls for CARB to: • Develop a framework for implementation and accounting that tracks progress toward this goal. • Ensure future Scoping Plans identify and recommend measures to achieve the carbon neutrality goal. The 2022 Scoping Plan Update is designed to achieve carbon neutrality no later than 2045 and the modeling includes technology and fuel transitions to achieve that outcome.
SB 100 (De León, Chapter 312, Statutes of 2018) *California Renewables Portfolio Standard Program: emissions of greenhouse gases*	Under SB 100, the CPUC, CEC, and CARB shall use programs under existing laws to achieve 100 percent clean electricity. The statute requires these agencies to issue a joint policy report on SB 100 every four years. The first of these reports was issued in 2021. The 2022 Scoping Plan Update reflects the SB 100 Core Scenario resource mix with a few minor updates.
AB 2127 (Ting, Chapter 365, Statutes of 2018) *Electric Vehicle Charging Infrastructure: Assessment*	This bill requires the CEC, working with CARB and the CPUC, to prepare and biennially update a statewide assessment of the electric vehicle charging infrastructure needed to support the levels of electric vehicle adoption required for the state to meet its goals of putting at least 5 million zero-emission vehicles on California roads by 2030 and of reducing emissions of GHGs to 40 percent below 1990 levels by 2030. The bill requires the CEC to regularly seek data and input from stakeholders relating to electric vehicle charging infrastructure. This bill supports the deployment of ZEVs as modeled in 2022 Scoping Plan Update.
SB 30 (Lara, Chapter 614, Statutes of 2018) *Insurance: Climate Change*	This bill requires the Insurance Commissioner to convene a working group to identify, assess, and recommend risk transfer market mechanisms that, among other things, promote investment in natural infrastructure to reduce the risks of climate change related to catastrophic events, create incentives for investment in natural infrastructure to reduce risks to communities, and provide mitigation incentives for private investment in natural lands to lessen exposure and reduce climate risks to public safety, property, utilities, and infrastructure. The bill requires the policies recommended to address specified questions.
AB 2061 (Frazier, Chapter 580, Statutes of 2018) *Near-zero-emission and Zero-emission Vehicles*	Existing state and federal law sets specified limits on the total gross weight imposed on the highway by a vehicle with any group of two or more consecutive axles. Under existing federal law, the maximum gross vehicle weight of that vehicle may not exceed 82,000 pounds. AB 2061 authorizes a near-zero- emission vehicle or a zero-emission vehicle to exceed the weight limits on the power unit by up to 2,000 pounds. This bill supports the deployment of cleaner trucks as modeled in this 2022

Table (Continued)
Major Climate Legislation and Executive Orders Enacted Since the 2017 Scoping Plan

Bill/Executive Order	Summary
	Scoping Plan Update.

The 2022 Scoping Plan Scenario identifies the need to accelerate AB 32's 2030 target from 40 percent to 48 percent below 1990 levels. Cap-and-Trade regulation continues to play a large factor in the reduction of near-term emissions for meeting the 2030 reduction target. Every sector of the economy will need to begin to transition in this decade to meet our GHG reduction goals and achieve carbon neutrality no later than 2045. The 2022 Scoping Plan Update approaches decarbonization from two perspectives, managing a phasedown of existing energy sources and technologies, as well as increasing, developing, and deploying alternative clean energy sources and technology. The Scoping Plan Scenario is summarized in Table 2-1 starting on page 72 of the Scoping Plan. It includes references to relevant statutes and Executive Orders, although it is not comprehensive of all existing new authorities for directing or supporting the actions described. Table 2-1 of the Scoping Plan identifies actions related to a variety of sectors such as: smart growth and reductions in Vehicle Miles Traveled (VMT); light-duty vehicles (LDV) and zero-emission vehicles (ZEV); truck ZEVs; reduce fossil energy, emissions, and GHGs for aviation ocean-going vessels, port operations, freight and passenger rail, oil and gas extraction; petroleum refining; improvements in electricity generation; electrical appliances in new and existing residential and commercial buildings; electrification and emission reductions across industries such as for food products, construction equipment, chemicals and allied products, pulp and paper, stone/clay/glass/cement, other industrial manufacturing, and agriculture; retiring of combined heat and power facilities; low carbon fuels for transportation, business, and industry; improvements in non-combustion methane emissions, and introduction of low GWP refrigerants.

Achieving the targets described in the 2022 Scoping Plan Update will require continued commitment to and successful implementation of existing policies and programs and identification of new policy tools and technical solutions to go further, faster. California's Legislature and state agencies will continue to collaborate to achieve the state's climate, clean air, equity, and broader economic and environmental protection goals. It will be necessary to maintain and strengthen this collaborative effort, and to draw upon the assistance of the federal government, regional and local governments, tribes, communities, academic institutions, and the private sector to achieve the state's near-term and longer-term emission reduction goals and a more equitable future for all Californians. The Scoping Plan acknowledges that the path forward is not dependent on one agency, one state, or even one country. However, the State can lead by engaging Californians and demonstrating how action at the state, regional, and local levels of governments, as well as action at community and individual levels, can contribute to addressing the challenge.

Aligning local jurisdiction action with state-level priorities to tackle climate change and the outcomes called for in the 2022 Scoping Plan Update is identified as critical to achieving the statutory targets for 2030 and 2045. The 2022 Scoping Plan Update discusses the role of local governments in meeting the State's GHG reductions goals. Local governments have the primary authority to plan, zone, approve, and permit how and

where land is developed to accommodate population growth, economic growth, and the changing needs of their jurisdictions. They also make critical decisions on how and when to deploy transportation infrastructure, and can choose to support transit, walking, bicycling, and neighborhoods that do not force people into cars. Local governments also have the option to adopt building ordinances that exceed statewide building code requirements, and play a critical role in facilitating the rollout of ZEV infrastructure. As a result, local government decisions play a critical role in supporting state-level measures to contain the growth of GHG emissions associated with the transportation system and the built environment—the two largest GHG emissions sectors over which local governments have authority. The City has taken the initiative in combating climate change by developing programs and regulations such as the City's Green New Deal and Green Building Code. Each of these is discussed further below.

Thresholds

As provided in Section IV.E, Greenhouse Gas Emissions, of the Draft EIR, the City considers whether the Project is consistent with the following plans:

- AB 32's 2008 Scoping Plan and Subsequent Updates
- SCAG's 2020–2045 RTP/SCS consistent with SB 375
- City of Los Angeles' Green New Deal

The 2022 Scoping Plan Update is a subsequent update of AB 32's 2008 Scoping Plan.

Methodology

Appendix D, Local Actions, of the 2022 Scoping Plan Update includes "recommendations intended to build momentum for local government actions that align with the State's climate goals, with a focus on local GHG reduction strategies (commonly referred to as climate action planning) and approval of new land use development projects, including through environmental review under the California Environmental Quality Act (CEQA)." (Page 4 of Appendix D.)

The State encourages local governments to adopt a CEQA-qualified Climate Action Plan (CAP) addressing the three priority areas (transportation electrification, VMT reduction, and building decarbonization). However, the State recognizes that almost 50% of jurisdictions do not have an adopted CAP, among other reasons because they are costly, requiring technical expertise, staffing, funding. Additionally, CAPs need to be monitored and updated as State targets change and new data is available. Jurisdictions

that wish to take meaningful climate action (such as preparing a non-CEQA-qualified CAP or as individual measures) aligned with the State's climate goals in the absence of a CEQA-qualified CAP are advised to look to the three priority areas when developing local climate plans, measures, policies, and actions: transportation electrification, VMT reduction, and building decarbonization. "By prioritizing climate action in these three priority areas, local governments can address the largest sources of GHGs within their jurisdiction." (Page 9 of Appendix D.)

The State also recognizes in Appendix D, Local Actions, of the Scoping Plan that each community or local area has distinctive situations and local jurisdictions must balance the urgent need for housing[5] while demonstrating that a project is in alignment with the State's Climate Goals. The State calls for the climate crisis and the housing crisis to be confronted simultaneously. Jurisdictions should avoid creating targets that are impossible to meet as a basis to determine significance. Ultimately, targets that make it more difficult to achieve statewide goals by prohibiting or complicating projects that are needed to support the State's climate goals, like infill development, low-income housing or solar arrays, is not consistent with the State's goals. The State also recognizes the lead agencies' discretion to develop evidence-based approaches for determining whether a project would have a potentially significant impact on GHG emissions.

Consistency Analysis

As discussed above, jurisdictions that want to take meaningful climate action (such as preparing a non-CEQA-qualified CAP or as individual measures) aligned with the State's climate goals in the absence of a CEQA-qualified CAP should also look to the three priority areas. To assist local jurisdictions, the 2022 Scoping Plan Update presents a non-exhaustive list of impactful GHG reduction strategies that can be implemented by local governments within the three priority areas (transportation electrification, VMT reduction, and building decarbonization).[6] A detailed assessment of goals, plans, and policies implemented by the City which would support the GHG reduction strategies in the three priority areas is provided below. In addition, further details are provided regarding the correlation between these reduction strategies and applicable actions included in Table 2-1 (page 72) of the Scoping Plan (Actions for the Scoping Plan Scenario).

[5] *The State recognizes the need for 2.5 million housing units over the next eight years, with one million being affordable units. See page 20, Appendix D, 2022 Scoping Plan Update, November 2022*

[6] *Table 1 of Appendix D 2022 Scoping Plan Update, November 2022.*

Transportation Electrification

The priority GHG reduction strategies for local government climate action related to transportation electrification are discussed below and would support the Scoping Plan action to have 100 percent of all new passenger vehicles to be zero-emission by 2035 (see Table 2-1 of the Scoping Plan).

- **Convert local government fleets to zero-emission vehicles (ZEV)**

CARB approved the Advanced Clean Cars II rule which codifies Executive Order N-79-20 and requires 100 percent of new cars and light trucks sold in California be zero-emission vehicles by 2035. The State has also adopted AB 2127 which requires the CEC to analyze and examine charging needs to support California's electric vehicles (EVs) in 2030. This report would help decision-makers allocate resources to install new EV chargers where they are needed most.

The City's Green New Deal (Sustainable City pLAn 2019) identifies a number of measures to reduce VMT and associated GHG emissions. Such measures that would support the local reduction strategy include converting all City fleet vehicles to zero emission where technically feasible by 2028. Starting in 2021, all vehicle procurement was required to follow a "zero emission first" policy for City fleets. The Green New Deal also establishes a target to increase the percentage of zero emission vehicles to 25 percent by 2025, 80 percent by 2035 and 100 percent by 2050. In order to achieve this goal, the City would build 20 Fast Charging Plazas throughout the City. The City would also install 28,000 publicly available chargers by 2028 to encourage adoption of ZEVs.

The City's goals of converting the municipal fleet to zero emissions and installation of EV chargers throughout the City would be consistent with the Scoping Plan goals of transitioning to EVs. Although this measure mainly applies to City fleets, the Project would not conflict with these goals by installing EV chargers in at least 10 percent of total proposed parking spaces. Installation of additional EV chargers would encourage adoption of EVs. In addition, a PDF is included in Section III, Revisions, Clarifications, and Corrections to the Draft EIR, of this Final EIR to require the installation of additional electrical hookups (e.g., for cast, wardrobe, hair trailers) at all basecamp areas and additional EV chargers would be provided for the shuttle parking spaces. A PDF is also included to require all-electric maintenance equipment including landscaping equipment. These PDFs would serve to encourage the use of ZEVs.

- **Create a jurisdiction-specific ZEV ecosystem to support deployment of ZEVs statewide (such as building standards that exceed state building codes, permit streamlining, infrastructure siting, consumer education, preferential parking policies, and ZEV readiness plans)**

The State has adopted AB 1236 and AB 970 which requires cities to adopt streamline permitting procedures for EV charging stations. As a result, the City updated Section IX of the LAMC, which requires most new construction to designate 30 percent of new parking spaces as capable of supporting future electric vehicle supply equipment (EVSE). This would exceed the CALGreen 2022 requirements of 20 percent of new parking spaces as EV capable. The ordinance also requires new construction to install EVSE at 10 percent of total parking spaces. This requirement also exceeds the CALGreen 2022 requirements of installing EVSE for 25 percent of EV capable parking spaces which is approximately five percent of total parking spaces. The City has also implemented programs to increase the amount of EV charging on City streets, EV carshare, and incentive programs for apartments to be retrofitted with EV chargers.

The City's goals of installing EV chargers throughout the City would be consistent with the Scoping Plan goals of transitioning to EVs. In addition, the Project would comply with Ordinance No. 186485 by installing EV chargers in at least 10 percent of total proposed parking spaces which would exceed the CALGreen 2022 requirement. As discussed above, a PDF is included in Section III, Revisions, Clarifications, and Corrections to the Draft EIR, of this Final EIR to require the installation of additional electrical hookups (e.g., for cast, wardrobe, hair trailers) at all basecamp areas and additional EV chargers would be provided for the shuttle parking spaces. A PDF is also included to require all-electric maintenance equipment including landscaping equipment. These PDFs would serve to encourage the use of ZEVs.

VMT Reduction

The priority GHG reduction strategies for local government climate action related to VMT reduction are discussed below and would support the Scoping Plan action to reduce VMT per capita 25 percent below 2019 levels by 2030 and 30 percent below 2019 levels by 2045.

- **Reduce or eliminate minimum parking standards in new developments**
- **Implement parking pricing or transportation demand management pricing strategies**

In August 2015, the City Council adopted the Mobility Plan 2035 (Mobility Plan), which serves as the City's General Plan circulation element. The City Council has adopted several amendments to the Mobility Plan since its initial adoption, including the most recent

amendment on September 7, 2016.[7] The Mobility Plan incorporates "complete streets" principles and lays the policy foundation for how the City's residents interact with their streets. While the Mobility Plan 2035 mainly relates to transportation, certain components would serve to reduce VMT and mobile source GHG emissions. One component of the Mobility Plan is a GHG emission tracking program to establish compliance with SB 375, AB 32 and the regions Sustainable Community Strategy.

The Mobility Plan contains measures and programs related to VMT reduction throughout the City. With regard to parking standards, Mobility Plan Program No. PK.13 would reduce parking requirements for developments near transit (within half a mile) while Program No. PK.3 would allow for individualized parking requirements where businesses can identify parking demand and can reduce on-site parking with TDM strategies. These reduction strategies would serve to reduce minimum parking standards in order to reduce vehicle trips. As part of the Project, the TDM program would not eliminate minimum parking standards, but the reduction in parking requirements would serve to reduce VMT.

The Project would implement a transportation demand management (TDM) plan pursuant to Project Design Feature TR-PDF-2 that will include an educational program/on-site coordinator, bicycle parking and amenities, pedestrian amenities, shuttle service to the planned Metro D (Purple) Line Wilshire/Fairfax station, a ride-share matching and carpool/vanpool program, first-mile/last-mile options, a Guaranteed Ride Home Program, and incentives for alternative travel modes. These TDM measures implemented by the Project would not conflict with this reduction strategy to reduce parking standards.

- **Implement Complete Streets policies and investments, consistent with general plan circulation element requirements**

The Mobility Plan established a "Complete Streets" planning framework which resulted in the City of Los Angeles Complete Streets Design Guide in 2015 consistent with California's Complete Streets Act of 2008. A supplemental update to the Complete Streets Design Guide was adopted in 2020.

The Complete Streets Design Guide provides a number of measures to increase public access to electric shuttles, car sharing and walking. The Design Guide establishes guidelines for establishing on-street parking for car sharing. In 2015, the City established BlueLA which is a car sharing network. Phase I, completed in 2018, consists of more than 100 electric vehicles with 40 designated on-street stations (200 individual charge points).

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[7] *Los Angeles Department of City Planning, Mobility Plan 2035: An Element of the General Plan, approved by City Planning Commission on June 23, 2016, and adopted by City Council on September 7, 2016.*

Phase II of the program expands the program to 300 cars and 100 stations by 2024. The program is committed to servicing disadvantaged communities and people of color in Los Angeles to offer an affordable, zero-emission mode of transportation. In addition, under the Green New Deal, the City would install 28,000 publicly available chargers by 2028 and introduce 135 new electric DASH buses.

This reduction strategy mainly applies to City traffic circulation. However, the Project's TDM plan prepared pursuant to Project Design Feature TR-PDF-2 would include pedestrian network improvements such as landscape improvements, exclusive access points, and upgraded pedestrian facilities and bus stops; and Mobility Hub to encourage alternative modes of transportation. The Project would comply with all applicable design element requirements, which may affect public rights-of-way, including proper driveway alignment, sidewalk widths, improved lighting elements, and landscape design, to promote safety, mobility, and accessibility. The Project's sidewalk and crosswalk improvements would facilitate pedestrian and bicycle accessibility and improve the safety and mobility of all users. The Project Applicant would also contribute toward the funding of pedestrian facilities and safety improvements within the Study Area, including a pedestrian hybrid beacon at Stanley Avenue and Melrose Avenue. Therefore, the Project would not conflict with implementation of Complete Streets policies.

- **Increase access to public transit by increasing density of development near transit, improving transit service by increasing service frequency, creating bus priority lanes, reducing or eliminating fares, microtransit, etc.**

- **Increase public access to clean mobility options by planning for and investing in electric shuttles, bike share, car share, and walking**

- **Amend zoning or development codes to enable mixed-use, walkable, transit-oriented, and compact infill development (such as increasing the allowable density of a neighborhood)**

- **Preserve natural and working lands by implementing land use policies that guide development toward infill areas and do not convert "greenfield" land to urban uses (e.g., green belts, strategic conservation easements).**

These reduction strategies are supported through implementation of SB 375 which requires integration of planning processes for transportation, land-use and housing and generally encourages jobs/housing proximity, promote transit-oriented development (TOD), and encourages high-density residential/commercial development along transit corridors. To implement SB 375 and reduce GHG emissions by correlating land use and transportation planning, SCAG adopted the 2020–2045 RTP/SCS, also referred to as Connect SoCal. The 2020–2045 RTP/SCS' "Core Vision" prioritizes the maintenance and management of the region's transportation network, expanding mobility choices by

co-locating housing, jobs, and transit, and increasing investment in transit and complete streets. Section IV.E., Greenhouse Gas Emissions, of the Draft EIR provided a consistency analysis with SCAG's 2020-2045 RTP/SCS.

On a local level, the City has developed the Complete Streets Design Guide which provides a number of reduction strategies to increase public access to electric shuttles, car sharing and walking. The Mobility Plan continues to build out networks for pedestrians, bicyclists, and transit users, has implemented an EV car sharing network, and is working towards increasing publicly available chargers, and introducing new electric DASH buses.

As discussed above, the Project's TDM program, Project Design Feature TR-PDF-2 includes a Mobility Hub which will provide employees and visitors with information regarding transit, commute programs, and non-vehicular travel planning. Moreover, Project Design Feature TR-PDF-2 would include pedestrian network improvements and bike parking to encourage alternative modes of transportation. The Project will also provide a shuttle service to the Metro D Line Wilshire/Fairfax Station and a carpool program which will provide interested employees with ride-matching services. The Project will also provide transit infrastructure improvements by upgrading existing bus stops along Fairfax Avenue and Beverly Boulevard. While these reduction strategies mainly apply to traffic circulation infrastructure within the City, the Project would support these reduction strategies.

Building Decarbonization

The priority GHG reduction strategies for local government climate action related to electrification are discussed below and would support the Scoping Plan actions regarding meeting increased demand for electrification without new fossil gas-fire resources and all electric appliances beginning in 2026 (residential) and 2029 (commercial) (see Table 2-1 of the Scoping Plan).

- **Adopt all-electric new construction reach codes for residential and commercial uses**

California's transition away from fossil fuel–based energy sources will bring the project's GHG emissions associated with building energy use down to zero as our electric supply becomes 100 percent carbon free. California has committed to achieving this goal by 2045 through SB 100, the 100 Percent Clean Energy Act of 2018. SB 100 strengthened the State's Renewables Portfolio Standard (RPS) by requiring that 60 percent of all electricity provided to retail users in California come from renewable sources by 2030 and that 100 percent come from carbon-free sources by 2045. The land use sector will benefit from RPS because the electricity used in buildings will be increasingly carbon-free, but implementation does not depend (directly, at least) on how buildings are designed and built.

The City has updated the LAMC with requirements for all new buildings, with some exceptions, to be all-electric, which will reduce GHG emissions related to natural gas combustion.[8] Space heating, water heating and cooking for non-restaurant uses would be required to be powered by electricity. In future years, the LADWP will be required to increase the amount of renewable energy in the power mix to comply with SB 100 requirements. The combination of the all-electric LAMC regulations and increasing availability of renewable energy will serve to reduce GHG emissions from sources traditionally powered by natural gas.

The Project would be required to comply with the City's LAMC and, thus, would not include natural gas uses, with limited exceptions. Therefore, the Project would be consistent and not conflict with the City's LAMC.

- **Adopt policies and incentive programs to implement energy efficiency retrofits for existing buildings, such as weatherization, lighting upgrades, and replacing energy-intensive appliances and equipment with more efficient systems (such as Energy Star-rated equipment and equipment controllers)**

This reduction strategy would support the Scoping Plan action regarding electrification of appliances in existing residential buildings (see Table 2-1 of the Scoping Plan). The City and Los Angeles Department of Water and Power (LADWP) has established rebate programs to promote use of energy-efficient products and home upgrades. Under LADWP's Consumer Rebate Program (CRP), residential customers would receive rebates for energy-efficient upgrades such as Cool Roofs, Energy Star Windows, HVAC upgrades, pool pumps and insulation upgrades. Such upgrades would serve to reduce wasteful energy and water usage and associated GHG emissions.

The Project would involve the retrofit of some existing buildings and completely new construction. Existing buildings will receive upgrades to the existing HVAC system and insulation. The Project will also replace existing equipment with Energy-star rated equipment. The Project would also implement Project Design Feature GHG-PDF-1 which would design new buildings will incorporate features of the U.S. Green Building Council's Leadership in Energy and Environmental Design (LEED) program to be capable of meeting the standards of LEED Gold under LEED v4 or equivalent green building standards. This includes incorporation of energy-saving technologies such as LEDs and energy efficient HVAC, Energy-Star labelled appliances, and a reduction in indoor and outdoor water use.

[8] *Ordinance 187714 was passed by the City on December 7, 2022 and went into effect of January 23, 2023 after the publication of the EIR.*

Appendix C



TVC 2050 Project Energy Appendix

TVC 2050 Project

Final EIR

Appendix C-Energy

- Appendix C-1-Summary of Energy Use
- Appendix C-2-Construction
- Appendix C-3-Operations
- Appendix C-4-Peer Review of EIR Energy Consumption Analysis Memo
- Appendix C-5-Updated LADWP service letter
- Appendix C-6-Methane Mitigation System Memo

TVC 2050 Project

Final EIR

Appendix C-1-Summary of Energy Use

- 2026 Buildout
  - Conceptual Plan (Proposed Development Program)
  - Max Equivalency Scenario (Maximum Land Use Exchange Scenario)

TVC 2050 - Summary of Energy Use 2026 Buildout Conceptual Plan (Proposed Development Program)

Summary of Energy Use During Construction

Electricty		
Water Consumption	53,610	kWh
Temporary Power (lighting, tools)	61,236	kWh
Electric Equipment	12,541	kWh
Dewatering	116,809	kWh
Total:	**244,196**	kWh
Gasoline		
On Road	424,663	Gallons
Off Road	0	Gallons
Total:	**424,663**	Gallons
Diesel		
On Road	864,685	Gallons
Off Road	133,001	Gallons
Total:	**997,686**	Gallons
Combined Gasoline and Diesel:	**1,422,349**	Gallons

Summary of Energy Use During Operations

	Baseline (Buildout)	Buildout Without Project Features/MXD	Buildout With Project Features/MXD and TDM		Percent Reduction due to Project Features	Project Without Project Features - Baseline (Buildout)	Project (Buildout - Baseline (Buildout)
Electricity							
Electricity (building)	9,902,236	34,499,457	34,499,457	kWh/year	0%	24,597,221	24,597,221
Electricity (water)	704,888	2,322,780	2,322,780	kWh/year	0%	1,617,892	1,617,892
EV Chargers	30,248	1,283,306	1,283,306	kWh/year		1,253,058	1,253,058
Basecamp and Mobility Hub Lighting and Ventilation	0	1,174,049	1,174,049			1,174,049	1,174,049
Basecamp Electrical Connections and Mobility Hub EV Chargers	0	873,949	873,949			873,949	873,949
Signage	37,609	519,026	519,026			481,417	481,417
Methane Gas Extraction Ventilation	0	3,027	3,027			3,027	3,027
Solar	-1,617,000	0	-2,000,000			1,617,000	(383,000)
Electricity Total	**9,057,981**	**40,675,594**	**38,675,594**	**kWh/year**	**-5%**	**31,617,613**	**29,617,613**
Conversion of Natural Gas To Electricity	0	11,606,918	11,606,918	kWh/year		11,606,918	11,606,918
Electricity Total with Natural Gas Conversion	**9,057,981**	**52,282,512**	**50,282,512**	kWh/year		**43,224,531**	**41,224,531**
Natural Gas							
Natural Gas (building)	10,005,580	36,220,374	36,220,374			**26,214,794**	**26,214,794**
Natural Gas Total	**10,005,580**	**36,220,374**	**36,220,374**	**cu ft/year**	**0%**	**26,214,794**	**26,214,794**
Fuel							
Gasoline (Mobile)	296,712	1,338,052	843,181	Gallons/year	-37%	1,041,340	546,470
Diesel (Mobile)	49,234	222,026	139,911	Gallons/year	-37%	172,792	90,677
Stationary (Generators) Diesel	3,463	3,377	3,377	Gallons/year		(87)	(87)
Total Diesel	52,697	225,402	143,287	Gallons/year		172,705	90,590
Fuel Total	**349,409**	**1,563,454**	**986,468**	**Gallons/year**	**-37%**	**1,214,045**	**637,060**

Note: Values presented in the tables above are a summary of calculations contained in subsequent worksheets

TVC 2050 - Summary of Energy Use 2026 Buildout Max Equivalency Scenario (Maximum Land Use Exchange Scenario)

Summary of Energy Use During Construction

Electricty		
Water Consumption	53,610	kWh
Temporary Power (lighting, tools)	61,236	kWh
Electric Equipment	12,541	kWh
Dewatering	116,809	kWh
Total:	**244,196**	kWh
Gasoline		
On Road	424,663	Gallons
Off Road	0	Gallons
Total:	**424,663**	Gallons
Diesel		
On Road	864,685	Gallons
Off Road	133,001	Gallons
Total:	**997,686**	Gallons
Combined Gasoline and Diesel:	**1,422,349**	Gallons

Summary of Maximum Demand Scenario During Operations

	Baseline (Buildout)	Buildout Without Project Features/MXD	Buildout With Project Features/MXD and TDM		Percent Reduction due to Project Features	Project Without Project Features - Baseline (Buildout)	Project (Buildout - Baseline (Buildout)
Electricity							
Electricity (building)	9,902,236	34,637,803	34,637,803	kWh/year	0%	24,735,568	24,735,568
Electricity (water)	704,888	2,430,285	2,430,285	kWh/year	0%	1,725,397	1,725,397
EV Chargers	30,248	1,283,306	1,283,306	kWh/year		1,253,058	1,253,058
Basecamp and Mobility Hub Lighting and Ventilation	0	1,174,049	1,174,049				
Basecamp Electrical Connections and Mobility Hub EV Chargers	0	1,108,067	1,108,067				
Signage	37,609	519,026	519,026				
Methane Gas Extraction Ventilation	0	3,027	3,027				
Solar	-1,617,000	0	-2,000,000			1,617,000	(383,000)
Electricity Total	**9,057,981**	**41,155,563**	**39,155,563**	**kWh/year**	**-5%**	**32,097,582**	**30,097,582**
Conversion of Natural Gas To Electricity	0	11,799,118	11,799,118	kWh/year		11,799,118	11,799,118
Electricity Total with Natural Gas Conversion	**9,057,981**	**52,954,681**	**50,954,681**	kWh/year		**43,896,700**	**41,896,700**
Natural Gas	0						
Natural Gas (building)	10,005,580	37,737,146	37,737,146			**27,731,565**	**27,731,565**
Natural Gas Total	**10,005,580**	**37,737,146**	**37,737,146**	**cu ft/year**	**0%**	**27,731,565**	**27,731,565**
Fuel	0						
Gasoline (Mobile)	296,712	1,025,872	851,537	Gallons/year	-17%	729,160	554,826
Diesel (Mobile)	49,234	170,225	141,297	Gallons/year	-17%	120,991	92,063
Stationary (Generators) Diesel	3,463	3,377	3,377	Gallons/year		(87)	(87)
Total Diesel	52,697	173,601	144,674	Gallons/year		120,904	91,976
Fuel Total	**349,409**	**1,199,473**	**996,211**	**Gallons/year**	**-17%**	**850,064**	**646,803**

Note: This scenario assumes 100,000 sf of production support would be converted to sound stages.

Values presented in the tables above are a summary of calculations contained in subsequent worksheets

TVC 2050 Project

Final EIR

Appendix C-2-Construction

- Dewatering
- On-Site Power
- Off-Road Equipment
- On-Road Fuel Usage Rates
- On-Road Vehicles
- Construction Water Usage

TVC 2050 - Construction Dewatering

Dewatering Electricity Calculations

Number of Pumps[a]	28
Horsepower Rating	0.5
Load Factor[b]	0.74
Months	21
Hours per Day	24
Total Hours[c]	15,120
Total Horsepower Hour	156,643
Conversion from horsepower to kW (kW/hp)[d]	0.745701
Total Energy Usage (kWh)	116,809

CO2 Intensity (lb/MWh)	609	CO_2	0.029	CH_4	0.006	N_2O
Global Warming Potential	1	CO_2	25	CH_4	298	N_2O
CO2e	32	mtons/yr				

[a] Based on 26 dewatering pumps + 2 granular activated carbon equipment pumps. CalEEMod modeling output files (page 31) provided in Appendix B, Air Quality and Greenhouse Gas Emissions, of the Draft EIR showed that the excavation phase included four pumps, the mat foundation phase included six pumps, and the structure/enclosure phase included two pumps, which could be used for dewatering. Consistent with Mitigation Measure AIR-MM-1, the Project will use dedicated electric dewatering pumps instead of diesel pumps. Thus, the electricity consumption and related GHG emissions are included in this Confirmatory Analysis. Please refer to Appendix FEIR-13 of the Final EIR for additional information regarding the number and size of dewatering pumps.

[b] CalEEMod 2022.1 default load factor for pumps

[c] 30 days per month

[d] CalEEMod 2022.1 Users Guide, Appendix C

TVC 2050 - Construction On-Site Power

Caterpillar 40-C4.4 Generator[a]

Peak Power Rating - Prime (kW)	36
Typical Load	70%
Average Output (kW)	25.2
Hours per Day	2
Number of Unts	3
Average Daily Output (kWh)	151.2
Building Construction Phase Duration (days)	405
Total Construction (kWh)	61,236
Total Construction (MWh)	61.2

[a]https://www.albancat.com/content/uploads/2014/06/40-C4.4-Spec-Sheet.pdf

TVC 2050 - Construction Off-Road Equipment

Phase Name	Off Road Equipment Type	Units	Hours	HP	Load Factor	Avg. Daily Factor	Number of Days	Diesel Fuel Usage	
Wells	Bore/Drill Rigs	2	8	367	0.4	0.6	10	705	
Wells	Excavators	1	8	158	0.38	0.6	10	144	
Wells	Tractors/Loaders/Backhoes	1	8	84	0.37	0.6	10	75	
Wells	Rubber Tired Loaders	1	8	150	0.36	0.6	10	130	
Demolition	Rubber Tired Dozers	2	8	367	0.4	0.6	65	4,580	
Demolition	Excavators	4	8	158	0.38	0.6	65	3,746	
Demolition	Concrete/Industrial Saws	2	8	49	0.73	0.6	65	1,116	
Demolition	Other Construction Equipment	1	8	99	0.42	0.6	65	649	
Grading/Foundation	Excavators	3	8	158	0.38	0.6	185	7,997	
Grading/Foundation	Tractors/Loaders/Backhoes	3	8	97	0.37	0.6	185	4,781	
Grading/Foundation	Rubber Tired Dozers	3	8	367	0.4	0.6	185	19,554	
Grading/Foundation	Bore/Drill Rigs	6	8	221	0.5	0.6	185	29,437	
Grading/Foundation	Pumps	4	8	49	0.74	0.6	185	6,440	
Grading/Foundation	Cranes	2	8	367	0.29	0.6	185	9,451	
Grading/Foundation	Welders	2	8	46	0.45	0.6	185	1,838	
Grading/Foundation	Other Construction Equipment	2	8	99	0.42	0.6	185	3,692	
Grading/Foundation	Rubber Tired Loaders	2	8	150	0.36	0.6	185	4,795	
Mat Foundation	Pumps	6	8	49	0.74	0.6	5	261	
Mat Foundation	Plate Compactors	6	8	8	0.43	0.6	5	25	
Building Construction	Forklifts	2	8	89	0.2	0.6	235	2,008	
Building Construction	Welders	2	8	46	0.45	0.6	235	2,335	
Building Construction	Tractors/Loaders/Backhoes	1	8	97	0.37	0.6	235	2,024	
Building Construction	Pumps	2	8	49	0.74	0.6	235	4,090	
Building Construction	Other Construction Equipment	4	8	99	0.42	0.6	235	9,380	
Paving/Landscape	Paving Equipment	1	8	99	0.36	0.6	21	180	
Paving/Landscape	Rollers	1	8	49.9	0.38	0.6	21	96	
Paving/Landscape	Skid Steer Loaders	2	8	71	0.37	0.6	21	265	
Paving/Landscape	Trenchers	1	8	49.9	0.5	0.6	21	126	
Finishing/Architectural Coating	Air Compressors	6	8	49.9	0.48	0.6	304	10,485	
Finishing/Architectural Coating	Forklifts	2	8	89	0.2	0.6	304	2,597	
						Total Diesel Usage for Construction (Offroad Equipment):		**133,001.3**	**gallons of diesel fuel**

gallons of diesel fuel per horsepower-hour=	0.05

Notes: Equipment assumptions are provide in the CalEEMod output files (Appendix A-3, p. 110) and fuel usage estimate of 0.05 gallons of diesel fuel per horsepower-hour is from the South Coast Air Quality Management District CEQA Air Quality Handbook, Table A9-3E. April 1993.

TVC 2050 - Construction On-Road Fuel Usage Rates

EMFAC2021 Emissions Inventory
Region Type: County
Region: Los Angeles
Calendar Year: 2023
Season: Annual
Vehicle Classification: EMFAC2011 Categories

Region	Veh_Class	Fuel	Speed (miles/hr)	Population (vehicles)	VMT (miles/day)	Trips (trips/day)	Fuel_Gas (1000 gallons/day)	Fuel_DSL (1000 gallons/day)	Miles per Gallon
South Coast	LDA	Gasoline	Aggregate	3,441,157	137,073,184	16,009,115	4,845	0	28.3
South Coast	LDT1	Gasoline	Aggregate	323,318	11,785,010	1,422,834	498	0	23.7
South Coast	LDT2	Gasoline	Aggregate	1,558,893	64,432,894	7,331,380	2,817	0	22.9
						Construction Worker Trip (Composite LDA/LDT1/LDT2):			**25.8**
South Coast	HHDT	Diesel	Aggregate	51,746	6,735,516	804,221	0	1127.8	**6.0**

Notes: Consistent with CalEEMod, a construction worker trip is assumed to be a composite of 50% LDA , 25% for LDT1, and 25% for LDT2. Used EMFAC 2011 Categories for construction as EMFAC2011 has specific categories for vehicle class T7.

TVC 2050 - Construction On-Road Vehicles

Phase Name	Daily Worker Trips	Daily Vendor Trips	Daily Haul Trips	Days	Total Worker Trips	Total Vendor Trips	Total Haul Trips	Trip Length (miles)			Total Length (miles)			Avg. Daily Factor (worker and vendor)	Gallons of Fuel	
								Worker	Vendor	Haul	Worker	Vendor	Haul		Gasoline	Diesel
Dewatering Installation[a]	20	0		10	200	0	0	18.5	32	20	3700	0	0	0.6	86.1	0.0
Demolition[b]	100	0	80	65	6500	0	5200	18.5	32	32	120250	0	166400	0.6	2,798.5	27,862.1
Excavation/Foundations	490	40	600	185	90650	7400	111000	18.5	32	41	1677025	236800	4551000	0.6	39,028.0	785,811.6
Mat Foundation	100	1000		5	500	5000	0	18.5	10.2	20	9250	51000	0	0.6	215.3	5,123.7
Structure/Enclosure	1350	100		235	317250	23500	0	18.5	10.2	20	5869125	239700	0	0.6	136,587.3	24,081.3
Architectural Coating/Finishing	1940	70		304	589760	21280	0	18.5	10.2	20	10910560	217056	0	0.6	253,912.5	21,806.4
Paving/Landscape	0	0		21	0	0	0	18.5	10.2	20	0	0	0	0.6	0.0	0.0
														Total:	**432,627.8**	**864,685.1**

Worker Miles per gallon=	25.78	gasoline
Vedor/Haul miles per gallon=	5.97	diesel

Notes: Consistent with CalEEMod worker vehicles are assumed to be gasoline and 50% LDA, 25%LDT1, and 25% LDT2. Vendor and haul trips are assumed to be 100% diesel Heavy Duty Trucks (T7)

[a] This phase represents installation of dewatering wells and pumps prior to demolition activities.

[b] Dewatering pumping activities would be occuring during demolition. Worker trips for maintenance of the dewatering pumping system is conservatively included in the demolition phase.

TVC 2050 - Construction Water Usage

Phase	Days	Average Daily Acreage Distrubed	Gallons Per Year	Electricity (kWhr)
Dewatering Installation	10	1.0	30,200	294
Demolition	65	5.0	981,500	9,547
Excavation/Foundations	185	5.0	2,793,500	27,172
Mat Foundation	5	1.0	15,100	147
Structure/Enclosure	235	1.0	709,700	6,903
Architectural Coating/Finishing	304	1.0	918,080	8,930
Paving/Landscape	21	1.0	63,420	617
		Total:	**5,511,500**	**53,610**

Water application rate=	3020	gal/acre/day
kWhr equivalent=	0.01	kWhr

Notes: 1) Gallons per year of water usage for dust control is calculated based on a minimum control efficiency of 66% (three times daily) with an application rate of 3,020 gal/acre/day (Air & Waste Management Association Air Pollution Engineering Manual (1992 Edition)) and average of 26 construction days per month.
2) CalEEMod Default: Each gallon of delivered potable water in Southern California is associated with 0.009727 kWhr of electricity.
3) Dewatering pumping activities will occur during the Demolition Phase

TVC 2050 Project

Final EIR

Appendix C-3-Operations

- Utilities (Include Existing Utility Bills, MBS Utility Bills)
- Electric vehicle charging and solar panel calcs
- CAPCOA Conversion from Natural Gas
    - Conceptual Plan (Proposed Development Program)
    - Max Equivalency Scenario (Maximum Land Use Exchange Scenario)
- Miscellaneous
    - Parking Garage Ventilation Factor
    - Methane Gas Extraction Ventilation
    - Basecamp and Mobility Hub Lighting and Ventilation
    - Signage

Utilities (Include Existing Utility Bills, MBS Utility Bills)

Summary of Electricity Usage and Total Billed

Facility Name: **Television City Productions, LLC**

Facility Type: **Entertainment**

Electricity (total kWh)	2018	2019	2020	2021
CBS Broadcasting Service Point 6984500985	3,972,437	3,890,083	4,031,241	4,005,461
CBS Broadcasting Service Point 6984500986	13,463,615	15,424,205	11,545,878	13,188,091
	17,436,052	**19,314,288**	**15,577,119**	**17,193,552**

Utilities (Include Existing Utility Bills, MBS Utility Bills)

Los Angeles Department of Water and Power
CMR140 Electric Consumption Cost Detail-Multiple Year Report
Parameter: From Dt:11/10/17 To Dt: 11/10/22

Service Address: 7800 BEVERLY BLVD LOS ANGELES CA 90036
Account #: 6984500000 SA Id:6984500445
Rate Schedule: BILLCHRG

Service Account Name: CBS BROADCASTING INC.
SA Type: E-BCGCOM
Service Point:6984500985

Date	Bill Days	Power Factor %	Total kWh Consumption	Total Electric Cost($)	Billing kW	Base kWh	Base kW	Base KVARH	Base Cost($)	Low Peak kWh	Low Peak kW	Low Peak KVARH	Low Peak Cost($)	High Peak kWh	High Peak kW
1/10/2018	34		210,194	49,735.48	2,057.30	116,376	708.2	318,326	13,772.12	52,305	676.3	82,841	7,359.12	41,513	681.8
2/7/2018	29		368,609	68,327.94	2,057.30	222,199	0	252,080	24,458.42	86,178	0	71,014	11,159.09	60,232	658.6
3/9/2018	31		168,751	44,342.12	2,057.30	82,467	566.9	271,403	10,005.61	49,492	561.4	79,464	7,056.61	36,792	636.7
4/9/2018	32		286,252	58,663.81	2,057.30	183,025	660.7	293,296	20,722.65	63,488	613.8	76,322	8,679.23	39,739	648.7
5/8/2018	30		341,256	66,279.47	2,057.30	216,447	0	292,447	24,627.71	77,898	0	81,420	10,578.13	46,911	650.2
6/7/2018	31		229,342	52,123.91	2,057.30	140,861	0	289,744	16,267.01	58,440	706.9	79,636	8,697.71	30,041	422.8
7/9/2018	33		264,805	59,307.08	2,057.30	182,552	642.8	330,101	20,329.15	54,798	766.5	83,730	9,993.10	27,455	502.9
8/7/2018	30		465,256	92,896.21	2,057.30	289,683	864.6	336,920	32,271.10	106,565	924.9	94,716	17,379.16	69,008	880.2
9/6/2018	31		510,036	100,878.33	2,259.80	322,169	0	316,783	35,726.17	114,830	917.2	89,213	18,645.68	73,037	803.1
10/5/2018	30		487,308	95,057.08	2,259.80	322,811	0	270,001	35,933.08	100,944	647	76,810	15,913.77	63,553	477.4
11/6/2018	33		430,574	84,980.62	2,259.80	280,500	791.8	304,747	32,882.06	90,308	920.6	79,457	12,393.50	59,766	910.2
12/7/2018	32		210,054	54,353.54	2,258.90	117,258	678.2	276,618	14,340.52	54,873	703.5	82,469	8,092.92	37,923	620.5
			3,972,437												
1/10/2019	35		305,598	69,229.54	2,259.80	188,370	0	342,657	23,141.30	71,100	0	92,126	10,342.84	46,128	819.6
2/8/2019	30		364,362	76,574.50	2,259.80	219,049	0	281,771	26,116.03	84,563	0	78,739	11,863.00	60,750	830.7
3/11/2019	32		164,505	46,991.25	2,259.80	93,618	440.7	246,096	11,713.53	41,293	438.7	64,206	6,274.44	29,594	400
4/9/2019	30		405,987	82,603.77	2,259.80	255,200	0	221,327	30,678.96	90,662	0	64,997	12,662.59	60,125	831.3
5/8/2019	30		194,164	50,681.04	2,259.80	119,476	0	207,263	15,179.16	45,450	0	57,824	6,934.25	29,238	166.4
6/7/2019	31		81,726	34,801.09	2,259.80	36,736	296.5	208,592	5,159.78	26,591	157.1	60,226	4,470.93	18,399	162.3
7/9/2019	33		204,368	56,973.25	2,259.80	119,468	311.4	227,150	14,669.66	52,353	559.8	61,288	9,516.94	32,547	501.7
8/7/2019	30		476,940	101,195.56	2,259.80	296,196	0	227,394	35,402.79	108,444	985.6	65,721	18,364.92	72,300	848.1
9/6/2019	31		288,670	70,707.78	2,150.40	178,341	684.3	270,960	22,072.36	66,283	739.4	77,119	12,102.60	44,046	534.1
10/7/2019	32		296,104	71,470.80	2,150.40	180,433	0	283,932	22,480.00	70,038	647.9	71,255	12,053.45	45,633	635.1
11/6/2019	31		487,855	91,576.50	1,620.50	298,529	756	218,753	36,983.32	110,502	753.4	64,934	15,679.52	78,824	736.4
12/9/2019	34		619,804	111,592.79	1,620.50	393,495	0	221,379	48,327.37	131,617	0	61,818	18,396.92	94,692	1,055.70
			3,890,083												
1/10/2020	33		183,438	47,227.33	1,620.50	94,770	665.7	217,779	12,241.40	49,457	616.9	63,033	7,517.10	39,211	643.9
2/10/2020	32		197,099	46,684.76	1,551.40	99,239	297.9	231,969	12,305.64	56,352	411	60,908	8,301.82	41,508	389.6
3/11/2020	31		397,928	78,290.25	1,551.40	217,265	725.8	217,460	26,982.56	105,633	793.8	66,963	14,980.87	75,030	803.2
4/9/2020	30		177,674	41,860.84	1,551.40	117,897	0	183,722	14,603.61	37,403	0	50,154	5,487.89	22,374	149.2
5/8/2020	30		312,758	63,357.81	1,551.40	194,286	499.1	219,852	23,797.30	71,242	477.9	64,701	10,122.97	47,230	529.9
6/9/2020	33		116,890	37,200.39	1,551.40	62,037	497.5	314,953	8,623.29	31,806	366.3	83,600	5,572.86	23,047	415.2
7/9/2020	31		229,929	57,933.89	1,551.40	127,294	365.8	326,519	16,111.91	56,447	682.7	93,697	10,614.62	46,188	679.4
8/7/2020	30		386,049	83,417.83	1,551.40	226,748	0	326,843	27,731.12	92,198	846.1	93,381	16,112.30	67,103	832.5
9/8/2020	33		634,544	123,663.55	1,846.10	417,450	0	319,075	49,893.37	130,645	118.2	83,352	22,064.29	86,449	1,062.10
10/7/2020	30		628,009	124,190.03	1,873.90	398,334	0	280,568	47,911.33	136,213	1,397.20	80,125	22,636.44	93,462	1,384.60
11/6/2020	31		170,177	49,817.98	1,873.90	80,092	840.3	214,279	10,242.68	50,236	969.8	64,159	7,756.00	39,849	946.6
12/9/2020	34		596,746	114,940.18	1,885.40	361,428	1,174.20	254,080	45,213.68	137,241	1,279.00	74,509	19,613.77	98,077	1,236.30
			4,031,241												
1/11/2021	34		454,753	92,240.65	1,885.40	289,556	940.9	172,698	36,105.22	96,226	951.8	48,301	13,715.65	68,971	1,155.70
2/10/2021	31		376,002	79,176.75	1,885.40	230,276	880	15,981	28,660.62	86,654	893.3	45,805	12,326.95	59,072	908.7
3/11/2021	30		363,781	76,561.97	1,885.40	218,118	547	148,020	27,109.25	87,445	775.3	42,437	12,420.96	58,218	737.3
4/9/2021	30		284,945	65,324.83	1,885.40	160,964	839.1	163,834	20,058.71	75,153	896.4	49,160	10,695.55	48,828	856.1
5/10/2021	32		453,629	90,474.90	1,885.40	295,522	1,054.60	202,018	36,191.42	95,162	1,103.70	49,499	13,343.00	62,945	1,084.10
6/9/2021	31	75.95%	259,563	60,876.76	1,885.40	158,955	558.1	167,000	19,466.96	61,361	606.6	48,792	9,347.74	39,247	586.4
7/9/2021	31	76.02%	341,001	79,115.08	1,885.40	207,734	846.7	216,490	24,751.51	81,102	924.8	66,094	14,488.46	52,165	943.9
8/9/2021	32	83.57%	431,261	94,452.70	1,885.40	266,490	759.7	214,450	31,998.08	99,418	900.6	61,876	17,030.20	65,353	895.7
9/8/2021	31	65.32%	179,504	53,727.14	1,885.40	83,610	531.8	212,544	10,055.91	54,879	442.5	67,504	9,910.16	41,015	441.8
10/7/2021	30	71.56%	280,343	72,077.01	1,885.40	142,812	629.5	255,124	17,705.79	80,076	836.6	79,935	13,947.26	57,455	858.3
11/6/2021	31	76.41%	353,352	81,675.80	1,885.40	197,904	944.8	254,430	25,944.02	92,019	1,177.10	76,790	13,805.11	63,429	1,098.50
12/9/2021	34		227,327	57,617.23	1,493.80	98,852	767.8	263,085	13,202.45	72,763	949.3	77,142	11,045.26	55,712	986.6
			4,005,461												

Service Address: 7800 BEVERLY BLVD LOS ANGELES CA 90036
Account #: 7984500000 SA Id:7984500148
Rate Schedule: BILLCHRG

Service Account Name: CBS BROADCASTING INC.
SA Type: E-BCGCOM
Service Point:6984500986

Date	Bill Days	Power Factor %	Total kWh Consumption	Total Electric Cost($)	Billing kW	Base kWh	Base kW	Base KVARH	Base Cost($)	Low Peak kWh	Low Peak kW	Low Peak KVARH	Low Peak Cost($)	High Peak kWh	High Peak kW
12/8/2017	33		1,305,990	204,591.19	3,765.10	869,503	0	612,773	91,629.18	257,552	0	192,409	31,986.20	178,935	2,227.70
1/10/2018	34		1,070,390	175,252.23	3,765.10	742,826	2,024.20	536,065	78,752.29	191,735	2,073.60	147,894	23,949.98	135,829	2,284.40
2/8/2018	30		896,659	154,202.58	3,765.10	616,806	0	456,144	67,050.09	168,135	0	137,725	21,764.86	111,718	1,717.50
3/9/2018	30		923,460	156,840.03	3,765.10	640,140	1,589.90	470,869	69,577.64	172,458	1,398.50	140,710	22,319.91	110,862	1,548.50
4/9/2018	32		950,480	160,777.10	3,765.10	702,889	0	531,547	77,370.59	159,319	0	144,021	21,241.47	88,272	1,337.60
5/8/2018	30		990,838	160,430.15	2,837.80	715,596	0	528,710	79,325.90	175,341	0	156,351	23,504.02	99,901	1,412.20
6/7/2018	31		1,141,613	179,541.32	2,837.80	815,292	0	566,335	88,651.41	208,931	1,599.10	169,522	27,293.43	117,390	1,506.80
7/9/2018	33		1,116,635	181,593.79	2,837.80	841,157	1,477.90	621,057	90,028.52	179,784	1,428.20	171,370	28,493.81	95,694	1,303.90
8/7/2018	30		1,157,411	204,168.54	2,908.80	799,704	2,065.10	556,581	88,031.12	222,744	2,187.30	175,252	36,257.19	134,963	2,275.10
9/6/2018	31		1,289,164	221,406.76	2,908.80	892,703	0	551,027	98,069.54	245,316	2,245.70	169,349	39,306.43	151,145	2,219.40
10/5/2018	30		1,291,774	224,408.49	3,040.30	875,767	2,265.10	570,780	96,947.66	252,738	2,483.40	175,607	40,104.91	163,269	2,399.00
11/6/2018	33		1,425,471	235,599.05	3,040.30	994,653	0	654,738	115,088.13	264,327	0	181,550	35,857.33	166,491	2,166.40
12/7/2018	32		1,209,720	203,167.18	3,040.30	823,674	0	568,652	94,591.16	227,262	0	171,193	30,388.01	158,784	1,971.60
			13,463,615												
1/10/2019	35		949,009	166,527.54	3,040.30	674,934	0	472,656	78,665.08	163,359	0	133,416	22,447.98	110,716	1,484.10
2/8/2019	30		875,792	158,852.27	3,040.30	587,073	0	429,107	69,623.63	174,722	0	133,437	24,271.47	113,997	3,040.30
3/11/2019	32		1,099,820	191,392.49	3,040.30	770,733	0	578,804	91,459.77	198,731	0	157,427	27,652.99	130,356	1,655.20
4/9/2019	30		1,015,367	182,427.32	3,040.30	715,712	0	527,947	86,417.68	190,681	0	159,284	27,325.11	108,974	1,645.60
5/8/2019	30		1,174,640	206,859.40	3,040.30	850,177	0	544,284	104,055.46	205,572	0	157,296	29,406.39	118,891	1,707.80
6/7/2019	31		1,215,018	214,451.43	3,040.30	856,978	1,634.90	582,094	104,161.16	225,371	1,662.20	177,731	33,215.23	132,669	1,724.50
7/9/2019	33		2,536,564	227,388.12	3,040.30	1,843,258	0	663,550	109,090.96	444,204	1,769.60	178,866	37,026.73	249,102	1,774.20
8/7/2019	30		1,261,660	235,129.69	3,040.30	884,721	0	607,190	106,310.05	236,763	2,398.70	183,118	41,112.58	140,176	2,131.60
9/6/2019	31		1,342,068	246,917.13	3,040.30	928,172	1,944.60	626,725	111,502.12	256,931	2,211.10	191,138	43,457.37	156,965	2,150.20
10/7/2019	32		1,417,584	257,481.64	2,911.70	986,614	2,215.80	666,894	119,372.91	265,814	2,372.90	187,415	43,847.53	165,156	2,485.00
11/6/2019	31		1,247,687	223,859.39	2,789.80	845,031	2,006.20	589,742	105,491.58	246,062	2,179.90	180,419	35,685.17	156,594	2,180.80
12/9/2019	34		1,288,996	227,588.39	2,789.80	875,210	0	613,584	108,397.63	242,221	0	174,946	34,529.06	171,565	2,128.10
			15,424,205												
1/10/2020	33		1,203,686	215,544.75	2,789.80	808,170	1,986.40	527,613	99,943.32	235,045	2,123.60	163,333	33,454.83	160,471	2,300.80
2/10/2020	32		1,271,125	228,342.21	3,140.20	871,351	2,100.80	526,546	107,478.64	239,888	2,438.10	148,519	34,003.52	159,886	2,411.70
3/11/2020	31		1,173,533	212,449.15	3,140.20	786,774	1,856.00	492,416	97,082.48	235,770	1,953.90	153,084	33,454.59	150,989	1,995.40
4/9/2020	30		942,303	174,817.20	3,140.20	688,904	0	436,976	85,082.04	163,900	0	119,468	23,582.17	89,499	1,387.80
5/8/2020	30		697,032	134,151.45	3,140.20	539,592	735.9	354,440	66,014.79	106,044	686.1	96,042	15,492.67	51,396	647.7
6/9/2020	33		760,174	143,944.45	3,140.20	591,372	499	379,117	71,575.27	112,825	541.6	98,904	17,197.13	55,977	545.8
7/9/2020	31		694,037	138,718.89	3,140.20	531,879	717	349,340	63,001.36	109,744	923.3	102,876	18,948.91	52,414	908.8
8/7/2020	30		762,114	153,797.05	3,140.20	560,781	1,207.60	358,799	67,698.43	130,360	1,167.40	105,276	19,129.58	70,973	1,023.00
9/8/2020	33		975,056	191,727.14	3,140.20	699,706	0	498,074	84,128.78	170,790	1,761.30	137,714	29,834.48	104,560	1,786.50
10/7/2020	30		822,308	166,302.26	3,140.20	576,963	0	397,690	70,189.79	151,342	1,530.80	118,370	25,462.47	94,003	1,577.70
11/6/2020	31		1,237,939	226,304.62	3,140.20	852,900	0	509,410	106,503.48	233,910	0	153,252	33,557.61	151,129	1,925.80
12/9/2020	34		1,006,571	189,544.46	3,140.20	712,471	1,797.80	418,857	88,953.58	173,174	1,557.60	117,103	24,862.02	120,926	1,681.80
			11,545,878												
1/11/2021	34		1,152,004	210,464.48	3,140.20	817,674	0	492,161	101,966.63	198,169	0	133,230	28,411.24	136,161	1,480.20
2/10/2021	31		1,042,235	190,720.38	2,703.40	722,160	1,568.80	438,980	89,767.94	191,378	1,441.80	130,902	27,369.87	128,697	1,698.10
3/11/2021	30		978,639	180,278.37	2,549.80	695,578	1,534.70	429,482	87,087.71	174,738	1,415.90	124,209	25,422.92	108,323	1,567.60
4/9/2021	30		1,065,254	193,440.13	2,692.80	745,449	2,065.60	410,683	92,161.15	197,669	2,157.80	118,643	28,079.53	122,136	1,776.90
5/10/2021	32		1,112,262	197,559.49	2,692.80	821,275	1,432.80	436,920	100,313.12	181,681	1,598.10	115,655	25,577.57	109,306	1,714.50
6/9/2021	31	77.97%	1,131,818	205,199.55	2,692.80	803,510	1,895.40	472,356	97,918.35	203,980	1,910.30	140,807	30,635.58	124,328	1,861.60
7/9/2021	31	76.43%	1,091,172	205,170.16	2,692.80	763,961	1,748.80	492,982	90,911.50	201,996	1,848.50	148,954	34,254.05	125,215	1,754.40
8/9/2021	32	81.11%	1,347,586	252,355.98	2,692.80	960,031	2,121.40	573,527	115,007.48	238,470	2,193.10	153,440	40,309.34	149,085	2,290.60
9/8/2021	31	79.40%	1,243,029	237,457.46	2,692.80	852,832	2,213.40	522,763	102,778.80	242,251	2,231.40	162,873	41,391.53	147,946	1,970.70
10/7/2021	30	79.33%	1,021,727	200,635.28	2,692.80	712,030	1,880.60	430,291	87,009.80	190,196	1,903.00	128,902	32,038.85	119,501	1,873.90
11/6/2021	31		1,008,398	194,986.92	2,692.80	697,974	1,621.00	409,105	89,766.98	191,653	1,732.60	128,664	28,496.56	118,771	1,505.10
12/9/2021	34		993,967	191,682.86	2,692.80	704,135	1,703.90	411,822	89,971.39	170,059	1,814.40	116,883	24,922.30	119,773	1,701.40
			13,188,091												

----------End of Report----------

Utilities (Include Existing Utility Bills, MBS Utility Bills)

Summary of SCG-Customer Gas Usage and Total Billed 2018 - 2021

Facility Name: **Television City Productions, LLC**

Facility Type: **Entertainment**

	2018	2019	2020	2021
	Therms	Therms	Therms	Therms
Facility ID 1693024700	**78,920**	**96,482**	**60,570**	**61,499**
Facility ID 1175017300 east stage	**4,431**	**4,392**	**1,392**	**1,832**
Facility ID 1154017300	**725**	**962**	**1,139**	**1,221**
Facility ID 1133017300	**272,874**	**254,346**	**240,924**	**234,753**
Total Therms	**356,950**	**356,182**	**304,025**	**299,305**
Covert to kbtu/yr	**36,765,850**	**36,686,746**	**31,314,575**	**30,828,415**

	Facility ID 1133017300	Facility ID 1154017300	Facility ID 1175017300 east stage	Facility ID 1693024700
1	21040	80	229	5425
2	21848	99	271	5327
3	21586	104	280	4837
4	19647	97	268	5475
5	18072	100	275	5439
6	17781	107	268	5296
7	16313	110	131	4964
8	15665	102	47	4764
9	19992	112	52	5066
10	18938	103	11	4232
11	21093	111	0	4452
12	22778	96	0	6222
	234753	**1221**	**1832**	**61499**

Utilities (Include Existing Utility Bills, MBS Utility Bills)

SCG - Customer Gas Usage and Total Billed Summary for 2019;2020;2021

Run Date: Nov-10-2022 12:18:49

Prepared by: DDonadi1

2019

Customer Name:	TELEVISION CITY STUDIOS, LLC		TELEVISION CITY STUDIOS, LLC		TELEVISION CITY STUDIOS, LLC		TELEVISION CITY STUDIOS, LLC	
Address:	100 N FAIRFAX AVE LOS ANGELES, CA 90036		7800 BEVERLY BLVD LOS ANGELES, CA 90036-2112		7800 BEVERLY BLVD LOS ANGELES, CA 90036-2112		7800 BEVERLY BLVD LOS ANGELES, CA 90036-2112	
Bill Account ID:	1693024737		1133017341		1154017302		1175017376	
Meter Badge Nbr:	15424088		04754148		15083893		15540528	
Rate:	GN-10		GN-10		GN-10		GN-10	
	Therms	Total Billed	Therms	Total Billed	Therms	Total Billed	Therms	Total Billed
July	6,809	$5,360.15	15,453	$11,043.50	76	$101.33	288	$330.78
August	6,788	$5,256.06	16,562	$11,561.00	83	$108.75	360	$387.81
September	6,782	$5,178.27	16,343	$11,239.50	84	$109.48	365	$388.49
October	7,469	$5,896.76	21,723	$15,423.76	73	$99.33	352	$389.80
November	7,861	$5,995.43	27,022	$18,522.69	106	$136.99	390	$417.62
December	9,474	$8,014.77	29,346	$22,839.44	99	$137.99	328	$396.08
Sum:	45,183	$35,701.44	126,449	$90,629.89	521	$693.87	2,083	$2,310.58

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2020

Customer Name:	TELEVISION CITY STUDIOS, LLC		TELEVISION CITY STUDIOS, LLC		TELEVISION CITY STUDIOS, LLC		TELEVISION CITY STUDIOS, LLC	
Address:	100 N FAIRFAX AVE LOS ANGELES, CA 90036		7800 BEVERLY BLVD LOS ANGELES, CA 90036-2112		7800 BEVERLY BLVD LOS ANGELES, CA 90036-2112		7800 BEVERLY BLVD LOS ANGELES, CA 90036-2112	
Bill Account ID:	1693024737		1133017341		1154017302		1175017376	
Meter Badge Nbr:	15424088		04754148		15083893		15540528	
Rate:	GN-10		GN-10		GN-10		GN-10	
	Therms	Total Billed	Therms	Total Billed	Therms	Total Billed	Therms	Total Billed
January	8,043	$6,582.99	28,068	$20,209.46	101	$149.74	302	$393.51
February	6,076	$4,838.06	25,400	$16,441.56	98	$139.20	372	$435.09
March	6,364	$4,579.52	24,994	$14,502.59	97	$130.83	249	$311.19
April	5,549	$4,006.81	19,733	$11,223.21	84	$113.78	81	$110.32
May	3,848	$3,269.87	14,992	$9,566.47	86	$119.87	73	$104.18
June	3,434	$3,007.61	16,151	$10,598.91	84	$118.92	6	$22.95
July	4,546	$3,824.86	15,699	$10,272.58	94	$132.44	74	$107.93
August	4,007	$3,443.45	15,452	$10,024.55	91	$126.54	65	$94.85
September	4,368	$3,659.51	16,285	$10,381.58	95	$131.26	8	$25.81
October	5,091	$4,074.03	18,279	$11,519.59	101	$139.69	1	$18.40
November	4,383	$4,068.89	22,634	$15,884.33	107	$156.50	13	$34.58
December	4,861	$4,521.21	23,237	$17,057.09	101	$151.05	148	$213.60
Sum:	60,570	$49,876.81	240,924	$157,681.92	1,139	$1,609.82	1,392	$1,872.41

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2021

Customer Name:	TELEVISION CITY STUDIOS, LLC		TELEVISION CITY STUDIOS, LLC		TELEVISION CITY STUDIOS, LLC		TELEVISION CITY STUDIOS, LLC	
Address:	100 N FAIRFAX AVE LOS ANGELES, CA 90036		7800 BEVERLY BLVD LOS ANGELES, CA 90036-2112		7800 BEVERLY BLVD LOS ANGELES, CA 90036-2112		7800 BEVERLY BLVD LOS ANGELES, CA 90036-2112	
Bill Account ID:	1693024737		1133017341		1154017302		1175017376	
Meter Badge Nbr:	15424088		04754148		15083893		15540528	
Rate:	GN-10		GN-10		GN-10		GN-10	
	Therms	Total Billed	Therms	Total Billed	Therms	Total Billed	Therms	Total Billed
January	5,425	$5,932.10	21,040	$18,683.72	80	$144.76	229	$384.37
February	5,327	$5,724.97	21,848	$18,930.51	99	$175.41	271	$440.29
March	4,837	$5,333.14	21,586	$18,702.60	104	$181.72	280	$448.54
April	5,475	$5,507.79	19,647	$15,995.44	97	$164.82	268	$419.30
May	5,296	$5,616.12	18,072	$15,583.70	100	$173.60	275	$438.18
June	5,439	$5,941.11	17,781	$16,055.68	107	$190.47	268	$442.59
July	4,964	$5,734.24	16,313	$15,458.92	110	$198.34	131	$233.14
August	4,764	$5,661.74	15,665	$15,239.71	102	$185.49	47	$93.18
September	5,066	$5,928.05	19,992	$19,057.34	112	$204.32	52	$103.57
October	4,232	$5,639.80	18,938	$20,118.44	103	$198.53	11	$34.42
November	4,452	$6,175.17	21,093	$23,699.55	111	$221.96	0	$16.27
December	6,222	$8,156.15	22,778	$25,943.79	96	$194.65	0	$14.79
Sum:	61,499	$71,350.38	234,753	$223,469.40	1,221	$2,234.07	1,832	$3,068.64

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2022

Customer Name:	TELEVISION CITY STUDIOS, LLC		TELEVISION CITY STUDIOS, LLC		TELEVISION CITY STUDIOS, LLC		TELEVISION CITY STUDIOS, LLC	
Address:	100 N FAIRFAX AVE LOS ANGELES, CA 90036		7800 BEVERLY BLVD LOS ANGELES, CA 90036-2112		7800 BEVERLY BLVD LOS ANGELES, CA 90036-2112		7800 BEVERLY BLVD LOS ANGELES, CA 90036-2112	
Bill Account ID:	1693024737		1133017341		1154017302		1175017376	
Meter Badge Nbr:	15424088		04754148		15083893		15540528	
Rate:	GN-10		GN-10		GN-10		GN-10	
	Therms	Total Billed	Therms	Total Billed	Therms	Total Billed	Therms	Total Billed
January	6,219	$9,914.59	21,532	$30,557.06	100	$233.19	1	$17.96
February	5,584	$7,677.79	18,287	$21,716.38	96	$200.14	0	$14.79
March	5,315	$7,133.53	20,786	$23,475.52	93	$189.38	0	$14.30
April	5,978	$8,046.30	20,405	$23,566.92	112	$227.85	45	$100.10
May	5,197	$8,369.70	22,318	$30,387.56	120	$273.93	256	$562.74
June	3,463	$6,960.80	18,754	$32,058.68	97	$255.47	238	$605.25
July	3,718	$6,340.25	17,874	$25,273.71	93	$218.20	158	$359.97
August	3,188	$6,205.62	14,376	$23,753.84	88	$226.90	216	$533.84
September	3,048	$5,921.76	15,572	$25,753.20	67	$176.69	161	$403.03
October	4,390	$6,879.26	14,728	$19,555.18	71	$162.25	155	$336.65
Sum:	46,100	$73,449.60	184,632	$256,098.05	937	$2,164.00	1,230	$2,948.63

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As Used Totals

Therm Usage - Summary (As Used)
Customer

TELEVISION CITY STUDIOS, LLC
100 N FAIRFAX AVE
LOS ANGELES CA 90036

ID's

GNN ID 1693024700
BA ID 1693024737
Facility ID 1693024700

2018 -2020 | 2017-2019 | 2016-2018 | 2015-2017 | Other

Month	2018 Therms	2018 Revenue	2019 Therms	2019 Revenue	2020 Therms	2020 Revenue
January	6,867	3,745	7,282	5,348	8,043	5,402
February	6,961	4,075	9,118	5,920	6,076	3,958
March	7,657	4,021	9,260	6,525	6,364	3,702
April	7,838	3,585	8,629	5,427	0	0
May	8,731	4,127	8,647	4,928	0	0
June	7,364	3,897	8,363	4,969	0	0
July	6,358	3,847	6,809	4,369	0	0
August	5,013	4,164	6,788	4,276	0	0
September	4,992	3,354	6,782	4,206	0	0
October	5,510	3,079	7,469	4,808	0	0
November	5,840	3,630	7,861	4,869	0	0
December	5,789	4,441	9,474	6,586	0	0
Totals	78,920	45,965	96,482	62,231	20,483	13,062

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As Used Totals

Therm Usage - Summary (As Used)

Customer

TELEVISION CITY STUDIOS, LLC
7800 BEVERLY BLVD
LOS ANGELES CA 90036-2112

ID's

GNN ID 0000004699
BA ID 1133017341
Facility ID 1133017300

2018 -2020 | 2017-2019 | 2016-2018 | 2015-2017 | Other

Month	2018 Therms	2018 Revenue	2019 Therms	2019 Revenue	2020 Therms	2020 Revenue
January	26,695	12,417	31,139	20,273	28,068	16,335
February	31,018	15,371	20,061	12,063	25,400	13,108
March	22,204	10,260	17,991	11,967	24,994	11,374
April	23,348	9,235	20,428	11,862	0	0
May	21,072	8,855	19,522	10,153	0	0
June	23,902	10,833	18,756	10,063	0	0
July	20,637	10,720	15,453	8,897	0	0
August	17,278	12,354	16,562	9,285	0	0
September	17,526	9,981	16,343	9,009	0	0
October	19,554	9,076	21,723	12,415	0	0
November	23,468	12,060	27,022	14,841	0	0
December	26,172	17,188	29,346	18,593	0	0
Totals	272,874	138,350	254,346	149,421	78,462	40,817

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As Used Totals

Therm Usage - Summary (As Used)

Customer

TELEVISION CITY STUDIOS, LLC
7800 BEVERLY BLVD
LOS ANGELES CA 90036-2112

ID's

GNN ID 1175017300
BA ID 1175017376
Facility ID 1175017300

2018 -2020 | 2017-2019 | 2016-2018 | 2015-2017 | Other

Month	2018 Therms	2018 Revenue	2019 Therms	2019 Revenue	2020 Therms	2020 Revenue
January	336	277	335	348	302	336
February	411	338	403	376	372	369
March	361	289	377	378	249	265
April	330	249	369	344	0	0
May	333	258	406	344	0	0
June	315	261	419	367	0	0
July	344	300	288	279	0	0
August	394	407	360	326	0	0
September	368	331	365	326	0	0
October	448	342	352	328	0	0
November	417	350	390	351	0	0
December	374	375	328	336	0	0
Totals	4,431	3,777	4,392	4,103	923	970

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As Used Totals

Therm Usage - Summary (As Used)

Customer

TELEVISION CITY STUDIOS, LLC
7800 BEVERLY BLVD
LOS ANGELES CA 90036-2112

ID's

GNN ID 1154017300
BA ID 1154017302
Facility ID 1154017300

2018 -2020 | 2017-2019 | 2016-2018 | 2015-2017 | Other

Month	2018 Therms	2018 Revenue	2019 Therms	2019 Revenue	2020 Therms	2020 Revenue
January	53	59	64	83	101	129
February	69	77	55	69	98	119
March	58	63	76	94	97	112
April	60	61	91	104	0	0
May	66	67	82	90	0	0
June	62	67	73	83	0	0
July	52	61	76	87	0	0
August	58	79	83	93	0	0
September	55	66	84	93	0	0
October	67	71	73	85	0	0
November	67	77	106	117	0	0
December	58	76	99	118	0	0
Totals	725	824	962	1,116	296	360

TVC 2050 - Electric Vehicle Charging and Solar Panel Calculations

GHG Emissions Reductions for Commercial Uses Associated with City Codes (Electric Vehicle Charging Stations/Plugins)

Step 1: Estimating GHG Emisisons Reduction to Replace Gasoline/Diesel Vehicle with Electric Vehicle

	Existing Baseline (Year 2021)	Existing Buildout (Year 2026)	Buildout (Year 2026)	
LADWP Electricity Emission Factor[1]	0.28	0.27	0.27	MTCO2E/MWh
Fuel Economy of Electric Vehicle[2]	0.36	0.38	0.38	kWh/mile
Gasoline/Diesel CO2 Emissions While Running[3]	332	306	306	grams/mile
Annual VMT Reduction per Parking Spot[4]	9,125	9,125	9,125	miles/charging station
Number of On-Site Chargers[5]	12	12	530	
Annual VMT Reduction All Stations/Plugins (Based on Charge)	109,500	109,500	4,836,250	
Energy Usage for Charging Vehicles	30,248	29,056	1,283,306	kWH/year

Step 2: Estimating GHG Emissions Reduction from Installing Electric Vehicle Charging Stations/Plugins

GHG Emisisons of Gasoline/Diesel Vehicle	36	34	1,480	MTCO2E/MWh
GHG Emissions of Electric Vehicle	11	11	489	MTCO2E/MWh
GHG Emisisons Reduction	**25**	**22**	**990**	MTCO2E/MWh

Notes:
1) CO2 intensity factor reflects a 2026 RPS for LADWP (585 lbs of CO2E/MWh).
2) CARB, EMFAC 2021, Electric and Plug-in vehicles for 2021 and 2026. Year 2021 average fuel economy shows lower efficiency than future years. However, this is due to the lack of electric powered heavy duty trucks in Year 2021, which would lower the average fuel economy.
3) CARB, 2021. EMFAC2021, running exhaust emission rate for CO2 and CH4 for light duty gasoline- and diesel-powered vehicles in Los Angeles, aggregated for all models and speeds, averaged over all seasons for 2026.
4) Annual VMT reduction estimated based on an estimate of 10 hours of charge time for a Level 2 charging station that charges at a rate of 25 driving range per hour. It is conservatively assumed that 10% of the miles charged would be driven by the charged vehicles.
5) City Code requires 10% of parking spaces to be equipped with EV chargers of 5,300 parking spaces (Page IV.K-24, of Section IV.K, Transportation, of the Draft EIR).

GHG Emissions Reductions for Solar Panels

Existing (Year 2021):

Existing Solar Array:	1,617	Annual Mwh production in Year 2019					
Existing CO2 Intensity (lb/MWh)	609	CO_2	0.029	CH_4	0.006	N_2O	
Global Warming Potential	1	CO_2	25	CH_4	298	N_2O	
CO2e	(448.62)	mtons/yr					

Existing (Year 2026):

Existing Solar Array:	1,617	Annual Mwh in Year 2026					
CO2 Intensity in 2026 (lb/MWh)	585	CO_2	0.029	CH_4	0.006	N_2O	
Global Warming Potential	1	CO_2	25	CH_4	298	N_2O	
CO2e	(430.92)	mtons/yr					

Buildout:

	2000	(Project Design Feature GHG-PDF-2)					
CO2 Intensity in 2026 (lb/MWh)	585	CO_2	0.029	CH_4	0.006	N_2O	
Global Warming Potential	1	CO_2	25	CH_4	298	N_2O	
CO2e	(532.98)	mtons/yr					

TVC 2050 - CAPCOA Conversion from Natural Gas

All Electric Calculation--Conceptual Development Plan Scenario

CAPCOA Consumption Rate[2]

	Natural Gas (Therm/yr/KSF)							Electricity (kWh/yr/KSF)						
Building Type	**Water Heater**	**Primary Heat**	**Cooking**	**Dryer**	**Cooling**	**Misc**	**Refrig.**	**Water Heater**	**Primary Heat**	**Cooking**	**Dryer**	**Cooling**	**Misc**	**Refrig.**
Industrial Park	20	119	1		18	43	0	46	396	9		3103	2714	11
Strip Mall (Production Support)	1	4	0	0	7	34	3	24	28	27		1249	2867	162
General Office Building	20	119	1	0	18	43	1	46	396	9	0	3103	2714	11
Strip Mall (Retail)	1	4	0	0	7	34	3	24	28	27		1249	2867	162
High Turnover (Sit Down Restaurant)	90	37	702	0	48	67	4	35	268	1279		3254	8965	6236

[2] California Air Pollution Control Officers Association (CAPCOA) Handbook for Analyzing Greenhouse Gas Emissions Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity. Appendix C. Table E-15. December 2021.

Project Energy Demand

		Natural Gas (Therm/yr/KSF)								Electricity (kWh/yr/KSF)									
Project Uses	**Amount (DU/KSF)**	**Water Heater**	**Primary Heat**	**Cooking**	**Dryer**	**Cooling**	**Misc**	**Refrig.**	**Total**	**Water Heater**	**Primary Heat**	**Cooking**	**Dryer**	**Cooling**	**Misc**	**Refrig.**	**title 24 Total**	**Non-title 24 total**	**Total**
Industrial Park (Sound Stages)	350	7,000	41,650	350	0	6,300	15,050	0	**70,350**	16,100	138,600	3,150	0	1,086,050	949,900	3,850	1,240,750	956,900	**2,197,650**
Strip Mall (Production Support)	104	104	416	0	0	728	3,536	312	**5,096**	2,496	2,912	2,808	0	129,896	298,168	16,848	135,304	317,824	**453,128**
General Office Building	1400	28,000	166,600	1,400	0	25,200	60,200	1,400	**282,800**	64,400	554,400	12,600	0	4,344,200	3,799,600	15,400	4,963,000	3,827,600	**8,790,600**
Strip Mall (Retail)	15	15	60	0	0	105	510	45	**735**	360	420	405	0	18,735	43,005	2,430	19,515	45,840	**65,355**
High Turnover (Sit Down Restaurant)	5	450	185	3,510	0	240	335	20	**4,740**	175	1,340	6,395	0	16,270	44,825	31,180	17,785	82,400	**100,185**
Total		35,119	208,726	1,750	0	32,333	79,296	1,757	**358,981**	83,531	697,672	25,358	0	5,595,151	5,135,498	69,708	6,376,354	5,858,528	**11,506,733**

Total Annual Consumption

CalEEMod 2022 Default	Electricity				Natural Gas			
	Total (kWh/yr)	Title 24 (kWh/yr)	Non-Title 24 (kWh/yr)	KWh/sf/yr	Total (kBTU/yr)	Title 24 (kBTU/yr)	Non-Title 24 (kBTU/yr)	KBTU/sf/yr
Industrial Park (Sound Stages)	3,969,000	2893027.95	1,075,972	11.34	7,032,151	5,492,562	1,539,588	20.09
Strip Mall (Production Support)	1,035,480	668066.94	367,413	9.96	512,111	120,417	391,694	4.92
General Office Building	22,300,250	16254786.18	6,045,464	15.93	28,128,602	21,970,250	6,158,352	20.09
Strip Mall (Retail)	149,348	96355.81	52,992	9.96	73,862	17,368	56,494	4.92
High Turnover (Sit Down Restaurant)	162,850	77961.62	84,889	32.57	473,648	87,036	386,613	94.73
Enclosed Parking Structure	3,839,089	3641488.83	197,600	3.69	0	-	-	0.00
Unenclosed Parking Structure	3,043,440	2838240	205,200	2.82	0	-	-	0.00
Total:	**34,499,457**				**36,220,375**			

With Adjustment for Inputs to CalEEMod	Electricity			Natural Gas
	Total (kWh/yr)	Title 24 (kWh/yr)	Non-Title 24 (kWh/yr)	Total (kBTU/yr)
Industrial Park (Sound Stages)	6,166,650	4,133,778	2,032,872	-
Strip Mall (Production Support)	1,488,608	803,371	685,237	-
General Office Building	31,090,850	21,217,786	9,873,064	-
Strip Mall (Retail)	214,703	115,871	98,832	-
High Turnover (Sit Down Restaurant)	263,035	95,747	167,289	-
Enclosed Parking Structure	3,839,089	3,641,489	197,600	-
Unenclosed Parking Structure	3,043,440	2,838,240	205,200	-
Total:	46,106,375	32,846,281	13,260,094	-

TVC 2050 - CAPCOA Conversion from Natural Gas

All Electric Calculation--Max Energy Scenario

CAPCOA Consumption Rate[a]

	Natural Gas (Therm/yr/KSF)							Electricity (kWh/yr/KSF)						
Building Type	**Water Heater**	**Primary Heat**	**Cooking**	**Dryer**	**Cooling**	**Misc**	**Refrig.**	**Water Heater**	**Primary Heat**	**Cooking**	**Dryer**	**Cooling**	**Misc**	**Refrig.**
Industrial Park	20	119	1		18	43	0	46	396	9		3103	2714	11
Strip Mall (Production Support)	1	4	0	0	7	34	3	24	28	27		1249	2867	162
General Office Building	20	119	1	0	18	43	1	46	396	9	0	3103	2714	11
Strip Mall (Production Support)	1	4	0	0	7	34	3	24	28	27		1249	2867	162
High Turnover (Sit Down Restaurant)	90	37	702	0	48	67	4	35	268	1279		3254	8965	6236

[a] California Air Pollution Control Officers Association (CAPCOA) Handbook for Analyzing Greenhouse Gas Emissions Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity. Appendix C. Table E-15. December 2021.

Project Energy Demand

		Natural Gas (Therm/yr/KSF)								Electricity (kWh/yr/KSF)									
Project Uses	**Amount (DU/KSF)**	**Water Heater**	**Primary Heat**	**Cooking**	**Dryer**	**Cooling**	**Misc**	**Refrig.**	**Total**	**Water Heater**	**Primary Heat**	**Cooking**	**Dryer**	**Cooling**	**Misc**	**Refrig.**	**title 24 Total**	**Non-title 24 total**	**Total**
Industrial Park (Sound Stages)	450	9,000	53,550	450	0	8,100	19,350	0	**90,450**	20,700	178,200	4,050	0	1,396,350	1,221,300	4,950	1,595,250	1,230,300	**2,825,550**
Strip Mall (Production Support)	4	4	16	0	0	28	136	12	**196**	96	112	108	0	4,996	11,468	648	5,204	12,224	**17,428**
General Office Building	1400	28,000	166,600	1,400	0	25,200	60,200	1,400	**282,800**	64,400	554,400	12,600	0	4,344,200	3,799,600	15,400	4,963,000	3,827,600	**8,790,600**
Strip Mall (Retail)	15	15	60	0	0	105	510	45	**735**	360	420	405	0	18,735	43,005	2,430	19,515	45,840	**65,355**
High Turnover (Sit Down Restaurant)	5	450	185	3,510	0	240	335	20	**4,740**	175	1,340	6,395	0	16,270	44,825	31,180	17,785	82,400	**100,185**
Total		37,019	220,226	1,850	0	33,433	80,196	1,457	**374,181**	85,731	734,472	23,558	0	5,780,551	5,120,198	54,608	6,600,754	5,878,228	**11,698,933**

	Electricity				Natural Gas			
CalEEMod 2022 Default	Electricity				Natural Gas			
	Total	Title 24	Non-Title 24		Total	Title 24	Non-Title 24	
	(kWh/yr)	(kWh/yr)	(kWh/yr)	KWh/sf/yr	(kBTU/yr)	(kBTU/yr)	(kBTU/yr)	KBTU/sf/yr
Industrial Park (Sound Stages)	5,103,000	3719607	1383393	11.34	9,041,336	7,061,866	1,979,470	20.09
Strip Mall (Production Support)	39,826	25694.88	14,131	9.96	19,697	4,631	15,065	4.92
General Office Building	22,300,250	16254786.18	6,045,464	15.93	28,128,602	21,970,250	6,158,352	20.09
Strip Mall (Retail)	149,348	96355.81	52,992	9.96	73,862	17,368	56,494	4.92
High Turnover (Sit Down Restaurant)	162,850	77961.62	84,889	32.57	473,648	87,036	386,613	94.73
Enclosed Parking Structure	3,839,089	3641488.83	197,600	3.69	0	-	-	0
Unenclosed Parking Structure	3,043,440	2838240	205,200	2.82	0	-	-	0
Total:	**34,637,803**				**37,737,146**			

Total Annual Consumption

	Electricity			Natural Gas
With Adjustment for Inputs to CalEEMod	Total	Title 24	Non-Title 24	Total
	(kWh/yr)	(kWh/yr)	(kWh/yr)	(kBTU/yr)
Industrial Park (Sound Stages)	7,928,550	5,314,857	2,613,693	-
Strip Mall (Production Support)	57,254	30,899	26,355	-
General Office Building	31,090,850	21,217,786	9,873,064	-
Strip Mall (Retail)	214,703	115,871	98,832	-
High Turnover (Sit Down Restaurant)	263,035	95,747	167,289	-
Enclosed Parking Structure	3,839,089	3,641,489	197,600	-
Unenclosed Parking Structure	3,043,440	2,838,240	205,200	-
Total:	46,436,921	33,254,889	13,182,033	-

TVC 2050 - Miscellaneous

Calculation of Parking Garage Ventilation Energy Factor for CalEEMod

Full Power Ventilation Flowrate:	0.5	cfm/sf	Section 120.6(c) of California Building Code, Mandatory Requirements for Enclosed Parking Garages, provides a minimum 0.15 cfm/sf flowrate. Conservatively assumed 0.5 cfm/sf.
Fan Horsepower/1,000 sf:	0.19	hp/1,000 sf	Fan Horsepower = (CFM x Static Pressure of 1.6 in WC)/(6356 x Motor Fan Efficiency of 65%)
Setback Mode Power Ventilation Flowrate:	0.05	cfm/sf	Energy Star technical reference recommends a minimum flow rate of 0.05 cfm/sf when fan is in setback mode.
Fan Horsepower/1,000 sf:	0.02	hp/1,000 sf	Fan Horsepower = (CFM x Static Pressure of 1.6 in WC)/(6356 x Motor Fan Efficiency of 65%)
Fan Horsepower/1,000 sf per Day:	1.51	hp/1,000 sf/Day	Energy Star technical reference recommends 6 hours per day at full power and 18 hours per day at 0.05 cfm/sf in setback mode.
Horsepower to kW Conv.	0.746	kW per hp	
Fan kW/1,000 sf per Day:	1.13	kW/1,000 sf/Day	
Annual kW/sf	0.41	kWh/sf Annual	Appendix D - Energy Calculations of the Draft EIR

Source: Energy Star Portfolio Manger Technical Reference: Parking and the Energy Star Score in the United States and Canada, August 2018.

Additional Discussion of Ventilation Factor: Appendix D of the CalEEMod User's Guide on Page D-21 cites that the "proposed" Title 24 year 2013 standard for enclosed parking structure ventilation is 0.6 horespower per 1,000 sf. However, Title 24 year 2013 does not provide a horsepower per sf standard and instead provides a minimum 0.15 cfm/sf flowrate. The CalEEMod User's Guide provides no additional information to support 0.6 hp/1000 sf or how it is converted to 3.92 kWh/sf/yr. The User's Guide further states that "We have not identified any other sources to compare these factors to that are more appropriate." However, the CalEEMod User's Guide does cite Appendix D of the Energy Star Portfolio Manager Technical Reference: Parking and the Energy Star Score in the United States and Canada as the basis for establishing energy usage factors (Energy Star Reference). Figure 1 of the Energy Star Reference provides a ventilation rate for enclosed parking of 2.39 kBtu/sf/yr. This is equivalent to 0.7 kWh/sf/yr (3.41 kBtu/kWh) and well below the undocumented CalEEMod default ventilation rate of 3.92 kWh/sf/yr. The ventilation energy factor of 0.41 kWh/sf/yr reflects consistency with Section 120.6(c) of the 2013 Building Energy Efficiency Standards (Mandatory Requirements for Enclosed Parking Garages) and energy use data provided in the updated 2018 Energy Star Reference (https://www.energystar.gov/sites/default/files/tools/Parking_August_2018_EN_508.pdf). Thus, the calculated Title 24 energy usage rate in the Draft EIR for ventilation was reduced from the CalEEMod default rate of 3.92 kWh/sf to 0.41 kWh/sf. Please note that this methodology was approved by CARB for purposes of better characterizing parking structure ventilation energy use (Hollywood and Wilcox Project Assembly Bill 900 Application, October 9, 2018).

Calculation of Methane Gas Extraction Ventilation

Ventilation Flowrate:	0.017	cfm/sf	4 inch gravel depth with air exchange every 20 minutes
Fan Horsepower/1,000 sf:	0.01	hp/1,000 sf	Fan Horsepower = (CFM x Static Pressure of 1.6 in WC)/(6356 x Motor Fan Efficiency of 65%)
Fan Horsepower/1,000 sf per Day:	0.15	hp/1,000 sf/Day	24 hour per day operation
Horsepower to kW Conv.	0.746	kW per hp	
Fan kW/1,000 sf per Day:	0.12	kW/1,000 sf/Day	
Annual kW/sf	0.04	kWh/sf Annual	
Sound Stages, Production Support, Etc.	71760	sf	Based on 115 ft x 156 ft area, 4 inches deep
Total Ventilation Electricity Usage	**3027**	**kWh/yr**	

As discussed in Methane Mitigation System Design TV City Draft EIR Memorandum, Methane Mitigation System (MMS) level V design includes sub-slab mechanical extraction with gas extraction powered devices (e.g., fans, blowers) to exhaust or provide makeup air into subslab gravel blanket (approximately 4 inches deep). The Mechanical Extraction System shall be capable of providing an equivalent of a complete change of air every 20 minutes of the total volume of the gravel. Consistenet with MMS design, four buildings (sound stages) would include sub-slab mechanical extraction systems. Each building is approximately 115 ft x 156 ft. Please refer to Appendix C-6 of this Confirmatory Analysis

Source: Table 71 (Minimum Methane Mitigation Requirements) of LAMC Section 91.7109 (Application of Methane Seepage Regulation to Locations or Areas Outside the Methane Zone and Methane Buffer Zone Boundaries).

Calculation of Basecamp and Mobility Hub Lighting and Ventilation Electricity Usage

Basecamp Lighting (Uncovered)	0.15	watts/sf	Open Parking (CalEEMod Default)
Basecamp Lighting (Covered/Enclosed/Below Grade)	0.55	watts/sf	Maintenance-Detailed Task Work
Mobility Hub Lighting (Covered)	0.45	watts/sf	Transportation-Ticketing
Mobility Hub Lighting for Bathrooms	0.65	watts/sf	Restroom
Basecamp Ventilation for Enclosed/Below Grade	0.41	kWh/sf Annual	Same as Parking Structure (Enclosed/Below Grade)

Basecamp and Mobility Hub Lighting and Ventilation Electricity Usage	**Proposed (sf)[a]**	**Electricity (kWh/yr)**	
Circulation Areas	114,000	49,932	Lighting would be limited (miscellaneous), but conservatively includes 8 hrs at 0.15 watts/sf
Uncovered Basecamp/Production Area	158,100	69,248	Lighting would be limited (miscellaneous), but conservatively includes 8 hrs at 0.15 watts/sf
Covered Basecamp	69,500	284,116	Lighting includes 16 hrs at 0.55 watts/sf and 8 hrs at 0.3 watt/sf
Enclosed/Below Grade Basecamp	144,000	647,894	Lighting includes 16 hrs at 0.55 watts/sf and 8 hrs at 0.3 watt/sf and ventilation at 0.41 kWh/sf annual
Mobility Hub (Covered)	35,000	120,012	Lighting includes 16 hrs at 0.45 watts/sf and 8 hrs at 0.3 watt/sf
Mobility Hub (Covered) Bathroom	1,000	2,847	Lighting includes restroom at 0.65 watt/sf for 12 hrs (motion detection switches)
Total:		**1,174,049**	**kWh/yr**

Source: 2022 Building Energy Efficiency Standards (Table 140.6-C (Area Category Method-Lighting Power Density Values))

[a] Please refer to the Project Description of the Final EIR

Calculation of Basecamp and Mobility Hub Electrical Connections and EV Chargers Electricity Usage

Basecamp Electrical Connections	819,411	kWh/yr	AMA Group, TVC Project--Peer-Review of Draft EIR Energy Consumption Projections. Appendix C-4 of this Confirmatory Analysis
Basecamp Electrical Connections for Max Energy Scenario	1,053,528	kWh/yr	Scaled based on change in square footage (from 350,000 sf to 450,000 sf of sound stages)
Mobility Hub EV (4) Chargers for Shuttles	54,538	kWh/yr	AMA Group, TVC Project--Peer-Review of Draft EIR Energy Consumption Projections. Appendix C-4 of this Confirmatory Analysis

TVC 2050 - Miscellaneous

Calculation of Signage Electricity Usage

	Buildout		
	Interior	Exterior	Existing
Sign Square footage (sf)	**120,000**	**31,000**	
Display Type Breakdown (%)			
Unlighted Static Display (%)	**50%**	**0%**	
Lighted Static Display (%) dusk to dawn	**40%**	**100%**	
Digital Display (%)	**10%**	**0%**	
Digital Display (hours per day)	**12**	**0**	
Display Type Breakdown (sf)			
Unlighted Static Display (sf)	60,000	0	
Lighted Static Display (sf)	48,000	31,000	**4137**
Digital Display (sf)	12,000	0	**0**
Electricity Usage Factors by Display Type (kwh/year*sf)			
Unlit Static Display (kwh/year*sf)	0	0	0
Lighted Static Display (kwh/year*sf)[a, b]	2.7	2.7	9.1
Digital Display (kwh/year*sf)[c]	50.6	50.6	50.6
Electricity Usage Factors by Display Type (kwh/year)			
Unlit Static Display (kwh/year)	0	0	0
Lighted Static Display (kwh/year)	130,909	84,545	37,609
Digital Display (kwh/year)	303,571	0	0
Total Signage (kwh/year)	**434,481**	**84,545**	**37,609**

[a] Based on average usage of 1,000,000 kWh/year for 110,000 square feet of signage using metal halide lighting (Metro TCN EIR, 2023)
[b] Assumes use of LEDs would result in 70% reduction in energy usage vs Metal Halide: https://lumefficient.com/quick-metal-halide-to-led-conversion-guide/
[c] Based on a 14' x 48' digital display. Electricity usage ranges from 24,000 to 34,000 kWh/year. Assumes 24 hr/day operation. (Metro TCN EIR, 2023)
Please refer to the updated Project Description of the Final EIR for sign square footages

Project Buildout Electricity Usage from the Above Sources (kwh/year):	2,570,051	kwh/yr				
CO2 Intensity in 2026 (lb/MWh)	585	CO_2	0.029	CH_4	0.006	N_2O
Global Warming Potential	1	CO_2	25	CH_4	298	N_2O
CO2e	685	mtons/yr				
Max Land Use Exchange Electricity Usage from the Above Sources (kwh/year):	2,804,168	kwh/yr				
CO2e	747	mtons/yr				

TVC 2050 Project

Final EIR

Appendix C-4-Peer Review of Draft EIR Energy Consumption Analysis

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NEW YORK | CALIFORNIA | NEW JERSEY | FLORIDA | TEXAS

MEMORANDUM

TO: Stephanie Eyestone-Jones
Eyestone Environmental

FROM: James Brandt, PE
AMA Group

DATE: July 1, 2023

SUBJECT: TVC 2050 Project
AMA Project No. 7H16-02-001

PURPOSE: Peer Review of EIR Energy Consumption Analysis

AMA Group Engineers ("AMA") has been engaged to provide a peer review of expected energy consumption for the TVC 2050 Project ("Project") located at 7716-7800 Beverly Boulevard, Los Angeles, CA 90036. Electricity and natural gas consumption associated with the Project has been evaluated as part of the Draft Environmental Impact Report ("Draft EIR") for the Project prepared by the City of Los Angeles Department of City Planning, dated July 2022. This memorandum confirms the analysis and methodology used in the Draft EIR to evaluate electricity and natural gas consumption and also takes into account several Project components based on a new Project Design Feature ("PDF") as the result of public comment and included in the Final EIR (i.e., electric hook-ups in basecamp areas and the use of electric vehicle chargers at the Mobility Hub) and the City's new all electric ordinance described further below.

AMA's review and calculations are based on the Project as described in Section II, Project Description, of the Draft EIR, including the provision for a limited land use exchange that would provide for additional sound stage and/or production support square footage in exchange for an equivalent reduction in the square footage of another permitted studio use. In December 2022, after circulation of the Draft EIR, the City of Los Angeles approved Ordinance No. 187,714 ("Ordinance"), which became effective on January 23, 2023 and requires all newly constructed buildings to be all electric. Cooking equipment contained within kitchens in a public use area, such as restaurants, commissaries, cafeterias, and community kitchens is exempt as long as electric infrastructure is installed. The Project would comply with this Ordinance. As such, the Final EIR provides an updated energy analysis that accounts for the implementation of this Ordinance. AMA has reviewed the updated energy analysis associated with this new Ordinance that is included in the Final EIR.

AMA's review of the energy consumption analyses in the Draft EIR and Final EIR is provided below along with specific calculations for the basecamp and electric vehicle chargers for the Mobility Hub. As discussed in detail below, it is AMA's professional opinion that the methodology, analyses and conclusions provided in the Draft EIR and Final EIR adequately and thoroughly addressed expected energy consumption associated with the Project.

Review and Confirmation of Draft EIR Energy Analysis

AMA reviewed Section IV.C, Energy, of the Draft EIR and Appendix D, Energy Calculations, of the Draft EIR to confirm whether the energy consumption usage rates adequately accounted for the types of land uses proposed as part of the Project. Project-related consumption of electricity and natural gas were calculated using the demand factors provided in CalEEMod Version 2020.4.0 and recommended by the SCAQMD. Provided below is a summary of the energy demand factors used in the Draft EIR.

Table 1 (Energy Use Factors by Land Use Type)

Land Use	Electricity Usage Rate (KWh/sf/yr) Existing/Buildout	Natural Gas Usage Rate (KBTU/sf/yr) Existing/Buildout	CalEEMod Land Use Category
Sound Stages	15.24 /11.34	12.44/10.31	Industrial Park
Production Support	13.07/13.07	1.63/1.63	Strip Mall
Production and General Office	15.24/12.50	12.44/10.31	General Office Building
Retail	NA/13.07	NA/1.63	Strip Mall
Restaurant	NA/43.27	NA/230.33	Restaurant (high-turnover (sit-down))
Source: Pages 92-93 (Existing Uses) and pages 114-115 (Buildout Uses) of Appendix B, Air Quality and Greenhouse Gases, of the Draft EIR.			

The Draft EIR utilized CalEEMod default energy usage factors. These factors are based on 2005 Title 24 standards (applicable to buildings built in 2005), which conservatively do not reflect the age of the existing buildings (which are 50+ years old and less energy efficient in comparison to 2005 standards). Based on CalEEMod default energy usage factors, energy usage for the existing uses would be lower than what would be estimated assuming TVC's 2021 utility data (see Confirmatory Air Quality, GHG, and Energy Impacts Analysis in Response to Comments, included in Appendix FEIR-9 of the Final EIR). This is important since SCAQMD's regional significance threshold represents the incremental change from baseline (existing) conditions in comparison to Project buildout emissions (i.e., Project impact). Thus, the Draft EIR's use of CalEEMod to estimate the baseline energy use was conservative because it resulted in a lower level of baseline energy use than would occur using TVC's 2021 utility data resulting in a larger incremental change in energy use and emissions caused by the Project than would actually occur from removal of existing uses with use of the utility bills.

As discussed in the Draft EIR, the Project includes five land uses: sound stage, production support, production office, general office, and retail (which was assumed to include restaurant uses for analytical purposes). Of the five land uses, only general office and restaurant uses have direct corresponding land use categories within CalEEMod. Therefore, it was necessary to utilize representative land uses within this model. Because representative uses are not exact representations of the Project's studio land uses, representative uses that would result in a conservative estimate of operational energy were selected.

While CalEEMod provides 79 different standard land use types, it is not exhaustive and does not provide a land use type for every possible use. Where a use is not specifically identified, it is appropriate to select a representative land use type or to use empirical data. The Draft EIR used representative land use types within CalEEMod that would reflect the types of operations which would occur for the proposed sound stage and production support uses.

CalEEMod provides the following land use types for retail: free-standing discount store; free-standing discount superstore; discount club; regional shopping center; electronic superstore; home improvement superstore; strip mall;

hardware/paint store; supermarket; 24-hr convenience market with or without gas pumps; automobile care center; and gasoline/service station. In review of the available retail type land uses, strip mall was conservatively deemed representative of the Project's proposed retail use (which does not include a discount store, superstore, or club, regional shopping center, electronic or home improvement superstore, hardware/paint store, supermarket, 24-hour convenience market, automobile care center, or a gasoline/service station). Of the possible retail choices, only the 24-hour convenience market, supermarket, and regional shopping center would result in more electricity usage than a strip mall land use. However, these uses are not representative of the Project's retail uses (which would not be operated 24-hours or require substantial refrigeration/freezer needs).

Production support is a studio land use primarily used for the support of production activities and employee services. CalEEMod provides an electricity usage factor of 13.07 kWh/sf/yr for strip mall retail (e.g., commissary) and 10.86 kW/sf/yr for general light industry uses and manufacturing. Based on this information, AMA concludes that the Draft EIR correctly used the CalEEMod strip mall land use type for production support as it would be representative of the maximum electricity usage from the types of land uses under production support.

Use of the CalEEMod industrial park land use type has been used to represent sound stages in other studio projects within the City of Los Angeles.[1] Consistent with these studio projects, the Draft EIR used the CalEEMod industrial park land use type to represent existing sound stages which resulted in an electricity usage factor of 15.24 kWh/sf/yr. The electricity usage rate for the proposed sound stages was developed in the Draft EIR based on existing utility bills from Manhattan Beach Studios ("MBS") in which electricity bills were separately available for each sound stage.[2] To develop a future sound stage kW/sf/yr rate that would reflect a more modern-energy efficient use, the total annual electricity usage for the MBS sound stages was divided by the total square footage of the sound stages, resulting in a factor of 11.34 kWh/sf/yr. AMA concurs that use of the MBS electricity usage factor would be representative of TVC's proposed sound stages. Natural gas meters at MBS were not directly metered for each individual sound stage and, therefore, the same calculation method was not available. Instead, the Draft EIR used the CalEEMod land use type of industrial park to represent the proposed sound stages for the natural gas analysis.

In review of the energy use calculation parameters provided in Table 1 above that were used in the Draft EIR, it is AMA's professional opinion that the Draft EIR adequately and thoroughly addressed expected energy consumption associated with the Project, and the analysis was conservative.

CalEEMod 2022 Release

As discussed above, the Draft EIR used CalEEMod 2020.4.0, which was the most current model available at the time the Notice of Completion and Availability ("NOC/NOA") was published (on July 14, 2022). CalEEMod 2022.1 was subsequently approved for full launch (I.e., for use in CEQA documentation) on December 21, 2022 and updated to Version 2022.1.1.5 ("CalEEMod 2022"). CalEEMod 2022 default electricity usage factors are based on 2019 consumption estimates using the California Energy Commissions' ("CEC's") 2018–2030 Uncalibrated Commercial Sector Forecast and 2019 Residential Appliance Saturation Survey ("RASS").[3] Thus, the CalEEMod 2022 default energy usage rates are based

[1] Page 88 of Appendix B, Technical Appendix for Air Quality and GHG, Sunset Gower Studios Enhancement Plan Draft EIR, 2020 (https://planning.lacity.org/eir/Sunset_Gower_Studios/DEIR/files/App_B.pdf); and Page 321 of Appendix E, Air Quality Data, Paramount Pictures Master Plan Draft EIR, 2011 (https://planning.lacity.org/eir/paramount/deir/files/App_E.pdf).
[2] MBS 2017-2018 utility data (see Confirmatory Air Quality, GHG, and Energy Impacts Analysis in Response to Comments, included in Appendix FEIR-9 of the Final EIR).
[3] CalEEMod 2022 Appendix D, Technical Source Documentation for Emissions Calculations. Available at: https://www.caleemod.com/documents/user-guide/05_Appendix%20D.pdf. Accessed: April 2023.

on 2019 Title 24 standards (applicable to buildings built in 2019), which conservatively do not reflect the age of the existing buildings (which are 50+ years old and less energy efficient in comparison to 2019 standards). As with CalEEMod 2020 default energy usage factors, energy usage for the existing uses would be lower than what would be estimated assuming TVC's 2021 utility data (see Confirmatory Air Quality, GHG, and Energy Impacts Analysis in Response to Comments, included in Appendix FEIR-9 of the Final EIR). As discussed above, this is important since SCAQMD's regional significance threshold represents the incremental change from baseline (existing) conditions in comparison to Project buildout emissions (i.e., Project impact). Thus, use of CalEEMod 2022 to estimate the baseline energy use is conservative in comparison to the use of existing utility data because it results in a lower level of baseline energy use resulting in a larger incremental change in energy use and related emissions caused by the Project than would actually occur from removal of existing uses with use of the utility bills. For informational purposes, the Final EIR calculates energy usage with CalEEMod 2022. The calculation results for electricity and natural gas usage in the Final EIR are presented using the CalEEMod 2022 default factors for general office, production office, retail and restaurant uses. As with the Draft EIR, CalEEMod's strip mall rate is used for production support uses and MBS's sound stage rate is used for sound stage uses. AMA conducted reviews of the calculation parameters and the resulting annual consumption estimates, and confirms that the analysis in the Draft EIR adequately addressed expected energy consumption associated with the Project.

City of Los Angeles Ordinance No. 187,714

As discussed above, subsequent to release of the Draft EIR, the City passed Ordinance No. 187,714 which requires all new buildings to be all electric with some exceptions. For informational purposes, the Final EIR calculates energy usage with implementation of the City's new all-electric Ordinance (see Confirmatory Air Quality, GHG, and Energy Impacts Analysis in Response to Comments, included in Appendix FEIR-9 of the Final EIR). The results are presented with adjustments to CalEEMod to show an all-electric calculation, in accordance with the new Ordinance. The results reflect a conservative estimation of energy consumption consistent with the California Air Pollution Control Officers Association ("CAPCOA") Handbook for Analyzing Greenhouse Gas Emissions Reductions (CAPCOA GHG Handbook).[4] The CAPCOA GHG Handbook provides a methodology to calculate the equivalent electricity usage of an appliance that is normally powered by natural gas, such as clothes dryers, water heaters and space heating. In order to account for the Project's all-electric design, calculations were performed to convert appliances which are typically powered by natural gas to electricity powered. Conversely, the CAPCOA GHG Handbook also assumes some appliances that are typically powered by electricity to be powered by natural gas by default (e.g., refrigeration and air conditioning). As CalEEMod 2022.1 categorizes electricity usage as either Title 24 (e.g., space heating and water heating) versus non-Title 24 (e.g., appliances), a specific conversion for each category provided in the CAPCOA GHG Handbook was not available. Thus, some natural gas categories within the CAPCOA GHG Handbook (e.g., refrigeration) are likely already included as electric within CalEEMod. Thus, AMA confirms that the conversion between natural gas to electricity for these categories within the CAPCOA GHG Handbook would be conservative and overstate the total electricity usage.

Estimated Energy Consumption for Electrical Hookups in Basecamp Areas and Electric Vehicle Charging Station in the Mobility Hub

Electricity usage associated with lighting within the basecamp and the Mobility Hub was accounted for through the CalEEMod analysis of covered parking in the Draft EIR.[5] While existing production activities occasionally require the use of small portable generators when electrical hookups are not available, the Project will provide a sufficient number of

[4] California Air Pollution Control Officers Association (CAPCOA) Handbook for Analyzing Greenhouse Gas Emissions Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity. Appendix C. Table E-15. December 2021.
[5] Page 345 of Appendix B, Air Quality and Greenhouse Gas Emissions, of the Draft EIR.

electrical hookups in basecamp areas such that use of portable generators will not be necessary. A PDF is included in Section III, Revisions, Clarifications, and Corrections to the Draft EIR, of the Final EIR to require the installation of additional electrical hookups at all basecamp areas and provide four EV chargers at the Mobility Hub for future electrical shuttles. This analysis more specifically accounts for these uses in response to comments on the Draft EIR and is conservative as it assumes that all electrical hookups in basecamp areas would be new (i.e., no electrical hookups under existing conditions, which is not the case). The estimated power consumption for each of these Project components is summarized in the chart below. Appendix A includes the typical power load for each of these components. Upon buildout, the Project would have up to 10 concurrent productions on average, and based on the basecamp uses (e.g., make up/wardrobe trailers and catering trucks), along with an applied demand factor that accounts for how the equipment would operate in the basecamp areas, expected power use is shown. The calculation of electricity usage associated with the basecamps is conservative since it assumes that all electrical hookups would be new rather than the incremental change from existing conditions. In addition, Appendix A includes calculations for electric vehicle chargers planned for the Mobility Hub, which include estimated annual consumption using load profiles based on expected user populations.

Table 2 (Energy Use Associated with Project Design Feature GHG-PDF-3 included in Section III, Revisions, Clarifications, and Corrections to the Draft EIR, of the Final EIR)

CATEGORY	ESTIMATED ANNUAL ELECTRIC CONSUMPTION
Basecamp Electrical Hook-up Electric Consumption	819,411 kWh
Mobility Hub EV Chargers Electric Consumption	54,538 kWh

In conclusion, the energy analysis in the Draft EIR was conservative and accounted for the Project's potential energy usage. Accordingly, AMA concurs that the Draft EIR correctly concluded that impacts related to energy would be less than significant. Furthermore, AMA concurs that the Confirmatory Air Quality, GHG, and Energy Impacts Analysis in Response to Comments, included in Appendix FEIR-9 of the Final EIR, confirms the Draft EIR's conclusion that impacts related to energy would be less than significant.

Attached: Appendix A

Appendices

Appendix A

Basecamp and Mobility Hub Electricity Usage

TVC 2050 Project located at 7716-7800 Beverly Boulevard, Los Angeles, CA 90036
Appendix A: Energy Use Associated with Project Design Feature GHG-PDF-3 included in Section III, Revisions, Clarifications, and Corrections to the Draft EIR, of the Final EIR

Equipment Types	*Electrical Connection Type (Amps)*	*Electrical Load Typically Required (Amps)*	*Pieces of Equipment per Production*	*Pieces of Equipment for Project Site (see note 2)*	*Demand Factor*	*Electrical Load (KW)*
Camera Trucks	50	40	1	10	25%	28.8
Set Lighting Trucks	20	16	1	10	25%	11.5
Grip Trucks	20	16	1	10	25%	11.5
Make up Trailers	50	40	1	10	25%	28.8
Wardrobe Trailers	50	40	1	10	25%	28.8
FX Trailers	50	40	1	10	25%	28.8
Cast Trailers	50	40	4.5	45	25%	129.6
Props Trucks	20	16	1	10	25%	11.5
Back-up Electric Generators	N/A	0	2	20	25%	-
Set Dressing Trucks	20	16	1.5	15	25%	17.3
Containers	20	16	1	10	25%	11.5
Stakebeds	20	16	4.5	45	25%	51.8
Pass Vans	N/A	0	4.5	45	25%	-
Catering Trucks	50	40	2	20	25%	57.6
Dump Station	N/A	0	1.5	15	25%	-
Water	N/A	0	1.5	15	25%	-
Van / Shuttle Parking	N/A	0	4.5	45	25%	-
Uber / Lyft Parking	N/A	0	1	10	25%	-
Craft Service	50	40	1	10	25%	28.8
Sub-total Basecamp Equipment						446.40
Basecamp Annual Consumption (See note 3)						819,411 KWH
EV Chargers, Mobility Hub (See note 4)	50 KW			4	15%	30
EV Chargers Annual Consumption (See note 3)						54,538 KWH
Total for added Site Power Needs						**873,949 KWH**
						-

NOTES:

1. Source: Personal Communication, Manhattan Beach Studios, February 2023.

2. This analysis assumes 450,000 SF of sound stages and a total of 10 concurrent productions on average. Manhattan Beach Studios provided the list of equipment requiring an electrical connection, size of electrical connections, and the electricity demand for each type of equipment for a production that would be used in basecamp.

3. Annual consumption was calculated using energy modeling software IES-VE version 2021 along with a profile developed that would match general hours of operations within the basecamp areas and Mobility Hub.

4. It is assumed that each EV charger listed is one EV charging space, at a typical Level 3 charger, each capable of 50 KW for the EV chargers within the Mobility Hub. It is assumed that the shuttles would intermittently charge throughout the day and overnight. However, the shuttles would not require charging for all nighttime hours to reach full charge. Thus, 15% of the time on a daily basis would be representative of the number of hours of charge time for the designated shuttle EV chargers.

TVC 2050 Project

Final EIR

Appendix C-5-Updated LADWP service letter

700 South Flower Street, Suite 2100 Los Angeles, CA 90017 213.418.0201 kpff.com

July 19, 2023

Mr. Marco Maldonado
District Engineer, Metro West Service Planning
Los Angeles Department of Water and Power
111 North Hope Street
Los Angeles, CA 90012

Re: TVC 2050 Project (7716 – 7860 West Beverly Boulevard) – Request for Confirmation that the Estimated Power Requirement for the Proposed Project is Accounted for in Planned Growth of the Los Angeles Department of Water and Power (LADWP) Power System
KPFF Job #2000616

Dear Mr. Maldonado:

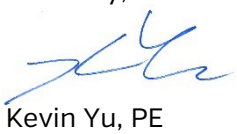
The City of Los Angeles Department of City Planning prepared an Environmental Impact Report (EIR) for the TVC 2050 Project (Project) pursuant to the California Environmental Quality Act (CEQA). A Request for Electrical Services Information was sent to LADWP on June 18, 2021 (Attachment No. 1) in order for LADWP to adequately identify and assess the full range of the Project's potential impacts. LADWP provided a response letter (Will Serve) dated December 7, 2021 (Attachment No. 2) in which LADWP determined that "the estimated power requirement for this project is part of the total load growth forecast for the City and has been taken into account in the planned growth of the power system."

The scope of the Project as identified in Attachment No. 1 has not changed. However, in December 2022, after circulation of the Draft EIR, the City of Los Angeles approved Ordinance No. 187,714 (Ordinance), which became effective on January 23, 2023, and requires all newly constructed buildings to be all electric. Cooking equipment contained within kitchens in a public use area, such as restaurants, commissaries, cafeterias, and community kitchens is exempt as long as electric infrastructure is installed. The Project would comply with this Ordinance. In addition, the Project continues to include electricity use for parking and circulation areas, electrical vehicle (EV) chargers, electrical hookups at basecamp areas that support on-site production activities, and signage.

Based on the City's new Ordinance that will apply to the Project, please confirm LADWP's Will Serve determination, dated December 7, 2021, is still accurate. Please let us know if you require any additional information to make your determination

Thank you for your assistance, as this information will help us ensure that our analysis is accurate and complete. Please feel free to contact me at (213) 418-0201 or via email at kevin.yu@kpff.com to discuss. In order to ensure a timely completion of our analysis, a response from your agency is appreciated (via mail or e-mail) no later than July 28, 2023.

Sincerely,



Kevin Yu, PE
Associate
KPFF Consulting Engineers
(213) 418-0201
kevin.yu@kpff.com

Encl: Request for Electrical Services Information Letter dated June 18, 2021
LADWP Will Serve Letter dated December 7, 2021

700 South Flower Street, Suite 2100 Los Angeles, CA 90017 213.418.0201 kpff.com

June, 18th 2021

Mr. Ralph Jaramillo
Los Angeles Department of Water and Power
111 North Hope Street
Los Angeles, CA 90012

RE: TVC 2050 Project - Request for Electrical Services Information
KPFF Job #2000616

Dear Mr. Jaramillo:

KPFF Consulting Engineers is preparing environmental documentation for the proposed TVC 2050 Project (Project), which would establish the TVC 2050 Specific Plan (Specific Plan) to allow for the modernization and expansion of media production facilities within the approximately 25-acre Television City Studio located at 7716-7860 West Beverly Boulevard in Los Angeles, California (Project Site). The proposed Specific Plan would permit a total of up to approximately 1,874,000 square feet of sound stage, production support, production office, general office, and retail uses within the Project Site upon buildout, as well as associated circulation improvements, parking, landscaping, and open space.[1] More specifically, the Specific Plan would permit approximately 1,626,180 square feet of new development, the retention of an estimated 247,820 square feet of existing uses, and the demolition of up to approximately 495,860 square feet of existing media production facilities. The designated Historic-Cultural Monument (HCM; CHC-2018-476-HCM) located on-site would be retained. The Project is intended to allow the iconic Television City property–the first large-scale facility designed specifically for television production–to meet the evolving physical and technological demands of the entertainment industry and thus preserve the studio's role in sustaining a core business sector and employment generator in the City.

[1] Per the proposed TVC 2050 Specific Plan, all floor area numbers are defined in accordance with LAMC 12.03 T, with the following exemptions: the Mobility Hub, base camp uses, outdoor eating areas (covered or uncovered), trellis and shade structures, covered storage areas; covered walkways and circulation areas (including the existing marquee structure); and all temporary uses including sets/façades, etc. The proposed approximately 1.874 million square feet of floor area per the Specific Plan definition is equivalent to approximately 1.984 million square feet based on the LAMC definition and approximately 2.103 million gross square feet.

Overall proposed uses are summarized in Table 1, Project Development Summary.

Table 1: Project Development Summary

Land Use	Amount
Sound Stages (for Film and TV)	350,000 square feet
Production Support	104,000 square feet
Production Office	700,000 square feet
General Office	700,000 square feet
Retail	15,000 square feet
Restaurant (5,000 sf)	334 seats

Potential impacts to public services are an important element of our study, and our analysis strongly relies on your assistance in identifying potentially significant impacts to the water and electricity services that may occur as a result of the project, as well as any mitigation measure(s) that may reduce or eliminate these impacts. Any assistance that you can provide with addressing the following questions would be greatly appreciated.

Service Questions

Electrical

1. Please describe the size, length, and direction of existing electrical lines that would serve the project site and surrounding area.
2. Would any additional electrical lines serve the project site? If so, please list these lines.
3. Are there any existing electrical service problems/deficiencies in the project area?
4. If electrical service problems/deficiencies exist, how would they affect the project, and how would you suggest those effects be mitigated by the project developer?
5. Would there be a disruption in electrical service in the project area when “hooking-up” the project? If so, about how long would the disruption last?
6. Would the Los Angeles Department of Water and Power (LADWP) be able to accommodate the project’s demand for electrical service and the existing infrastructure in the project area?
7. If not, what new infrastructure or upgrades to infrastructure would be needed to meet the project’s demand for electrical service?
8. Would the LADWP be able to accommodate the project’s demand for electrical power with the existing available utility infrastructure?

9. In order to predict the project's future demand of electrical power please provide recommended electrical demand growth rates.

10. Please provide any recommendations that might reduce any potential electrical impacts that would be associated with the project.

Thank you for your assistance in responding to these questions. Your responses will help us ensure that our analysis is accurate and complete. In order to ensure a timely completion of our analysis, please provide your response (preferred via e-mail) no later than **July 22, 2021.** If you have any questions, please call me at (213) 587-7105. You may also reach me by e-mail at charlotte.harrop@kpff.com.

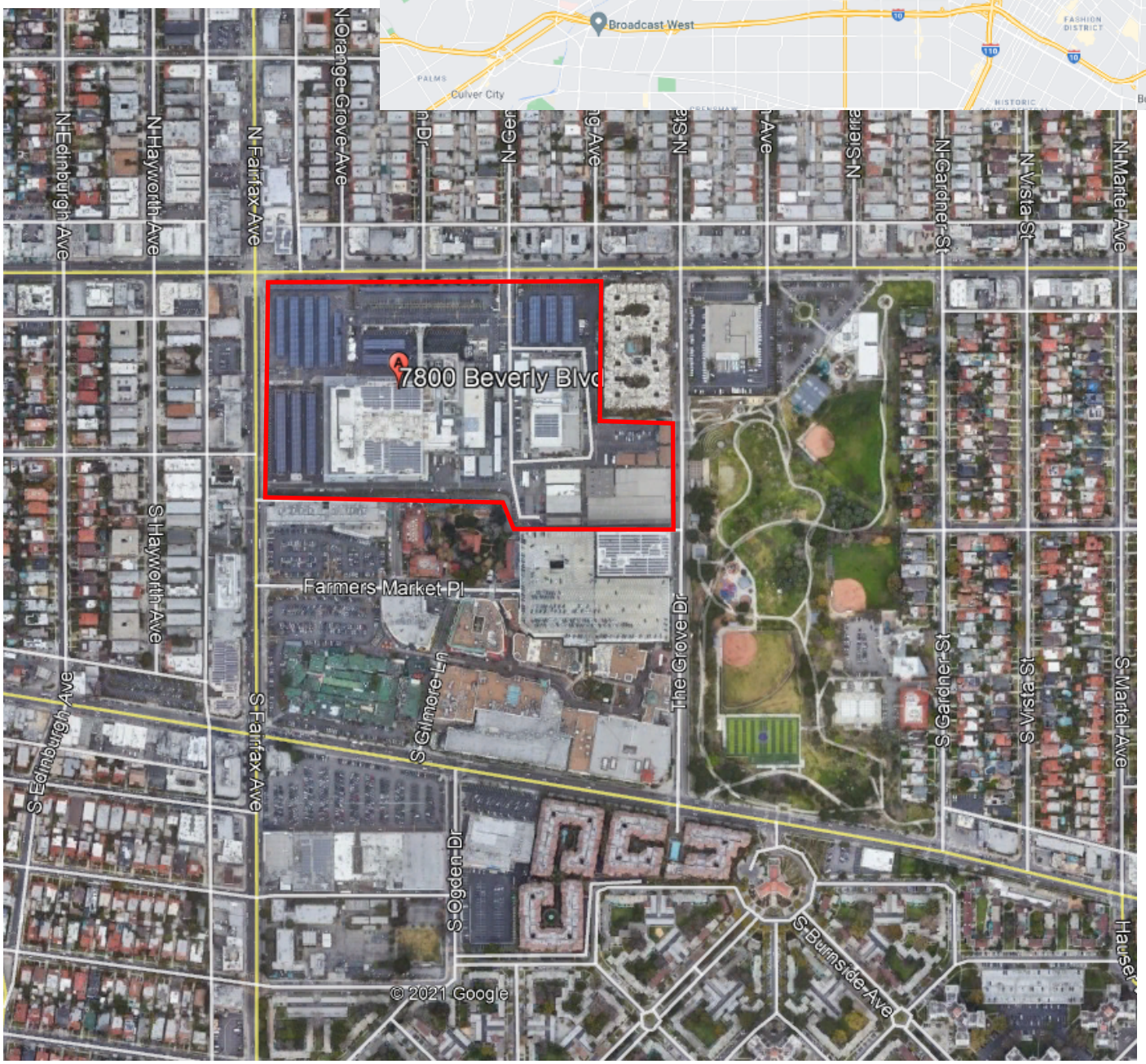
Sincerely,

Charlotte Harrop
Project Engineer

Attachment

Google Earth - Vicinity Map





Television City - 7800 Beverly Blvd

N

Los Angeles Department of Water & Power

BUILDING A STRONGER L.A.

Eric Garcetti, Mayor

Board of Commissioners
Cynthia McClain-Hill, President
Susana Reyes, Vice President
Jill Banks Barad-Hopkins
Mia Lehrer
Nicole Neeman Brady
Yvette L. Furr, Acting Secretary

Martin L. Adams, General Manager and Chief Engineer

December 7, 2021

Ms. Charlotte Harrop
KPFF
700 S Flower St, Suite 2100
Los Angeles, CA 90017

Dear Ms. Harrop:

Subject: Will Serve
7800 Beverly Blvd, Los Angeles, CA - Commercial Building

This is in response to your letter dated on December 7, 2021 regarding electric service for the proposed project at the above address.

Electric service is available and will be provided in accordance with the Department of Water and Power Rules and Regulations. The estimated power requirement for this proposed project is part of the total load growth forecast for the City and has been taken into account in the planned growth of the power system.

If you have any questions regarding this matter, please call Mr. Victor Perez, at (213) 367-6231.

Sincerely,

Marco Maldonado/AV

Marco Maldonado
District Engineer, Metro West Service Planning

c: Victor Perez

Los Angeles Department of Water & Power

BUILDING A STRONGER L.A.

Karen Bass, Mayor

Board of Commissioners
Cynthia McClain-Hill, President
Nicole Neeman Brady, Vice President
Nurit Katz
Mia Lehrer
George S. McGraw
Chante L. Mitchell, Secretary

Martin L. Adams, General Manager and Chief Engineer

July 28, 2023

Kevin Yu
KPFF
700 South Flower Street, Suite 2100
Los Angeles, CA 90017

Dear Yu:

Subject: Will Serve
7716-7860 Beverly Bl - Commercial Building - TVC 2050 Project

This is in response to your letter dated on July 19, 2023 regarding electric service for the proposed project at the above address.

Electric service is available and will be provided in accordance with the Department of Water and Power Rules and Regulations. The estimated power requirement for this proposed project is part of the total load growth forecast for the City and has been taken into account in the planned growth of the power system.

If you have any questions regarding this matter, please call Mr. Milton Turner, at (818) 771-3510.

Sincerely,

Marco Maldonado/AV

Marco Maldonado
District Engineer, Metro West Service Planning

c: Milton Turner

TVC 2050 Project

Final EIR

Appendix C-6-Methane Mitigation System Memo

Geosyntec consultants

Memorandum

Date:	15 November 2022
To:	Eyestone Environmental
From:	Fabiana Arriaga, Andy Simons, Rich Kraft, Geosyntec Consultants, Inc.
Subject:	Response to Comments Regarding Methane Mitigation System Design

Geosyntec Response:
The Site is located within the City of Los Angeles Methane Zone and therefore, is required to comply with the City of Los Angeles Methane Mitigation Standards[1] (Methane Code), which stipulates Methane Mitigation System (MMS) design level that corresponds to the concentration and pressure of methane present at the Site. Based on methane concentrations for the Site of up to 90.7 percent by volume (%vol) measured during the limited Phase II investigation[2], an MMS design level V is assumed for all new structures.

Furthermore, for existing buildings located within a methane zone, additions, alterations, repairs, changes of use, or changes of occupancy must comply with the methane mitigation requirements of LAMC Sections 91.7104.1 and 91.7104.2, when required by LAMC Chapter IX, Article 1, Divisions 81 or 82.

Methane Mitigation System

Typically, an MMS level V design for sites located within the Methane Zone comprises passive and active systems, pavement venting, and miscellaneous systems as summarized below.

MMS Passive System Components:

- Sub-Slab Venting System, which consists of:
    - Perforated horizontal pipes minimum Schedule 40, slotted or perforated polyvinyl chloride (PVC) pipe, with spacing based on vent riser pipe diameter. Perforated

[1] Los Angeles Municipal Code (LAMC) Building Code, Division 71 Methane Seepage Regulations.

[2] Geosyntec, 2018. Limited Phase II Site Investigation Report, 7800 Beverly Boulevard, Los Angeles, California. 7 November 2018.

pipes will be placed in trenches and surrounded by a minimum of 4 inches of gravel with gradation specified in the City of Los Angeles Methane Hazard Mitigation Standard Plans (Standard Plans).
    - Gravel blanket installed to a minimum 4-inch thickness with gradation specified in the Standard Plans, overlaid by a protection geotextile layer.
    - Vent risers connected to the perforated horizontal pipes and constructed of cast iron. Vent riser spacing, based on vent riser pipe diameter and building area, termination outlets and clearances will be in accordance with the Standard Plans.
- Impervious membrane, which will be a product approved by the LADBS Engineering Research Section with a valid Los Angeles Research Report (LARR) number. Impervious membrane will be installed over the protection geotextile, under the building slab, along below grade walls, around elevators and sump pits, tied into foundations and booted around pipes. Impervious membrane upper protection layer will consist of 2 inches of sand or 1-inch-thick lean concrete mix.
- Dewatering System, which will not be required if: (i) the historical high groundwater table elevation is 12 inches below the lowest perforated horizontal pipe of the sub-slab venting system; (ii) during site testing, the groundwater level is 10 feet below the perforated horizontal pipe of the sub-slab venting system; or (iii) based on site investigation, LADBS approves that groundwater level is more than 12 inches below the bottom of perforated horizontal pipe of the sub-slab venting system. Groundwater at the Site was encountered at depths ranging from 10 to 24 feet below ground surface (ft bgs) per the Phase II investigation[3]; therefore, a dewatering system may not be required for slab-on-grade structures.

MMS Active System Components:

- Sub-slab mechanical extraction system, which will consist of gas extraction powered devices (e.g., fans, blowers) to exhaust or provide makeup air into sub-slab gravel blanket.
- Gas detection system, which will consist of automated methane gas sensors in vent risers, and in the lowest occupied space (e.g., minimum of 1 per room, multiple per room based on room size), and a control panel.
- Alarm system, which will consist of audible and visual signals to notify occupants of significant levels of methane intrusion into the building and shall be distinctively different from the fire alarm system. Mechanical ventilation, control panel warning annunciator, and

[3] Geosyntec, 2018. Limited Phase II Site Investigation Report, 7800 Beverly Boulevard, Los Angeles, California. 7 November 2018. Included in Appendix G of Draft EIR.

audible and visual alarms will be activated if methane is detected at concentrations higher than thresholds specified in the Methane Code.

- Mechanical ventilation of the lowest occupied space, which can operate under one of the following operating modes: (i) Activated Mechanical Ventilation: The heating, ventilation, and air conditioning (HVAC) system removes accumulated methane at a rate of 4 air changes per hour (ACH) when activated by the gas detection system after alarm levels have been exceeded. Back-up power is not required for this option; (ii) Continuous Ventilation: The HVAC system is sized to ventilate the lowest occupied space at a rate of 1 ACH on a continuous basis. Mechanical ventilation for this option shall have 24-hour backup power when automated methane gas sensors are not provided; or (iii) Scheduled Start-up Ventilation: The HVAC system shall start-up at least once every 6 hours to provide a minimum of 24 air changes per day (ACD). Mechanical ventilation for this option shall have 24-hour backup power when automated methane gas sensors are not provided.

Paved Areas Venting

In accordance with the Methane Code, paved areas greater than 5,000 continuous square feet are required to have vents spaced no farther apart than every 100 feet. Alternatively, natural ventilation of the building perimeter can consist of landscaping which is at least 2 feet wide and covering at least 80 percent of the buildings' perimeter.

MMS Miscellaneous Components

- Trench dams comprised of low-permeability fill limiting methane migration through bedding materials are required for utilities entering the building footprint;
- Dry utility conduits are required to be sealed within the conduit to minimize migration;
- Electrical wiring hazard area classification is based on the wiring location and methane design level; and
- A notification placard is required to indicate the presence of the impervious membrane either at the front of the building or cast into the structure's floor. Either location is required to be conspicuous and uncovered. The letter is required to be legible from 10-ft away with a minimum height of 1-inch. Signage in a conspicuous location (as designated by the fire department) is also required to be mounted with the fire department's phone number.

Alternate Design for Below-Grade Parking Structure

Based on the groundwater level at the Site (i.e., approximately 10 to 24 feet ft bgs[4]), a portion of the proposed below-grade parking structure can be assumed to extend below the groundwater level. This condition will require an alternate MMS design excluding sub-slab venting and mechanical extraction components. In lieu of sub-slab components, the impervious membrane would be overlaid by the parking structure mat slab designed with a minimum 1 percent slope toward the perimeter of the parking structure to promote methane migration from the subgrade along the below grade walls. Additionally, the impervious membrane would consist of: (i) a dual-purpose waterproofing and methane barrier; or (ii) a waterproofing barrier and a methane barrier (2 layers). The alternate MMS design would include gas detection and alarm systems and mechanical ventilation per the Methane Code. Approval of the proposed alternate MMS design shall be provided by LADBS through a modification request process.

Limitations

This document was prepared by the staff of Geosyntec. The findings or professional opinions were prepared in accordance with generally accepted professional engineering and geologic practice. The conclusions contained in this document are based solely on the analysis of the conditions as observed by Geosyntec personnel and as reported by other named sources at the time the work was performed.

No warranty, expressed or implied, is made regarding the professional opinions expressed in this document or concerning the completeness of the data presented to us. If actual conditions are found to differ from those described in this document or if new information regarding the Site is obtained, Geosyntec should be notified and additional recommendations, if required, will be provided. This Report is prepared solely for the benefit of Television City Studios, LLC. Third parties do not have the right to rely on this Report without the written agreement of Geosyntec, which shall be subject to appropriate terms and conditions.

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[4] Geosyntec (2018). Limited Phase II Site Investigation Report, 7800 Beverly Boulevard, Los Angeles, California. 7 November 2018. Included in Appendix G of Draft EIR.

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