

CATEGORICAL EXEMPTION AND ENVIRONMENTAL ASSESSMENT

**EASTERN AVENUE TOWNHOMES
7826 EASTERN AVENUE
BELL GARDENS, CALIFORNIA 90201**



LEAD AGENCY:

**CITY OF BELL GARDENS
COMMUNITY DEVELOPMENT DEPARTMENT, PLANNING DIVISION
7100 GARFIELD AVENUE
BELL GARDENS, CALIFORNIA 90201**

REPORT PREPARED BY:

**BLODGETT BAYLOSIS ENVIRONMENTAL PLANNING
2211 S. HACIENDA BOULEVARD, SUITE 107
HACIENDA HEIGHTS, CALIFORNIA 91745**

JUNE 23, 2026

BELG 008

THIS PAGE HAS BEEN INTENTIONALLY LEFT BLANK.

TABLE OF CONTENTS

CATEGORICAL EXEMPTION	5
1.0 INTRODUCTION	7
2.0 PROJECT LOCATION	7
3.0 ENVIRONMENTAL SETTING	7
<i>Table 1 Environmental Setting</i>	<i>8</i>
<i>Exhibit 1 Regional Map</i>	<i>9</i>
<i>Exhibit 2 Citywide Map</i>	<i>10</i>
<i>Exhibit 3 Local Map</i>	<i>11</i>
<i>Exhibit 4 Aerial Photograph</i>	<i>12</i>
<i>Exhibit 5 On-Site Photographs</i>	<i>13</i>
4.0 PROJECT DESCRIPTION	14
<i>Table 2 Description of New Buildings</i>	<i>15</i>
<i>Exhibit 6 Site Plan</i>	<i>16</i>
<i>Exhibit 7 Building 1 Elevations</i>	<i>17</i>
<i>Exhibit 8 Building 1 Elevations</i>	<i>18</i>
<i>Exhibit 9 Building 2 Elevations</i>	<i>19</i>
<i>Exhibit 10 Building 2 Elevations</i>	<i>20</i>
<i>Exhibit 11 Building 3 Elevations</i>	<i>21</i>
5.0 CATEGORICAL EXEMPTION FINDINGS	22
FINDING 5.1 - LAND USE COMPATIBILITY (CEQA SECTION 15332 (A)	23
<i>Table 3 Development Standards for MU Zone</i>	<i>23</i>
FINDING 5.2 - PROJECT SITE SIZE (CEQA SECTION 15332 (B)	24
FINDING 5.3 - HABITAT VALUE (CEQA SECTION 15332 (C)	24
FINDING 5.4 - SIGNIFICANT EFFECTS (TRAFFIC, NOISE, AIR, PUBLIC SERVICES AND UTILITIES) (CEQA SECTION 15332 (D)	25
<i>Table 4 Project Trip Generation</i>	<i>25</i>
<i>Table 5 Noise Measurement Results</i>	<i>29</i>
<i>Table 6 Construction Noise</i>	<i>30</i>
<i>Table 7 Construction Vibration</i>	<i>30</i>
<i>Table 8 Estimated Daily Construction Emissions (lb/day)</i>	<i>32</i>
<i>Table 9 Estimated Operational Emissions (lb/day)</i>	<i>32</i>
<i>Table 10 Local Significance Thresholds Exceedance SRA 5 for 1-acre sites</i>	<i>33</i>
FINDING 5.5 - SIGNIFICANT EFFECTS ON UTILITIES AND PUBLIC SERVICES (CEQA SECTION 15332 (E)	34
<i>Table 11 Projected Effluent Generation (in gallons/day)</i>	<i>35</i>
<i>Table 12 Projected Water Consumption (in gallons/day)</i>	<i>35</i>
<i>Table 13 Projected Solid Waste Generation (in pounds [lbs]/day)</i>	<i>36</i>
FINDING 5.6 - SIGNIFICANT EFFECTS RELATED TO INFILL DEVELOPMENT PROJECTS CEQA SECTION 15300.2.	38
FINDING 5.6.4. - CORTESE LISTING	39
FINDING 5.6.5. - HISTORIC RESOURCES	40

APPENDICES (UNDER A SEPARATE COVER)

Appendix A – Air Quality Worksheets
Appendix B – Noise Measurements
Appendix C – Utilities Worksheet

THIS PAGE HAS BEEN INTENTIONALLY LEFT BLANK.

CATEGORICAL EXEMPTION

TO: Los Angeles County Registrar Recorder
Los Angeles County Clerk, Main Office
12400 Imperial Highway
Norwalk, California 90650

FROM: City of Bell Gardens
Community Development Department.
7100 Garfield Avenue
Bell Gardens, California 90201

ADDRESS: 7826 Eastern Avenue, Bell Gardens, California, 90201.

CITY/COUNTY: City of Bell Gardens, Los Angeles County.

APPLICANT: Steven Senemar, SLSS Investment LLC, P.O. Box 577, Yorba Linda, California 92885.

PROJECT: The City of Bell Gardens, in its capacity as a Lead Agency, is reviewing an application construct 20 townhome units and 2 ADU units within a 0.54-acre site. The site was formerly occupied by two single-family detached homes and a four-plex building. These existing onsite improvements have been demolished to accommodate the proposed development. The proposed project would involve the construction of 20 townhome units and two accessory dwelling units (ADUs). The 20 townhome units would be housed in two, three-story 13,054 square foot buildings (referred as *Building 1* and *Building 2*) that would contain 10 units in each of the buildings. Buildings 1 and 2 each would contain eight standard units and two low-income units. The two ADUs would be located in *Building 3*. The development's floor area ratio (FAR) is 1.20. The project would provide 430 square feet of common open space and an 82 square foot balcony per standard unit and a 75 square foot porch per low-income unit. The total landscaped area would be 3,397 square feet. A total of 21 parking spaces would be provided.

EXEMPTION: The project qualifies as exempt pursuant to CEQA Guidelines Section 15332 (Class 32 Infill Development Exemption).

STATUS: ☐ Ministerial (Section 21080 (b)(1); (Section No. _____));
☐ Declared Emergency (Section 21080 (b)(3); (Section No. _____));
☐ Emergency Project (Section 21080 (b)(4); (Section No. _____));
☐ Statutory Exemption (Section No. _____);
☒ Categorical Exemption Section No. 15332, Infill Exemption.
☐ The activity is not subject to CEQA (Section No. _____);
☐ Other.

CITY CONTACT _____

City of Bell Gardens Community Development Department
7100 Garfield Avenue
Bell Gardens, California. 90201

Signature _____ Date: _____

THIS PAGE HAS BEEN INTENTIONALLY LEFT BLANK.

1.0 INTRODUCTION

The City of Bell Gardens, in its capacity as a Lead Agency, is reviewing an application to construct 20 townhome units and 2 ADU units within a 0.54-acre site. The site was formerly occupied by two single-family detached homes and a four-plex building. These existing onsite improvements have been demolished to accommodate the proposed development. The proposed project would involve the construction of 20 townhome units and two accessory dwelling units (ADUs) within the site.¹

Pursuant to the California Environmental Quality Act (CEQA) Guidelines, a Notice of Exemption (NOE) may be filed if the City of Bell Gardens, in its capacity as the Lead Agency for the proposed project, determines that the proposed project is exempt from CEQA. According to the CEQA Guidelines, a NOE must contain the following information:

- A description of the proposed action or project;
- A finding that the proposed action or project is exempt, including a citation of the State CEQA Guidelines section or statute under which the project is found to be exempt; and,
- A brief statement in support of the finding.²

The analyses of potential impacts that support the Categorical Exemption's (CE's) findings are provided herein in Section 5.0, Findings Supporting the Applicable CEQA Exemption. This CE and the supporting environmental analysis represent the City's independent judgment and the position of the City of Bell Gardens, in its capacity as the Lead Agency.

2.0 PROJECT LOCATION

The project site is located within the City of Bell Gardens at 7826 Eastern Avenue. The project site is located in the southwest portion of the City of Bell Gardens, on the east side of Eastern Avenue approximately 467 feet north of Jaboneria Road. The City of Bell Gardens is located approximately eight miles southeast of downtown Los Angeles and is bounded by the cities of Cudahy and Bell on the west, Commerce to the north, South Gate to the south, and Downey to the south and east. The location of the City of Bell Gardens in a regional context, is shown in Exhibit 1. A citywide map is provided in Exhibit 2 which indicates the site's location in the City. The project site's latitude and longitude are 33°57'40.2"N; -118°9'55.09"N. The site's legal address is 7826 Eastern Avenue. The assessor's parcel number (APN) is 6227-017-009. A local map is provided in Exhibit 3. An aerial photograph of the project site is shown in Exhibit 4.

3.0 ENVIRONMENTAL SETTING

The site was previously occupied by two single-family detached homes and a four-plex building. These existing onsite improvements were demolished to accommodate the proposed development. The first single-family unit located at 7828 Eastern Avenue had a total floor area of 714 square feet. The second single-family unit located at 7826 Eastern Avenue had a total floor area of 984 square feet. Finally, the four-plex building located at 7830 Eastern Avenue had a total floor area of 1,584 square feet. These onsite improvements have

¹ Residential Design & Creative Solutions (RDCS). *Architectural Package 7826 Eastern Avenue, Bell Gardens, CA*. January 6, 2025.

² CEQA Guidelines California Code of Regulations, Title 14, Division 6, Chapter 3, Article 19. Categorical Exemptions. (Section 15332).

been demolished. Photographs of the site are shown in Exhibit 5. The surrounding land uses include the following:

- *North of the Site:* A multiple family development is located to the north of the site (7816-7820 Eastern Avenue). This area is zoned as *Mixed Use Commercial Residential (MU)* and the General Plan designation is *Mixed Use Commercial Residential (MU)*.³
- *South of the Site:* A multiple family development is located to the south of the site (7813-7817 and 7830 Eastern Avenue). This area is zoned as *Mixed Use Commercial Residential (MU)* and the General Plan designation is *Mixed Use Commercial Residential (MU)*.⁴
- *West of the Site:* The Eastern Avenue right-of-way (ROW) extends along the project site's west side. Various commercial and residential uses are located further west, along the west side of Eastern Avenue. Gotham Street extends west from Eastern Avenue opposite to the project site. This area is zoned as *Mixed Use Commercial Residential (MU)* and the General Plan designation is *Mixed Use Commercial Residential (MU)*.⁵
- *East of the Site:* Multiple-family development is located to the east of the site. This area is zoned as *High Density Residential (R-3) with a parking overlay* and the General Plan designation is *Mixed Use Commercial Residential (MU)*.⁶

The environmental setting of the project site and the surrounding area are summarized in Table 1.

TABLE 1 ENVIRONMENTAL SETTING

Location	Existing Use	Zoning Designations	GP Designations
Project Site	Vacant	Mixed Use Comm. Resid. (MU)	Mixed Use Comm. Resid. (MU)
North of the Site	Multiple-Family Residential	Mixed Use Comm. Resid. (MU)	Mixed Use Comm. Resid. (MU)
South of the Site	Multiple-Family Residential	Mixed Use Comm. Resid. (MU)	Mixed Use Comm. Resid. (MU)
West of the Site	Eastern Ave.	Mixed Use Comm. Resid. (MU)	Mixed Use Comm. Resid. (MU)
East of the Site	Multiple-Family Residential	High Density Resid. (R3)	Mixed Use Comm. Resid. (MU)

Source: Blodgett Baylosis Environmental Planning and City of Bell Gardens

³ City of Bell Gardens. General Plan Map and Zoning Map. Website accessed on June 17, 2026

⁴ Ibid.

⁵ Ibid.

⁶ Ibid.

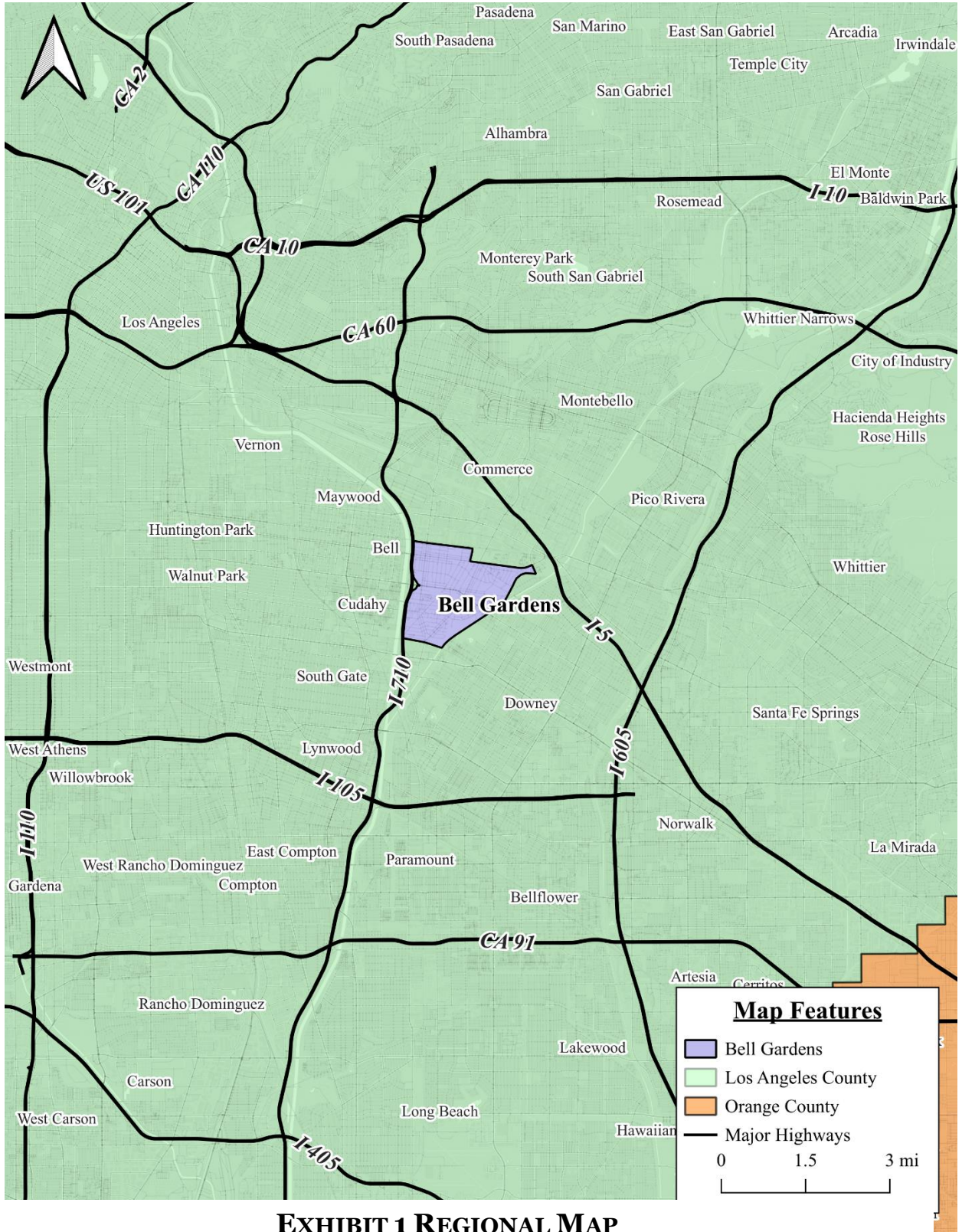


EXHIBIT 1 REGIONAL MAP
Source: Blodgett Baylosis Environmental Planning

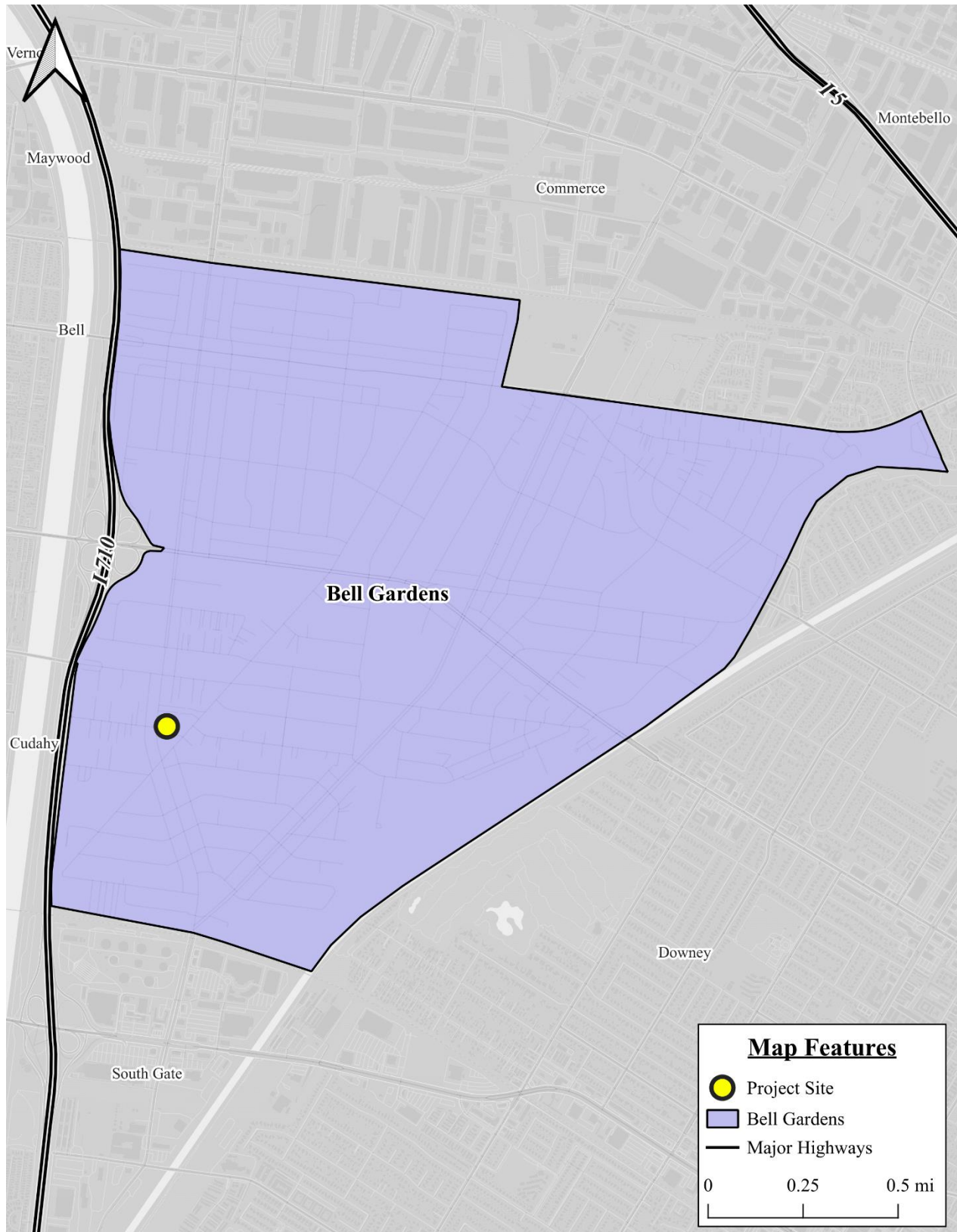


EXHIBIT 2 CITYWIDE MAP
Source: Blodgett Baylosis Environmental Planning

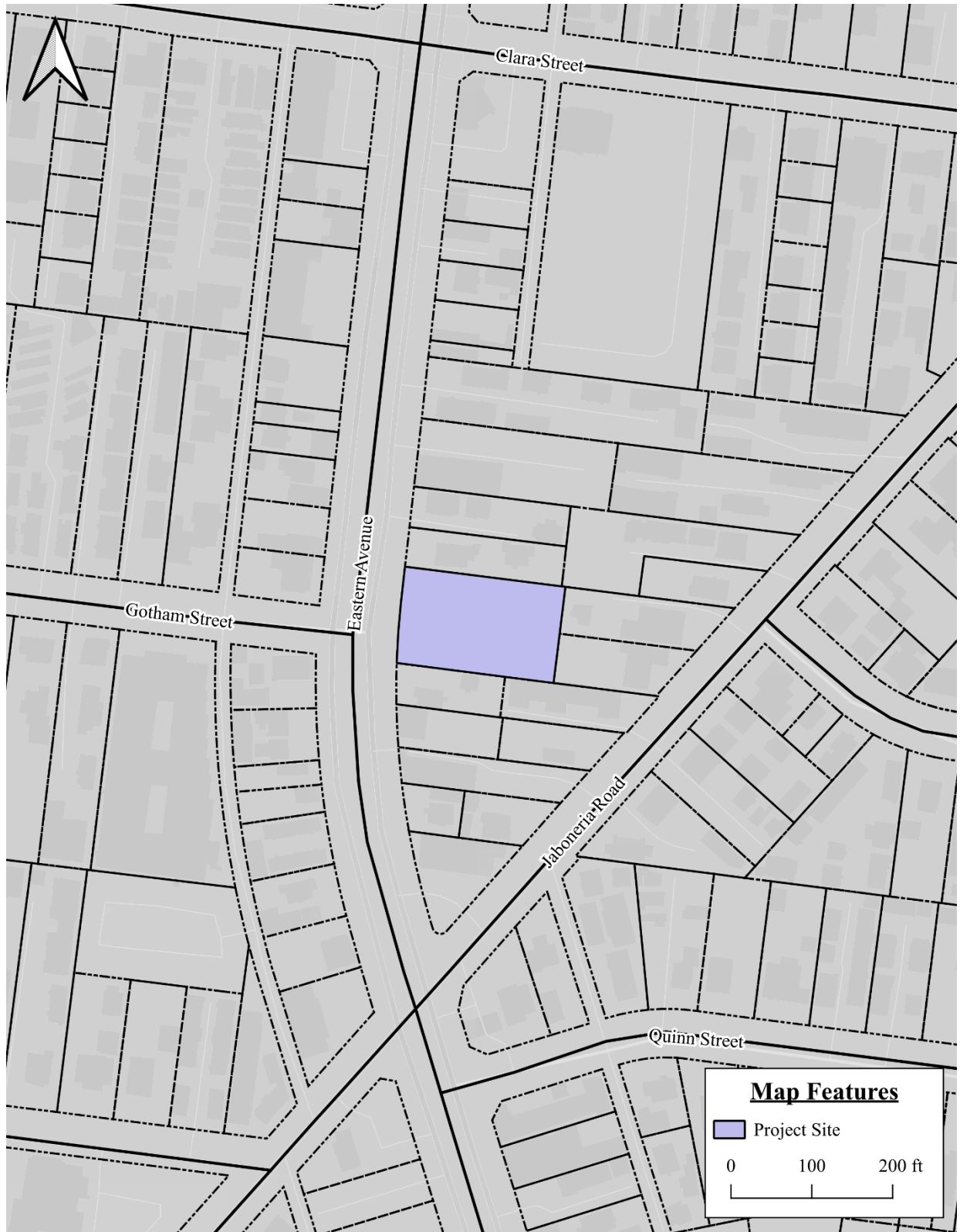


EXHIBIT 3 LOCAL MAP
Source: Blodgett Baylosis Environmental Planning

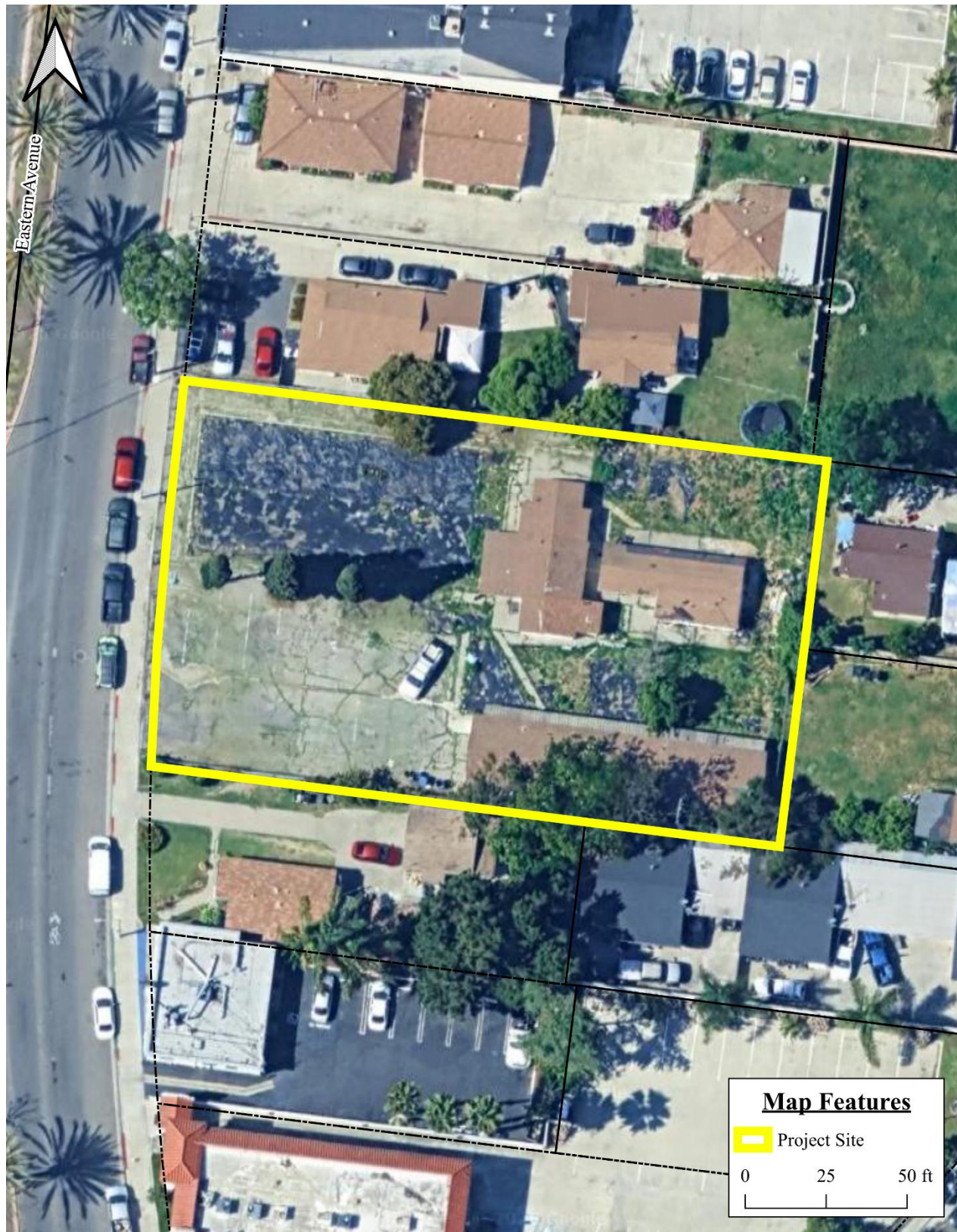


EXHIBIT 4 AERIAL PHOTOGRAPH
Source: Google Maps



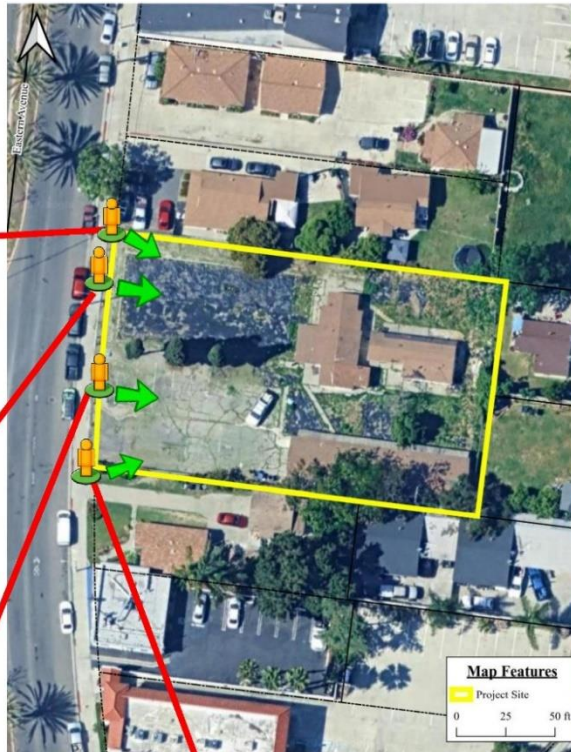
Picture A



Picture B



Picture C



Picture D

EXHIBIT 5 ON-SITE PHOTOGRAPHS

Source: Blodgett Baylosis Environmental Planning

4.0 PROJECT DESCRIPTION

The site was formerly occupied by two single-family detached homes and a four-plex building. These existing onsite improvements have already been demolished to accommodate the proposed development. The proposed project would involve the construction of 20 townhome units and two accessory dwelling units (ADUs) within the site.⁷ The key project elements are summarized below:

- *Site Plan.* The proposed project would involve the construction of 20 townhome units and two accessory dwelling units (ADUs) within the 23,518 square foot (0.54-acre) site. The 20 townhome units would be housed in two buildings (referred as *Building 1* and *Building 2*) that would contain 10 units in each of the buildings. The two ADUs would be located in *Building 3*. Building 3 would also contain the recreation rooms. The development's floor area ratio (FAR) is 1.20.⁸ The total landscaped area would be 3,397 square feet.
- *New Buildings 1 and 2.* These new residential buildings would each contain 10 townhome units, including two low-income units. The building would consist of three levels with two low-income units and enclosed garage spaces on the ground level, four units on the second level, and four units on the third level. Each unit will contain two bedrooms and a great room. The total floor area of Buildings 1 and 2 would be 26,108 square feet. The maximum height of Buildings 1 and 2 would be 36 feet, 2-inches.
- *New Building 3.* This new two story building would contain the two ADU units and the recreation room. Building 3 would consist of two levels with a maximum height of 26 feet, 1-inch. The lower level would contain recreation rooms and storage space. The second level would contain the two, one-bedroom ADU units. Each unit would have a floor area of 617 square feet. Each recreation room would have a floor area of 552 square feet for a total of 1,104 square feet. The floor area of Building 3 would be 2,208 square feet.
- *Amenities.* This new development would include two, one-level 552 square foot recreation rooms on the ground floor of Building 3. Each unit within Building 1 and 2 would have its own balcony/porch.⁹ The project includes 430 square feet of common open space and an 82 square foot balcony per standard unit and a 75 square foot porch per low-income unit.
- *Parking and Access.* The proposed project would provide a total of 21 parking spaces including 16 enclosed spaces for residents and five uncovered spaces. Buildings 1 and 2 would each contain four 2-car garages shared between the units located directly above on the second and third floors. The low-income units do not have an enclosed space. In addition, one uncovered ADA space would be provided. The uncovered stalls are located to the rear of the site. Access to the project site would be provided by a driveway located on the east side of Eastern Avenue. This new driveway would have a width of 26-feet, 5-inches and would provide both an ingress and egress lane.

⁷ Residential Design & Creative Solutions (RDCS). *Architectural Package 7826 Eastern Avenue, Bell Gardens, CA*. January 6, 2025. 2023.

⁸ Ibid.

⁹ Ibid.

The characteristics of the project are summarized in Table 2.

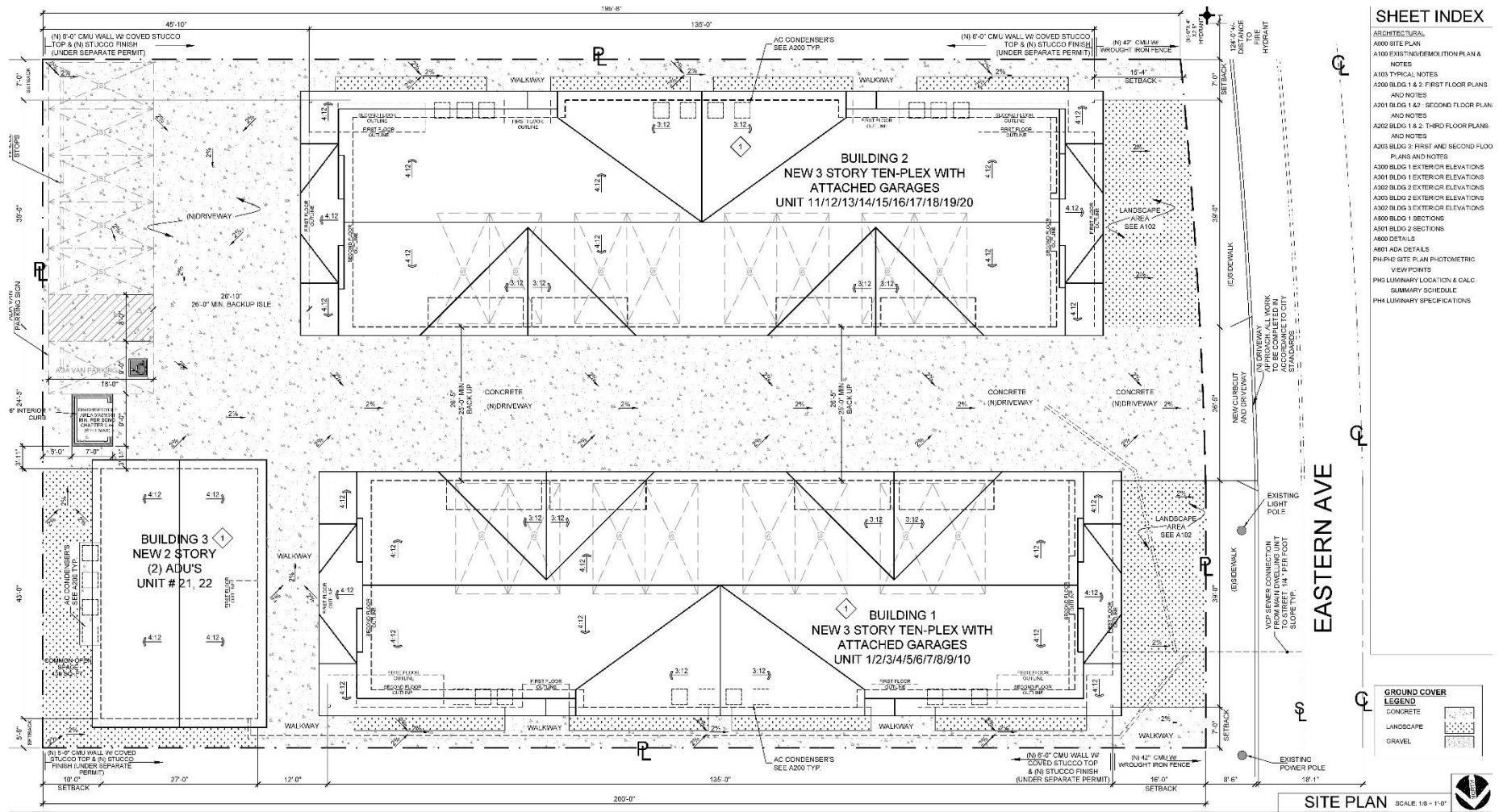
TABLE 2 DESCRIPTION OF NEW BUILDINGS

Building Type	Unit	Description
Building 1	Unit 1	low income, 637 sq. ft., 75 sq. ft. porch
	Unit 2	low income, 637 sq. ft., 75 sq. ft. porch
	Unit 3	1,740 sq. ft., 82 sq. ft. balcony
	Unit 4	1,876 sq. ft., 82 sq. ft. balcony
	Unit 5	1,876 sq. ft., 82 sq. ft. balcony
	Unit 6	1,740 sq. ft., 82 sq. ft. balcony
	Unit 7	1,740 sq. ft., 82 sq. ft. balcony
	Unit 8	1,876 sq. ft., 82 sq. ft. balcony
	Unit 9	1,876 sq. ft., 82 sq. ft. balcony
	Unit 10	1,740 sq. ft., 82 sq. ft. balcony
Building 2	Unit 11	low income, 637 sq. ft., 75 sq. ft. porch
	Unit 12	low income, 637 sq. ft., 75 sq. ft. porch
	Unit 13	1,740 sq. ft., 82 sq. ft. balcony
	Unit 14	1,876 sq. ft., 82 sq. ft. balcony
	Unit 15	1,876 sq. ft., 82 sq. ft. balcony
	Unit 16	1,740 sq. ft., 82 sq. ft. balcony
	Unit 17	1,740 sq. ft., 82 sq. ft. balcony
	Unit 18	1,876 sq. ft., 82 sq. ft. balcony
	Unit 19	1,876 sq. ft., 82 sq. ft. balcony
	Unit 20	1,740 sq. ft., 82 sq. ft. balcony
Building 3	Unit 21	ADU unit, 552 sq. ft.
	Unit 22	ADU unit, 552 sq. ft.
	Rec Room	1,104 sq. ft.

Source: Residential Design & Creative Solutions (RDSCS).

The proposed site plan is shown in Exhibit 6. Building elevations are provided in Exhibits 7 through 11.

**CITY OF BELL GARDENS CATEGORICAL EXEMPTION & ENVIRONMENTAL ASSESSMENT
EASTERN AVENUE TOWNHOMES • 7826 EASTERN AVENUE • BELL GARDENS, CALIFORNIA**

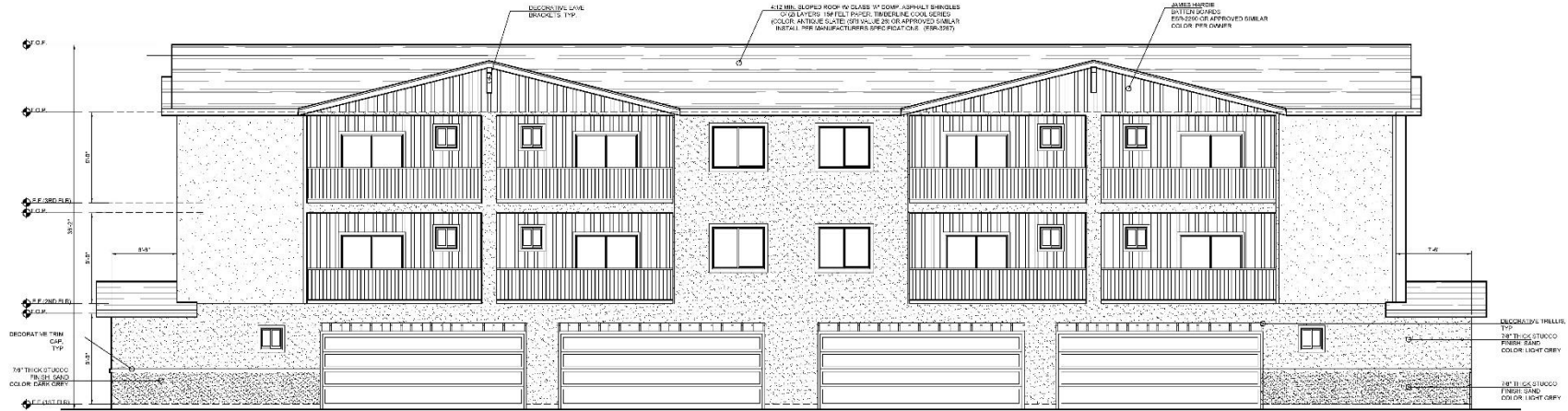


SHEET INDEX

ARCHITECTURAL
A000 SITE PLAN
A100 EXISTING/DEMOLITION PLAN & NOTES
A200 BLDG 1 & 2 FIRST FLOOR PLANS AND NOTES
A301 BLDG 1 & 2 SECOND FLOOR PLANS AND NOTES
A302 BLDG 1 & 2 THIRD FLOOR PLANS AND NOTES
A303 BLDG 3 FIRST AND SECOND FLOOR PLANS AND NOTES
A300 BLDG 1 EXTERIOR ELEVATIONS
A301 BLDG 2 EXTERIOR ELEVATIONS
A302 BLDG 3 EXTERIOR ELEVATIONS
A300 BLDG 1 SECTIONS
A301 BLDG 2 SECTIONS
A302 BLDG 3 SECTIONS
A800 DETAILS
A801 ADA DETAILS
PH-PH6 SITE PLAN PHOTOMETRIC VIEWPOINTS
PH-LUMINARY LOCATION & CALC. SUMMARY SCHEDULE
PH-LUMINARY SPECIFICATIONS

EXHIBIT 6 SITE PLAN
Source: Residential Design & Creative Solutions (RDCS).

**CITY OF BELL GARDENS CATEGORICAL EXEMPTION & ENVIRONMENTAL ASSESSMENT
EASTERN AVENUE TOWNHOMES • 7826 EASTERN AVENUE • BELL GARDENS, CALIFORNIA**



BUILDING "1" SOUTH ELEVATION

SCALE: 3/16"=1'-0"



BUILDING "1" NORTH ELEVATION

SCALE: 3/16"=1'-0"

EXHIBIT 8 BUILDING 1 ELEVATIONS

Source: Residential Design & Creative Solutions (RDCS).

**CITY OF BELL GARDENS CATEGORICAL EXEMPTION & ENVIRONMENTAL ASSESSMENT
EASTERN AVENUE TOWNHOMES • 7826 EASTERN AVENUE • BELL GARDENS, CALIFORNIA**



BUILDING "2" NORTH ELEVATION
SCALE: 3/16"=1'-0"



BUILDING "2" SOUTH ELEVATION
SCALE: 3/16"=1'-0"

EXHIBIT 9 BUILDING 2 ELEVATIONS
Source: Residential Design & Creative Solutions (RDCS).



EXHIBIT 10 BUILDING 2 ELEVATIONS

Source: Residential Design & Creative Solutions (RDCS).

CITY OF BELL GARDENS CATEGORICAL EXEMPTION & ENVIRONMENTAL ASSESSMENT
EASTERN AVENUE TOWNHOMES • 7826 EASTERN AVENUE • BELL GARDENS, CALIFORNIA

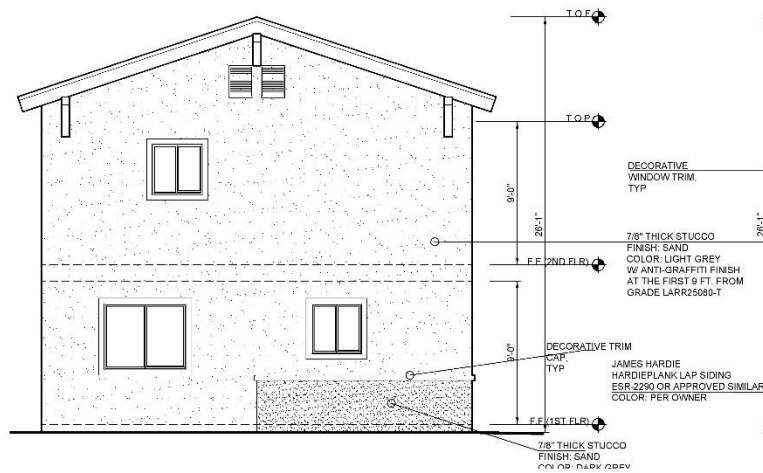
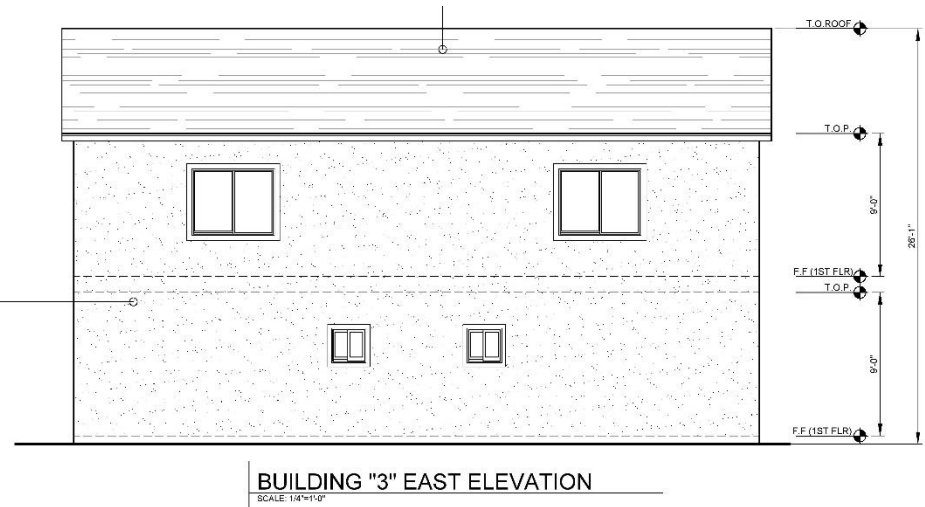
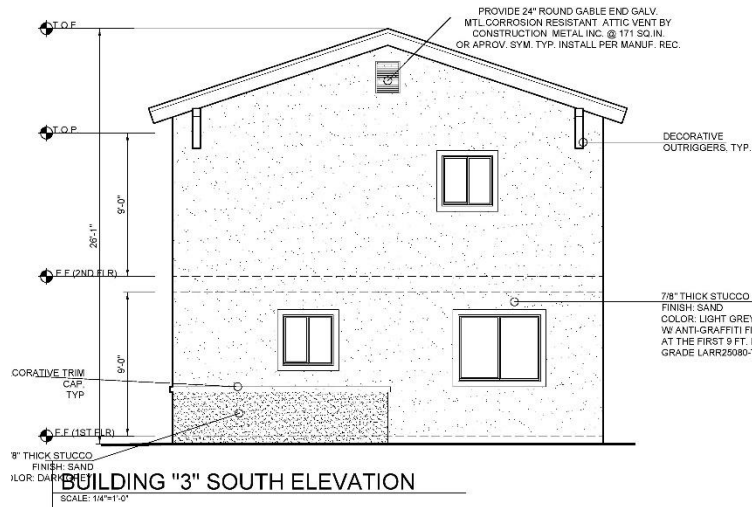


EXHIBIT 11 BUILDING 3 ELEVATIONS
Source: Residential Design & Creative Solutions (RDCS).

5.0 CATEGORICAL EXEMPTION FINDINGS

The City of Bell Gardens is required to make the following environmental findings in support of this Infill Exemption (refer to CEQA Guidelines §15332).¹⁰ The analysis in support of the findings is summarized under each finding and where required, a more detailed technical analysis is provided in the Appendices.

- *Section 15332 (a).* The project must be consistent with the applicable General Plan designation and all applicable General Plan policies as well as with the applicable zoning designation and regulations (refer to Section 5.1).
- *Section 15332 (b).* The proposed development site is located within the City limits on a project site of no more than five acres. The site is substantially surrounded by urban development (refer to Section 5.2).
- *Section 15332 (c).* The project site has no value as habitat for endangered, rare or threatened species (refer to Section 5.3).
- *Section 15332 (d).* The approval of the proposed project must not result in any significant effects relating to traffic, noise, air quality, or water quality (refer to Section 5.4).
- *Section 15332 (e).* The approval of the proposed project must not result in any significant effects on utilities and public services. (refer to Section 5.5).
- *(Section 15300.2 [b] [c][d][e][f]).* In addition to the above requirements, the proposed infill project must not result in any significant adverse impacts that would include any of the following impacts outlined herein in Section 5.6:
 - All exemptions for these classes are inapplicable when the cumulative impact of successive projects of the same type in the same place, over time is significant (refer to Section 5.6.1).
 - A categorical exemption shall not be used for an activity where there is a reasonable possibility that the activity will have a significant effect on the environment due to unusual circumstances (refer to Section 5.6.2).
 - A categorical exemption shall not be used for a project which may result in damage to scenic resources, including but not limited to, trees, historic buildings, rock outcroppings, or similar resources, within a highway officially designated as a state scenic highway (refer to Section 5.6.3).
 - A categorical exemption shall not be used for a project located on a site which is included on any list compiled pursuant to Section 65962.5 of the Government Code. (refer to Section 5.6.4).
 - A categorical exemption shall not be used for a project which may cause a substantial adverse change in the significance of a historical resource (refer to Section 5.6.5).

¹⁰ CEQA Guidelines California Code of Regulations, Title 14, Division 6, Chapter 3, Article 19. Categorical Exemptions. (Section 153332).

FINDING 5.1. - LAND USE COMPATIBILITY (CEQA SECTION 15332 (A))

THRESHOLDS OF SIGNIFICANCE

To be categorically exempt, the proposed project must be consistent with the applicable City of Bell Gardens land use designations (General Plan and Zoning).

ENVIRONMENTAL ANALYSIS

The project site is zoned as *Mixed Use Commercial Residential (MU)* and the General Plan designation is *Mixed Use Commercial Residential (MU)*.¹¹ The surrounding land uses include the following:

- *North of the Site:* A multiple family development is located to the north of the site (7816-7820 Eastern Avenue). This area is zoned as *Mixed Use Commercial Residential (MU)* and the General Plan designation is *Mixed Use Commercial Residential (MU)*.
- *South of the Site:* A multiple family development is located to the south of the site (7813-7817 and 7830 Eastern Avenue). This area is zoned as *Mixed Use Commercial Residential (MU)* and the General Plan designation is *Mixed Use Commercial Residential (MU)*.
- *West of the Site:* The Eastern Avenue right-of-way (ROW) extends along the project site's west side. Various residential and commercial uses are located further west, along the west side of Eastern Avenue. This area is zoned as *Mixed Use Commercial Residential (MU)* and the General Plan designation is *Mixed Use Commercial Residential (MU)*.
- *East of the Site:* Multiple-family development is located to the west of the site This area is zoned as *High Density Residential (R-3) with a parking overlay*) and the General Plan designation is *Mixed Use Commercial Residential (MU)*.

As indicated above, the project site is zoned as *Mixed Use* The development stands for the MU zone are summarized below in Table 3

TABLE 3 DEVELOPMENT STANDARDS FOR MU ZONE

Standard	Zoning Requirement	Project Conformity
Density	30 units	16 + density bonus
Minimum Lot Size	15,000 sq. ft.	23,518
Lot Width	50 ft.	118.4 ft.
Lot Depth	100 ft.	200 ft.
Floor Area Ratio	4.0	1.20
Units per Lot	30	16 + density bonus
Lot Coverage (%)	90%	54.8%
Maximum Bldg. Height	60 ft.	36.2 ft.

Source: Residential Design & Creative Solutions (RDSCS).

¹¹ City of Bell Gardens. General Plan Map and Zoning Map. Website accessed on June 17, 2026

As indicated in Table 3, the proposed project is in conformance with the City's development standards. The proposed 20 townhome and 2 ADU units would enable the City to better accommodate its current Regional Housing Needs Assessment (RHNA) need for the above new housing units. The current RHNA calls for an additional 503 housing units to be provided during the 6th Cycle. *The project is consistent with this finding and the impacts would be less than significant.*

FINDING 5.2 - PROJECT SITE SIZE (CEQA SECTION 15332 (B))

THRESHOLDS OF SIGNIFICANCE

To be categorically exempt, the proposed project must be located within the City limits on a project site of no more than five acres.

ENVIRONMENTAL ANALYSIS

The proposed project site is located within the corporate boundaries of the City of Bell Gardens on a project site consisting of less than five acres. The site's land area is 0.54-acres (23,518 square feet). As indicated herein in Section 5.1, the site is surrounded by urban development. *Therefore, less than significant project impacts would result.*

FINDING 5.3 - HABITAT VALUE (CEQA SECTION 15332 (C))

THRESHOLDS OF SIGNIFICANCE

To be categorically exempt, the proposed project must be located on a site that has no value as habitat for endangered, rare or threatened species.

ENVIRONMENTAL ANALYSIS

The proposed project site in its entirety was fully developed with no areas of native and natural habitat. The site is covered-over in both impervious surfaces that includes the two single-family units and the four-plex. The project site's isolation from other natural open space areas limits its utility as a habitat or an animal migration corridor. The project site and the surrounding areas are not conducive for the survival of any special status species due to the lack of suitable riparian and/or natural habitat. Constant disturbance from traffic and other human activity further limits the site's utility as a sensitive habitat or migration corridor.¹² Since the site is located within an established urban area that extends along the Eastern Avenue corridor and lacks suitable habitat, the site's utility as a natural habitat and migration corridor is restricted. No natural habitat is present in the area. *Therefore, less than significant project impacts would result.*

¹² Google Maps and City of Bell Gardens Zoning Map. Website accessed on June 16, 2026.

FINDING 5.4 - SIGNIFICANT EFFECTS (TRAFFIC, NOISE, AIR, PUBLIC SERVICES AND UTILITIES) (CEQA SECTION 15332 (D))

5.4.1 TRAFFIC

THRESHOLDS OF SIGNIFICANCE

To be categorically exempt, the proposed project must not result in any significant effects relating to traffic. A significant traffic impact will be first determined by the number of vehicle trips that will be generated by the proposed project and the attendant vehicle miles travelled (VMT) impacts.

ENVIRONMENTAL ANALYSIS

Traffic Generation

The proposed project will be replacing the former two single-family homes and the four-plex (four units) which were taken into account as the “existing land use.” However, since these units have been demolished, these existing units were not considered in the trip generation analysis. The trip generation for the proposed project has been developed using the rates from the Institute of Transportation Engineers (ITE) Trip Generation Manual (11th Edition) for Land Use 220 – “Multifamily Housing (Low-Rise) Not Close to Rail Transit”, Setting/Location – “General Urban/Suburban”. The net new project trip generation is summarized in Table 4.

TABLE 4 PROJECT TRIP GENERATION

Parcel/Use	Units	AM Peak Hour			PM Peak Hour			Daily
		In	Out	Total	In	Out	Total	
Multi-Family Midrise	ITE Code 221	23%	77%	0.37	61%	39%	0.39	4.54
22 units	22 units	2	6	8	5	4	9	100
Net Trips				8			9	100

Source: ITE Trip Generation Manual (11th Edition)

As shown in Table 4, the project is anticipated to generate 100 net new daily trips, with 8 net new trips occurring during the AM peak hour and 9 net new trips occurring during the PM peak hour.

Project Driveway Sight Distance

A sight distance analysis was conducted at the project driveway along Eastern Avenue. Sight distance is the length of the visible roadway a driver can see approaching vehicles before their line of sight is blocked by any object. For purposes of this analysis, only the stopping sight distance and corner sight distance have been evaluated. That is because those are the only two sight distance issues that would affect safe maneuver of ingress/egress traffic from the project driveway. The stopping sight distance was evaluated on the roadway abutting the project (i.e., Eastern Avenue). The speed limit on Eastern Avenue is 40 miles per hour. As stated in Table 201.1 of the Highway Design Manual (HDM), the minimum stopping sight distance is 300 feet for a design speed of 40 mph. Therefore, the minimum stopping sight distance has been considered as 300 feet for the Project Driveway along Eastern Avenue. Based on the requirements established in the HDM, it was

determined that a minimum corner sight distance of 441 feet would be required for left-turn maneuvers and a minimum corner sight distance of 382 feet would be required for right-turn maneuvers. Since the corner sight distance required at the project driveway would be greater than the stopping sight distance, sight triangle figures were created using corner sight distance. As a conservative measure, left-turn corner sight distance were used for both right- and left-turn sight triangles for the project driveway. As a result, project driveway will provide adequate sight distance for left- and right-turn maneuvers onto Eastern Avenue.

Project Parking

The project is required to include 40 parking stalls, however the applicant has requested a concession to reduce the amount of parking spaces to 21 stalls. The proposed project would provide a total of 21 parking spaces including 16 enclosed spaces for residents of Buildings 1 and 2 and 5 uncovered spaces. The 20 townhome units would each be provided with two enclosed parking spaces in the garages except for the for low-income units which do not have a garage. In addition, one ADA space would be provided. As such, the project provides adequate parking per the City's parking requirements.

Vehicle Miles Travelled

The City has adopted thresholds of significance for determining impacts related to vehicle miles traveled (VMT) consistent with the California Office of Planning and Research's Technical Advisory. The City has also adopted the County of Los Angeles Transportation Impact Analysis Guidelines which are used to determine whether a project would adequately reduce total VMT, and as such, determined the following screening criteria for certain land development projects that may be presumed to result in a less than significant VMT impact:

- *Projects that result in a net increase of 110 or less daily vehicle trips.* As discussed in the previous section and shown in Table 4, the project is estimated to generate 100 net new daily trips. Therefore, the project does satisfy this criterion.
- *Projects located in a High-Quality Transit Area (i.e., within half-mile distance of an existing rail transit station or located within half-mile of two or more existing bus routes with a frequency of service interval of 15 minutes or less during morning and evening peak hours).* Given the project consists of only residential land use, the City's VMT per capita map was used to evaluate whether the project is in a low VMT Area. Based on the review of the City of Bell Garden's Daily Home-Based VMT per Capita screening map (Figure 3 of the TIS Guidelines), the project is not located in a low VMT area; therefore, this criterion does not apply to the project.
- *Transit Proximity Area.* The project is not located within an existing Transit Priority Area (TPA) but is located within the future TPA which is the Eastside Transit Corridor Phase 2 project to be completed in 2035, as shown in Figure 1 of the TIS Guidelines. The TIS Guidelines recommends that projects located within the future Transit Priority Area that are estimated to be completed after the Eastside Transit Corridor Phase 2 is operational are eligible to be screened out. However, Eastside Transit Corridor Phase 2 is estimated to be completed by the year 2035, while the project is estimated to be completed by 2025. Therefore, this screening criteria does not apply to the project.
- *Project is locally serving retail (less than 50,000 square feet), including gas stations, banks, restaurants, shopping center.* The project consists of residential land uses only; therefore, this screening criteria does not apply to the project.

- *Local-serving community colleges, K-12 schools, local parks, daycare centers, etc.* The project consists of residential land uses only; therefore, this screening criteria does not apply to the project.
- *Residential projects with 100 percent affordable housing.* The project consists of 20 townhome units with four units reserved for low income households. Therefore, this screening criteria does not apply to the project.
- *Community institutions project (public library, fire station, local government).* The project consists of residential land uses only; therefore, this screening criteria does not apply to the project.
- *Local-serving hotels (e.g., non-destination hotels).* The project consists of residential land uses only; therefore, this screening criteria does not apply to the project.
- *Local-serving assembly uses (places of worship, community organizations).* The project consists of residential land uses only; therefore, this screening criteria does not apply to the project.
- *Public parking garages and parking lots.* The project consists of residential land use only; therefore, this screening criteria does not apply to the project.
- *Assisted living or senior housing projects.* The project consists of market-rate residential land uses only; therefore, this screening criteria does not apply to the project.
- *Affordable, supportive, or transitional housing projects.* The project consists of market-rate residential land uses; therefore, this screening criteria does not apply to the project.

Based on the City's Guidelines, if the project meets one of the 12 screening criteria, the project is presumed to generate a less than significant impact on VMT and no further analysis is required. The project meets the low trip generation criterion and is therefore presumed to have a less than significant VMT impact. *As a result, the trip generation, trip distribution, and site access impacts resulting from the proposed project would be less than significant.*

5.4.2 NOISE

THRESHOLDS OF SIGNIFICANCE

The approval of the proposed project must not result in any significant effects relating to noise. A significant noise impact would occur if a proposed project were determined to result in any of the following impacts:

- *Noise and Land Use Compatibility.* The generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies;
- *Ground-Borne Vibration Noise.* The generation of excessive ground-borne vibration or ground-borne noise levels; or
- *Aircraft/Airport Noise Exposure.* For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing the project area to excessive noise levels.

The most commonly used unit for measuring the level of sound is the decibel (dB). Zero on the decibel scale represents the lowest limit of sound that can be heard by humans. Noise levels may also be expressed as dBA

where an “A” weighting has been incorporated into the measurement metric to account for increased human sensitivity to noise. The A-weighted measurements correlate well with the perceived noise levels at lower frequencies. Noise may be generated from a point source, such as a piece of construction equipment, or from a line source, such as a road containing moving vehicles. The eardrum may rupture at 140 dB. In general, an increase of between 3.0 dB and 5.0 dB in the ambient noise level is considered to represent the threshold for human sensitivity. In other words, increases in ambient noise levels of 3.0 dB or less are not generally perceptible to persons with average hearing abilities.¹³

Noise may be generated from a point source, such as machinery, or from a line source, such as a roadway segment containing moving vehicles. Because the area of the sound wave increases as the sound gets further and further from the source, less energy strikes any given point over the surface area of the wave. This phenomenon is known as “spreading loss.” Due to spreading loss, noise attenuates (decreases) with distance. Stationary, or point, noise subject to spreading loss experiences a 6.0 dBA reduction for every doubling of the distance beginning with the initial 50-foot distance.¹⁴ Based on the principles of spreading loss noise levels would decrease by 6.0 dBA for every doubling distance beginning with the first 50 feet for point sources (speakers, construction equipment) and approximately 4.5 dBA over a soft surface such as vegetation.¹⁵ Meanwhile, line sources (roadways, railroads) experience a 3.0 dBA reduction for every doubling of the distance. Objects that obstruct the line-of-sight between a noise source and a noise receptor reduce noise generated by or within the noise source. Operational noise is expected to decrease by an additional 6.0 dBA at the neighboring residential uses based on the principals of spreading loss.¹⁶

ENVIRONMENTAL ANALYSIS

The project site is located in an urbanized setting that contains both commercial and residential uses. The predominant source of noise in the area is related to traffic travelling on nearby arterial roadways. An *Extec* Digital Sound Meter was used to conduct the on-site noise measurements. The noise levels were measured using the decibel (dB) metric. The dBA metric uses an “A” frequency weighting to allow for increased sensitivity during the night-time and early morning periods. For purposes of this analysis, the decibel (dB) metric and dBA metric should be considered the same. The noise meter was calibrated using an “A” weighting with the slow response setting. A series of 100 discreet noise measurements were recorded on Thursday, June 18th, 2026, at 1:00 PM within a 30-minute time period at the project site (7826 Eastern Avenue). The average ambient noise level was recorded at 64.9 dBA, with the main source of ambient noise coming from street traffic travelling on Eastern Avenue. Table 5 indicates the variation in noise levels over time during the measurement period. For example, the L_{50} represents the noise levels that were exceeded during the measurement period 50 percent of the time (half the time the noise level exceeded this level and half the time the noise level was less than this level). The median ambient exterior noise level (L_{50}) was 64.0 dBA at the measurement location.

¹³ Bugliarello, et. al., *The Impact of Noise Pollution*, Chapter 127, 1975.

¹⁴ United States Department of Transportation – Federal Highway Administration. *Transit Noise and Vibration Impact Assessment Manual*. Report dated September 2018.

¹⁵ Ibid.

¹⁶ United States Department of Transportation – Federal Highway Administration. *Transit Noise and Vibration Impact Assessment Manual*. Report dated September 2018.

TABLE 5 NOISE MEASUREMENT RESULTS

Noise Metric	Noise Level (dBA)
L _{max} (Maximum Noise Level)	76.8 dBA
L ₉₉ (Noise levels <99% of time)	75.7 dBA
L ₉₀ (Noise levels <90% of time)	71.6 dBA
L ₇₅ (Noise levels <75% of time)	69.6 dBA
Median Noise Level	64.9 dBA
L _{min} (Minimum Noise Level)	55.7 dBA
Average Noise Level	65.5 dBA

Source: Blodgett Baylosis Environmental Planning

Noise and Land Use Compatibility Impacts.

The City of Bell Gardens has developed its own land use compatibility standards based on recommended parameters from the California Governor’s Office of Planning and Research (OPR) land use and noise compatibility guidelines. Based on these guidelines, the City has established interior and exterior noise standards for various types and/or categories of development. The City’s compatibility standards provide only for normally acceptable conditions based on State recommendations and City land use designations. For medium-density residential development, the City’s noise compatibility standard is 45 dBA for interior noise exposure and 65 dBA for exterior noise exposure.

The City of Bell Gardens Municipal Code Section 16.24.120 – Construction of Buildings and Projects - Restriction, limits construction hours to 8:00 AM through 7:00 PM. The City does not have a noise level limit.

Most construction noise would occur during the site preparation, grading, and building construction when noisier equipment would be operating. Noise levels during construction would be an accumulation of equipment operation at varying locations within the construction site. The Federal Transportation Administration (FTA) General Assessment for Construction Noise sets a maximum criteria for construction noise before the adverse community reaction. This threshold is 80dBA during the daytime for residential receptors. The distance used for the purpose of this analysis is 65 feet, which is the distance from the nearest sensitive receptor to the center of the project site. Additionally, a credit of 3 dBA will be given to reflect the existing six-foot high concrete wall along the project site boundaries. It is important to note that this equipment will be used during construction hours only. The project’s construction noise levels were estimated using the Federal Highway Administration’s (FHWA) Roadway Construction Noise Model Version 1.1. As shown below in Table 6, the proposed project would not violate any construction noise level standards.

TABLE 6 CONSTRUCTION NOISE

Construction Phase	Noise Level at Nearest Receptor	Threshold
Site Preparation/Grading	80.0 dBA	80 dBA
Building Construction	78.9 dBA	80 dBA
Paving	78.3 dBA	80 dBA
Architectural Coating	68.4 dBA	80 dBA

Source: Blodgett Baylosis Environmental Planning

Upon completion of construction and occupancy of the proposed project, on-site operational noise would be generated mainly by car engines starting and vehicle traffic, which would not exceed the permitted noise level. The cumulative traffic associated with the proposed project will not be great enough to result in a measurable or perceptible increase in traffic noise (it typically requires a doubling of traffic volumes to increase the ambient noise levels to 3.0 dBA or greater). The proposed project is expected to generate 100 net new daily trips. The ADT for Eastern Avenue is between 1,094 and 2,182 trips. These volumes would not result in a doubling of traffic. *The proposed project is consistent with this finding and the environmental impacts would be less than significant.*

Ground-Borne Vibration Noise

The operation of construction equipment causes ground vibrations that spread through the ground and diminish in strength with distance. Ground vibrations associated with construction activities using modern construction methods and equipment rarely reach the levels that result in damage to nearby buildings though vibration related to construction activities may be discernible in areas located near the construction site. A possible exception is in older buildings where special care must be taken to avoid damage. The FTA has guidelines for vibration levels from construction related to their activities and recommends that the maximum peak-particle-velocity (PPV) levels remain below 0.3 inches per second at the nearest residential structures. PPV refers to the movement within the ground of molecular particles and not surface movement. Vibration levels above 0.3 inches per second have the potential to cause architectural damage to older residential dwellings. The FTA also states that vibration levels above 0.04 inches per second (in/sec) are sometimes perceptible to people, and the level at which vibration becomes an irritation to people is 0.4 inches per second.

TABLE 7 CONSTRUCTION VIBRATION

Construction Equipment	PPV @50 ft. (inches/sec.)	PPV @61 ft. (inches/sec.)
Vibratory Roller	0.074	0.05
Large Bulldozer	0.031	0.021
Loaded Trucks	0.027	0.018
Small Bulldozer	0.001	0.001

Source: Blodgett Baylosis Environmental Planning

As shown in Table 7, the peak-particle-velocity levels would remain below 0.3 inches per second at the nearest structures during the construction phase.

Once operational, the proposed project would not generate excessive ground-borne noise because the project will not require the use of equipment capable of creating ground-borne noise such as heavy construction equipment. *As a result, the traffic noise impacts resulting from the proposed project would be less than significant. The proposed project is consistent with this finding and the environmental impacts would be less than significant.*

Aircraft/Airport Noise Exposure

There are no airports or airfields that are located in the City of Bell Gardens. The project site is not located within two miles of a public airport. The closest airport to the project site is the Compton-Woodley Airport, located more than 6.56 miles to the southwest and west in the City of Compton.¹⁷ As a result, the project will not expose people working in the project area to excessive noise levels and no impacts will occur. *The proposed project is consistent with this finding and the environmental impacts would be less than significant.*

5.4.3 AIR QUALITY

THRESHOLDS OF SIGNIFICANCE

The approval of the proposed project must not result in any significant effects relating to air quality. The *South Coast Air Quality Management District (SCAQMD)* has jurisdiction over a 10,743 square-mile area that includes Orange County, Los Angeles County (except for Antelope Valley), the non-desert portion of western San Bernardino County, and western Riverside County. The SCAQMD is responsible for the implementation of the protocols of the Federal Clean Air Act. In addition, the SCAQMD is responsible for ensuring that the more stringent California Clean Air standards are met. The SCAQMD is responsible for the formulation and implementation of a long-range plan referred to as the Air Quality Management Plan or AQMP that indicates how these objectives would be met. Projects in the South Coast Air Basin (SCAB) generating construction-related emissions that exceed any of the following emissions thresholds are considered to be significant under CEQA:

- 75 pounds per day of reactive organic compounds;
- 100 pounds per day of nitrogen dioxide;
- 550 pounds per day of carbon monoxide;
- 150 pounds per day of PM₁₀;
- 55 pounds per day of PM_{2.5}; or,
- 150 pounds per day of sulfur oxides.

The proposed project would have a significant long-term impact on air quality if any of the operational emission significance thresholds for criteria pollutants are exceeded:

- 55 pounds per day of reactive organic compounds;
- 55 pounds per day of nitrogen dioxide;
- 550 pounds per day of carbon monoxide;
- 150 pounds per day of PM₁₀;
- 55 pounds per day of PM_{2.5}; or,
- 150 pounds per day of sulfur oxides.¹⁸

¹⁷ Google Earth. Website accessed June 16, 2026.

¹⁸ South Coast Air Quality Management District. *Final 2016 Air Quality Plan [AQMP]*. Adopted March 2017.

ENVIRONMENTAL ANALYSIS

The analysis of daily construction and operational emissions was prepared utilizing the California Emissions Estimator Model (CalEEMod V.2022.1.1.44). As shown in Table 8, the daily construction emissions would not exceed the SCAQMD significance thresholds. The analysis of daily construction emissions has been prepared utilizing the California Emissions Estimator Model (CalEEMod V.2022.1.1.44) developed for the SCAQMD (these CalEEMod computer worksheets are attached as an Appendix to this CE. The project's construction period would include the construction of the 20 townhome units and 2 ADU units. As shown in Table 8, daily construction emissions would not exceed the SCAQMD's significance thresholds and represents a maximum-case scenario. Therefore, the maximum daily construction-related emissions would be less than significant. The Applicant would be required to ensure that the contractors adhere to all pertinent provisions of SCAQMD Rule 403 pertaining to the generation of fugitive dust during grading and/or the use of equipment on unpaved surfaces. The contractors would be responsible for being familiar with and implementing any pertinent best available control measures. As a result, the project would not result in significant impacts.

TABLE 8 ESTIMATED DAILY CONSTRUCTION EMISSIONS (LB/DAY)

Construction Phase	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}
Maximum Daily Emissions	17.8	12.2	14.5	0.02	7.75	3.95
Daily Thresholds	75	100	550	150	150	55
Significant Impact?	No	No	No	No	No	No

Source: CalEEMod V.2022.1.1.44.

Long-term emissions refer to those air quality impacts that would occur once the proposed project has been constructed and is operational. These impacts would continue over the operational life of the project. The two main sources of operational emissions include area emissions and on-site emissions related to the production and consumption of energy. Table 9 depicts the estimated project operational emissions related to the project's operation. As indicated in Table 9 the projected maximum long-term emissions are below thresholds considered to represent a significant impact.

TABLE 9 ESTIMATED OPERATIONAL EMISSIONS (LB/DAY)

Emission Source	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}
Mobile	0.53	0.36	4.21	0.01	0.98	0.25
Area	1.03	0.06	4.35	0.01	0.32	0.31
Energy	0.01	0.09	0.04	--	0.01	0.01
Total	1.56	0.50	8.60	0.02	1.31	0.57
Daily Thresholds	55	55	550	150	150	55
Significant Impact?	No	No	No	No	No	No

Source: CalEEMod V.2022.1.1.44.

Sensitive receptors refer to land uses and/or activities that are especially sensitive to poor air quality and typically include residences, board and care facilities, schools, playgrounds, hospitals, parks, childcare centers, and outdoor athletic facilities, and other facilities where children or the elderly may congregate. These population groups are generally more sensitive to poor air quality. The nearest noise sensitive

receptors to the project site are the residential units that extend along the project site's southerly, northerly, and easterly sides. The SCAQMD requires that CEQA air quality analyses indicate whether a proposed project would result in an exceedance of *localized emissions thresholds* or LSTs. LSTs only apply to short-term (construction) emissions at a fixed location and do not include off-site or area-wide emissions. The pollutants that are the focus of the LST analysis include the conversion of NO_x to NO₂; carbon monoxide (CO) emissions from construction; PM₁₀ emissions from construction; and PM_{2.5} emissions from construction. For purposes of the LST analysis, the receptor distance used was 25 meters since the nearest sensitive receptor abuts the project site on the south and east sides.

TABLE 10 LOCAL SIGNIFICANCE THRESHOLDS EXCEEDANCE SRA 5 FOR 1-ACRE SITES

Emissions	Project Emissions (lbs./day)	Type	Allowable Emissions Threshold (lbs./day) and a Specified Distance from Receptor (in meters)				
			25	50	100	200	500
NO _x	12.2/0.50	Construction/Operation	80	81	94	123	192
CO	14.5/8.60	Construction/ Operation	571	735	1,088	2,104	6,854
PM ₁₀	0.24*	Operation	1	3	8	16	42
PM ₁₀	3.43**	Construction	4	13	30	66	173
PM _{2.5}	0.57	Operation	1	1	2	5	21
PM _{2.5}	1.86**	Construction	3	4	8	19	86

Source: CalEEMod V.2022.1.1.44

*=Assumes only 20% of mobile emissions occur onsite.

**=With implementation of SCAQMD Standard Conditions.

As shown in Table 10, the proposed project would not result in an exceedance in LSTs. *Therefore, project impacts would be less than significant. The proposed project is consistent with this finding and the environmental impacts would be less than significant.*

5.4.4 WATER QUALITY

THRESHOLDS OF SIGNIFICANCE

The approval of the proposed project must not result in any significant effects relating to water quality. A significant water quality impact would potentially result if the proposed project would result in water pollution impacts on-site or offsite during construction or operations.

ENVIRONMENTAL ANALYSIS

The proposed project's construction would not violate any water quality standards, waste discharge requirements, or otherwise degrade surface or groundwater quality. Construction of the proposed project would not include any significant new include grading, excavation, and other earthmoving activities that have the potential to cause erosion that would subsequently degrade water quality and/or violate water quality standards. As required by the Clean Water Act, the contractors/developer must comply with the Santa Ana Municipal Separate Storm Sewer (MS4) National Pollution Discharge Elimination System (NPDES) Permit. The NPDES MS4 Permit Program, which is administered in the project area by the County of Los Angeles

Regional Water Quality Control Board (RWQCB), regulates storm water and urban runoff discharges from developments to natural and constructed storm drain systems in the City.

The contractor/developer would be required to obtain coverage under the General Permit for Discharges of Stormwater Associated with Construction Activity. The implementation of the proposed project would not result in a violation in water quality standards or discharge requirements because the project contractors would be required to implement the operational Best Management Practices (BMPs) identified in the Erosion and Sediment Control Plan during construction and the operational BMPs identified in the Non-priority Water Quality Management Plan (NP-WQMP), for reducing runoff and potential contaminants. *Adherence to the aforementioned City mandated requirements ensure that impacts remain less than significant. The project is consistent with this finding and the environmental impacts would be less than significant.*

FINDING 5.5 - SIGNIFICANT EFFECTS ON UTILITIES AND PUBLIC SERVICES (CEQA SECTION 15332 (E))

5.5.1 UTILITIES

THRESHOLDS OF SIGNIFICANCE

The approval of the proposed project must not result in any significant effects relating to utilities. A significant impact on utilities would potentially result if the proposed project would require new utilities or service systems to accommodate potential demand.

ENVIRONMENTAL ANALYSIS

Sewers and Wastewater Treatment

There would be a total of 20 town home units and 2 ADU units. The proposed project is anticipated to generate 4,400 gallons per day (gpd) of wastewater. The Los Angeles County Public Works Department Consolidated Sewer Maintenance District manages the wastewater collection services for the project site. The collected wastewater flows south towards the Los Coyotes Water Reclamation Plant of Los Angeles County Sanitation Districts (LACSD) in the city of Cerritos. The LACSD is responsible for all trunk sewer line and treatment. The Los Coyotes Water Reclamation Plant has a design capacity of 37.5 mgd. The projected sewer demand of 32,398 gpd represents approximately 0.507 percent of the wastewater treatment plant's design capacity. As such, the proposed project would not result in or require the construction of new or expanded wastewater treatment facilities. The proposed project would connect to an existing 8-inch sewer line located in Eastern Avenue. The future sewage generation for the proposed project is indicated in Table 11.

TABLE 11 PROJECTED EFFLUENT GENERATION (IN GALLONS/DAY)

Project Element (Use)	Unit of Measure	Usage Factor	Consumption
Proposed Project	22 units	200.0 gals./day/unit	4,400 gals./day
Proposed Project			4,400 gals./day

Source: Blodgett Baylosis Environmental Planning.

The sanitary sewer lines can accommodate the sewage flows from the proposed 22 units. *Therefore, project impacts would be less than significant. The proposed project is consistent with this finding and the environmental impacts would be less than significant.*

Water

The City is served by the Golden State Water Company. Water delivered to customers in the Bell/Bell Gardens System is a blend of groundwater pumped from the Central Groundwater Basin and imported water from the Colorado River Aqueduct and State Water Project. The City of Bell Gardens and the Golden State Water Company deliver water to residents, businesses and agencies in Bell Gardens. The water system owned by the City of Bell Gardens is contracted and maintained through Liberty Utilities. Senate Bill 1087 (enacted 2006) requires that water providers develop written policies that grant priority to proposed development that includes housing affordable to lower-income households. The legislation also prohibits water providers from denying or conditioning the approval of development that includes housing affordable to lower income households unless specific written findings are made.

The estimated daily water consumption rate per unit is 6,600 gallons per day. The proposed project would connect to an existing water main in Eastern Avenue. The future water consumption for the proposed project is indicated in Table 12.

TABLE 12 PROJECTED WATER CONSUMPTION (IN GALLONS/DAY)

Project Element (Use)	Unit of Measure	Usage Factor	Consumption
Proposed Project	22 units	300.0 gals./day/unit	6,600 gals./day
Total			6,600 gals./day

Source: Blodgett Baylosis Environmental Planning

The existing water lines can accommodate the water demand from the proposed 22 units. *Therefore, project impacts would be less than significant.*

Stormwater

The project site is located in an urbanized setting that contains commercial and residential uses. Overall, the amount of impervious surfaces would not measurably change. The existing storm drain system in the project site area includes a storm drain system in Eastern Avenue that collects existing street drainage flows from the roadway as well as on-site runoff and off-site adjacent properties runoff. The proposed project would include a storm drain system to collect, treat, and convey stormwater into the existing storm drain system and introduce pervious landscaping on the project site. Therefore, the proposed project would result in a less than

significant impact and no mitigation measures are required. *Therefore, project impacts would be less than significant.*

Solid Waste Collection

Athens Services provides residential solid waste services in the City. These services include trash pickup, recycling, bulky item pickup and bin service, and green waste collection. In 2011, AB 341 was adopted establishing a policy goal that 75% of statewide solid waste should be reduced, recycled, or composted by 2020. This is an expansion of previous state goals to divert 50% of community-wide waste. This measure complies with state goals of waste reduction.

The proposed project is expected to generate 269 pounds of conventional solid waste per day. This figure assumes a generation rate of 12.23 pounds of waste per day per unit. The future solid waste generation for the proposed project are indicated in Table 13.

TABLE 13 PROJECTED SOLID WASTE GENERATION (IN POUNDS [LBS]/DAY)

Project Element (Use)	Unit of Measure	Usage Factor	Generation
Proposed Project	22 units	12.23 lbs/day/units	269 lbs./day
Total			269 lbs./day

Source: Los Angeles County Sanitation Districts

Therefore, project impacts would be less than significant. The proposed project is consistent with this finding and the environmental impacts would be less than significant.

5.5.2 PUBLIC SERVICES

THRESHOLDS OF SIGNIFICANCE

The approval of the proposed project must not result in any significant effects relating to public services. A significant impact on public services would potentially result if the proposed project would require new facilities or increased services to accommodate potential demand.

ENVIRONMENTAL ANALYSIS

Fire Department

The City of Bell Gardens is a member of the Los Angeles County Fire Protection District. The Los Angeles County Fire Department provides the City of Bell Gardens with fire suppression and emergency medical services. Fire Station 29, Battalion 3, Division 6 provides its services from one Fire Station located at 7000 Garfield Avenue. In addition, the Los Angeles County Fire Department provides for the public's safety by deploying and staffing a variety of emergency response vehicles Air and Wildland, Emergency Medical Services, Fire Prevention, Rescue, Forestry, Health Hazardous Material and Emergency Operations. Fire protection and emergency medical services in the city of Bell Gardens are provided by the Los Angeles County Fire Department (LACFD). Services include fire suppression, emergency medical, rescue and fire prevention,

and hazardous materials coordination services. There are three existing fire stations within two miles of the project site.

The proposed project would not negatively impact fire protection services since the new units would be constructed in accordance with current fire and building codes.¹⁹ As part of the project review process, the LACFD would review the new housing development and make recommendations for fire protection services. The buildings' construction, height, and use would not require any special equipment or apparatus in the event of a fire or emergency. The proposed project's population and housing is consistent with the growth projections for the city of Bell Gardens. Further, the proposed project would contribute to property taxes that would help fund LACFD and hire more personnel, if needed. Development of the project would not result in the need for construction associated with an expansion of existing or development of a new fire station. Therefore, the project would result in less than significant impacts related to fire protection services. *The proposed project is consistent with this finding and the environmental impacts would be less than significant.*

Law Enforcement

Bell Gardens law enforcement services are provided by the Bell Gardens Police Department which operates out of the Civic Center. The Department consists of 79 professionals including 43 Sworn Officers, 26 Professional Staff, and 10 Part-time Staff. BGPD is comprised of the following units; Patrol, K-9, General Investigations, Special Investigations, Special Operations Team, Dispatch, Neighborhood Watch, Records, Community Service Officers, Jail, and Support Personnel.

The proposed project may lead to an increase in demand for police protection services, such as increase in service calls and traffic enforcement, by adding new residents to the area, such an increase is within the projected growth for the City of Bell Gardens, and LASD has indicated that there are no existing deficiencies. The proposed project would also include design elements that would discourage criminal activity, such as security gates, and residents-only key cards for the residential areas, as well as security lighting. The proposed project would be required to pay all applicable impact fees and would contribute to applicable taxes to continue funding the police station. These fees are in place to address any incremental development project impact and are to be used for infrastructure improvements and services. The proposed project would not result in the need for new or physically altered police protection facilities. *The proposed project is consistent with this finding and the environmental impacts would be less than significant.*

Schools

Schools in the City are under the Montebello Unified School District. The City has four elementary schools, two intermediate schools, and one high school. The proposed project would be required to pay all development fees required pursuant to Assembly Bill 2926 and Section 17620 of the California Government Code. Therefore, impacts associated with schools would be less than significant and no mitigation would be required. The payment of the aforementioned school impact fees to the applicable school district is considered to be full mitigation for project-related impacts. The proposed project's school enrollment impacts would be offset by the school fees that would be paid by the developer. *Therefore, project impacts*

¹⁹ Los Angeles County Fire Department. *Fire Stations*.

would be less than significant. The proposed project is consistent with this finding and the environmental impacts would be less than significant.

Parks and Recreation

The City has five parks and a golf course that provide a variety of recreation opportunities. Parks include the Bell Gardens John Anson Ford Park (includes the Bell Gardens Sports Complex and Bell Gardens Golf Course), Bell Gardens Veterans Park, Gallant Park, and the Julia Russ Asmus Park, Marlow Park. The City has two senior centers, the Bell Gardens Senior Center and Veterans Park Senior Center. The City has a Youth Center that provides after-school programming, classes, and cultural arts. The City also has a community garden. The proposed project may be subject to the Quimby Act or pay in-lieu fees for park improvements. Pursuant to the Quimby Act, the Applicant would pay its fair share of in-lieu fees based on the number and type of dwelling units. *Therefore, project impacts would be less than significant. The proposed project is consistent with this finding and the environmental impacts would be less than significant.*

FINDING 5.6 - SIGNIFICANT EFFECTS RELATED TO INFILL DEVELOPMENT PROJECTS CEQA SECTION 15300.2

FINDING 5.6.1. – CUMULATIVE IMPACT

THRESHOLDS OF SIGNIFICANCE

All exemptions for these classes are inapplicable when the cumulative impact of successive projects of the same type in the same place, over time is significant.

ENVIRONMENTAL ANALYSIS

Cumulative impacts are defined as two or more individual effects which, when considered together, are considerable, compound or increase environmental effects. In addition, the following findings support the conclusions that no significant cumulative impacts would result:

- The location and extent of the proposed project would be limited to the project site. No other development projects are proposed in the adjacent areas in which the project site is located.
- The analysis determined that the proposed project would not result in any significant traffic impact impacts. The proposed project's daily trip generation would be 100 daily trips, with 8 trip ends occurring during the AM (morning) peak hour and 9 trip ends occurring during the PM (evening) peak hour. Since the proposed project generates less than 110 daily trips, the VMT impacts resulting from the proposed project would be less than significant.
- The proposed project's air quality impacts, both short-term and long-term, would be less than significant. As a result, no cumulative air quality thresholds would be exceeded.

The proposed project would be consistent with this finding with respect to cumulative effects.

DETERMINATION

The analysis determined that the proposed project is in conformance with this finding.

FINDING 5.6.2. – UNUSUAL CIRCUMSTANCES

THRESHOLDS OF SIGNIFICANCE

A categorical exemption shall not be used for an activity where there is a reasonable possibility that the activity will have a significant effect on the environment due to unusual circumstances.

ENVIRONMENTAL ANALYSIS

The proposed project would be site-specific within the existing project site and does not contain any unusual aspects in the ongoing operations that may lead to more significant effects. The proposed use is consistent with the residential uses permitted within the zoning district. Therefore, no project impacts would result. The proposed project is consistent with this finding and there would be no environmental impacts.

DETERMINATION

The analysis determined that the proposed project is in conformance with this finding.

FINDING 5.6.3. - SCENIC NATURAL VIEWS

THRESHOLDS OF SIGNIFICANCE

The project may result in damage to scenic resources, including, but not limited to, trees, historic buildings, rock outcroppings, or similar resources, within an officially designated scenic highway.

ENVIRONMENTAL ANALYSIS

The project site is located in an urbanized setting that contains commercial and residential uses. No scenic natural resources or scenic corridor would be affected by the proposed project. Because of the nature of the proposed project, no alteration of the views would occur. *Therefore, no project impacts would result. The proposed project is consistent with this finding and there would be no environmental impacts.*

FINDING 5.6.4. - CORTESE LISTING

THRESHOLDS OF SIGNIFICANCE

The approval of the proposed project must not be located on a property that has been identified by the Department of Toxic Substances Control (DTSC) and the Secretary for Environmental Protection as being located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5

ENVIRONMENTAL ANALYSIS

Government Code Section 65962.5 refers to the Hazardous Waste and Substances Site List, commonly known as the Cortese List. The Cortese List is a planning document used by the State and other local agencies to comply with CEQA requirements that require the provision of information regarding the location of hazardous materials release sites. A search was conducted through the California Department of Toxic

Substances Control Envirostor website to identify whether the project site is listed in the database as a Cortese site.²⁰ The search indicates the project site is not located on a Cortese site. *Therefore, no project impacts would result. The proposed project is consistent with this finding and there would be no environmental impacts.*

FINDING 5.6.5. - HISTORIC RESOURCES

THRESHOLDS OF SIGNIFICANCE

The approval of the proposed project must not result in any significant effects relating to the historic resources. According to CEQA, a project may be deemed to have a significant adverse impact on cultural resources if it results in any of the following:

- The proposed project would cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5.
- The proposed project would cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5.
- The proposed project would disturb any human remains, including those interred outside of formal cemeteries.

Historic structures and sites are defined by local, State, and Federal criteria. A site or structure may be historically significant if it is locally protected through a General Plan or historic preservation ordinance. In addition, a site or structure may be historically significant according to State or Federal criteria even if the locality does not recognize such significance. The California Register of Historical Resources (CRHR) is a listing of all properties considered to be significant historical resources in the state. The California Register includes all properties listed or determined eligible for listing on the National Register, including properties evaluated under Section 106, and State Historical Landmarks No. 770 and above. The California Register statute specifically provides that historical resources listed, determined eligible for listing on the California Register by the State Historical Resources Commission, or resources that meet the California Register criteria are resources which must be given consideration under CEQA. Other resources, such as resources listed on local registers of historic resources or in local surveys, may be listed if they are determined by the State Historic Resources Commission to be significant.

ENVIRONMENTAL ANALYSIS

The project site is not included on the City's list of designated historic resources. *Thus, no project impacts would result. The proposed project is consistent with this finding and there would be no environmental impacts.*

²⁰ California, State of. Department of Toxic Substances Control. <https://www.envirostor.dtsc.ca.gov/public/map/>

CONCLUSIONS

Based on the analysis provided in this Categorical Exemption, the project meets and complies with the conditions and requirements of Class 32 (Infill Exemption) and would not have any significant environmental impacts.

THIS PAGE HAS BEEN INTENTIONALLY LEFT BLANK.

BELG 008 Detailed Report

Table of Contents

- 1. Basic Project Information
 - 1.1. Basic Project Information
 - 1.2. Land Use Types
 - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
- 2. Emissions Summary
 - 2.1. Construction Emissions Compared Against Thresholds
 - 2.2. Construction Emissions by Year
 - 2.2.1. Total Construction Emissions by Year, Unmitigated
 - 2.2.2. Onsite Construction Emissions by Year, Unmitigated
 - 2.2.3. Offsite Construction Emissions by Year, Unmitigated
 - 2.2.4. Total Construction Emissions by Year, Mitigated
 - 2.2.5. Onsite Construction Emissions by Year, Mitigated
 - 2.2.6. Offsite Construction Emissions by Year, Mitigated
 - 2.3. Operations Emissions Compared Against Thresholds
 - 2.4. Operations Emissions by Sector, Unmitigated

2.5. Operations Emissions by Sector, Mitigated

3. Construction Emissions Details

3.1. Site Preparation (2027)

3.1.1. Onsite - Unmitigated

3.1.2. Offsite - Unmitigated

3.1.3. Onsite - Mitigated

3.1.4. Offsite - Mitigated

3.2. Grading (2027)

3.2.1. Onsite - Unmitigated

3.2.2. Offsite - Unmitigated

3.2.3. Onsite - Mitigated

3.2.4. Offsite - Mitigated

3.3. Building Construction (2027)

3.3.1. Onsite - Unmitigated

3.3.2. Offsite - Unmitigated

3.3.3. Onsite - Mitigated

3.3.4. Offsite - Mitigated

3.4. Building Construction (2028)

3.4.1. Onsite - Unmitigated

3.4.2. Offsite - Unmitigated

3.4.3. Onsite - Mitigated

3.4.4. Offsite - Mitigated

3.5. Paving (2028)

3.5.1. Onsite - Unmitigated

3.5.2. Offsite - Unmitigated

3.5.3. Onsite - Mitigated

3.5.4. Offsite - Mitigated

3.6. Architectural Coating (2028)

3.6.1. Onsite - Unmitigated

3.6.2. Offsite - Unmitigated

3.6.3. Onsite - Mitigated

3.6.4. Offsite - Mitigated

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.1.2. Mitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.2. Electricity Emissions By Land Use - Mitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.2.4. Natural Gas Emissions By Land Use - Mitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.3.2. Mitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.4.2. Mitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.5.2. Mitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.6.2. Mitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.7.2. Mitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.8.2. Mitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.9.2. Mitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.2.2. Mitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.3.2. Mitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.9.2. Mitigated

5.10. Operational Area Sources

5.10.1. Hearths

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

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

8.1. Justifications

8.3. Land Use

8.4. Construction

8.4.1. Construction Phases

8.5. Operations

8.5.2. Area Sources

8.5.2.1. Hearths

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	BELG 008
Construction Start Date	6/1/2027
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50000
Precipitation (days)	18.4000
Location	33.96126671866968, -118.16530402390228
County	Los Angeles-South Coast
City	Bell Gardens
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4142
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.44

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Apartments Low Rise	22.0000	Dwelling Unit	1.37500	28,316.0	3,357.00	—	65.0000	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-9	Use Dust Suppressants
Construction	C-10-A	Water Exposed Surfaces
Construction	C-13	Use Low-VOC Paints for Construction

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	17.8653	17.8413	12.2158	14.4683	0.02267	0.53897	7.21330	7.75227	0.49585	3.45537	3.95123	—	2,588.35	2,588.35	0.10523	0.03205	0.84348	2,598.74
Mit.	1.67515	1.40928	12.2158	14.4683	0.02267	0.53897	2.89292	3.43189	0.49585	1.36629	1.86214	—	2,588.35	2,588.35	0.10523	0.03205	0.84348	2,598.74
% Reduced	91%	92%	—	—	—	—	60%	56%	—	60%	53%	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.23472	1.02832	8.40216	10.7510	0.01995	0.26185	0.22717	0.48901	0.24094	0.05409	0.29503	—	2,072.42	2,072.42	0.07890	0.03206	0.02187	2,083.97
Mit.	1.23472	1.02832	8.40216	10.7510	0.01995	0.26185	0.22717	0.48901	0.24094	0.05409	0.29503	—	2,072.42	2,072.42	0.07890	0.03206	0.02187	2,083.97
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.85614	0.79420	3.34831	4.14856	0.00728	0.12103	0.79992	0.92095	0.11135	0.36853	0.47989	—	779.827	779.827	0.02998	0.01049	0.10820	783.812
Mit.	0.48031	0.40142	3.34831	4.14856	0.00728	0.12103	0.35383	0.47486	0.11135	0.15366	0.26502	—	779.827	779.827	0.02998	0.01049	0.10820	783.812

% Reduced	44%	49%	—	—	—	—	56%	48%	—	58%	45%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.15625	0.14494	0.61107	0.75711	0.00133	0.02209	0.14599	0.16807	0.02032	0.06726	0.08758	—	129.109	129.109	0.00496	0.00174	0.01791	129.769
Mit.	0.08766	0.07326	0.61107	0.75711	0.00133	0.02209	0.06457	0.08666	0.02032	0.02804	0.04837	—	129.109	129.109	0.00496	0.00174	0.01791	129.769
% Reduced	44%	49%	—	—	—	—	56%	48%	—	58%	45%	—	—	—	—	—	—	—

2.2. Construction Emissions by Year

2.2.1. Total Construction Emissions by Year, Unmitigated

Includes both onsite and offsite emissions.

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	1.67515	1.40928	12.2158	14.4683	0.02267	0.53897	7.21330	7.75227	0.49585	3.45537	3.95123	—	2,588.35	2,588.35	0.10523	0.03205	0.84348	2,598.74
2028	17.8653	17.8413	8.01776	10.8051	0.01995	0.23140	0.22717	0.45856	0.21293	0.05409	0.26702	—	2,078.27	2,078.27	0.07768	0.03200	0.76713	2,090.52
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	1.23472	1.02832	8.40216	10.7510	0.01995	0.26185	0.22717	0.48901	0.24094	0.05409	0.29503	—	2,072.42	2,072.42	0.07890	0.03205	0.02187	2,083.97
2028	1.18129	0.98344	8.02842	10.6716	0.01995	0.23140	0.22717	0.45856	0.21293	0.05409	0.26702	—	2,067.59	2,067.59	0.07803	0.03206	0.01985	2,079.11
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.48031	0.40142	3.34831	4.14856	0.00728	0.12103	0.79992	0.92095	0.11135	0.36853	0.47989	—	779.827	779.827	0.02998	0.01049	0.10820	783.812
2028	0.85614	0.79420	2.52499	3.41402	0.00624	0.07326	0.07233	0.14559	0.06741	0.01719	0.08460	—	652.082	652.082	0.02453	0.00999	0.10548	655.778
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.08766	0.07326	0.61107	0.75711	0.00133	0.02209	0.14599	0.16807	0.02032	0.06726	0.08758	—	129.109	129.109	0.00496	0.00174	0.01791	129.769
2028	0.15625	0.14494	0.46081	0.62306	0.00114	0.01337	0.01320	0.02657	0.01230	0.00314	0.01544	—	107.960	107.960	0.00406	0.00165	0.01746	108.571

2.2.2. Onsite Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	1.63491	1.37378	12.1813	13.8677	0.02267	0.53897	7.08259	7.62156	0.49585	3.42474	3.92059	—	2,455.46	2,455.46	0.09960	0.01992	0.00000	2,463.88
2028	17.8530	17.8304	7.88994	9.87597	0.01943	0.23087	0.00000	0.23087	0.21240	0.00000	0.21240	—	1,801.31	1,801.31	0.07307	0.01461	0.00000	1,807.49
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	1.16707	0.97105	8.25338	9.90715	0.01942	0.26132	0.00000	0.26132	0.24041	0.00000	0.24041	—	1,800.91	1,800.91	0.07305	0.01461	0.00000	1,807.09
2028	1.11538	0.92809	7.88994	9.87597	0.01943	0.23087	0.00000	0.23087	0.21240	0.00000	0.21240	—	1,801.31	1,801.31	0.07307	0.01461	0.00000	1,807.49
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.45952	0.38372	3.30679	3.87572	0.00715	0.12089	0.73129	0.85219	0.11122	0.35225	0.46347	—	698.825	698.825	0.02835	0.00567	0.00000	701.224
2028	0.83497	0.77638	2.48212	3.14567	0.00608	0.07310	0.00000	0.07310	0.06725	0.00000	0.06725	—	566.632	566.632	0.02299	0.00460	0.00000	568.577
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.08386	0.07003	0.60349	0.70732	0.00131	0.02206	0.13346	0.15552	0.02030	0.06429	0.08458	—	115.699	115.699	0.00469	0.00094	0.00000	116.096
2028	0.15238	0.14169	0.45299	0.57408	0.00111	0.01334	0.00000	0.01334	0.01227	0.00000	0.01227	—	93.8124	93.8124	0.00381	0.00076	0.00000	94.1344

2.2.3. Offsite Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.06845	0.05842	0.13206	0.98826	0.00053	0.00053	0.22717	0.22769	0.00053	0.05409	0.05462	—	282.406	282.406	0.01195	0.01744	0.84348	288.746
2028	0.06635	0.05580	0.12783	0.92908	0.00053	0.00053	0.22717	0.22769	0.00053	0.05409	0.05462	—	276.961	276.961	0.00462	0.01739	0.76713	283.026

Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.06765	0.05727	0.14878	0.84387	0.00053	0.00053	0.22717	0.22769	0.00053	0.05409	0.05462	—	271.511	271.511	0.00584	0.01744	0.02187	276.877
2028	0.06590	0.05534	0.13849	0.79563	0.00053	0.00053	0.22717	0.22769	0.00053	0.05409	0.05462	—	266.279	266.279	0.00496	0.01744	0.01985	271.620
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.02079	0.01770	0.04152	0.27284	0.00013	0.00013	0.06863	0.06876	0.00013	0.01628	0.01642	—	81.0019	81.0019	0.00163	0.00482	0.10820	82.5884
2028	0.02117	0.01782	0.04288	0.26835	0.00016	0.00016	0.07233	0.07249	0.00016	0.01719	0.01735	—	85.4499	85.4499	0.00154	0.00539	0.10548	87.2007
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.00379	0.00323	0.00758	0.04979	0.00002	0.00002	0.01252	0.01255	0.00002	0.00297	0.00300	—	13.4108	13.4108	0.00027	0.00080	0.01791	13.6734
2028	0.00386	0.00325	0.00782	0.04897	0.00003	0.00003	0.01320	0.01323	0.00003	0.00314	0.00317	—	14.1472	14.1472	0.00026	0.00089	0.01746	14.4371

2.2.4. Total Construction Emissions by Year, Mitigated

Includes both onsite and offsite emissions.

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	1.67515	1.40928	12.2158	14.4683	0.02267	0.53897	2.89292	3.43189	0.49585	1.36629	1.86214	—	2,588.35	2,588.35	0.10523	0.03205	0.84348	2,598.74
2028	1.18174	0.98389	8.01776	10.8051	0.01995	0.23140	0.22717	0.45856	0.21293	0.05409	0.26702	—	2,078.27	2,078.27	0.07768	0.03200	0.76713	2,090.52
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	1.23472	1.02832	8.40216	10.7510	0.01995	0.26185	0.22717	0.48901	0.24094	0.05409	0.29503	—	2,072.42	2,072.42	0.07890	0.03205	0.02187	2,083.97
2028	1.18129	0.98344	8.02842	10.6716	0.01995	0.23140	0.22717	0.45856	0.21293	0.05409	0.26702	—	2,067.59	2,067.59	0.07803	0.03206	0.01985	2,079.11
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.48031	0.40142	3.34831	4.14856	0.00728	0.12103	0.35383	0.47486	0.11135	0.15366	0.26502	—	779.827	779.827	0.02998	0.01049	0.10820	783.812
2028	0.37057	0.30863	2.52499	3.41402	0.00624	0.07326	0.07233	0.14559	0.06741	0.01719	0.08460	—	652.082	652.082	0.02453	0.00999	0.10548	655.778

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.08766	0.07326	0.61107	0.75711	0.00133	0.02209	0.06457	0.08666	0.02032	0.02804	0.04837	—	129.109	129.109	0.00496	0.00174	0.01791	129.769
2028	0.06763	0.05633	0.46081	0.62306	0.00114	0.01337	0.01320	0.02657	0.01230	0.00314	0.01544	—	107.960	107.960	0.00406	0.00165	0.01746	108.571

2.2.5. Onsite 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	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	1.63491	1.37378	12.1813	13.8677	0.02267	0.53897	2.76221	3.30118	0.49585	1.33565	1.83150	—	2,455.46	2,455.46	0.09960	0.01992	0.00000	2,463.88
2028	1.11538	0.92809	7.88994	9.87597	0.01943	0.23087	0.00000	0.23087	0.21240	0.00000	0.21240	—	1,801.31	1,801.31	0.07307	0.01461	0.00000	1,807.49
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	1.16707	0.97105	8.25338	9.90715	0.01942	0.26132	0.00000	0.26132	0.24041	0.00000	0.24041	—	1,800.91	1,800.91	0.07305	0.01461	0.00000	1,807.09
2028	1.11538	0.92809	7.88994	9.87597	0.01943	0.23087	0.00000	0.23087	0.21240	0.00000	0.21240	—	1,801.31	1,801.31	0.07307	0.01461	0.00000	1,807.49
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.45952	0.38372	3.30679	3.87572	0.00715	0.12089	0.28520	0.40610	0.11122	0.13738	0.24860	—	698.825	698.825	0.02835	0.00567	0.00000	701.224
2028	0.34941	0.29081	2.48212	3.14567	0.00608	0.07310	0.00000	0.07310	0.06725	0.00000	0.06725	—	566.632	566.632	0.02299	0.00460	0.00000	568.577
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.08386	0.07003	0.60349	0.70732	0.00131	0.02206	0.05205	0.07411	0.02030	0.02507	0.04537	—	115.699	115.699	0.00469	0.00094	0.00000	116.096
2028	0.06377	0.05307	0.45299	0.57408	0.00111	0.01334	0.00000	0.01334	0.01227	0.00000	0.01227	—	93.8124	93.8124	0.00381	0.00076	0.00000	94.1344

2.2.6. Offsite 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	NBCO2	CO2T	CH4	N2O	R	CO2e
------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.06845	0.05842	0.13206	0.98826	0.00053	0.00053	0.22717	0.22769	0.00053	0.05409	0.05462	—	282.406	282.406	0.01195	0.01744	0.84348	288.746
2028	0.06635	0.05580	0.12783	0.92908	0.00053	0.00053	0.22717	0.22769	0.00053	0.05409	0.05462	—	276.961	276.961	0.00462	0.01739	0.76713	283.026
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.06765	0.05727	0.14878	0.84387	0.00053	0.00053	0.22717	0.22769	0.00053	0.05409	0.05462	—	271.511	271.511	0.00584	0.01744	0.02187	276.877
2028	0.06590	0.05534	0.13849	0.79563	0.00053	0.00053	0.22717	0.22769	0.00053	0.05409	0.05462	—	266.279	266.279	0.00496	0.01744	0.01985	271.620
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.02079	0.01770	0.04152	0.27284	0.00013	0.00013	0.06863	0.06876	0.00013	0.01628	0.01642	—	81.0019	81.0019	0.00163	0.00482	0.10820	82.5884
2028	0.02117	0.01782	0.04288	0.26835	0.00016	0.00016	0.07233	0.07249	0.00016	0.01719	0.01735	—	85.4499	85.4499	0.00154	0.00539	0.10548	87.2007
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.00379	0.00323	0.00758	0.04979	0.00002	0.00002	0.01252	0.01255	0.00002	0.00297	0.00300	—	13.4108	13.4108	0.00027	0.00080	0.01791	13.6734
2028	0.00386	0.00325	0.00782	0.04897	0.00003	0.00003	0.01320	0.01323	0.00003	0.00314	0.00317	—	14.1472	14.1472	0.00026	0.00089	0.01746	14.4371

2.3. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.97512	1.56175	0.50311	8.59776	0.01969	0.33517	0.97731	1.31248	0.32360	0.24825	0.57185	75.2408	1,299.90	1,375.14	1.45683	0.04678	3.10119	1,428.60
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.85499	1.44705	0.52442	7.04453	0.01921	0.33459	0.97731	1.31190	0.32317	0.24825	0.57142	75.2408	1,253.27	1,328.51	1.45895	0.04883	0.27795	1,379.81
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	1.29615	1.21718	0.45353	4.69220	0.01013	0.03526	0.86479	0.90005	0.03402	0.21971	0.25373	14.7692	1,160.69	1,175.46	1.12539	0.04435	1.32340	1,218.14
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.23655	0.22214	0.08277	0.85633	0.00185	0.00644	0.15782	0.16426	0.00621	0.04010	0.04631	2.44522	192.166	194.611	0.18632	0.00734	0.21910	201.676

2.4. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.57937	0.52925	0.35674	4.21253	0.01026	0.00619	0.97731	0.98350	0.00576	0.24825	0.25401	—	1,050.04	1,050.04	0.05070	0.04172	2.89839	1,066.64
Area	1.38515	1.02720	0.05580	4.34669	0.00885	0.32166	—	0.32166	0.31052	—	0.31052	64.9180	3.33712	68.2551	0.35200	0.00003	—	77.0634
Energy	0.01060	0.00530	0.09057	0.03854	0.00058	0.00732	—	0.00732	0.00732	—	0.00732	—	237.936	237.936	0.01780	0.00114	—	238.721
Water	—	—	—	—	—	—	—	—	—	—	—	1.57136	8.58101	10.1524	0.16166	0.00389	—	15.3538
Waste	—	—	—	—	—	—	—	—	—	—	—	8.75144	0.00000	8.75144	0.87468	0.00000	—	30.6183
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.20280	0.20280
Total	1.97512	1.56175	0.50311	8.59776	0.01969	0.33517	0.97731	1.31248	0.32360	0.24825	0.57185	75.2408	1,299.90	1,375.14	1.45683	0.04678	3.10119	1,428.60
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.57412	0.52333	0.38986	3.90963	0.00984	0.00620	0.97731	0.98351	0.00577	0.24825	0.25402	—	1,006.75	1,006.75	0.05296	0.04379	0.07515	1,021.20
Area	1.27027	0.91841	0.04398	3.09636	0.00880	0.32107	—	0.32107	0.31008	—	0.31008	64.9180	0.00000	64.9180	0.35186	0.00000	—	73.7145
Energy	0.01060	0.00530	0.09057	0.03854	0.00058	0.00732	—	0.00732	0.00732	—	0.00732	—	237.936	237.936	0.01780	0.00114	—	238.721
Water	—	—	—	—	—	—	—	—	—	—	—	1.57136	8.58101	10.1524	0.16166	0.00389	—	15.3538
Waste	—	—	—	—	—	—	—	—	—	—	—	8.75144	0.00000	8.75144	0.87468	0.00000	—	30.6183
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.20280	0.20280
Total	1.85499	1.44705	0.52442	7.04453	0.01921	0.33459	0.97731	1.31190	0.32317	0.24825	0.57142	75.2408	1,253.27	1,328.51	1.45895	0.04883	0.27795	1,379.81
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	0.51017	0.46478	0.35185	3.58519	0.00891	0.00555	0.86479	0.87033	0.00516	0.21971	0.22487	—	911.890	911.890	0.04706	0.03930	1.12060	925.897
Area	0.77538	0.74710	0.01111	1.06847	0.00064	0.02239	—	0.02239	0.02154	—	0.02154	4.44644	2.28570	6.73214	0.02420	0.00002	—	7.34268
Energy	0.01060	0.00530	0.09057	0.03854	0.00058	0.00732	—	0.00732	0.00732	—	0.00732	—	237.936	237.936	0.01780	0.00114	—	238.721
Water	—	—	—	—	—	—	—	—	—	—	—	1.57136	8.58101	10.1524	0.16166	0.00389	—	15.3538
Waste	—	—	—	—	—	—	—	—	—	—	—	8.75144	0.00000	8.75144	0.87468	0.00000	—	30.6183
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.20280	0.20280
Total	1.29615	1.21718	0.45353	4.69220	0.01013	0.03526	0.86479	0.90005	0.03402	0.21971	0.25373	14.7692	1,160.69	1,175.46	1.12539	0.04435	1.32340	1,218.14
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.09311	0.08482	0.06421	0.65430	0.00163	0.00101	0.15782	0.15884	0.00094	0.04010	0.04104	—	150.974	150.974	0.00779	0.00651	0.18553	153.293
Area	0.14151	0.13635	0.00203	0.19500	0.00012	0.00409	—	0.00409	0.00393	—	0.00393	0.73616	0.37842	1.11458	0.00401	< 0.000005	—	1.21566
Energy	0.00193	0.00097	0.01653	0.00703	0.00011	0.00134	—	0.00134	0.00134	—	0.00134	—	39.3930	39.3930	0.00295	0.00019	—	39.5230
Water	—	—	—	—	—	—	—	—	—	—	—	0.26016	1.42068	1.68084	0.02676	0.00064	—	2.54200
Waste	—	—	—	—	—	—	—	—	—	—	—	1.44890	0.00000	1.44890	0.14481	0.00000	—	5.06921
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03358	0.03358
Total	0.23655	0.22214	0.08277	0.85633	0.00185	0.00644	0.15782	0.16426	0.00621	0.04010	0.04631	2.44522	192.166	194.611	0.18632	0.00734	0.21910	201.676

2.5. Operations Emissions by Sector, Mitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.57937	0.52925	0.35674	4.21253	0.01026	0.00619	0.97731	0.98350	0.00576	0.24825	0.25401	—	1,050.04	1,050.04	0.05070	0.04172	2.89839	1,066.64
Area	1.38515	1.02720	0.05580	4.34669	0.00885	0.32166	—	0.32166	0.31052	—	0.31052	64.9180	3.33712	68.2551	0.35200	0.00003	—	77.0634
Energy	0.01060	0.00530	0.09057	0.03854	0.00058	0.00732	—	0.00732	0.00732	—	0.00732	—	237.936	237.936	0.01780	0.00114	—	238.721
Water	—	—	—	—	—	—	—	—	—	—	—	1.57136	8.58101	10.1524	0.16166	0.00389	—	15.3538
Waste	—	—	—	—	—	—	—	—	—	—	—	8.75144	0.00000	8.75144	0.87468	0.00000	—	30.6183
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.20280	0.20280

Total	1.97512	1.56175	0.50311	8.59776	0.01969	0.33517	0.97731	1.31248	0.32360	0.24825	0.57185	75.2408	1,299.90	1,375.14	1.45683	0.04678	3.10119	1,428.60
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.57412	0.52333	0.38986	3.90963	0.00984	0.00620	0.97731	0.98351	0.00577	0.24825	0.25402	—	1,006.75	1,006.75	0.05296	0.04379	0.07515	1,021.20
Area	1.27027	0.91841	0.04398	3.09636	0.00880	0.32107	—	0.32107	0.31008	—	0.31008	64.9180	0.00000	64.9180	0.35186	0.00000	—	73.7145
Energy	0.01060	0.00530	0.09057	0.03854	0.00058	0.00732	—	0.00732	0.00732	—	0.00732	—	237.936	237.936	0.01780	0.00114	—	238.721
Water	—	—	—	—	—	—	—	—	—	—	—	1.57136	8.58101	10.1524	0.16166	0.00389	—	15.3538
Waste	—	—	—	—	—	—	—	—	—	—	—	8.75144	0.00000	8.75144	0.87468	0.00000	—	30.6183
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.20280	0.20280
Total	1.85499	1.44705	0.52442	7.04453	0.01921	0.33459	0.97731	1.31190	0.32317	0.24825	0.57142	75.2408	1,253.27	1,328.51	1.45895	0.04883	0.27795	1,379.81
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.51017	0.46478	0.35185	3.58519	0.00891	0.00555	0.86479	0.87033	0.00516	0.21971	0.22487	—	911.890	911.890	0.04706	0.03930	1.12060	925.897
Area	0.77538	0.74710	0.01111	1.06847	0.00064	0.02239	—	0.02239	0.02154	—	0.02154	4.44644	2.28570	6.73214	0.02420	0.00002	—	7.34268
Energy	0.01060	0.00530	0.09057	0.03854	0.00058	0.00732	—	0.00732	0.00732	—	0.00732	—	237.936	237.936	0.01780	0.00114	—	238.721
Water	—	—	—	—	—	—	—	—	—	—	—	1.57136	8.58101	10.1524	0.16166	0.00389	—	15.3538
Waste	—	—	—	—	—	—	—	—	—	—	—	8.75144	0.00000	8.75144	0.87468	0.00000	—	30.6183
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.20280	0.20280
Total	1.29615	1.21718	0.45353	4.69220	0.01013	0.03526	0.86479	0.90005	0.03402	0.21971	0.25373	14.7692	1,160.69	1,175.46	1.12539	0.04435	1.32340	1,218.14
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.09311	0.08482	0.06421	0.65430	0.00163	0.00101	0.15782	0.15884	0.00094	0.04010	0.04104	—	150.974	150.974	0.00779	0.00651	0.18553	153.293
Area	0.14151	0.13635	0.00203	0.19500	0.00012	0.00409	—	0.00409	0.00393	—	0.00393	0.73616	0.37842	1.11458	0.00401	< 0.000005	—	1.21566
Energy	0.00193	0.00097	0.01653	0.00703	0.00011	0.00134	—	0.00134	0.00134	—	0.00134	—	39.3930	39.3930	0.00295	0.00019	—	39.5230
Water	—	—	—	—	—	—	—	—	—	—	—	0.26016	1.42068	1.68084	0.02676	0.00064	—	2.54200
Waste	—	—	—	—	—	—	—	—	—	—	—	1.44890	0.00000	1.44890	0.14481	0.00000	—	5.06921
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03358	0.03358
Total	0.23655	0.22214	0.08277	0.85633	0.00185	0.00644	0.15782	0.16426	0.00621	0.04010	0.04631	2.44522	192.166	194.611	0.18632	0.00734	0.21910	201.676

3. Construction Emissions Details

3.1. Site Preparation (2027)

3.1.1. Onsite - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.41617	1.18998	10.4379	11.5743	0.01907	0.47275	—	0.47275	0.43493	—	0.43493	—	2,065.36	2,065.36	0.08378	0.01676	—	2,072.45
Dust From Material Movement	—	—	—	—	—	—	6.26354	6.26354	—	3.00380	3.00380	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07760	0.06520	0.57194	0.63421	0.00104	0.02590	—	0.02590	0.02383	—	0.02383	—	113.171	113.171	0.00459	0.00092	—	113.559
Dust From Material Movement	—	—	—	—	—	—	0.34321	0.34321	—	0.16459	0.16459	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01416	0.01190	0.10438	0.11574	0.00019	0.00473	—	0.00473	0.00435	—	0.00435	—	18.7367	18.7367	0.00076	0.00015	—	18.8010
Dust From Material Movement	—	—	—	—	—	—	0.06264	0.06264	—	0.03004	0.03004	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.1.2. Offsite - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03018	0.02662	0.02588	0.45049	0.00000	0.00000	0.09803	0.09803	0.00000	0.02298	0.02298	—	99.6699	99.6699	0.00422	0.00355	0.31057	101.145
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00164	0.00143	0.00177	0.02198	0.00000	0.00000	0.00531	0.00531	0.00000	0.00124	0.00124	—	5.25407	5.25407	0.00007	0.00019	0.00733	5.32126
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00030	0.00026	0.00032	0.00401	0.00000	0.00000	0.00097	0.00097	0.00000	0.00023	0.00023	—	0.86987	0.86987	0.00001	0.00003	0.00121	0.88100
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.1.3. Onsite - 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	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.41617	1.18998	10.4379	11.5743	0.01907	0.47275	—	0.47275	0.43493	—	0.43493	—	2,065.36	2,065.36	0.08378	0.01676	—	2,072.45
Dust From Material Movement	—	—	—	—	—	—	2.44278	2.44278	—	1.17148	1.17148	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07760	0.06520	0.57194	0.63421	0.00104	0.02590	—	0.02590	0.02383	—	0.02383	—	113.171	113.171	0.00459	0.00092	—	113.559
Dust From Material Movement	—	—	—	—	—	—	0.13385	0.13385	—	0.06419	0.06419	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01416	0.01190	0.10438	0.11574	0.00019	0.00473	—	0.00473	0.00435	—	0.00435	—	18.7367	18.7367	0.00076	0.00015	—	18.8010

Dust From Material Movement	—	—	—	—	—	—	0.02443	0.02443	—	0.01171	0.01171	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.1.4. Offsite - 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	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03018	0.02662	0.02588	0.45049	0.00000	0.00000	0.09803	0.09803	0.00000	0.02298	0.02298	—	99.6699	99.6699	0.00422	0.00355	0.31057	101.145
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00164	0.00143	0.00177	0.02198	0.00000	0.00000	0.00531	0.00531	0.00000	0.00124	0.00124	—	5.25407	5.25407	0.00007	0.00019	0.00733	5.32126
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00030	0.00026	0.00032	0.00401	0.00000	0.00000	0.00097	0.00097	0.00000	0.00023	0.00023	—	0.86987	0.86987	0.00001	0.00003	0.00121	0.88100
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.2. Grading (2027)

3.2.1. Onsite - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.63491	1.37378	12.1813	13.8677	0.02267	0.53897	—	0.53897	0.49585	—	0.49585	—	2,455.46	2,455.46	0.09960	0.01992	—	2,463.88
Dust From Material Movement	—	—	—	—	—	—	7.08259	7.08259	—	3.42474	3.42474	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08958	0.07528	0.66747	0.75987	0.00124	0.02953	—	0.02953	0.02717	—	0.02717	—	134.546	134.546	0.00546	0.00109	—	135.007
Dust From Material Movement	—	—	—	—	—	—	0.38809	0.38809	—	0.18766	0.18766	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01635	0.01374	0.12181	0.13868	0.00023	0.00539	—	0.00539	0.00496	—	0.00496	—	22.2756	22.2756	0.00090	0.00018	—	22.3520

Dust From Material Movement	—	—	—	—	—	—	0.07083	0.07083	—	0.03425	0.03425	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.2.2. Offsite - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04023	0.03549	0.03450	0.60065	0.00000	0.00000	0.13071	0.13071	0.00000	0.03064	0.03064	—	132.893	132.893	0.00562	0.00474	0.41410	134.860
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00218	0.00191	0.00236	0.02931	0.00000	0.00000	0.00708	0.00708	0.00000	0.00166	0.00166	—	7.00543	7.00543	0.00010	0.00026	0.00978	7.09502
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00040	0.00035	0.00043	0.00535	0.00000	0.00000	0.00129	0.00129	0.00000	0.00030	0.00030	—	1.15983	1.15983	0.00002	0.00004	0.00162	1.17466
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.2.3. Onsite - 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	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.63491	1.37378	12.1813	13.8677	0.02267	0.53897	—	0.53897	0.49585	—	0.49585	—	2,455.46	2,455.46	0.09960	0.01992	—	2,463.88
Dust From Material Movement	—	—	—	—	—	—	2.76221	2.76221	—	1.33565	1.33565	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08958	0.07528	0.66747	0.75987	0.00124	0.02953	—	0.02953	0.02717	—	0.02717	—	134.546	134.546	0.00546	0.00109	—	135.007
Dust From Material Movement	—	—	—	—	—	—	0.15135	0.15135	—	0.07319	0.07319	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01635	0.01374	0.12181	0.13868	0.00023	0.00539	—	0.00539	0.00496	—	0.00496	—	22.2756	22.2756	0.00090	0.00018	—	22.3520
Dust From Material Movement	—	—	—	—	—	—	0.02762	0.02762	—	0.01336	0.01336	—	—	—	—	—	—	—

Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
--------------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---	---------	---------	---------	---------	---------	---------

3.2.4. Offsite - 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	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04023	0.03549	0.03450	0.60065	0.00000	0.00000	0.13071	0.13071	0.00000	0.03064	0.03064	—	132.893	132.893	0.00562	0.00474	0.41410	134.860
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00218	0.00191	0.00236	0.02931	0.00000	0.00000	0.00708	0.00708	0.00000	0.00166	0.00166	—	7.00543	7.00543	0.00010	0.00026	0.00978	7.09502
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00040	0.00035	0.00043	0.00535	0.00000	0.00000	0.00129	0.00129	0.00000	0.00030	0.00030	—	1.15983	1.15983	0.00002	0.00004	0.00162	1.17466
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.3. Building Construction (2027)

3.3.1. Onsite - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.16707	0.97105	8.25338	9.90715	0.01942	0.26132	—	0.26132	0.24041	—	0.24041	—	1,800.91	1,800.91	0.07305	0.01461	—	1,807.09
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.16707	0.97105	8.25338	9.90715	0.01942	0.26132	—	0.26132	0.24041	—	0.24041	—	1,800.91	1,800.91	0.07305	0.01461	—	1,807.09
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.29234	0.24324	2.06738	2.48164	0.00486	0.06546	—	0.06546	0.06022	—	0.06022	—	451.109	451.109	0.01830	0.00366	—	452.657
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05335	0.04439	0.37730	0.45290	0.00089	0.01195	—	0.01195	0.01099	—	0.01099	—	74.6863	74.6863	0.00303	0.00061	—	74.9426
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.3.2. Offsite - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06373	0.05622	0.05465	0.95143	0.00000	0.00000	0.20704	0.20704	0.00000	0.04853	0.04853	—	210.503	210.503	0.00890	0.00751	0.65593	213.619
Vendor	0.00472	0.00220	0.07741	0.03683	0.00053	0.00053	0.02012	0.02065	0.00053	0.00556	0.00609	—	71.9033	71.9033	0.00305	0.00993	0.18755	75.1274
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06303	0.05518	0.06827	0.80616	0.00000	0.00000	0.20704	0.20704	0.00000	0.04853	0.04853	—	199.568	199.568	0.00279	0.00751	0.01700	201.893
Vendor	0.00461	0.00209	0.08051	0.03771	0.00053	0.00053	0.02012	0.02065	0.00053	0.00556	0.00609	—	71.9429	71.9429	0.00305	0.00993	0.00487	74.9844
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01579	0.01382	0.01710	0.21221	0.00000	0.00000	0.05125	0.05125	0.00000	0.01200	0.01200	—	50.7273	50.7273	0.00070	0.00188	0.07081	51.3761
Vendor	0.00118	0.00054	0.02029	0.00934	0.00013	0.00013	0.00499	0.00512	0.00013	0.00138	0.00151	—	18.0151	18.0151	0.00076	0.00249	0.02027	18.7960
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00288	0.00252	0.00312	0.03873	0.00000	0.00000	0.00935	0.00935	0.00000	0.00219	0.00219	—	8.39848	8.39848	0.00012	0.00031	0.01172	8.50589
Vendor	0.00022	0.00010	0.00370	0.00171	0.00002	0.00002	0.00091	0.00093	0.00002	0.00025	0.00028	—	2.98261	2.98261	0.00013	0.00041	0.00336	3.11190
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.3.3. Onsite - 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	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	1.16707	0.97105	8.25338	9.90715	0.01942	0.26132	—	0.26132	0.24041	—	0.24041	—	1,800.91	1,800.91	0.07305	0.01461	—	1,807.09
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	1.16707	0.97105	8.25338	9.90715	0.01942	0.26132	—	0.26132	0.24041	—	0.24041	—	1,800.91	1,800.91	0.07305	0.01461	—	1,807.09
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.29234	0.24324	2.06738	2.48164	0.00486	0.06546	—	0.06546	0.06022	—	0.06022	—	451.109	451.109	0.01830	0.00366	—	452.657
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.05335	0.04439	0.37730	0.45290	0.00089	0.01195	—	0.01195	0.01099	—	0.01099	—	74.6863	74.6863	0.00303	0.00061	—	74.9426
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.3.4. Offsite - 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	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.06373	0.05622	0.05465	0.95143	0.00000	0.00000	0.20704	0.20704	0.00000	0.04853	0.04853	—	210.503	210.503	0.00890	0.00751	0.65593	213.619
Vendor	0.00472	0.00220	0.07741	0.03683	0.00053	0.00053	0.02012	0.02065	0.00053	0.00556	0.00609	—	71.9033	71.9033	0.00305	0.00993	0.18755	75.1274
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06303	0.05518	0.06827	0.80616	0.00000	0.00000	0.20704	0.20704	0.00000	0.04853	0.04853	—	199.568	199.568	0.00279	0.00751	0.01700	201.893
Vendor	0.00461	0.00209	0.08051	0.03771	0.00053	0.00053	0.02012	0.02065	0.00053	0.00556	0.00609	—	71.9429	71.9429	0.00305	0.00993	0.00487	74.9844
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01579	0.01382	0.01710	0.21221	0.00000	0.00000	0.05125	0.05125	0.00000	0.01200	0.01200	—	50.7273	50.7273	0.00070	0.00188	0.07081	51.3761
Vendor	0.00118	0.00054	0.02029	0.00934	0.00013	0.00013	0.00499	0.00512	0.00013	0.00138	0.00151	—	18.0151	18.0151	0.00076	0.00249	0.02027	18.7960
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00288	0.00252	0.00312	0.03873	0.00000	0.00000	0.00935	0.00935	0.00000	0.00219	0.00219	—	8.39848	8.39848	0.00012	0.00031	0.01172	8.50589
Vendor	0.00022	0.00010	0.00370	0.00171	0.00002	0.00002	0.00091	0.00093	0.00002	0.00025	0.00028	—	2.98261	2.98261	0.00013	0.00041	0.00336	3.11190
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.4. Building Construction (2028)

3.4.1. Onsite - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	1.11538	0.92809	7.88994	9.87597	0.01943	0.23087	—	0.23087	0.21240	—	0.21240	—	1,801.31	1,801.31	0.07307	0.01461	—	1,807.49

Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	1.11538	0.92809	7.88994	9.87597	0.01943	0.23087	—	0.23087	0.21240	—	0.21240	—	1,801.31	1,801.31	0.07307	0.01461	—	1,807.49
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.33178	0.27607	2.34691	2.93767	0.00578	0.06867	—	0.06867	0.06318	—	0.06318	—	535.811	535.811	0.02173	0.00435	—	537.650
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.06055	0.05038	0.42831	0.53612	0.00105	0.01253	—	0.01253	0.01153	—	0.01153	—	88.7097	88.7097	0.00360	0.00072	—	89.0141
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.4.2. Offsite - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06164	0.05413	0.05395	0.89346	0.00000	0.00000	0.20704	0.20704	0.00000	0.04853	0.04853	—	206.735	206.735	0.00210	0.00751	0.58941	209.614
Vendor	0.00472	0.00167	0.07387	0.03562	0.00053	0.00053	0.02012	0.02065	0.00053	0.00556	0.00609	—	70.2260	70.2260	0.00252	0.00988	0.17772	73.4117

Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06129	0.05378	0.06146	0.75971	0.00000	0.00000	0.20704	0.20704	0.00000	0.04853	0.04853	—	196.011	196.011	0.00244	0.00751	0.01524	198.324
Vendor	0.00461	0.00157	0.07703	0.03592	0.00053	0.00053	0.02012	0.02065	0.00053	0.00556	0.00609	—	70.2679	70.2679	0.00252	0.00993	0.00461	73.2958
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01813	0.01589	0.01818	0.23626	0.00000	0.00000	0.06086	0.06086	0.00000	0.01425	0.01425	—	59.1652	59.1652	0.00073	0.00223	0.07585	59.9248
Vendor	0.00139	0.00048	0.02304	0.01056	0.00016	0.00016	0.00593	0.00608	0.00016	0.00164	0.00180	—	20.8944	20.8944	0.00075	0.00295	0.02272	21.8165
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00331	0.00290	0.00332	0.04312	0.00000	0.00000	0.01111	0.01111	0.00000	0.00260	0.00260	—	9.79548	9.79548	0.00012	0.00037	0.01256	9.92123
Vendor	0.00025	0.00009	0.00421	0.00193	0.00003	0.00003	0.00108	0.00111	0.00003	0.00030	0.00033	—	3.45931	3.45931	0.00012	0.00049	0.00376	3.61196
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.4.3. Onsite - 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	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	1.11538	0.92809	7.88994	9.87597	0.01943	0.23087	—	0.23087	0.21240	—	0.21240	—	1,801.31	1,801.31	0.07307	0.01461	—	1,807.49
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.11538	0.92809	7.88994	9.87597	0.01943	0.23087	—	0.23087	0.21240	—	0.21240	—	1,801.31	1,801.31	0.07307	0.01461	—	1,807.49
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.33178	0.27607	2.34691	2.93767	0.00578	0.06867	—	0.06867	0.06318	—	0.06318	—	535.811	535.811	0.02173	0.00435	—	537.650
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06055	0.05038	0.42831	0.53612	0.00105	0.01253	—	0.01253	0.01153	—	0.01153	—	88.7097	88.7097	0.00360	0.00072	—	89.0141
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.4.4. Offsite - 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	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06164	0.05413	0.05395	0.89346	0.00000	0.00000	0.20704	0.20704	0.00000	0.04853	0.04853	—	206.735	206.735	0.00210	0.00751	0.58941	209.614
Vendor	0.00472	0.00167	0.07387	0.03562	0.00053	0.00053	0.02012	0.02065	0.00053	0.00556	0.00609	—	70.2260	70.2260	0.00252	0.00988	0.17772	73.4117
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06129	0.05378	0.06146	0.75971	0.00000	0.00000	0.20704	0.20704	0.00000	0.04853	0.04853	—	196.011	196.011	0.00244	0.00751	0.01524	198.324
Vendor	0.00461	0.00157	0.07703	0.03592	0.00053	0.00053	0.02012	0.02065	0.00053	0.00556	0.00609	—	70.2679	70.2679	0.00252	0.00993	0.00461	73.2958

Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01813	0.01589	0.01818	0.23626	0.00000	0.00000	0.06086	0.06086	0.00000	0.01425	0.01425	—	59.1652	59.1652	0.00073	0.00223	0.07585	59.9248
Vendor	0.00139	0.00048	0.02304	0.01056	0.00016	0.00016	0.00593	0.00608	0.00016	0.00164	0.00180	—	20.8944	20.8944	0.00075	0.00295	0.02272	21.8165
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00331	0.00290	0.00332	0.04312	0.00000	0.00000	0.01111	0.01111	0.00000	0.00260	0.00260	—	9.79548	9.79548	0.00012	0.00037	0.01256	9.92123
Vendor	0.00025	0.00009	0.00421	0.00193	0.00003	0.00003	0.00108	0.00111	0.00003	0.00030	0.00033	—	3.45931	3.45931	0.00012	0.00049	0.00376	3.61196
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.5. Paving (2028)

3.5.1. Onsite - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.51364	0.43091	4.12704	6.47373	0.00940	0.14628	—	0.14628	0.13458	—	0.13458	—	991.455	991.455	0.04022	0.00804	—	994.858
Paving	0.00000	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.01407	0.01181	0.11307	0.17736	0.00026	0.00401	—	0.00401	0.00369	—	0.00369	—	27.1632	27.1632	0.00110	0.00022	—	27.2564
Paving	0.00000	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00257	0.00215	0.02064	0.03237	0.00005	0.00073	—	0.00073	0.00067	—	0.00067	—	4.49717	4.49717	0.00018	0.00004	—	4.51260
Paving	0.00000	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.5.2. Offsite - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04864	0.04271	0.04258	0.70507	0.00000	0.00000	0.16339	0.16339	0.00000	0.03830	0.03830	—	163.143	163.143	0.00165	0.00592	0.46513	165.415
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00132	0.00116	0.00132	0.01717	0.00000	0.00000	0.00442	0.00442	0.00000	0.00104	0.00104	—	4.30037	4.30037	0.00005	0.00016	0.00551	4.35558
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.00024	0.00021	0.00024	0.00313	0.00000	0.00000	0.00081	0.00081	0.00000	0.00019	0.00019	—	0.71198	0.71198	0.00001	0.00003	0.00091	0.72112
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.5.3. Onsite - 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	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.51364	0.43091	4.12704	6.47373	0.00940	0.14628	—	0.14628	0.13458	—	0.13458	—	991.455	991.455	0.04022	0.00804	—	994.858
Paving	0.00000	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01407	0.01181	0.11307	0.17736	0.00026	0.00401	—	0.00401	0.00369	—	0.00369	—	27.1632	27.1632	0.00110	0.00022	—	27.2564
Paving	0.00000	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00257	0.00215	0.02064	0.03237	0.00005	0.00073	—	0.00073	0.00067	—	0.00067	—	4.49717	4.49717	0.00018	0.00004	—	4.51260

Paving	0.00000	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.5.4. Offsite - 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	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04864	0.04271	0.04258	0.70507	0.00000	0.00000	0.16339	0.16339	0.00000	0.03830	0.03830	—	163.143	163.143	0.00165	0.00592	0.46513	165.415
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00132	0.00116	0.00132	0.01717	0.00000	0.00000	0.00442	0.00442	0.00000	0.00104	0.00104	—	4.30037	4.30037	0.00005	0.00016	0.00551	4.35558
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00024	0.00021	0.00024	0.00313	0.00000	0.00000	0.00081	0.00081	0.00000	0.00019	0.00019	—	0.71198	0.71198	0.00001	0.00003	0.00091	0.72112
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.6. Architectural Coating (2028)

3.6.1. Onsite - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12985	0.10731	0.80814	1.11833	0.00173	0.01536	—	0.01536	0.01413	—	0.01413	—	133.517	133.517	0.00542	0.00108	—	133.975
Architectural Coatings	17.7231	17.7231	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00356	0.00294	0.02214	0.03064	0.00005	0.00042	—	0.00042	0.00039	—	0.00039	—	3.65800	3.65800	0.00015	0.00003	—	3.67055
Architectural Coatings	0.48557	0.48557	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00065	0.00054	0.00404	0.00559	0.00001	0.00008	—	0.00008	0.00007	—	0.00007	—	0.60562	0.60562	0.00002	< 0.000005	—	0.60770
Architectural Coatings	0.08862	0.08862	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
--------------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---	---------	---------	---------	---------	---------	---------

3.6.2. Offsite - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01233	0.01083	0.01079	0.17869	0.00000	0.00000	0.04141	0.04141	0.00000	0.00971	0.00971	—	41.3469	41.3469	0.00042	0.00150	0.11788	41.9228
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00033	0.00029	0.00033	0.00435	0.00000	0.00000	0.00112	0.00112	0.00000	0.00026	0.00026	—	1.08989	1.08989	0.00001	0.00004	0.00140	1.10388
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00006	0.00005	0.00006	0.00079	0.00000	0.00000	0.00020	0.00020	0.00000	0.00005	0.00005	—	0.18044	0.18044	< 0.000005	0.00001	0.00023	0.18276
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.6.3. Onsite - 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	NBCO2	CO2T	CH4	N2O	R	CO2e
----------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12985	0.10731	0.80814	1.11833	0.00173	0.01536	—	0.01536	0.01413	—	0.01413	—	133.517	133.517	0.00542	0.00108	—	133.975
Architectural Coatings	0.00000	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00356	0.00294	0.02214	0.03064	0.00005	0.00042	—	0.00042	0.00039	—	0.00039	—	3.65800	3.65800	0.00015	0.00003	—	3.67055
Architectural Coatings	0.00000	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00065	0.00054	0.00404	0.00559	0.00001	0.00008	—	0.00008	0.00007	—	0.00007	—	0.60562	0.60562	0.00002	< 0.000005	—	0.60770
Architectural Coatings	0.00000	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
--------------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---	---------	---------	---------	---------	---------	---------

3.6.4. Offsite - 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	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01233	0.01083	0.01079	0.17869	0.00000	0.00000	0.04141	0.04141	0.00000	0.00971	0.00971	—	41.3469	41.3469	0.00042	0.00150	0.11788	41.9228
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00033	0.00029	0.00033	0.00435	0.00000	0.00000	0.00112	0.00112	0.00000	0.00026	0.00026	—	1.08989	1.08989	0.00001	0.00004	0.00140	1.10388
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00006	0.00005	0.00006	0.00079	0.00000	0.00000	0.00020	0.00020	0.00000	0.00005	0.00005	—	0.18044	0.18044	< 0.000005	0.00001	0.00023	0.18276
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.57937	0.52925	0.35674	4.21253	0.01026	0.00619	0.97731	0.98350	0.00576	0.24825	0.25401	—	1,050.04	1,050.04	0.05070	0.04172	2.89839	1,066.64
Total	0.57937	0.52925	0.35674	4.21253	0.01026	0.00619	0.97731	0.98350	0.00576	0.24825	0.25401	—	1,050.04	1,050.04	0.05070	0.04172	2.89839	1,066.64
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.57412	0.52333	0.38986	3.90963	0.00984	0.00620	0.97731	0.98351	0.00577	0.24825	0.25402	—	1,006.75	1,006.75	0.05296	0.04379	0.07515	1,021.20
Total	0.57412	0.52333	0.38986	3.90963	0.00984	0.00620	0.97731	0.98351	0.00577	0.24825	0.25402	—	1,006.75	1,006.75	0.05296	0.04379	0.07515	1,021.20
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.09311	0.08482	0.06421	0.65430	0.00163	0.00101	0.15782	0.15884	0.00094	0.04010	0.04104	—	150.974	150.974	0.00779	0.00651	0.18553	153.293
Total	0.09311	0.08482	0.06421	0.65430	0.00163	0.00101	0.15782	0.15884	0.00094	0.04010	0.04104	—	150.974	150.974	0.00779	0.00651	0.18553	153.293

4.1.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.57937	0.52925	0.35674	4.21253	0.01026	0.00619	0.97731	0.98350	0.00576	0.24825	0.25401	—	1,050.04	1,050.04	0.05070	0.04172	2.89839	1,066.64
Total	0.57937	0.52925	0.35674	4.21253	0.01026	0.00619	0.97731	0.98350	0.00576	0.24825	0.25401	—	1,050.04	1,050.04	0.05070	0.04172	2.89839	1,066.64

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.57412	0.52333	0.38986	3.90963	0.00984	0.00620	0.97731	0.98351	0.00577	0.24825	0.25402	—	1,006.75	1,006.75	0.05296	0.04379	0.07515	1,021.20
Total	0.57412	0.52333	0.38986	3.90963	0.00984	0.00620	0.97731	0.98351	0.00577	0.24825	0.25402	—	1,006.75	1,006.75	0.05296	0.04379	0.07515	1,021.20
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.09311	0.08482	0.06421	0.65430	0.00163	0.00101	0.15782	0.15884	0.00094	0.04010	0.04104	—	150.974	150.974	0.00779	0.00651	0.18553	153.293
Total	0.09311	0.08482	0.06421	0.65430	0.00163	0.00101	0.15782	0.15884	0.00094	0.04010	0.04104	—	150.974	150.974	0.00779	0.00651	0.18553	153.293

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	122.970	122.970	0.00763	0.00092	—	123.436
Total	—	—	—	—	—	—	—	—	—	—	—	—	122.970	122.970	0.00763	0.00092	—	123.436
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	122.970	122.970	0.00763	0.00092	—	123.436
Total	—	—	—	—	—	—	—	—	—	—	—	—	122.970	122.970	0.00763	0.00092	—	123.436
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Apartme Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	20.3590	20.3590	0.00126	0.00015	—	20.4362
Total	—	—	—	—	—	—	—	—	—	—	—	—	20.3590	20.3590	0.00126	0.00015	—	20.4362

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	122.970	122.970	0.00763	0.00092	—	123.436
Total	—	—	—	—	—	—	—	—	—	—	—	—	122.970	122.970	0.00763	0.00092	—	123.436
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	122.970	122.970	0.00763	0.00092	—	123.436
Total	—	—	—	—	—	—	—	—	—	—	—	—	122.970	122.970	0.00763	0.00092	—	123.436
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	20.3590	20.3590	0.00126	0.00015	—	20.4362
Total	—	—	—	—	—	—	—	—	—	—	—	—	20.3590	20.3590	0.00126	0.00015	—	20.4362

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.01060	0.00530	0.09057	0.03854	0.00058	0.00732	—	0.00732	0.00732	—	0.00732	—	114.966	114.966	0.01017	0.00022	—	115.285
Total	0.01060	0.00530	0.09057	0.03854	0.00058	0.00732	—	0.00732	0.00732	—	0.00732	—	114.966	114.966	0.01017	0.00022	—	115.285
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.01060	0.00530	0.09057	0.03854	0.00058	0.00732	—	0.00732	0.00732	—	0.00732	—	114.966	114.966	0.01017	0.00022	—	115.285
Total	0.01060	0.00530	0.09057	0.03854	0.00058	0.00732	—	0.00732	0.00732	—	0.00732	—	114.966	114.966	0.01017	0.00022	—	115.285
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.00193	0.00097	0.01653	0.00703	0.00011	0.00134	—	0.00134	0.00134	—	0.00134	—	19.0339	19.0339	0.00168	0.00004	—	19.0867
Total	0.00193	0.00097	0.01653	0.00703	0.00011	0.00134	—	0.00134	0.00134	—	0.00134	—	19.0339	19.0339	0.00168	0.00004	—	19.0867

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.01060	0.00530	0.09057	0.03854	0.00058	0.00732	—	0.00732	0.00732	—	0.00732	—	114.966	114.966	0.01017	0.00022	—	115.285
Total	0.01060	0.00530	0.09057	0.03854	0.00058	0.00732	—	0.00732	0.00732	—	0.00732	—	114.966	114.966	0.01017	0.00022	—	115.285
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Apartme Low Rise	0.01060	0.00530	0.09057	0.03854	0.00058	0.00732	—	0.00732	0.00732	—	0.00732	—	114.966	114.966	0.01017	0.00022	—	115.285
Total	0.01060	0.00530	0.09057	0.03854	0.00058	0.00732	—	0.00732	0.00732	—	0.00732	—	114.966	114.966	0.01017	0.00022	—	115.285
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts Low Rise	0.00193	0.00097	0.01653	0.00703	0.00011	0.00134	—	0.00134	0.00134	—	0.00134	—	19.0339	19.0339	0.00168	0.00004	—	19.0867
Total	0.00193	0.00097	0.01653	0.00703	0.00011	0.00134	—	0.00134	0.00134	—	0.00134	—	19.0339	19.0339	0.00168	0.00004	—	19.0867

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.61575	0.26389	0.04398	3.09636	0.00880	0.32107	—	0.32107	0.31008	—	0.31008	64.9180	0.00000	64.9180	0.35186	0.00000	—	73.7145
Consum er Product s	0.60596	0.60596	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architect ural Coating s	0.04856	0.04856	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landsca pe Equipm ent	0.11488	0.10878	0.01182	1.25033	0.00005	0.00058	—	0.00058	0.00044	—	0.00044	—	3.33712	3.33712	0.00014	0.00003	—	3.34886
Total	1.38515	1.02720	0.05580	4.34669	0.00885	0.32166	—	0.32166	0.31052	—	0.31052	64.9180	3.33712	68.2551	0.35200	0.00003	—	77.0634
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Hearths	0.61575	0.26389	0.04398	3.09636	0.00880	0.32107	—	0.32107	0.31008	—	0.31008	64.9180	0.00000	64.9180	0.35186	0.00000	—	73.7145
Consumer Products	0.60596	0.60596	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.04856	0.04856	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	1.27027	0.91841	0.04398	3.09636	0.00880	0.32107	—	0.32107	0.31008	—	0.31008	64.9180	0.00000	64.9180	0.35186	0.00000	—	73.7145
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00770	0.00330	0.00055	0.03870	0.00011	0.00401	—	0.00401	0.00388	—	0.00388	0.73616	0.00000	0.73616	0.00399	0.00000	—	0.83591
Consumer Products	0.11059	0.11059	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.00886	0.00886	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.01436	0.01360	0.00148	0.15629	0.00001	0.00007	—	0.00007	0.00006	—	0.00006	—	0.37842	0.37842	0.00002	< 0.000005	—	0.37975
Total	0.14151	0.13635	0.00203	0.19500	0.00012	0.00409	—	0.00409	0.00393	—	0.00393	0.73616	0.37842	1.11458	0.00401	< 0.000005	—	1.21566

4.3.2. Mitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.61575	0.26389	0.04398	3.09636	0.00880	0.32107	—	0.32107	0.31008	—	0.31008	64.9180	0.00000	64.9180	0.35186	0.00000	—	73.7145

Consumer	0.60596	0.60596	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.04856	0.04856	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.11488	0.10878	0.01182	1.25033	0.00005	0.00058	—	0.00058	0.00044	—	0.00044	—	3.33712	3.33712	0.00014	0.00003	—	3.34886
Total	1.38515	1.02720	0.05580	4.34669	0.00885	0.32166	—	0.32166	0.31052	—	0.31052	64.9180	3.33712	68.2551	0.35200	0.00003	—	77.0634
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.61575	0.26389	0.04398	3.09636	0.00880	0.32107	—	0.32107	0.31008	—	0.31008	64.9180	0.00000	64.9180	0.35186	0.00000	—	73.7145
Consumer Products	0.60596	0.60596	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.04856	0.04856	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	1.27027	0.91841	0.04398	3.09636	0.00880	0.32107	—	0.32107	0.31008	—	0.31008	64.9180	0.00000	64.9180	0.35186	0.00000	—	73.7145
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00770	0.00330	0.00055	0.03870	0.00011	0.00401	—	0.00401	0.00388	—	0.00388	0.73616	0.00000	0.73616	0.00399	0.00000	—	0.83591
Consumer Products	0.11059	0.11059	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.00886	0.00886	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscape Equipment	0.01436	0.01360	0.00148	0.15629	0.00001	0.00007	—	0.00007	0.00006	—	0.00006	—	0.37842	0.37842	0.00002	< 0.000005	—	0.37975
Total	0.14151	0.13635	0.00203	0.19500	0.00012	0.00409	—	0.00409	0.00393	—	0.00393	0.73616	0.37842	1.11458	0.00401	< 0.000005	—	1.21566

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	1.57136	8.58101	10.1524	0.16166	0.00389	—	15.3538
Total	—	—	—	—	—	—	—	—	—	—	—	1.57136	8.58101	10.1524	0.16166	0.00389	—	15.3538
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	1.57136	8.58101	10.1524	0.16166	0.00389	—	15.3538
Total	—	—	—	—	—	—	—	—	—	—	—	1.57136	8.58101	10.1524	0.16166	0.00389	—	15.3538
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	0.26016	1.42068	1.68084	0.02676	0.00064	—	2.54200
Total	—	—	—	—	—	—	—	—	—	—	—	0.26016	1.42068	1.68084	0.02676	0.00064	—	2.54200

4.4.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	1.57136	8.58101	10.1524	0.16166	0.00389	—	15.3538
Total	—	—	—	—	—	—	—	—	—	—	—	1.57136	8.58101	10.1524	0.16166	0.00389	—	15.3538
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	1.57136	8.58101	10.1524	0.16166	0.00389	—	15.3538
Total	—	—	—	—	—	—	—	—	—	—	—	1.57136	8.58101	10.1524	0.16166	0.00389	—	15.3538
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	0.26016	1.42068	1.68084	0.02676	0.00064	—	2.54200
Total	—	—	—	—	—	—	—	—	—	—	—	0.26016	1.42068	1.68084	0.02676	0.00064	—	2.54200

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

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

Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	8.75144	0.00000	8.75144	0.87468	0.00000	—	30.6183
Total	—	—	—	—	—	—	—	—	—	—	—	8.75144	0.00000	8.75144	0.87468	0.00000	—	30.6183
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	8.75144	0.00000	8.75144	0.87468	0.00000	—	30.6183
Total	—	—	—	—	—	—	—	—	—	—	—	8.75144	0.00000	8.75144	0.87468	0.00000	—	30.6183
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	1.44890	0.00000	1.44890	0.14481	0.00000	—	5.06921
Total	—	—	—	—	—	—	—	—	—	—	—	1.44890	0.00000	1.44890	0.14481	0.00000	—	5.06921

4.5.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	8.75144	0.00000	8.75144	0.87468	0.00000	—	30.6183
Total	—	—	—	—	—	—	—	—	—	—	—	8.75144	0.00000	8.75144	0.87468	0.00000	—	30.6183
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	8.75144	0.00000	8.75144	0.87468	0.00000	—	30.6183

Total	—	—	—	—	—	—	—	—	—	—	—	8.75144	0.00000	8.75144	0.87468	0.00000	—	30.6183
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts Low Rise	—	—	—	—	—	—	—	—	—	—	—	1.44890	0.00000	1.44890	0.14481	0.00000	—	5.06921
Total	—	—	—	—	—	—	—	—	—	—	—	1.44890	0.00000	1.44890	0.14481	0.00000	—	5.06921

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.20280	0.20280
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.20280	0.20280
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.20280	0.20280
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.20280	0.20280
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03358	0.03358
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03358	0.03358

4.6.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.20280	0.20280
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.20280	0.20280
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.20280	0.20280
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.20280	0.20280
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03358	0.03358
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03358	0.03358

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	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
----------------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

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

4.7.2. Mitigated

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

4.8.2. Mitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.9.2. Mitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
-------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	7/1/2027	7/28/2027	5.00000	20.0000	—
Grading	Grading	7/29/2027	8/25/2027	5.00000	20.0000	—
Building Construction	Building Construction	8/26/2027	5/31/2028	5.00000	200.000	—
Paving	Paving	6/1/2028	6/14/2028	5.00000	10.00000	—
Architectural Coating	Architectural Coating	6/15/2028	6/28/2028	5.00000	10.00000	—

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
Site Preparation	Graders	Diesel	Average	1.000000	8.00000	148.000	0.41000
Site Preparation	Rubber Tired Dozers	Diesel	Average	1.000000	7.00000	367.000	0.40000
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Average	1.000000	8.00000	84.0000	0.37000
Grading	Graders	Diesel	Average	1.000000	8.00000	148.000	0.41000
Grading	Rubber Tired Dozers	Diesel	Average	1.000000	8.00000	367.000	0.40000

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

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Graders	Diesel	Average	1.000000	8.00000	148.000	0.41000
Site Preparation	Rubber Tired Dozers	Diesel	Average	1.000000	7.00000	367.000	0.40000
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Average	1.000000	8.00000	84.0000	0.37000
Grading	Graders	Diesel	Average	1.000000	8.00000	148.000	0.41000
Grading	Rubber Tired Dozers	Diesel	Average	1.000000	8.00000	367.000	0.40000
Grading	Tractors/Loaders/Back hoes	Diesel	Average	2.00000	7.00000	84.0000	0.37000
Building Construction	Cranes	Diesel	Average	1.000000	6.00000	367.000	0.29000
Building Construction	Forklifts	Diesel	Average	1.000000	6.00000	82.0000	0.20000
Building Construction	Generator Sets	Diesel	Average	1.000000	8.00000	14.0000	0.74000

Building Construction	Tractors/Loaders/Back hoes	Diesel	Average	1.000000	6.00000	84.0000	0.37000
Building Construction	Welders	Diesel	Average	3.00000	8.00000	46.0000	0.45000
Paving	Cement and Mortar Mixers	Diesel	Average	1.000000	6.00000	10.00000	0.56000
Paving	Pavers	Diesel	Average	1.000000	6.00000	81.0000	0.42000
Paving	Paving Equipment	Diesel	Average	1.000000	8.00000	89.0000	0.36000
Paving	Rollers	Diesel	Average	1.000000	7.00000	36.0000	0.38000
Paving	Tractors/Loaders/Back hoes	Diesel	Average	1.000000	8.00000	84.0000	0.37000
Architectural Coating	Air Compressors	Diesel	Average	1.000000	6.00000	37.0000	0.48000

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	Worker	7.50000	18.5000	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.2000	HHDT,MHDT
Site Preparation	Hauling	0.00000	20.0000	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	Worker	10.00000	18.5000	LDA,LDT1,LDT2
Grading	Vendor	—	10.2000	HHDT,MHDT
Grading	Hauling	0.00000	20.0000	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	Worker	15.8400	18.5000	LDA,LDT1,LDT2
Building Construction	Vendor	2.35180	10.2000	HHDT,MHDT
Building Construction	Hauling	0.00000	20.0000	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	Worker	12.5000	18.5000	LDA,LDT1,LDT2

Paving	Vendor	—	10.2000	HHDT,MHDT
Paving	Hauling	0.00000	20.0000	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	Worker	3.16800	18.5000	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2000	HHDT,MHDT
Architectural Coating	Hauling	0.00000	20.0000	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	Worker	7.50000	18.5000	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.2000	HHDT,MHDT
Site Preparation	Hauling	0.00000	20.0000	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	Worker	10.00000	18.5000	LDA,LDT1,LDT2
Grading	Vendor	—	10.2000	HHDT,MHDT
Grading	Hauling	0.00000	20.0000	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	Worker	15.8400	18.5000	LDA,LDT1,LDT2
Building Construction	Vendor	2.35180	10.2000	HHDT,MHDT
Building Construction	Hauling	0.00000	20.0000	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	Worker	12.5000	18.5000	LDA,LDT1,LDT2
Paving	Vendor	—	10.2000	HHDT,MHDT
Paving	Hauling	0.00000	20.0000	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	Worker	3.16800	18.5000	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2000	HHDT,MHDT

Architectural Coating	Hauling	0.00000	20.0000	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	57,339.9	19,113.3	0.00000	0.00000	—

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)
Site Preparation	—	—	18.7500	0.00000	0.00000
Grading	—	—	20.0000	0.00000	0.00000
Paving	0.00000	0.00000	0.00000	0.00000	—

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Phase Name	Land Use	Area Paved (acres)	% Asphalt
Paving	Apartments Low Rise	—	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

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

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMt/Weekday	VMt/Saturday	VMt/Sunday	VMt/Year
Apartments Low Rise	161.040	179.080	138.160	58,527.2	1,239.25	1,378.08	1,063.18	450,385

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMt/Weekday	VMt/Saturday	VMt/Sunday	VMt/Year
Apartments Low Rise	161.040	179.080	138.160	58,527.2	1,239.25	1,378.08	1,063.18	450,385

5.10. Operational Area Sources

5.10.1. Hearths

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
Apartments Low Rise	Wood Fireplaces	0	0
Apartments Low Rise	Gas Fireplaces	0	0
Apartments Low Rise	Propane Fireplaces	0	0
Apartments Low Rise	Electric Fireplaces	0	0
Apartments Low Rise	No Fireplaces	0	0
Apartments Low Rise	Conventional Wood Stoves	0	0
Apartments Low Rise	Catalytic Wood Stoves	0	0
Apartments Low Rise	Non-Catalytic Wood Stoves	1	1

Apartments Low Rise	Pellet Wood Stoves	0	0
---------------------	--------------------	---	---

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
57,339.9	19,113.3	0.00000	0.00000	—

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO ₂	CH ₄	N ₂ O	Natural Gas (kBTU/yr)
Apartments Low Rise	84,371.0	531.983	0.0330	0.0040	358,725

5.11.2. Mitigated

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

Land Use	Electricity (kWh/yr)	CO ₂	CH ₄	N ₂ O	Natural Gas (kBTU/yr)
----------	----------------------	-----------------	-----------------	------------------	-----------------------

Apartments Low Rise	84,371.0	531.983	0.0330	0.0040	358,725
---------------------	----------	---------	--------	--------	---------

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Low Rise	820,024	57,542.9

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Low Rise	820,024	57,542.9

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Low Rise	16.2383	0.00000

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Low Rise	16.2383	0.00000

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
----------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

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

5.14.2. Mitigated

Land Use	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments Low Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088.00	0.00225	2.50000	2.50000	10.00000
Apartments Low Rise	Household refrigerators and/or freezers	R-134a	1,430.00	0.11538	0.60000	0.00000	1.000000

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

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	11.6600	annual days of extreme heat
Extreme Precipitation	4.95000	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00000	annual hectares burned

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

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

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

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

6.2. Initial Climate Risk Scores

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

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

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

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

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

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

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	46.9944
AQ-PM	79.9876
AQ-DPM	51.7237
Drinking Water	61.8958
Lead Risk Housing	92.5142

Pesticides	63.6897
Toxic Releases	92.5481
Traffic	40.8875
Effect Indicators	—
CleanUp Sites	43.2437
Groundwater	56.1348
Haz Waste Facilities/Generators	95.1291
Impaired Water Bodies	82.9693
Solid Waste	64.3986
Sensitive Population	—
Asthma	62.0763
Cardio-vascular	96.6849
Low Birth Weights	79.1891
Socioeconomic Factor Indicators	—
Education	97.8360
Housing	97.0342
Linguistic	87.5085
Poverty	99.4849
Unemployment	91.7881

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	3.323495445
Employed	19.33786732
Median HI	11.72847427
Education	—

Bachelor's or higher	3.605800077
High school enrollment	14.96214552
Preschool enrollment	6.493006544
Transportation	—
Auto Access	16.15552419
Active commuting	80.72629283
Social	—
2-parent households	21.00603105
Voting	15.48825869
Neighborhood	—
Alcohol availability	4.516874118
Park access	81.35506224
Retail density	69.03631464
Supermarket access	44.00102656
Tree canopy	41.70409342
Housing	—
Homeownership	7.943025792
Housing habitability	2.078788656
Low-inc homeowner severe housing cost burden	8.122674195
Low-inc renter severe housing cost burden	24.3295265
Uncrowded housing	0.898242012
Health Outcomes	—
Insured adults	1.488515334
Arthritis	0.0
Asthma ER Admissions	46.1
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0

Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	37.8
Cognitively Disabled	23.2
Physically Disabled	52.4
Heart Attack ER Admissions	24.6
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	14.1
Elderly	90.4
English Speaking	7.5
Foreign-born	83.2
Outdoor Workers	61.2
Climate Change Adaptive Capacity	—
Impervious Surface Cover	11.0
Traffic Density	50.8

Traffic Access	55.3
Other Indices	—
Hardship	99.1
Other Decision Support	—
2016 Voting	15.5

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	100.0000
Healthy Places Index Score for Project Location (b)	3.00000
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	SouthGate, FlorenceFirestone,

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

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

8.1. Justifications

Screen	Justification
Land Use	Building Size

Construction: Construction Phases	No Demo
Operations: Hearths	No hearths

8.3. Land Use

Model Parameter	Units	Default Value	New Value
Building Area	sq. ft	23,320.0	28,316.0
Landscape Area	sq. ft	—	3,357.00

8.4. Construction

8.4.1. Construction Phases

Phase Type	Phase Name	Model Parameter	Default Value	New Value
Site Preparation	Site Preparation	Start Date	6/30/2027	7/1/2027
Site Preparation	Site Preparation	End Date	7/2/2027	7/28/2027
Site Preparation	Site Preparation	Work Days per Phase	2.00000	20.0000
Grading	Grading	Start Date	7/3/2027	7/29/2027
Grading	Grading	End Date	7/8/2027	8/25/2027
Grading	Grading	Work Days per Phase	4.00000	20.0000
Building Construction	Building Construction	Start Date	7/9/2027	8/26/2027
Building Construction	Building Construction	End Date	4/14/2028	5/31/2028
Paving	Paving	Start Date	4/15/2028	6/1/2028
Paving	Paving	End Date	4/29/2028	6/14/2028
Architectural Coating	Architectural Coating	Start Date	4/30/2028	6/15/2028
Architectural Coating	Architectural Coating	End Date	5/14/2028	6/28/2028

8.5. Operations

8.5.2. Area Sources

8.5.2.1. Hearths

Land Use	Model Parameter	Default Value	New Value
Apartments Low Rise	Catalytic Wood Stoves	1	0

Project Name	Location	Date	Time of Noise Measurement
BELG 008	Eastern Ave.	18-Jun-26	1:34 PM
Noise Meter Readings (SORTED):	Comments	Maximum Value:	76.8
76.8		L99:	75.7
75.7		L90:	71.6
73.1		L75:	69.6
72.9		Median:	64.9
72.9		Minimum Value:	55.7
72.8		Average:	65.5
72.1			
72.1			
72.0			
71.6			
71.4			
71.2			
71.2			
71.2			
70.9			
70.8			
70.7			
70.4			
70.3			
70.1			
69.9			
69.9			
69.6			
69.4			
69.4			
69.3			
69.0			
68.9			
68.7			
68.6			
67.8			
67.8			
67.7			
67.0			
66.6			
66.4			
66.2			
66.2			
66.1			
66.0			
66.0			
65.9			
65.9			
65.8			
65.8			
65.8			
65.2			
65.1			
64.9			

64.9	
64.9	
64.7	
64.6	
64.6	
64.6	
64.5	
64.3	
64.3	
64.0	
64.0	
64.0	
64.0	
64.0	
64.0	
64.0	
63.9	
63.9	
63.8	
63.8	
63.6	
63.6	
63.4	
63.4	
63.0	
62.7	
62.7	
62.7	
62.6	
62.3	
62.1	
62.0	
61.9	
61.9	
61.8	
61.4	
61.3	
61.0	
60.5	
60.1	
59.7	
59.6	
59.4	
59.3	
58.9	
58.8	
58.3	
57.7	
57.4	
56.2	
55.7	
55.7	

INTRODUCTION TO ENERGY SCREENING TABLES

The following worksheets are used to evaluate the potential impacts of a project.

Table 1 Definition of Project

This Table is used to establish the proposed development parameters that are used in the calculation of energy usage. The independent variable to be entered is identified by shading. For residential development, the number of housing units should be entered in the shaded area. For non-residential development, the total floor area of development should be entered in the shaded area.

Tables 2 Summary of Project Impacts

Consumption/Generation Rates. This table indicates the development's projected electrical consumption, natural gas consumption, water consumption, effluent generation, and solid waste generation. No modifications should be made to this table.

Tables 3 through 4 Calculation of Project Impacts

Tables 3 through 4 indicate the results of the analysis.

Table 3 Electrical Consumption - This Table calculates the projected electrical consumption for new development. Default generation rates provided in the shaded areas may be changed.

Table 4 Natural Gas Consumption - This Table calculates the projected natural gas usage for new development. Default generation rates provided in the shaded areas may be changed.

Table 1 Project Name:

BELG 008

Definition of Project Parameters - Enter independent variable (no. of units or floor area) in the shaded area. The independent variable to be entered is the number of units (for residential development) or the gross floor area (for non-residential development).

Land Use	Independent	Factor
Residential Uses	Variable	Total Units
Single-Family Residential	No. of Units	0
Medium Density Residential	No. of Units	22
Multiple-Family Residential	No. of Units	0
Mobile Home	No. of Units	0
Office Uses	Variable	Total Floor Area
Office	Sq. Ft.	0
Medical Office Building	Sq. Ft.	0
Office Park	Sq. Ft.	0
Bank/Financial Services	Sq. Ft.	0
Commercial Uses	Variable	Floor Area/Rooms
Specialty Retail Commercial	Sq. Ft.	0
Convenience Store	Sq. Ft.	0
Movie Theater	Sq. Ft.	0
Shopping Center	Sq. Ft.	0
Sit-Down Restaurant	Sq. Ft.	0
Fast-Food Restaurant	Sq. Ft.	0
Hotel	Rooms	0
Manufacturing Uses	Variable	Total Floor Area
Industrial Park	Sq. Ft.	0
Manufacturing	Sq. Ft.	0
General Light Industry	Sq. Ft.	0
Warehouse	Sq. Ft.	0
Public/Institutional	Variable	Total Floor Area
Public/Institutional	Sq. Ft.	0
Open Space	Sq. Ft.	0

Table 2: Projected Energy Consumption and Generation

Summary of Project Impacts - Results of analysis identified below. No modifications should be made to this Table.

Utilities Consumption and Generation	Factor	Rates
--------------------------------------	--------	-------

Electrical Consumption	kWh/day	339.0
Natural Gas Consumption	cubic feet/day	2,941.8

Table 3: Electrical Consumption

Project Component	Units of Measure	Consumption Factor		Projected Consumption
Residential Uses	No. of Units	kWh	Variable	kWh/Day
Single-Family Residential	0	5,625.00	kWh/Unit/Year	0.0
Medium Density Residential	22	5,625.00	kWh/Unit/Year	339.0
Multiple-Family Residential	0	5,625.00	kWh/Unit/Year	0.0
Mobile Home	0	4,644.00	kWh/Unit/Year	0.0
Office Uses	Sq. Ft.	kWh	Variable	kWh/Day
Office	0	20.80	kWh/Sq. Ft./Year	0.0
Medical Office Building	0	14.20	kWh/Sq. Ft./Year	0.0
Office Park	0	20.80	kWh/Sq. Ft./Year	0.0
Bank/Financial Services	0	20.80	kWh/Sq. Ft./Year	0.0
Commercial Uses	Sq. Ft./Rooms	kWh	Variable	kWh/Day
Specialty Retail Commercial	0	16.00	kWh/Sq. Ft./Year	0.0
Convenience Store	0	16.00	kWh/Sq. Ft./Year	0.0
Movie Theater	0	16.00	kWh/Sq. Ft./Year	0.0
Shopping Center	0	35.90	kWh/Sq. Ft./Year	0
Sit-Down Restaurant	0	49.10	kWh/Sq. Ft./Year	0.0
Fast-Food Restaurant	0	49.10	kWh/Sq. Ft./Year	0.0
Hotel	0	8,955.00	kWh/Sq. Ft./Year	0.0
Manufacturing Uses	Sq. Ft.	kWh	Variable	kWh/Day
Industrial Park	0	4.80	kWh/Sq. Ft./Year	0.0
Manufacturing	0	4.80	kWh/Sq. Ft./Year	0.0
General Light Industry	0	4.80	kWh/Sq. Ft./Year	0.0
Warehouse	0	4.80	kWh/Sq. Ft./Year	0.0
Public/Institutional	Sq. Ft.	kWh	Variable	kWh/Day
Public/Institutional	0	4.80	kWh/Sq. Ft./Year	0.0
Open Space	0	0.00	kWh/Sq. Ft./Year	0.0
Total Daily Electrical Consumption (kWh/day)				339.0

Sources:

Residential rates were derived from the SCAQMD's CEQA Air Quality Handbook (April 1993).

All other rates are from Common Forecasting Methodology VII Demand Forms, 1989

Table 4: Natural Gas Consumption

Project Component	Units of Measure	Consumption Factor		Projected Consumption
Residential Uses	No. of Units	Cu. Ft. of Nat. Gas	Variable	Cu. Ft./Day
Single-Family Residential	0	6,665.00	Cu. Ft./Mo./Unit	0.0
Medium Density Residential	22	4,011.50	Cu. Ft./Mo./Unit	2,941.8
Multiple-Family Residential	0	4,011.50	Cu. Ft./Mo./Unit	0.0
Mobile Home	0	4,011.50	Cu. Ft./Mo./Unit	0.0
Office Uses	Sq. Ft.	Cu. Ft. of Nat. Gas	Variable	Cu. Ft./Day
Office	0	2.00	Cu. Ft./Mo./Sq. Ft.	0.0
Medical Office Building	0	2.00	Cu. Ft./Mo./Sq. Ft.	0.0
Office Park	0	2.00	Cu. Ft./Mo./Sq. Ft.	0.0
Bank/Financial Services	0	2.00	Cu. Ft./Mo./Sq. Ft.	0.0
Commercial Uses	Sq. Ft./Rooms	Cu. Ft. of Nat. Gas	Variable	Cu. Ft./Day
Specialty Retail Commercial	0	2.90	Cu. Ft./Mo./Sq. Ft.	0.0
Convenience Store	0	2.90	Cu. Ft./Mo./Sq. Ft.	0.0
Movie Theater	0	2.90	Cu. Ft./Mo./Sq. Ft.	0.0
Shopping Center	0	2.90	Cu. Ft./Mo./Sq. Ft.	0.0
Sit-Down Restaurant	0	2.90	Cu. Ft./Mo./Sq. Ft.	0.0
Fast-Food Restaurant	0	2.90	Cu. Ft./Mo./Sq. Ft.	0.0
Hotel	0	2.90	Cu. Ft./Mo./Room	0.0
Manufacturing Uses	Sq. Ft.	Cu. Ft. of Nat. Gas	Variable	Cu. Ft./Day

Industrial Park	0	4.70	Cu. Ft./Mo./Sq. Ft.	0.0
Manufacturing	0	4.70	Cu. Ft./Mo./Sq. Ft.	0.0
General Light Industry	0	4.70	Cu. Ft./Mo./Sq. Ft.	0.0
Warehouse	0	4.70	Cu. Ft./Mo./Sq. Ft.	0.0
Public/Institutional Use	Sq. Ft.	Cu. Ft. of Nat. Gas	Variable	Cu. Ft./Day
Public/Institutional	0	2.90	Cu. Ft./Mo./Sq. Ft.	0.0
Open Space	0	2.90	Cu. Ft./Mo./Sq. Ft.	0.0

Total Daily Natural Gas Consumption (cubic feet/day)	2,941.8
--	---------

Sources:

South Coast Air Quality Management District, CEQA Air Quality Handbook. April 1993

INTRODUCTION TO UTILITY SCREENING TABLES

The following worksheets are used to evaluate the potential impacts of a project.

Table 1 Definition of Project

This Table is used to establish the proposed development parameters that are used in the calculation of utilities usage. The independent variable to be entered is identified by shading. For residential development, the number of housing units should be entered in the shaded area. For non-residential development, the total floor area of development should be entered in the shaded area.

Tables 2 Summary of Project Impacts

Consumption/Generation Rates. This table indicates the development's projected electrical consumption, natural gas consumption, water consumption, effluent generation, and solid waste generation. No modifications should be made to this table.

Tables 3 through 5 Calculation of Project Impacts

Tables 3 through 7 indicate the results of the analysis.

Table 3 Water Consumption - This Table calculates the projected water consumption rates for new development. Default generation rates provided in the shaded areas may be changed.

Table 4 Sewage Generation - This Table calculates the projected effluent generation rates for new development. Default generation rates provided in the shaded areas may be changed.

Table 5 Solid Waste Generation - This Table calculates the projected waste generation for new development. Default generation rates provided in the shaded areas may be changed.

Table 1 Project Name:

BELG 008

Definition of Project Parameters - Enter independent variable (no. of units or floor area) in the shaded area. The independent variable to be entered is the number of units (for residential development) or the gross floor area (for non-residential development).

Land Use	Independent	Factor
Residential Uses	Variable	Total Units
Single-Family Residential	No. of Units	0
Medium Density Residential	No. of Units	22
Multiple-Family Residential	No. of Units	0
Mobile Home	No. of Units	0
Office Uses	Variable	Total Floor Area
Office	Sq. Ft.	0
Medical Office Building	Sq. Ft.	0
Office Park	Sq. Ft.	0
Bank/Financial Services	Sq. Ft.	0
Commercial Uses	Variable	Floor Area/Rooms
Specialty Retail Commercial	Sq. Ft.	0
Convenience Store	Sq. Ft.	0
Movie Theater	Sq. Ft.	0
Shopping Center	Sq. Ft.	0
Sit-Down Restaurant	Sq. Ft.	0
Fast-Food Restaurant	Sq. Ft.	0
Hotel	Rooms	0
Manufacturing Uses	Variable	Total Floor Area
Industrial Park	Sq. Ft.	0
Manufacturing	Sq. Ft.	0
General Light Industry	Sq. Ft.	0
Warehouse	Sq. Ft.	0
Public/Institutional	Variable	Total Floor Area
Public/Institutional	Sq. Ft.	0
Open Space	Sq. Ft.	0

Table 2: Projected Utility Consumption and Generation

Summary of Project Impacts - Results of analysis identified below. No modifications should be made to this Table.

Utilities Consumption and Generation	Factor	Rates
--------------------------------------	--------	-------

Water Consumption	gallons/day	6,600
Sewage Generation	gallons/day	4,400
Solid Waste Generation	pounds/day	269

Table 3: Water Consumption

Project Component	Units of Measure	Consumption Factor		Projected Consumption
Residential Uses	No. of Units	Gals. of Water	Variable	Gals./Day
Single-Family Residential	0	390.000	Gals./Day/Unit	0.0
Medium Density Residential	22	300.000	Gals./Day/Unit	6,600.0
Multiple-Family Residential	0	234.000	Gals./Day/Unit	0.0
Mobile Home	0	234.000	Gals./Day/Unit	0.0
Office Uses	Sq. Ft.	Gals. of Water	Variable	Gals./Day
Office	0	0.300	Gals./Day/Sq. Ft.	0.0
Medical Office Building	0	0.300	Gals./Day/Sq. Ft.	0.0
Office Park	0	0.300	Gals./Day/Sq. Ft.	0.0
Bank/Financial Services	0	0.150	Gals./Day/Sq. Ft.	0.0
Commercial Uses	Sq. Ft./Room	Gals. of Water	Variable	Gals./Day
Specialty Retail Commercial	0	0.150	Gals./Day/Sq. Ft.	0.0
Convenience Store	0	0.150	Gals./Day/Sq. Ft.	0.0
Movie Theater	0	0.195	Gals./Day/Sq. Ft.	0.0
Shopping Center	0	0.495	Gals./Day/Sq. Ft.	0.0
Sit-Down Restaurant	0	1.500	Gals./Day/Sq. Ft.	0.0
Fast-Food Restaurant	0	0.120	Gals./Day/Sq. Ft.	0.0
Hotel	0	187.500	Gals./Day/Room.	0.0
Manufacturing Uses	Sq. Ft.	Gals. of Water	Variable	Gals./Day
Industrial Park	0	0.300	Gals./Day/Sq. Ft.	0.0
Manufacturing	0	0.300	Gals./Day/Sq. Ft.	0.0
General Light Industry	0	0.300	Gals./Day/Sq. Ft.	0.0
Warehouse	0	0.045	Gals./Day/Sq. Ft.	0.0
Public/Institutional Use	Sq. Ft.	Gals. of Water	Variable	Gals./Day
Public/Institutional	0	0.120	Gals./Day/Sq. Ft.	0.0
Open Space	0	0.120	Gals./Day/Sq. Ft.	0.0
Total Daily Water Consumption (gallons/day)				6,600.0
Source: Derived from Los Angeles County Sanitation District rates (150% of effluent generation).				

Table 4: Sewage Generation

Project Component	Units of Measure	Generation Factor		Projected Consumption
Residential Uses	# of Units	Gals. of Effluent	Variable	Gals./Day
Single-Family Residential	0	260.000	Gals./Day/Unit	0.0
Medium Density Residential	22	200.000	Gals./Day/Unit	4,400.0
Multiple-Family Residential	0	156.000	Gals./Day/Unit	0.0
Mobile Home	0	156.000	Gals./Day/Unit	0.0
Office Uses	Sq. Ft.	Gals. of Effluent	Variable	Gals./Day
Office	0	0.200	Gals./Day/Sq. Ft.	0.0
Medical Office Building	0	0.200	Gals./Day/Sq. Ft.	0.0
Office Park	0	0.200	Gals./Day/Sq. Ft.	0.0
Bank/Financial Services	0	0.100	Gals./Day/Sq. Ft.	0.0
Commercial Uses	Sq. Ft./# Rooms	Gals. of Effluent	Variable	Gals./Day
Specialty Retail Commercial	0	0.100	Gals./Day/Sq. Ft.	0.0
Convenience Store	0	0.100	Gals./Day/Sq. Ft.	0.0
Movie Theater	0	0.130	Gals./Day/Sq. Ft.	0.0
Shopping Center	0	0.330	Gals./Day/Sq. Ft.	0.0
Sit-Down Restaurant	0	1.000	Gals./Day/Sq. Ft.	0.0
Fast-Food Restaurant	0	0.080	Gals./Day/Sq. Ft.	0.0
Hotel	0	125.000	Gals./Day/Room.	0.0
Manufacturing Uses	Sq. Ft.	Gals. of Effluent	Variable	Gals./Day
Industrial Park	0	0.200	Gals./Day/Sq. Ft.	0.0
Manufacturing	0	0.200	Gals./Day/Sq. Ft.	0.0
General Light Industry	0	0.200	Gals./Day/Sq. Ft.	0.0
Warehouse	0	0.025	Gals./Day/Sq. Ft.	0.0
Public/Institutional Use	Sq. Ft.	Gals. of Effluent	Variable	Gals./Day
Public/Institutional	0	0.096	Gals./Day/Sq. Ft.	0.0
Open Space	0	0.096	Gals./Day/Sq. Ft.	0.0

Total Daily Sewage Generation (gallons/day)	4,400.0
Source: Los Angeles County Sanitation Districts.	

Table 5: Solid Waste Generation				
Project Component	Units of Measure	Generation Factor		Projected Generation
Residential Uses	# of Units	Lbs.of Waste	Variable	Lbs./Day
Single-Family Residential	0	12.23	Lbs./Day/Unit	0.0
Medium Density Residential	22	12.23	Lbs./Day/Unit	269.1
Multiple-Family Residential	0	12.23	Lbs./Day/Unit	0.0
Mobile Home	0	12.23	Lbs./Day/Unit	0.0
Office Uses	Sq. Ft.	Lbs.of Waste	Variable	Lbs./Day
Office	0	6.00	Lbs./Day/1,000 Sq. Ft.	0.0
Medical Office Building	0	6.00	Lbs./Day/1,000 Sq. Ft.	0.0
Office Park	0	6.00	Lbs./Day/1,000 Sq. Ft.	0.0
Bank/Financial Services	0	6.00	Lbs./Day/1,000 Sq. Ft.	0.0
Commercial Uses	Sq. Ft./# Rooms	Lbs.of Waste	Variable	Lbs./Day
Specialty Retail Commercial	0	42.00	Lbs./Day/1,000 Sq. Ft.	0.0
Convenience Store	0	42.00	Lbs./Day/1,000 Sq. Ft.	0.0
Movie Theater	0	6.00	Lbs./Day/1,000 Sq. Ft.	0.0
Shopping Center	0	6.00	Lbs./Day/1,000 Sq. Ft.	0.0
Sit-Down Restaurant	0	6.00	Lbs./Day/1,000 Sq. Ft.	0.0
Fast-Food Restaurant	0	42.00	Lbs./Day/1,000 Sq. Ft.	0.0
Hotel	0	6.00	Lbs./Day/Room	0.0
Manufacturing Uses	Sq. Ft.	Lbs.of Waste	Variable	Lbs./Day
Industrial Park	0	8.93	Lbs./Day/1,000 Sq. Ft.	0.0
Manufacturing	0	8.93	Lbs./Day/1,000 Sq. Ft.	0.0
General Light Industry	0	8.93	Lbs./Day/1,000 Sq. Ft.	0.0
Warehouse	0	8.93	Lbs./Day/1,000 Sq. Ft.	0.0
Public/Institutional Use	Sq. Ft.	Lbs.of Waste	Variable	Lbs./Day
Public/Institutional	0	4.00	Lbs./Day/1,000 Sq. Ft.	0.0
Open Space	0	3.00	Lbs./Day/1,000 Sq. Ft.	0.0
Total Daily Solid Waste Generation				269.1
Source: City of Los Angeles CEQA Thresholds Guide, 2006, and City of Los Angeles Average Solid Waste Generation Rates, April 1981				