

## APPENDIX B

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### AIR QUALITY, ENERGY, AND GREENHOUSE GAS MODELING DATA

# Big Box Hesperia

## CalEEMod Assumptions

### Land Use

| Land Use                             | Size   | Metric |
|--------------------------------------|--------|--------|
| <b>Fuel Station and Car Wash</b>     |        |        |
| Gasoline/Service Station             | 28     | Pump   |
| Fast Food Restaurant with Drive Thru | 2.62   | KSF    |
| <b>Big Box Retail</b>                |        |        |
| Regional Shopping Center             | 167.66 | KSF    |
| <b>White Fox Trail</b>               |        |        |
| Road Construction                    | 0.24   | Mile   |
| KSF = thousand square feet           |        |        |

### Construction

#### Schedule

| Phase Name                       | Start Date | End Date   | Workdays |
|----------------------------------|------------|------------|----------|
| <b>Fuel Station and Car Wash</b> |            |            |          |
| Site Preparation                 | 12/10/2025 | 12/23/2025 | 10       |
| Grading                          | 12/24/2025 | 2/17/2026  | 40       |
| Infrastructure Improvement       | 1/21/2026  | 2/17/2026  | 20       |
| Building Construction            | 2/18/2026  | 4/14/2026  | 40       |
| Paving                           | 4/15/2026  | 5/10/2026  | 18       |
| Architectural Coating            | 4/1/2026   | 5/10/2026  | 28       |
| <b>Big Box Retail</b>            |            |            |          |
| Site Preparation                 | 3/10/2026  | 3/30/2026  | 15       |
| Grading                          | 3/31/2026  | 7/6/2026   | 70       |
| Building Construction            | 7/7/2026   | 12/8/2026  | 111      |
| Paving                           | 8/4/2026   | 9/28/2026  | 40       |
| Architectural Coating            | 9/29/2026  | 12/8/2026  | 51       |
| <b>White Fox Trail</b>           |            |            |          |
| Paving                           | 8/4/2026   | 9/28/2026  | 40       |

#### Equipment

| Construction Phase               | Equipment                 | Number per Day | Hours Per Day |
|----------------------------------|---------------------------|----------------|---------------|
| <b>Fuel Station and Car Wash</b> |                           |                |               |
| Site Preparation                 | Rubber Tired Dozers       | 3              | 8             |
|                                  | Tractors/Loaders/Backhoes | 4              | 8             |
| Grading                          | Excavators                | 1              | 8             |
|                                  | Graders                   | 1              | 8             |
|                                  | Rubber Tired Dozers       | 1              | 8             |
|                                  | Tractors/Loaders/Backhoes | 3              | 8             |
| Building Construction            | Cranes                    | 1              | 7             |
|                                  | Forklifts                 | 3              | 8             |
|                                  | Generator Sets            | 1              | 8             |
|                                  | Tractors/Loaders/Backhoes | 3              | 7             |

| Construction Phase         | Equipment                 | Number per Day | Hours Per Day |
|----------------------------|---------------------------|----------------|---------------|
|                            | Welders                   | 1              | 8             |
| Paving                     | Pavers                    | 2              | 8             |
|                            | Paving Equipment          | 2              | 8             |
|                            | Rollers                   | 2              | 8             |
|                            |                           |                |               |
| Architectural Coating      | Air Compressors           | 1              | 6             |
| Infrastructure Improvement | Trenchers                 | 1              | 8             |
|                            | Pavers                    | 1              | 8             |
|                            | Rollers                   | 1              | 8             |
|                            | Rubber Tired Dozers       | 1              | 8             |
| <b>Big Box Retail</b>      |                           |                |               |
| Site Preparation           | Rubber Tired Dozers       | 3              | 8             |
|                            | Tractors/Loaders/Backhoes | 4              | 8             |
| Grading                    | Excavators                | 2              | 8             |
|                            | Graders                   | 1              | 8             |
|                            | Rubber Tired Dozers       | 1              | 8             |
|                            | Tractors/Loaders/Backhoes | 2              | 8             |
|                            | Scrapers                  | 2              | 8             |
|                            |                           |                |               |
| Building Construction      | Cranes                    | 1              | 7             |
|                            | Forklifts                 | 3              | 8             |
|                            | Generator Sets            | 1              | 8             |
|                            | Tractors/Loaders/Backhoes | 3              | 7             |
|                            | Welders                   | 1              | 8             |
| Paving                     | Pavers                    | 2              | 8             |
|                            | Paving Equipment          | 2              | 8             |
|                            | Rollers                   | 2              | 8             |
| Architectural Coating      | Air Compressors           | 1              | 6             |
| <b>White Fox Trail</b>     |                           |                |               |
| Paving                     | Pavers                    | 1              | 8             |
|                            | Paving Equipment          | 1              | 8             |
|                            | Rollers                   | 1              | 8             |
|                            | Signal Boards             | 1              | 8             |
|                            | Tractors/Loaders/Backhoes | 1              | 8             |

**Grading/Earthwork**

| Phase                                            | Import (CY) | Export (CY) | Haul Distance (mi) |
|--------------------------------------------------|-------------|-------------|--------------------|
| <b>Fuel Station and Car Wash</b>                 |             |             |                    |
| Site Preparation                                 | -           | -           | -                  |
| Grading                                          | -           | 20,753      | -                  |
| <b>Big Box Retail</b>                            |             |             |                    |
| Site Preparation                                 | -           | -           | -                  |
| Grading                                          | -           | 40,287      | -                  |
| CY = cubic yards; mi = miles; - = Not Applicable |             |             |                    |

**Worker, Vendor, and Haul Trips**

| Trip Type                        | # One-Way Trips/Day | Trip Length (miles) |
|----------------------------------|---------------------|---------------------|
| <b>Fuel Station and Car Wash</b> |                     |                     |
| <b>Site Preparation</b>          |                     |                     |

|                                   |    |      |
|-----------------------------------|----|------|
| Worker                            | 18 | 18.5 |
| Vendor                            | -  | 10.2 |
| Hauling                           | 0  | 20   |
| On-Site Truck                     | -  | -    |
| <b>Grading</b>                    |    |      |
| Worker                            | 15 | 18.5 |
| Vendor                            | -  | 10.2 |
| Hauling                           | 65 | 20   |
| On-Site Truck                     | -  | -    |
| <b>Building Construction</b>      |    |      |
| Worker                            | 1  | 18.5 |
| Vendor                            | 0  | 10.2 |
| Hauling                           | 0  | 20   |
| On-Site Truck                     | -  | -    |
| <b>Paving</b>                     |    |      |
| Worker                            | 15 | 18.5 |
| Vendor                            | -  | 10.2 |
| Hauling                           | 0  | 20   |
| On-Site Truck                     | -  | -    |
| <b>Architectural Coating</b>      |    |      |
| Worker                            | 0  | 18.5 |
| Vendor                            | -  | 10.2 |
| Hauling                           | 0  | 20   |
| On-Site Truck                     | -  | -    |
| <b>Infrastructure Improvement</b> |    |      |
| Worker                            | 10 | 18.5 |
| Vendor                            | -  | 10.2 |
| Hauling                           | 0  | 20   |
| On-Site Truck                     | -  | -    |
| <b>Big Box Retail</b>             |    |      |
| <b>Site Preparation</b>           |    |      |
| Worker                            | 18 | 18.5 |
| Vendor                            | -  | 10.2 |
| Hauling                           | 0  | 20   |
| On-Site Truck                     | -  | -    |
| <b>Grading</b>                    |    |      |
| Worker                            | 20 | 18.5 |
| Vendor                            | -  | 10.2 |
| Hauling                           | 72 | 20   |
| On-Site Truck                     | -  | -    |
| <b>Building Construction</b>      |    |      |

|                              |    |      |
|------------------------------|----|------|
| Worker                       | 54 | 18.5 |
| Vendor                       | 27 | 10.2 |
| Hauling                      | 0  | 20   |
| On-Site Truck                | -  | -    |
| <b>Paving</b>                |    |      |
| Worker                       | 15 | 18.5 |
| Vendor                       | -  | 10.2 |
| Hauling                      | 0  | 20   |
| On-Site Truck                | -  | -    |
| <b>Architectural Coating</b> |    |      |
| Worker                       | 11 | 18.5 |
| Vendor                       | -  | 10.2 |
| Hauling                      | 0  | 20   |
| On-Site Truck                | -  | -    |
| <b>White Fox Trail</b>       |    |      |
| <b>Paving</b>                |    |      |
| Worker                       | 13 | 18.5 |
| Vendor                       | 0  | 10.2 |
| Hauling                      | 0  | 20   |
| On-Site Truck                |    |      |
| - = Not Applicable           |    |      |

**Operations****Vehicle Data**

| Land Use                                                            | Size   | Metric | Trip Rate | Daily Trip Generation |
|---------------------------------------------------------------------|--------|--------|-----------|-----------------------|
| Gasoline/Service Station                                            | 28     | Pump   | 36.98     | 2,071                 |
| Fast Food Restaurant with Drive Thru                                | 2.62   | KSF    | 295.46    | 775                   |
| Regional Shopping Center                                            | 150.90 | KSF    | 29.2      | 4,406                 |
| Refrigerated Warehouse-No Rail                                      | 16.77  | KSF    | 1.19      | 20                    |
| Parking Lot                                                         | 13.59  | Acre   | 0         | 0                     |
| <b>Total Daily Trips</b>                                            |        |        |           | <b>7,272</b>          |
| KSF = thousand square feet                                          |        |        |           |                       |
| 1. The Project would generate 20 truck trips per Project applicant. |        |        |           |                       |
| 2. 100% primary trips.                                              |        |        |           |                       |

**Trip Length**

| Land Use                                          | Trip Length (miles)   |                       |                       |
|---------------------------------------------------|-----------------------|-----------------------|-----------------------|
|                                                   | Non-Res H-W / Res H-W | Non-Res W-O / Res H-S | Non-Res O-O / Res H-O |
| Gasoline/Service Station <sup>1</sup>             | 23.20                 | 19.96                 | 7.47                  |
| Fast Food Restaurant with Drive Thru <sup>1</sup> | 23.20                 | 19.96                 | 7.47                  |
| Regional Shopping Center <sup>1</sup>             | 23.20                 | 19.96                 | 7.47                  |

|                                                                         |       |       |      |
|-------------------------------------------------------------------------|-------|-------|------|
| Refrigerated Warehouse-No Rail <sup>2</sup>                             | 0     | 0     | 36   |
| Parking Lot <sup>1</sup>                                                | 23.20 | 19.96 | 7.47 |
| 1. Trip lengths represent passenger vehicles and are CalEEMod defaults. |       |       |      |
| 2. Trip length adjusted to account for trucks only.                     |       |       |      |

**Trip Purpose and Percent**

| Land Use                                                                 | Trip Percent (%) |          |         | Trip Purpose (%)            |                             |                             |
|--------------------------------------------------------------------------|------------------|----------|---------|-----------------------------|-----------------------------|-----------------------------|
|                                                                          | Primary          | Diverted | Pass-By | Non-Res<br>H-W<br>/ Res H-W | Non-Res<br>W-O<br>/ Res H-S | Non-Res<br>O-O<br>/ Res H-O |
| Gasoline/Service Station <sup>1</sup>                                    | 100              | 0        | 0       | 60.85                       | 9.43                        | 29.72                       |
| Fast Food Restaurant with Drive Thru <sup>1</sup>                        | 100              | 0        | 0       | 60.85                       | 9.43                        | 29.72                       |
| Regional Shopping Center <sup>1</sup>                                    | 100              | 0        | 0       | 60.85                       | 9.43                        | 29.72                       |
| Refrigerated Warehouse-No Rail <sup>2</sup>                              | 100              | 0        | 0       | 0                           | 0                           | 100                         |
| Parking Lot <sup>1</sup>                                                 | 100              | 0        | 0       | 0                           | 0                           | 0                           |
| 1. Trip purpose represents passenger vehicles and are CalEEMod defaults. |                  |          |         |                             |                             |                             |
| 2. Trip purpose adjusted to account for trucks only.                     |                  |          |         |                             |                             |                             |

**Fleet Mix**

| Land Use                                                              | HHD<br>% | LDA<br>% | LDT1<br>% | LDT2<br>% | LHD1<br>% | LHD2<br>% | MCY<br>% | MDV<br>% | MH<br>% | MHD<br>% | OBUS<br>% | SBUS<br>% | UBUS<br>% |
|-----------------------------------------------------------------------|----------|----------|-----------|-----------|-----------|-----------|----------|----------|---------|----------|-----------|-----------|-----------|
| Gasoline/Service Station <sup>1</sup>                                 | 2.00     | 48.59    | 4.30      | 21.22     | 3.39      | 0.93      | 2.60     | 15.65    | 0.57    | 0.55     | 0.05      | 0.11      | 0.02      |
| Fast Food Restaurant with Drive Thru <sup>1</sup>                     | 2.00     | 48.59    | 4.30      | 21.22     | 3.39      | 0.93      | 2.60     | 15.65    | 0.57    | 0.55     | 0.05      | 0.11      | 0.02      |
| Regional Shopping Center <sup>1</sup>                                 | 2.00     | 48.59    | 4.30      | 21.22     | 3.39      | 0.93      | 2.60     | 15.65    | 0.57    | 0.55     | 0.05      | 0.11      | 0.02      |
| Refrigerated Warehouse-No Rail <sup>2</sup>                           | 100      | 0        | 0         | 0         | 0         | 0         | 0        | 0        | 0       | 0        | 0         | 0         | 0         |
| Parking Lot <sup>1</sup>                                              | 2.00     | 48.59    | 4.30      | 21.22     | 3.39      | 0.93      | 2.60     | 15.65    | 0.57    | 0.55     | 0.05      | 0.11      | 0.02      |
| 1. Fleet mix represents passenger vehicles and are CalEEMod defaults. |          |          |           |           |           |           |          |          |         |          |           |           |           |
| 2. Fleet mix adjusted to account for trucks only.                     |          |          |           |           |           |           |          |          |         |          |           |           |           |

**Stationary Sources**

| Equipment Type             | Fuel Type | # per Day | Hours/Day | Hours/Year | HP  | Load Factor |
|----------------------------|-----------|-----------|-----------|------------|-----|-------------|
| Transport Refrigerant Unit | Diesel    | 10        | 2         | 738        | 500 | -           |
| HP = horsepower            |           |           |           |            |     |             |

Potential To Emit Calculator for Gasoline Dispensing Facilities

3/23/2015

This sheet calculates the maximum fuel throughput, based on the number of vehicle refueling positions at your GDF. The calculations use fixed values for hours of operation, the time required for each refueling event, and the average amount of fuel dispensed per refueling event. The sheet than calculates the emissions of VOC from your GDF, based on emissions factors and the attainment status of your location. Note that while this calculator is designed primarily to address emissions of gasoline vapor, it includes algorithms to account for diesel fuel vapor as well and could even be used if the sole fuel dispensed was diesel.

|                                                          |                    |              |                                           |   |              |
|----------------------------------------------------------|--------------------|--------------|-------------------------------------------|---|--------------|
| HD truck diesel refueling positions                      | 0                  |              |                                           |   |              |
| Automotive dispensers with gasoline or diesel            | 0                  |              |                                           |   |              |
| Automotive/Nonroad Diesel Refueling Positions            | 0                  |              |                                           |   |              |
| Gasoline Vehicle Refueling Positions                     | 28                 |              |                                           |   |              |
| Location - Ozone Attainment Status                       | Nonattainment Area |              |                                           |   |              |
| Max. Gasoline Throughput If No Automotive/nonroad Diesel | 10,792,320         | gallons/year | Max. Automotive/Nonroad Diesel Throughput | 0 | gallons/year |
| Max. Combined Automotive plus HD Truck Diesel Throughput | 0                  | gallons/year | Max. HD Truck Diesel                      | 0 | gallons/year |

29,568

Internally fixed values in calculation -- gasoline and automotive/nonroad diesel

|                                                                    |      |                     |
|--------------------------------------------------------------------|------|---------------------|
| Average time between start of refueling events                     | 0.25 | hours               |
| Number of hours of GDF operation per day                           | 24   | hours/day           |
| Number of days per year open for business                          | 365  | days/year           |
| Number of gallons per refueling event                              | 11   | gal/refueling event |
| Percent of refueling events which use automotive diesel dispensers | 5    | %/year              |

Internally fixed values -- HD truck diesel

|                                                |      |                     |
|------------------------------------------------|------|---------------------|
| Average time between start of refueling events | 0.33 | hours               |
| Number of hours of GDF operation per day       | 24   | hours/day           |
| Number of days per year open for business      | 365  | days/year           |
| Number of gallons per refueling event          | 110  | gal/refueling event |

Gasoline VOC Emissions -- apply these values to GDFs using USTs or ASTs<sup>7</sup>

| Description <sup>4</sup>                           | VOC Emission factor (lb/1,000 gal) | Potential to Emit VOC (tons/yr) |
|----------------------------------------------------|------------------------------------|---------------------------------|
| Add'l Emissions for Small Volume GDFs <sup>6</sup> | 12.0                               | 0.000                           |
| Storage Tank Filling <sup>1</sup>                  | 0.30                               | 1.619                           |
| Storage Tank Breathing Losses <sup>2</sup>         | 0.25                               | 1.349                           |
| Dispensing <sup>3</sup>                            | 0.32                               | 1.727                           |
| Totals                                             | 0.870                              | 4.695                           |

64.484

Diesel VOC Emissions -- apply these values to GDFs using USTs or ASTs

| Description <sup>4</sup>      | VOC Emission factor <sup>5</sup> | Potential to Emit VOC |
|-------------------------------|----------------------------------|-----------------------|
|                               | (lb/1,000 gal)                   | (ton/yr)              |
| Storage Tank Filling          | 0.040                            | 0.000                 |
| Storage Tank Breathing Losses | 0.028                            | 0.000                 |
| Dispensing                    | 0.040                            | 0.000                 |
| Totals                        | 0.108                            | 0.000                 |

Methodology

Maximum Throughput (gal/yr) = vehicle refueling positions / refueling event time (hrs) x hours of operation (hr/yr) x fuel dispensed (gal/refueling event)  
Potential to Emit of VOC (tons/yr) = Maximum Throughput (gal/yr) x VOC Emission Factor (lb/1,000 gal) x 1 ton/2,000 lbs

Notes:

Emission factors are from AP 42, Chapter 5.2, Transportation and Marketing of Petroleum Liquids, Table 5.2-7, (June 2008), except where noted.

<sup>1</sup> Assume Stage 1 controls are in place. 40 CFR 63, Subpart CCCCCC requires that new or modified gasoline dispensing facilities with a monthly throughput greater than 100,000 gallons per month install Stage 1 vapor balance system that achieves a 90% emissions reduction.

<sup>2</sup> 40 CFR 63, Subpart CCCCCC requires that new or modified gasoline dispensing facilities with a monthly throughput greater than 100,000 gallons per month install pressure/vacuum (PV) vent valves on the storage tank vent pipes. This model uses a 75 percent efficiency for PV valves in reducing breathing losses.

<sup>3</sup> The displacement VOC emission rate in lbs/1000 gallons depends on the gasoline Reid Vapor Pressure, the dispensed fuel temperature, and the difference between the temperature of the fuel in the tank and the dispensed fuel. For these purposes EPA calculated the uncontrolled displacement VOC emission rate in lbs/1000 gallons. EPA has used 10 psi RVP and national average summer-time temperatures for ozone attainment areas. This yields a value of about 10.8 lbs/1000 gallons. EPA has used 7 psi RVP and temperatures representative of the summer-time western US for ozone non-attainment areas. This yields a value of about 7.5 lbs/1000 gallons. In 76 FR 41723, EPA determined that 80% of the vehicle fleet will have ORVR installed as of 2014, and widespread use will be achieved on a national basis on June 30, 2013. Therefore, this value has been reduced by 80% for 2014 and increases each year subsequent to 2014 as fleet turnover occurs.

See memorandum to Public Docket EPA-HQ-OAR-2010-1076, Updated Data for ORVR Widespread Use Assessment, Glenn Passavant, OTAQ, 2012 and U.S.EPA, Guidance on Removing Stage II Gasoline Vapor Control Programs from State Implementation Plans and Assessing Comparable Measures, EPA-457/B-12-001, August 7, 2012.

<sup>4</sup> Even though spillage is a specific category of emissions related to fuel dispensing in AP-42, it is considered a fugitive emission for purposes of NSR permits and thus is not included here.

<sup>5</sup> Diesel emission factors were derived using the no.2 diesel true vapor pressure and vapor molecular weight from AP-42 Table 7.1-2 at 70F and equation 1 of section 5.2.2 with an S factor value of 1.45 for storage tank and vehicle tank filling and an S factor of 1.0 for breathing losses.

<sup>6</sup> GDFs with a gasoline throughput of < 10,000 gallons per month have higher storage tank filling and breathing loss emissions because they are not required to install Stage I vapor recovery controls under 40 CFR 63 CCCCCC.

<sup>7</sup> Using these values for an AST assumes a 45% average ullage in a 2000 gal AST

Model Output: OFFROAD2021 (v1.0.1) Emissions Inventory  
Region Type: Sub-Area  
Region: San Bernardino (SC)  
Calendar Year: 2024, 2025, 2026  
Scenario: All Adopted Rules - Exhaust  
Vehicle Classification: OFFROAD2021 Equipment Types  
Units: tons/day for Emissions, gallons/year for Fuel, hours/year for Activity,  
Horsepower-hours/year for Horsepower-hours

| Region              | Calendar Year | Vehicle Category                                          | Model Year | Horsepow | Fuel   | HC_tpd    | ROG_tpd   | TOG_tpd   | CO_tpd    | NOx_tpd   | CO2_tpd  | PM10_tpd  | PM2.5_tpd | SOx_tpd   | NH3_tpd   | Fuel Consun | Total_Activity_hr | Total_Populz | Horsepower_H |
|---------------------|---------------|-----------------------------------------------------------|------------|----------|--------|-----------|-----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|-----------|-------------|-------------------|--------------|--------------|
| San Bernardino (SC) | 2025          | Transportation Refridgeration Unit - Instate Genset       | Aggregate  | 50       | Diesel | 0.0006642 | 0.0067791 | 0.0009562 | 0.0007381 | 0.0066875 | 1.13735  | 0.0001453 | 0.0001338 | 1.886E-06 | 2.695E-08 | 39085.53    | 74503.45          | 95.32        | 3725172.5    |
| San Bernardino (SC) | 2025          | Transportation Refridgeration Unit - Instate Trailer      | Aggregate  | 50       | Diesel | 0.0253247 | 0.222842  | 0.0364613 | 0.0281461 | 0.1778423 | 41.92013 | 0.003683  | 0.0033882 | 6.576E-05 | 9.393E-07 | 1362528.3   | 1803623.46        | 1012.24      | 90181173     |
| San Bernardino (SC) | 2025          | Transportation Refridgeration Unit - Out-Of-State Genset  | Aggregate  | 50       | Diesel | 0.000506  | 0.005158  | 0.0007276 | 0.0005613 | 0.0048641 | 0.73616  | 0.0001378 | 0.0001267 | 1.251E-06 | 1.787E-08 | 25920.78    | 48800.71          | 393.49       | 2440035.5    |
| San Bernardino (SC) | 2025          | Transportation Refridgeration Unit - Out-Of-State Trailer | Aggregate  | 50       | Diesel | 0.0080032 | 0.081729  | 0.011527  | 0.0088901 | 0.066572  | 11.24    | 0.0015398 | 0.0014179 | 1.774E-05 | 2.533E-07 | 367457.78   | 487548.96         | 1792.37      | 24377448     |
| San Bernardino (SC) | 2026          | Transportation Refridgeration Unit - Instate Genset       | Aggregate  | 50       | Diesel | 0.0006129 | 0.0062535 | 0.0008826 | 0.000681  | 0.005937  | 1.04     | 0.0001077 | 9.907E-05 | 1.741E-06 | 2.487E-08 | 36075.91    | 69374.17          | 88.75        | 3468708.5    |
| San Bernardino (SC) | 2026          | Transportation Refridgeration Unit - Instate Trailer      | Aggregate  | 50       | Diesel | 0.0242506 | 0.2056307 | 0.0349233 | 0.0269448 | 0.1845979 | 41.00801 | 0.002932  | 0.002699  | 6.434E-05 | 9.177E-07 | 1333084.9   | 1775225.22        | 989.96       | 88761261     |
| San Bernardino (SC) | 2026          | Transportation Refridgeration Unit - Out-Of-State Genset  | Aggregate  | 50       | Diesel | 0.0004397 | 0.0044875 | 0.0006325 | 0.0004884 | 0.0041898 | 0.64159  | 0.000105  | 9.653E-05 | 1.128E-06 | 1.611E-08 | 23362.88    | 44468.92          | 358.55       | 2223446      |
| San Bernardino (SC) | 2026          | Transportation Refridgeration Unit - Out-Of-State Trailer | Aggregate  | 50       | Diesel | 0.0076604 | 0.078243  | 0.0110337 | 0.0085131 | 0.062662  | 10.88    | 0.0012259 | 0.0011282 | 3.795E-08 | 2.456E-07 | 356229.55   | 475444.91         | 1747.87      | 23772245.5   |

|                            |                       | g/hph     |           |           |           |           |           |           |           |           |           |           |           |           |
|----------------------------|-----------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                            |                       | HC        | ROG       | TOG       | CO        | Nox       | CO2       | PM10      | PM2_5     | Sox       | NH3       | Fuel_gphr |           |           |
| Annual TRU Hours per Truck | 737.66                | 2025      | 0.0590394 | 0.6025895 | 0.0849968 | 0.0656056 | 0.5944472 | 101.09825 | 0.0129183 | 0.0118916 | 0.0001677 | 2.395E-06 | 3474285.7 |           |
|                            | Daily Hours per Truck | 2.02      | 2025      | 0.0929874 | 0.8182332 | 0.1338788 | 0.1033471 | 0.6530029 | 153.92269 | 0.0135233 | 0.0124409 | 0.0002415 | 3.449E-06 | 5002942.9 |
|                            |                       | 2025      | 0.0686646 | 0.6999727 | 0.0987344 | 0.0761746 | 0.6600886 | 99.901493 | 0.0187049 | 0.0171934 | 0.0001698 | 2.424E-06 | 3517611.1 |           |
|                            |                       | 2025      | 0.1087105 | 1.1101556 | 0.1565756 | 0.1207576 | 0.9042724 | 152.67713 | 0.0209157 | 0.0192599 | 0.0002409 | 3.44E-06  | 4991316.6 |           |
|                            |                       | 2026      | 0.0585045 | 0.5969683 | 0.0842543 | 0.0650045 | 0.5667547 | 99.279925 | 0.0102831 | 0.0094574 | 0.0001662 | 2.374E-06 | 3443859.3 |           |
|                            |                       | 2026      | 0.0904681 | 0.7671149 | 0.1302828 | 0.1005189 | 0.688651  | 152.98228 | 0.0109379 | 0.0100688 | 0.00024   | 3.423E-06 | 4973135.1 |           |
|                            |                       | 2026      | 0.0654751 | 0.6683036 | 0.0941954 | 0.0727323 | 0.6239684 | 95.549167 | 0.01563   | 0.0143761 | 0.0001679 | 2.399E-06 | 3479330.6 |           |
|                            |                       | 2026      | 0.1067031 | 1.0898612 | 0.1536904 | 0.1185805 | 0.8728306 | 151.54953 | 0.0170758 | 0.0157149 | 5.287E-07 | 3.421E-06 | 4961987.2 |           |
|                            |                       | Weighting |           |           |           |           |           |           |           |           |           |           |           |           |
|                            |                       | HC        | ROG       | TOG       | CO        | Nox       | CO2       | PM10      | PM2_5     | Sox       | NH3       | Fuel_gphr |           |           |
|                            |                       | 2025      | 5.6276345 | 57.438831 | 8.1018991 | 6.2535298 | 56.662711 | 9636.6854 | 1.2313707 | 1.1335084 | 0.015983  | 0.0002283 | 331168909 |           |
|                            |                       | 2025      | 94.125616 | 828.24833 | 135.51752 | 104.6121  | 660.99563 | 155806.7  | 13.6888   | 12.593172 | 0.2444185 | 0.0034912 | 5.064E+09 |           |
|                            |                       | 2025      | 27.018847 | 275.43226 | 38.851007 | 29.97395  | 259.73828 | 39310.238 | 7.3602035 | 6.765445  | 0.0668001 | 0.000954  | 1.384E+09 |           |
|                            |                       | 2025      | 194.84937 | 1989.8096 | 280.64133 | 216.44222 | 1620.7907 | 273653.9  | 37.488637 | 34.520807 | 0.431784  | 0.006166  | 8.946E+09 |           |
|                            |                       |           | 321.62147 | 3150.929  | 463.11175 | 357.2818  | 2598.1873 | 478407.53 | 59.769012 | 55.012932 | 0.7589855 | 0.0108394 | 1.573E+10 |           |
|                            |                       |           | 0.0976558 | 0.9567346 | 0.1406173 | 0.1084835 | 0.7889025 | 145.26162 | 0.018148  | 0.0167039 | 0.0002305 | 3.291E-06 | 4774908.4 |           |
|                            |                       | 2026      | 5.1922756 | 52.980935 | 7.4775683 | 5.7691481 | 50.299482 | 8811.0934 | 0.9126259 | 0.8393414 | 0.0147511 | 0.0002107 | 305642510 |           |
|                            |                       | 2026      | 89.559763 | 759.41303 | 128.97476 | 99.509654 | 681.73693 | 151446.34 | 10.828098 | 9.9677147 | 0.2376145 | 0.0033891 | 4.923E+09 |           |
|                            |                       | 2026      | 23.476109 | 239.62025 | 33.773773 | 26.078158 | 223.72388 | 34259.154 | 5.6041502 | 5.1545452 | 0.0602065 | 0.0008602 | 1.248E+09 |           |
|                            |                       | 2026      | 186.50319 | 1904.9357 | 268.63092 | 207.26337 | 1525.5944 | 264888.88 | 29.846257 | 27.467613 | 0.000924  | 0.00598   | 8.673E+09 |           |
|                            |                       |           | 304.73134 | 2956.9499 | 438.85703 | 338.62033 | 2481.3547 | 459405.47 | 47.191131 | 43.429214 | 0.3134961 | 0.0104399 | 1.515E+10 |           |
|                            |                       |           | 0.0956731 | 0.9283608 | 0.1377831 | 0.1063129 | 0.7790435 | 144.23445 | 0.0148161 | 0.013635  | 9.842E-05 | 3.278E-06 | 4756248.5 |           |

Phase 2 (Big Box) Trucks  
TRU HP  
Onsite Idling Time  
Total Idling Time  
1 pound =

10  
50  
0.25 hours  
2.02 hours  
453.5924 grams

| Emissions Source | ROG  | NOX  | CO   | SO2  | PM10 | PM2.5 | CO2                                  |
|------------------|------|------|------|------|------|-------|--------------------------------------|
| Big Box Trucks   | 2.07 | 1.74 | 0.31 | 0.00 | 0.03 | 0.03  | lbs/year<br>321.32<br>MT/yr<br>53.20 |

Based on aggregated TRU emission rates obtained from CARB OFFROAD Version 1.0.1.  
TRU time from CARB OFFROAD for San Bernardino County.

Solar Panel GHG Reduction

|                                    |                                 |
|------------------------------------|---------------------------------|
| AC System Size                     | 400 kW                          |
| AC System Size                     | 0.4 MW                          |
| Average Sun exposure per day       | 5 hours                         |
| Number of Days in a year           | 365 year                        |
| kWh generated per year             | 730,000 kWh                     |
| MWh generated per year             | 730 MWh                         |
| CO <sub>2</sub> e intensity factor | 348.18 lb/MWh                   |
| GHG Reduced from Solar             | 115.29 MTCO <sub>2</sub> e/year |
|                                    | 19.09 lbs/day                   |

GHG intensitiy factor source: CalEEMod 2022 Users Guide, Appendix G, Table G-3.

1 metric ton = 2204.623 pounds

Table G-3. Electric Utility Greenhouse Gas Emission Factors<sup>a, b, c, d, e</sup>

| Utility                    | Year | CH4 (lb/MWh) | CO2 (lb/MWh) | N2O (lb/MWh) | CO2e lb/MWh |
|----------------------------|------|--------------|--------------|--------------|-------------|
| Southern California Edison | 2019 | 0.033        | 531.983      | 0.004        | 533.967     |
| Southern California Edison | 2020 | 0.033        | 390.704      | 0.004        | 392.688     |
| Southern California Edison | 2021 | 0.033        | 390.704      | 0.004        | 392.688     |
| Southern California Edison | 2022 | 0.033        | 348.637      | 0.004        | 350.621     |
| Southern California Edison | 2023 | 0.033        | 348.637      | 0.004        | 350.621     |
| Southern California Edison | 2024 | 0.033        | 348.637      | 0.004        | 350.621     |
| Southern California Edison | 2025 | 0.033        | 348.637      | 0.004        | 350.621     |
| Southern California Edison | 2026 | 0.033        | 346.196      | 0.004        | 348.18      |
| Southern California Edison | 2027 | 0.033        | 346.196      | 0.004        | 348.18      |
| Southern California Edison | 2028 | 0.033        | 346.196      | 0.004        | 348.18      |
| Southern California Edison | 2029 | 0.033        | 346.196      | 0.004        | 348.18      |
| Southern California Edison | 2030 | 0.033        | 260.788      | 0.004        | 262.772     |
| Southern California Edison | 2031 | 0.033        | 260.788      | 0.004        | 262.772     |
| Southern California Edison | 2032 | 0.033        | 260.788      | 0.004        | 262.772     |
| Southern California Edison | 2033 | 0.033        | 260.788      | 0.004        | 262.772     |
| Southern California Edison | 2034 | 0.033        | 260.788      | 0.004        | 262.772     |
| Southern California Edison | 2035 | 0.033        | 260.788      | 0.004        | 262.772     |
| Southern California Edison | 2036 | 0.033        | 260.788      | 0.004        | 262.772     |
| Southern California Edison | 2037 | 0.033        | 260.788      | 0.004        | 262.772     |
| Southern California Edison | 2038 | 0.033        | 260.788      | 0.004        | 262.772     |
| Southern California Edison | 2039 | 0.033        | 260.788      | 0.004        | 262.772     |
| Southern California Edison | 2040 | 0.033        | 260.788      | 0.004        | 262.772     |
| Southern California Edison | 2041 | 0.033        | 260.788      | 0.004        | 262.772     |
| Southern California Edison | 2042 | 0.033        | 260.788      | 0.004        | 262.772     |
| Southern California Edison | 2043 | 0.033        | 260.788      | 0.004        | 262.772     |
| Southern California Edison | 2044 | 0.033        | 260.788      | 0.004        | 262.772     |
| Southern California Edison | 2045 | 0.033        | 260.788      | 0.004        | 262.772     |
| Southern California Edison | 2046 | 0.033        | 260.788      | 0.004        | 262.772     |
| Southern California Edison | 2047 | 0.033        | 260.788      | 0.004        | 262.772     |
| Southern California Edison | 2048 | 0.033        | 260.788      | 0.004        | 262.772     |
| Southern California Edison | 2049 | 0.033        | 260.788      | 0.004        | 262.772     |
| Southern California Edison | 2050 | 0.033        | 260.788      | 0.004        | 262.772     |

Sources: California Utilities. 2021. Excel database of GHG emission factors for delivered electricity, provided to the Sacramento Metropolitan Air Quality Management District and ICF. January through March 2021; U.S. Environmental Protection Agency. 2021. Emissions & Generation Resource Integrated Database (eGRID). Last Revised: February 23, 2021. Available: <https://www.epa.gov/egrid>. Accessed: February 24, 2021.

Notes:

- <sup>a</sup> Only those utilities that provided base year (2019) or forecasted carbon intensities are shown in this table. The statewide grid average is also listed. CalEEMod defaults to the
- <sup>b</sup> Forecasted carbon intensities reflect utility specific planning considerations, including future integration of renewables. They may not always decline over the prior year.
- <sup>c</sup> If a utility provided forecasted emission factors for a subset of years, emission factors for all remaining years are held constant at the values for the last year in which data wer
- <sup>d</sup> No future year emission factors are available for the statewide default. Factors are held constant at 2019 rates.
- <sup>e</sup> Users should consult their local electricity provider for updated emission factors available at the time of their analysis before proceeding with the defaults provided in this tab

Construction Water Energy

|                                          |          |                 |
|------------------------------------------|----------|-----------------|
| Daily Soil Disturbance <sup>1</sup>      | 4.0      | acres           |
| Days of Soil Disturbance <sup>2</sup>    | 135      | days            |
| Water Concentration <sup>3</sup>         | 3,020    | gallons/acre    |
| Water Energy Intensity <sup>4</sup>      | 4,238    | kWh/MG          |
| Total Construction Water                 | 1.63     | million gallons |
| Construction Water Energy                | 6,911    | kWh             |
|                                          | 0.0069   | GWh             |
| San Bernardino County Annual Electricity | 16,630   | GWh             |
| % Consumption                            | 0.00004% |                 |

NOTES:

- 1. Total daily acres disturbed from offroad equipment per CalEEMod (3.0 Construction Emissions Detail) and maximum SCAQMD LST values for soil-disturbing equipment.
- 2. Number of days of construction with soil-disturbing equipment per CalEEMod (5.1 Construction Schedule).
- 3. Water application rate per Air and Waste Management Association's Air Pollution Engineering Manual.
- 4. Water energy intensity factor for subarea per CalEEMod User Guide, Appendix G, Tab G-32.

Construction Fuel Emissions by Year

Phase I

| Construction Year | Site Preparation             |                                     |                          | Grading                      |                                         |                          | Building Construction        |                                         |                          |
|-------------------|------------------------------|-------------------------------------|--------------------------|------------------------------|-----------------------------------------|--------------------------|------------------------------|-----------------------------------------|--------------------------|
|                   | On-Site Diesel<br>(Off-Road) | Off-Site Diesel<br>(Hauling/Vendor) | Off-Site Gas<br>(Worker) | On-Site Diesel<br>(Off-Road) | Off-Site Diesel<br>(Hauling/Vendor<br>) | Off-Site Gas<br>(Worker) | On-Site Diesel<br>(Off-Road) | Off-Site Diesel<br>(Hauling/Vendor<br>) | Off-Site Gas<br>(Worker) |
| 2025              | 24                           | -                                   | 1                        | 8                            | 12                                      | 1                        | -                            | -                                       | -                        |
| 2026              | -                            | -                                   | -                        | 46                           | 71                                      | 3                        | 44                           | -                                       | -                        |
| Total             | 24                           | 0                                   | 1                        | 54                           | 83                                      | 4                        | 44                           | 0                                       | 0                        |
| Construction Year | Paving                       |                                     |                          | Architectural Coating        |                                         |                          | Infrastructure Improvements  |                                         |                          |
|                   | On-Site Diesel<br>(Off-Road) | Off-Site Diesel<br>(Hauling/Vendor) | Off-Site Gas<br>(Worker) | On-Site Diesel<br>(Off-Road) | Off-Site Diesel<br>(Hauling/Vendor<br>) | Off-Site Gas<br>(Worker) | On-Site Diesel<br>(Off-Road) | Off-Site Diesel<br>(Hauling/Vendor<br>) | Off-Site Gas<br>(Worker) |
| 2025              | -                            | -                                   | -                        | -                            | -                                       | -                        | -                            | -                                       | -                        |
| 2026              | 12                           | -                                   | 2                        | 2                            | -                                       | -                        | 19                           | -                                       | 1                        |
| Total             | 12                           | 0                                   | 2                        | 2                            | 0                                       | 0                        | 19                           | 0                                       | 1                        |

Phase II

| Construction Year | Site Preparation             |                                     |                          | Grading                      |                                         |                          | Building Construction        |                                         |                          |
|-------------------|------------------------------|-------------------------------------|--------------------------|------------------------------|-----------------------------------------|--------------------------|------------------------------|-----------------------------------------|--------------------------|
|                   | On-Site Diesel<br>(Off-Road) | Off-Site Diesel<br>(Hauling/Vendor) | Off-Site Gas<br>(Worker) | On-Site Diesel<br>(Off-Road) | Off-Site Diesel<br>(Hauling/Vendor<br>) | Off-Site Gas<br>(Worker) | On-Site Diesel<br>(Off-Road) | Off-Site Diesel<br>(Hauling/Vendor<br>) | Off-Site Gas<br>(Worker) |
| 2026              | 36                           | -                                   | 2                        | 210                          | 160                                     | 8                        | 121                          | 45                                      | 36                       |
| Total             | 36                           | 0                                   | 2                        | 210                          | 160                                     | 8                        | 121                          | 45                                      | 36                       |
| Construction Year | Paving                       |                                     |                          | Architectural Coating        |                                         |                          | Infrastructure Improvements  |                                         |                          |
|                   | On-Site Diesel<br>(Off-Road) | Off-Site Diesel<br>(Hauling/Vendor) | Off-Site Gas<br>(Worker) | On-Site Diesel<br>(Off-Road) | Off-Site Diesel<br>(Hauling/Vendor<br>) | Off-Site Gas<br>(Worker) | On-Site Diesel<br>(Off-Road) | Off-Site Diesel<br>(Hauling/Vendor<br>) | Off-Site Gas<br>(Worker) |
| 2026              | 47                           | -                                   | 7                        | 3                            | -                                       | 3                        | -                            | -                                       | -                        |
| Total             | 47                           | 0                                   | 7                        | 3                            | 0                                       | 3                        | 0                            | 0                                       | 0                        |

NOTES:  
MTCO2e rates from CalEEMod (3.0 Construction Emissions Details).

Construction Fuel Consumption

| On-Site Diesel <sup>1</sup> (off-road construction Equipment) | MTCO <sub>2</sub> e | Gallons of Fuel <sup>4</sup> |
|---------------------------------------------------------------|---------------------|------------------------------|
| Site Preparation                                              | 60                  | 5,928                        |
| Grading                                                       | 264                 | 25,997                       |
| Building Construction                                         | 165                 | 16,221                       |
| Paving                                                        | 59                  | 5,800                        |
| Architectural Coating                                         | 5                   | 472                          |
| Infrastructure Improvements                                   | 19                  | 1,833                        |
| Total                                                         | 552                 | 54,418                       |

| Off-Site Diesel <sup>1</sup> (hauling/vendor) | MTCO <sub>2</sub> e | Gallons of Fuel <sup>4</sup> |
|-----------------------------------------------|---------------------|------------------------------|
| Demolition                                    | 0                   | 0                            |
| Site Preparation/Grading                      | 243                 | 23,895                       |
| Building Construction                         | 45                  | 4,433                        |
| Paving                                        | 0                   | 0                            |
| Architectural Coating                         | 0                   | 0                            |
| Infrastructure Improvements                   | 0                   | 0                            |
| Total                                         | 288                 | 28,328                       |

| Off-Site Gasoline <sup>2</sup> (worker) | MTCO <sub>2</sub> e | Gallons of Fuel <sup>4</sup> |
|-----------------------------------------|---------------------|------------------------------|
| Demolition                              | 3                   | 292                          |
| Site Preparation/Grading                | 12                  | 1,355                        |
| Building Construction                   | 36                  | 4,049                        |
| Paving                                  | 8                   | 931                          |
| Architectural Coating                   | 3                   | 371                          |
| Infrastructure Improvements             | 1                   | 135                          |
| Total                                   | 62                  | 6,998                        |

| Combined (On-site + Off-site) | MTCO <sub>2</sub> e | Gallons of Fuel <sup>4</sup> | San Bernardino County<br>Annual Fuel (2025) | % Consumption |
|-------------------------------|---------------------|------------------------------|---------------------------------------------|---------------|
| Total Diesel Fuel             | 840                 | 82,746                       | 281,399,849.10                              | 0.029%        |
| Total Gasoline Fuel           | 62                  | 6,998                        | 828,612,796.60                              | 0.001%        |

| Construction Phase <sup>3</sup> | Site Preparation             |                                     |                               | Grading                      |                                     |                               | Building Construction        |                                     |                               |
|---------------------------------|------------------------------|-------------------------------------|-------------------------------|------------------------------|-------------------------------------|-------------------------------|------------------------------|-------------------------------------|-------------------------------|
|                                 | On-Site Diesel<br>(Off-Road) | Off-Site Diesel<br>(Hauling/Vendor) | Off-Site Gasoline<br>(Worker) | On-Site Diesel<br>(Off-Road) | Off-Site Diesel<br>(Hauling/Vendor) | Off-Site Gasoline<br>(Worker) | On-Site Diesel<br>(Off-Road) | Off-Site Diesel<br>(Hauling/Vendor) | Off-Site Gasoline<br>(Worker) |
| Phase I                         | 24                           | 0                                   | 1                             | 54                           | 83                                  | 4                             | 44                           | 0                                   | 0                             |
| Phase II                        | 36                           | 0                                   | 2                             | 210                          | 160                                 | 8                             | 121                          | 45                                  | 36                            |
| Total                           | 60                           | 0                                   | 3                             | 264                          | 243                                 | 12                            | 165                          | 45                                  | 36                            |

| Construction Phase <sup>3</sup> | Paving                       |                                     |                               | Architectural Coating        |                                     |                               | Infrastructure Improvements  |                                     |                               |
|---------------------------------|------------------------------|-------------------------------------|-------------------------------|------------------------------|-------------------------------------|-------------------------------|------------------------------|-------------------------------------|-------------------------------|
|                                 | On-Site Diesel<br>(Off-Road) | Off-Site Diesel<br>(Hauling/Vendor) | Off-Site Gasoline<br>(Worker) | On-Site Diesel<br>(Off-Road) | Off-Site Diesel<br>(Hauling/Vendor) | Off-Site Gasoline<br>(Worker) | On-Site Diesel<br>(Off-Road) | Off-Site Diesel<br>(Hauling/Vendor) | Off-Site Gasoline<br>(Worker) |
| Phase I                         | 12                           | 0                                   | 2                             | 2                            | 0                                   | 0                             | 19                           | 0                                   | 1                             |
| Phase II                        | 47                           | 0                                   | 7                             | 3                            | 0                                   | 3                             | 0                            | 0                                   | 0                             |
| Total                           | 59                           | 0                                   | 8                             | 5                            | 0                                   | 3                             | 19                           | 0                                   | 1                             |

NOTES:

1. Fuel used for off-road, hauling, and vendor trips assumed to be diesel.

2. Fuel used for worker trips assumed to be gasoline.

3. MTCO<sub>2</sub>e rates from CalEEMod (3.0 Construction Emissions Details).

4. For CO<sub>2</sub>e emissions, see Chapter 13 (page 94); Conversion Ratios: Climate Registry, General Reporting Protocol, 2016.

Elecricity/Natural Gas Energy

| ELECTRICITY                        |                       |                                                     |               |
|------------------------------------|-----------------------|-----------------------------------------------------|---------------|
|                                    | Annual Project Energy | San Bernardino County<br>Annual Energy <sup>3</sup> | % Consumption |
| Electricity (kWh/yr)               | 2,447,585             | -                                                   | -             |
| (GWh/yr)                           | 2.4476                | 16,630                                              | 0.01%         |
| Water Energy (GWh/yr)              | 0.1259                | 16,630                                              | 0.001%        |
| Solar Panels (GWh/yr) <sup>4</sup> | -0.7300               |                                                     |               |
| <b>Total Electricity (GWh/yr)</b>  | <b>1.8435</b>         | <b>16,630</b>                                       | <b>0.011%</b> |
| NATURAL GAS                        |                       |                                                     |               |
| Natural Gas (kBtu/yr)              | 1,639,823             | -                                                   | -             |
| <b>(therms/yr)</b>                 | <b>16,398</b>         | <b>562,123,065</b>                                  | <b>0.003%</b> |

| Land Use                             | Electricity <sup>1</sup> (kWh/yr) | Natural Gas <sup>2</sup> (kBtu/yr) |
|--------------------------------------|-----------------------------------|------------------------------------|
| Gasoline/Service Station             | 1955.23                           | 8791.653188                        |
| Fast Food Restaurant with Drive Thru | 91979.86                          | 299732.4642                        |
| Regional Shopping Center             | 1467976.39                        | 889611.772                         |
| Refrigerated Warehouse-No Rail       | 367098.94                         | 441687.4256                        |
| Parking Lot                          | 518574.83                         | 0                                  |
| <b>Total Energy</b>                  | <b>2,447,585</b>                  | <b>1,639,823</b>                   |

- NOTES:
- 1. Electricity use per CalEEMod (5.11 Operational Energy Consumption).
  - 2. Natural Gas use per CalEEMod (5.11 Operational Energy Consumption).
  - 3. County total energy values in 2022 from California Energy Commission energy reports available through [ecdms.energy.ca.gov](https://ecdms.energy.ca.gov).
  - 4. The Project would include solar panels that would generate electricity and lower the Project's electrical grid usage.

Operational Water Energy

| UNMITIGATED                                  |         |                    |  |
|----------------------------------------------|---------|--------------------|--|
| Unmitigated Indoor                           | 16.2    | million gallons/yr |  |
| Indoor Energy Intensity Factor <sup>1</sup>  | 5,757   | kWh/MG             |  |
| Unmitigated Outdoor                          | 8       | million gallons/yr |  |
| Outdoor Energy Intensity Factor <sup>2</sup> | 4,238   | kWh/MG             |  |
| Operational Water Energy                     | 125,941 | kWh/yr             |  |
| Operational Water Energy                     | 0.1259  | GWh/yr             |  |

| Land Use                                   | Indoor (gal/year) | Outdoor (gal/year) |
|--------------------------------------------|-------------------|--------------------|
| Gasoline/Service Station                   | 371892.892        | 0.00               |
| Fast Food Restaurant with Drive Thru       | 796168.93         | 0.00               |
| Regional Shopping Center                   | 11177321.27       | 7679792.02         |
| Refrigerated Warehouse-No Rail             | 3877230.00        | 0.00               |
| Parking Lot                                | 0.00              | 0.00               |
| Total Operational Water (million gal/year) | 16.22             | 7.68               |

- NOTES:
- 1. Indoor water energy intensity factor for subarea per CalEEMod User Guide, Appendix G, Tab G-32. Factor includes supply, treatment, distribution, and wastewater.
  - 2. Outdoor water energy intensity factor for subarea per CalEEMod User Guide, Appendix G, Tab G-32. Factor includes supply, treatment, and distribution.
  - 3. Operational water use values per CalEEMod (5.12 Operational Water and Wastewater Consumption).

Operational Fuel

| Gasoline/Service Station |         |                         |                  |                       |           |
|--------------------------|---------|-------------------------|------------------|-----------------------|-----------|
| Vehicle Type             | Percent | Annual VMT <sup>1</sup> | MPG <sup>2</sup> | Annual Fuel (Gallons) | Fuel Type |
| Passenger Cars           | 92.37%  | 12,723,787              | 21.6             | 589,064               | Gas       |
| Light/Medium Trucks      | 5.62%   | 774,227                 | 17.2             | 45,013                | Diesel    |
| Heavy Trucks/Other       | 2.00%   | 276,073                 | 6.1              | 45,258                | Diesel    |

| Fast Food Restaurant with Drive Thru |         |                         |                  |                       |           |
|--------------------------------------|---------|-------------------------|------------------|-----------------------|-----------|
| Vehicle Type                         | Percent | Annual VMT <sup>1</sup> | MPG <sup>2</sup> | Annual Fuel (Gallons) | Fuel Type |
| Passenger Cars                       | 92%     | 4,761,661               | 21.6             | 220,447               | Gas       |
| Light/Medium Trucks                  | 6%      | 289,741                 | 17.2             | 16,845                | Diesel    |
| Heavy Trucks/Other                   | 2%      | 103,316                 | 6.1              | 16,937                | Diesel    |

| Regional Shopping Center |         |                         |                  |                       |           |
|--------------------------|---------|-------------------------|------------------|-----------------------|-----------|
| Vehicle Type             | Percent | Annual VMT <sup>1</sup> | MPG <sup>2</sup> | Annual Fuel (Gallons) | Fuel Type |
| Passenger Cars           | 92%     | 27,072,285              | 21.6             | 1,253,347             | Gas       |
| Light/Medium Trucks      | 6%      | 1,647,316               | 17.2             | 95,774                | Diesel    |
| Heavy Trucks/Other       | 2%      | 587,398                 | 6.1              | 96,295                | Diesel    |

| Refrigerated Warehouse-No Rail |         |                         |                  |                       |           |
|--------------------------------|---------|-------------------------|------------------|-----------------------|-----------|
| Vehicle Type                   | Percent | Annual VMT <sup>1</sup> | MPG <sup>2</sup> | Annual Fuel (Gallons) | Fuel Type |
| Passenger Cars                 | 0%      | 0                       | 21.6             | 0                     | Gas       |
| Light/Medium Trucks            | 0%      | 0                       | 17.2             | 0                     | Diesel    |
| Heavy Trucks/Other             | 100%    | 262,830                 | 6.1              | 43,087                | Diesel    |

| MOBILE TOTAL        |                       |           |                                                       |               |                                        |               |
|---------------------|-----------------------|-----------|-------------------------------------------------------|---------------|----------------------------------------|---------------|
| Vehicle Type        | Annual Fuel (Gallons) | Fuel Type | San Bernadino County Fuel (Gallons 2027) <sup>3</sup> | % Consumption | State Fuel (Gallons 2027) <sup>3</sup> | % Consumption |
| Passenger Cars      | 2,062,858             | Gas       | 797,136,264                                           | 0.26%         | 13,169,065,097.42                      | 0.016%        |
| Light/Medium Trucks | 157,633               | Diesel    | -                                                     | -             | -                                      | -             |
| Heavy Trucks/Other  | 201,576               | Diesel    | -                                                     | -             | -                                      | -             |
| Total Diesel        | 359,209               | Diesel    | 281,171,240                                           | 0.13%         | 3,160,833,123.4800                     | 0.011%        |

| Land Use <sup>4</sup>                | LDA     | LDT1   | LDT2    | MCY    | MDV     | LHD1   | LHD2   | MHD    | OBUS   | UBUS   | SBUS   | MH     | HHD      |
|--------------------------------------|---------|--------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--------|----------|
| Gasoline/Service Station             | 48.5939 | 4.3042 | 21.2216 | 2.6049 | 15.6502 | 3.3921 | 0.9271 | 0.5490 | 0.0483 | 0.0236 | 0.1076 | 0.5731 | 2.0043   |
| Fast Food Restaurant with Drive Thru | 48.5939 | 4.3042 | 21.2216 | 2.6049 | 15.6502 | 3.3921 | 0.9271 | 0.5490 | 0.0483 | 0.0236 | 0.1076 | 0.5731 | 2.0043   |
| Regional Shopping Center             | 48.5939 | 4.3042 | 21.2216 | 2.6049 | 15.6502 | 3.3921 | 0.9271 | 0.5490 | 0.0483 | 0.0236 | 0.1076 | 0.5731 | 2.0043   |
| Refrigerated Warehouse No Rail       | 0.0000  | 0.0000 | 0.0000  | 0.0000 | 0.0000  | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 100.0000 |

| Land Use                             | VMT        |
|--------------------------------------|------------|
| Gasoline/Service Station             | 13774087.3 |
| Fast Food Restaurant with Drive Thru | 5154717.7  |
| Regional Shopping Center             | 29306999.4 |
| Refrigerated Warehouse-No Rail       | 262830.4   |

NOTES:  
1. Total annual operational VMT based on annual VMT from CalEEMod (5.9 Operational Mobile Sources).  
2. Average fuel economy derived from US Energy Information Administration, Monthly Energy Review (Table 1.8), April 2024 (<https://www.eia.gov/totalenergy/data/monthly/pdf/mer.pdf>)  
3. Total annual county fuel per EMFAC 2021 model of projected operational fuel usage in buildout year 2027.  
4. Total annual county fuel per EMFAC 2021 model of projected operational fuel usage in 2027 - first operational year of Project

# Hesperia Big Box - Construction only for Retail Detailed Report

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## 8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

| Data Field                  | Value                                           |
|-----------------------------|-------------------------------------------------|
| Project Name                | Hesperia Big Box - Construction only for Retail |
| Construction Start Date     | 4/1/2026                                        |
| Lead Agency                 | —                                               |
| Land Use Scale              | Project/site                                    |
| Analysis Level for Defaults | County                                          |
| Windspeed (m/s)             | 2.80                                            |
| Precipitation (days)        | 1.40                                            |
| Location                    | 34.42992123330454, -117.38096588848597          |
| County                      | San Bernardino-Mojave Desert                    |
| City                        | Hesperia                                        |
| Air District                | Mojave Desert AQMD                              |
| Air Basin                   | Mojave Desert                                   |
| TAZ                         | 5106                                            |
| EDFZ                        | 10                                              |
| Electric Utility            | Southern California Edison                      |
| Gas Utility                 | Southwest Gas Corp.                             |
| App Version                 | 2022.1.1.29                                     |

## 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 |
|--------------------------|------|----------|-------------|-----------------------|------------------------|--------------------------------|------------|-------------|
| Regional Shopping Center | 168  | 1000sqft | 16.7        | 167,664               | 0.00                   | —                              | —          | —           |

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.1. Construction Emissions Compared Against Thresholds

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

| Un/Mit.             | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2  | CO2T   | CH4  | N2O  | R    | CO2e   |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|------|--------|
| Daily, Summer (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Unmit.              | 17.0 | 16.8 | 32.7 | 30.3 | 0.09 | 1.22  | 10.8  | 12.0  | 1.13   | 4.05   | 5.18   | —    | 11,689 | 11,689 | 0.28 | 0.82 | 10.9 | 11,951 |
| Daily, Winter (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Unmit.              | 17.0 | 16.7 | 33.0 | 29.8 | 0.09 | 1.24  | 19.9  | 21.1  | 1.14   | 10.2   | 11.3   | —    | 11,661 | 11,661 | 0.28 | 0.82 | 0.28 | 11,912 |
| Average Daily (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Unmit.              | 3.63 | 3.40 | 11.8 | 13.4 | 0.03 | 0.44  | 3.21  | 3.66  | 0.41   | 1.27   | 1.68   | —    | 3,892  | 3,892  | 0.10 | 0.21 | 1.61 | 3,960  |
| Annual (Max)        | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Unmit.              | 0.66 | 0.62 | 2.15 | 2.45 | 0.01 | 0.08  | 0.59  | 0.67  | 0.07   | 0.23   | 0.31   | —    | 644    | 644    | 0.02 | 0.04 | 0.27 | 656    |

### 2.2. Construction Emissions by Year, Unmitigated

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

| Year                 | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2  | CO2T   | CH4  | N2O  | R    | CO2e   |
|----------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|------|--------|
| Daily - Summer (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| 2026                 | 17.0 | 16.8 | 32.7 | 30.3 | 0.09 | 1.22  | 10.8  | 12.0  | 1.13   | 4.05   | 5.18   | —    | 11,689 | 11,689 | 0.28 | 0.82 | 10.9 | 11,951 |

|                      |      |      |      |      |      |      |      |      |      |      |      |   |        |        |      |      |      |        |
|----------------------|------|------|------|------|------|------|------|------|------|------|------|---|--------|--------|------|------|------|--------|
| Daily - Winter (Max) | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |
| 2026                 | 17.0 | 16.7 | 33.0 | 29.8 | 0.09 | 1.24 | 19.9 | 21.1 | 1.14 | 10.2 | 11.3 | — | 11,661 | 11,661 | 0.28 | 0.82 | 0.28 | 11,912 |
| Average Daily        | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |
| 2026                 | 3.63 | 3.40 | 11.8 | 13.4 | 0.03 | 0.44 | 3.21 | 3.66 | 0.41 | 1.27 | 1.68 | — | 3,892  | 3,892  | 0.10 | 0.21 | 1.61 | 3,960  |
| Annual               | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |
| 2026                 | 0.66 | 0.62 | 2.15 | 2.45 | 0.01 | 0.08 | 0.59 | 0.67 | 0.07 | 0.23 | 0.31 | — | 644    | 644    | 0.02 | 0.04 | 0.27 | 656    |

### 3. Construction Emissions Details

#### 3.1. Site Preparation (2026) - Unmitigated

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

| Location                    | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R    | CO2e  |
|-----------------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|------|-------|
| Onsite                      | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Daily, Summer (Max)         | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Daily, Winter (Max)         | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road Equipment          | 3.74 | 3.14 | 29.2 | 28.8 | 0.05 | 1.24  | —     | 1.24  | 1.14   | —      | 1.14   | —    | 5,298 | 5,298 | 0.21 | 0.04 | —    | 5,316 |
| Dust From Material Movement | —    | —    | —    | —    | —    | —     | 19.7  | 19.7  | —      | 10.1   | 10.1   | —    | —     | —     | —    | —    | —    | —     |
| Onsite truck                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00  |
| Average Daily               | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |

|                             |         |         |         |      |         |      |      |      |      |         |         |   |      |      |         |         |      |      |
|-----------------------------|---------|---------|---------|------|---------|------|------|------|------|---------|---------|---|------|------|---------|---------|------|------|
| Off-Road Equipment          | 0.15    | 0.13    | 1.20    | 1.18 | < 0.005 | 0.05 | —    | 0.05 | 0.05 | —       | 0.05    | — | 218  | 218  | 0.01    | < 0.005 | —    | 218  |
| Dust From Material Movement | —       | —       | —       | —    | —       | —    | 0.81 | 0.81 | —    | 0.42    | 0.42    | — | —    | —    | —       | —       | —    | —    |
| Onsite truck                | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Annual                      | —       | —       | —       | —    | —       | —    | —    | —    | —    | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Off-Road Equipment          | 0.03    | 0.02    | 0.22    | 0.22 | < 0.005 | 0.01 | —    | 0.01 | 0.01 | —       | 0.01    | — | 36.0 | 36.0 | < 0.005 | < 0.005 | —    | 36.2 |
| Dust From Material Movement | —       | —       | —       | —    | —       | —    | 0.15 | 0.15 | —    | 0.08    | 0.08    | — | —    | —    | —       | —       | —    | —    |
| Onsite truck                | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Offsite                     | —       | —       | —       | —    | —       | —    | —    | —    | —    | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Daily, Summer (Max)         | —       | —       | —       | —    | —       | —    | —    | —    | —    | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Daily, Winter (Max)         | —       | —       | —       | —    | —       | —    | —    | —    | —    | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker                      | 0.08    | 0.07    | 0.08    | 0.90 | 0.00    | 0.00 | 0.23 | 0.23 | 0.00 | 0.05    | 0.05    | — | 222  | 222  | < 0.005 | 0.01    | 0.02 | 224  |
| Vendor                      | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Hauling                     | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Average Daily               | —       | —       | —       | —    | —       | —    | —    | —    | —    | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker                      | < 0.005 | < 0.005 | < 0.005 | 0.04 | 0.00    | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 9.37 | 9.37 | < 0.005 | < 0.005 | 0.02 | 9.50 |
| Vendor                      | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Hauling                     | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Annual                      | —       | —       | —       | —    | —       | —    | —    | —    | —    | —       | —       | — | —    | —    | —       | —       | —    | —    |

|         |         |         |         |      |      |      |         |         |      |         |         |   |      |      |         |         |         |      |
|---------|---------|---------|---------|------|------|------|---------|---------|------|---------|---------|---|------|------|---------|---------|---------|------|
| Worker  | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 1.55 | 1.55 | < 0.005 | < 0.005 | < 0.005 | 1.57 |
| Vendor  | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Hauling | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |

### 3.3. Grading (2026) - Unmitigated

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

| Location                    | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R    | CO2e  |
|-----------------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|------|-------|
| Onsite                      | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Daily, Summer (Max)         | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road Equipment          | 3.62 | 3.04 | 27.2 | 27.6 | 0.06 | 1.12  | —     | 1.12  | 1.03   | —      | 1.03   | —    | 6,599 | 6,599 | 0.27 | 0.05 | —    | 6,621 |
| Dust From Material Movement | —    | —    | —    | —    | —    | —     | 9.24  | 9.24  | —      | 3.66   | 3.66   | —    | —     | —     | —    | —    | —    | —     |
| Onsite truck                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00  |
| Daily, Winter (Max)         | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road Equipment          | 3.62 | 3.04 | 27.2 | 27.6 | 0.06 | 1.12  | —     | 1.12  | 1.03   | —      | 1.03   | —    | 6,599 | 6,599 | 0.27 | 0.05 | —    | 6,621 |
| Dust From Material Movement | —    | —    | —    | —    | —    | —     | 9.24  | 9.24  | —      | 3.66   | 3.66   | —    | —     | —     | —    | —    | —    | —     |
| Onsite truck                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00  |

|                             |      |      |      |      |         |      |      |      |      |      |      |   |       |       |         |         |      |       |
|-----------------------------|------|------|------|------|---------|------|------|------|------|------|------|---|-------|-------|---------|---------|------|-------|
| Average Daily               | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment          | 0.69 | 0.58 | 5.22 | 5.29 | 0.01    | 0.22 | —    | 0.22 | 0.20 | —    | 0.20 | — | 1,265 | 1,265 | 0.05    | 0.01    | —    | 1,270 |
| Dust From Material Movement | —    | —    | —    | —    | —       | —    | 1.77 | 1.77 | —    | 0.70 | 0.70 | — | —     | —     | —       | —       | —    | —     |
| Onsite truck                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Annual                      | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment          | 0.13 | 0.11 | 0.95 | 0.96 | < 0.005 | 0.04 | —    | 0.04 | 0.04 | —    | 0.04 | — | 210   | 210   | 0.01    | < 0.005 | —    | 210   |
| Dust From Material Movement | —    | —    | —    | —    | —       | —    | 0.32 | 0.32 | —    | 0.13 | 0.13 | — | —     | —     | —       | —       | —    | —     |
| Onsite truck                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Offsite                     | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Daily, Summer (Max)         | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Worker                      | 0.11 | 0.10 | 0.09 | 1.54 | 0.00    | 0.00 | 0.26 | 0.26 | 0.00 | 0.06 | 0.06 | — | 286   | 286   | 0.01    | 0.01    | 0.97 | 290   |
| Vendor                      | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Hauling                     | 0.12 | 0.11 | 5.35 | 1.20 | 0.03    | 0.10 | 1.30 | 1.40 | 0.10 | 0.33 | 0.43 | — | 4,804 | 4,804 | < 0.005 | 0.75    | 9.98 | 5,039 |
| Daily, Winter (Max)         | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Worker                      | 0.10 | 0.08 | 0.10 | 1.03 | 0.00    | 0.00 | 0.26 | 0.26 | 0.00 | 0.06 | 0.06 | — | 253   | 253   | < 0.005 | 0.01    | 0.03 | 256   |
| Vendor                      | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |

|               |         |         |         |      |         |         |      |      |         |         |         |   |       |       |         |         |      |       |
|---------------|---------|---------|---------|------|---------|---------|------|------|---------|---------|---------|---|-------|-------|---------|---------|------|-------|
| Hauling       | 0.11    | 0.10    | 5.67    | 1.24 | 0.03    | 0.10    | 1.30 | 1.40 | 0.10    | 0.33    | 0.43    | — | 4,809 | 4,809 | < 0.005 | 0.75    | 0.26 | 5,034 |
| Average Daily | —       | —       | —       | —    | —       | —       | —    | —    | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker        | 0.02    | 0.02    | 0.02    | 0.22 | 0.00    | 0.00    | 0.05 | 0.05 | 0.00    | 0.01    | 0.01    | — | 50.0  | 50.0  | < 0.005 | < 0.005 | 0.08 | 50.7  |
| Vendor        | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Hauling       | 0.02    | 0.02    | 1.09    | 0.23 | 0.01    | 0.02    | 0.25 | 0.27 | 0.02    | 0.06    | 0.08    | — | 922   | 922   | < 0.005 | 0.14    | 0.83 | 966   |
| Annual        | —       | —       | —       | —    | —       | —       | —    | —    | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker        | < 0.005 | < 0.005 | < 0.005 | 0.04 | 0.00    | 0.00    | 0.01 | 0.01 | 0.00    | < 0.005 | < 0.005 | — | 8.28  | 8.28  | < 0.005 | < 0.005 | 0.01 | 8.39  |
| Vendor        | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Hauling       | < 0.005 | < 0.005 | 0.20    | 0.04 | < 0.005 | < 0.005 | 0.05 | 0.05 | < 0.005 | 0.01    | 0.01    | — | 153   | 153   | < 0.005 | 0.02    | 0.14 | 160   |

### 3.5. Building Construction (2026) - Unmitigated

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

| Location            | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R    | CO2e  |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|------|-------|
| Onsite              | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Daily, Summer (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road Equipment  | 1.28 | 1.07 | 9.85 | 13.0 | 0.02 | 0.38  | —     | 0.38  | 0.35   | —      | 0.35   | —    | 2,397 | 2,397 | 0.10 | 0.02 | —    | 2,405 |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00  |
| Daily, Winter (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road Equipment  | 1.28 | 1.07 | 9.85 | 13.0 | 0.02 | 0.38  | —     | 0.38  | 0.35   | —      | 0.35   | —    | 2,397 | 2,397 | 0.10 | 0.02 | —    | 2,405 |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00  |

|                     |      |      |      |      |         |         |      |      |         |      |      |   |      |      |         |         |      |      |
|---------------------|------|------|------|------|---------|---------|------|------|---------|------|------|---|------|------|---------|---------|------|------|
| Average Daily       | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —    | —    | —       | —       | —    | —    |
| Off-Road Equipment  | 0.39 | 0.33 | 3.00 | 3.94 | 0.01    | 0.12    | —    | 0.12 | 0.11    | —    | 0.11 | — | 729  | 729  | 0.03    | 0.01    | —    | 732  |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Annual              | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —    | —    | —       | —       | —    | —    |
| Off-Road Equipment  | 0.07 | 0.06 | 0.55 | 0.72 | < 0.005 | 0.02    | —    | 0.02 | 0.02    | —    | 0.02 | — | 121  | 121  | < 0.005 | < 0.005 | —    | 121  |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Offsite             | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —    | —    | —       | —       | —    | —    |
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.28 | 0.26 | 0.24 | 4.14 | 0.00    | 0.00    | 0.70 | 0.70 | 0.00    | 0.16 | 0.16 | — | 767  | 767  | 0.03    | 0.03    | 2.60 | 778  |
| Vendor              | 0.04 | 0.03 | 0.86 | 0.36 | 0.01    | 0.01    | 0.24 | 0.25 | 0.01    | 0.06 | 0.08 | — | 858  | 858  | < 0.005 | 0.12    | 2.16 | 895  |
| Hauling             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.25 | 0.23 | 0.26 | 2.76 | 0.00    | 0.00    | 0.70 | 0.70 | 0.00    | 0.16 | 0.16 | — | 679  | 679  | 0.01    | 0.03    | 0.07 | 687  |
| Vendor              | 0.03 | 0.03 | 0.91 | 0.37 | 0.01    | 0.01    | 0.24 | 0.25 | 0.01    | 0.06 | 0.08 | — | 859  | 859  | < 0.005 | 0.12    | 0.06 | 894  |
| Hauling             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Average Daily       | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.08 | 0.07 | 0.09 | 0.95 | 0.00    | 0.00    | 0.21 | 0.21 | 0.00    | 0.05 | 0.05 | — | 213  | 213  | < 0.005 | 0.01    | 0.34 | 215  |
| Vendor              | 0.01 | 0.01 | 0.27 | 0.11 | < 0.005 | < 0.005 | 0.07 | 0.08 | < 0.005 | 0.02 | 0.02 | — | 261  | 261  | < 0.005 | 0.04    | 0.28 | 272  |
| Hauling             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Annual              | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —    | —    | —       | —       | —    | —    |

|         |         |         |      |      |         |         |      |      |         |         |         |   |      |      |         |         |      |      |
|---------|---------|---------|------|------|---------|---------|------|------|---------|---------|---------|---|------|------|---------|---------|------|------|
| Worker  | 0.01    | 0.01    | 0.02 | 0.17 | 0.00    | 0.00    | 0.04 | 0.04 | 0.00    | 0.01    | 0.01    | — | 35.2 | 35.2 | < 0.005 | < 0.005 | 0.06 | 35.7 |
| Vendor  | < 0.005 | < 0.005 | 0.05 | 0.02 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 43.2 | 43.2 | < 0.005 | 0.01    | 0.05 | 45.0 |
| Hauling | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |

### 3.7. Paving (2026) - Unmitigated

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

| Location            | TOG  | ROG  | NOx  | CO   | SO2     | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O     | R    | CO2e  |
|---------------------|------|------|------|------|---------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|---------|------|-------|
| Onsite              | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 0.91 | 0.76 | 7.12 | 9.94 | 0.01    | 0.32  | —     | 0.32  | 0.29   | —      | 0.29   | —    | 1,511 | 1,511 | 0.06 | 0.01    | —    | 1,516 |
| Paving              | 0.00 | 0.00 | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00  | 0.00  | 0.00 | 0.00    | 0.00 | 0.00  |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Average Daily       | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 0.10 | 0.08 | 0.78 | 1.09 | < 0.005 | 0.04  | —     | 0.04  | 0.03   | —      | 0.03   | —    | 166   | 166   | 0.01 | < 0.005 | —    | 166   |
| Paving              | 0.00 | 0.00 | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00  | 0.00  | 0.00 | 0.00    | 0.00 | 0.00  |
| Annual              | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |

|                     |         |         |         |      |         |      |         |         |      |         |         |   |      |      |         |         |      |      |
|---------------------|---------|---------|---------|------|---------|------|---------|---------|------|---------|---------|---|------|------|---------|---------|------|------|
| Off-Road Equipment  | 0.02    | 0.02    | 0.14    | 0.20 | < 0.005 | 0.01 | —       | 0.01    | 0.01 | —       | 0.01    | — | 27.4 | 27.4 | < 0.005 | < 0.005 | —    | 27.5 |
| Paving              | 0.00    | 0.00    | —       | —    | —       | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Onsite truck        | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Offsite             | —       | —       | —       | —    | —       | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Daily, Summer (Max) | —       | —       | —       | —    | —       | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.08    | 0.07    | 0.07    | 1.16 | 0.00    | 0.00 | 0.20    | 0.20    | 0.00 | 0.05    | 0.05    | — | 214  | 214  | 0.01    | 0.01    | 0.73 | 218  |
| Vendor              | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Hauling             | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Daily, Winter (Max) | —       | —       | —       | —    | —       | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Average Daily       | —       | —       | —       | —    | —       | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.01    | 0.01    | 0.01    | 0.10 | 0.00    | 0.00 | 0.02    | 0.02    | 0.00 | 0.01    | 0.01    | — | 21.4 | 21.4 | < 0.005 | < 0.005 | 0.03 | 21.7 |
| Vendor              | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Hauling             | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Annual              | —       | —       | —       | —    | —       | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.00    | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 3.55 | 3.55 | < 0.005 | < 0.005 | 0.01 | 3.59 |
| Vendor              | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Hauling             | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |

### 3.9. Architectural Coating (2026) - Unmitigated

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

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

|                        |      |      |      |      |         |         |      |         |         |      |         |   |      |      |         |         |      |      |
|------------------------|------|------|------|------|---------|---------|------|---------|---------|------|---------|---|------|------|---------|---------|------|------|
| Daily, Summer (Max)    | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| Off-Road Equipment     | 0.15 | 0.12 | 0.86 | 1.13 | < 0.005 | 0.02    | —    | 0.02    | 0.02    | —    | 0.02    | — | 134  | 134  | 0.01    | < 0.005 | —    | 134  |
| Architectural Coatings | 15.2 | 15.2 | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| Onsite truck           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Daily, Winter (Max)    | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| Off-Road Equipment     | 0.15 | 0.12 | 0.86 | 1.13 | < 0.005 | 0.02    | —    | 0.02    | 0.02    | —    | 0.02    | — | 134  | 134  | 0.01    | < 0.005 | —    | 134  |
| Architectural Coatings | 15.2 | 15.2 | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| Onsite truck           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Average Daily          | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| Off-Road Equipment     | 0.02 | 0.02 | 0.12 | 0.16 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | — | 18.7 | 18.7 | < 0.005 | < 0.005 | —    | 18.7 |
| Architectural Coatings | 2.13 | 2.13 | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| Onsite truck           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |

|                        |         |         |         |      |         |         |         |         |         |         |         |   |      |      |         |         |      |      |
|------------------------|---------|---------|---------|------|---------|---------|---------|---------|---------|---------|---------|---|------|------|---------|---------|------|------|
| Annual                 | —       | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Off-Road Equipment     | < 0.005 | < 0.005 | 0.02    | 0.03 | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | —       | < 0.005 | — | 3.09 | 3.09 | < 0.005 | < 0.005 | —    | 3.10 |
| Architectural Coatings | 0.39    | 0.39    | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Onsite truck           | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Offsite                | —       | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Daily, Summer (Max)    | —       | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker                 | 0.06    | 0.05    | 0.05    | 0.83 | 0.00    | 0.00    | 0.14    | 0.14    | 0.00    | 0.03    | 0.03    | — | 153  | 153  | 0.01    | 0.01    | 0.52 | 156  |
| Vendor                 | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Hauling                | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Daily, Winter (Max)    | —       | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker                 | 0.05    | 0.05    | 0.05    | 0.55 | 0.00    | 0.00    | 0.14    | 0.14    | 0.00    | 0.03    | 0.03    | — | 136  | 136  | < 0.005 | 0.01    | 0.01 | 137  |
| Vendor                 | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Hauling                | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Average Daily          | —       | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker                 | 0.01    | 0.01    | 0.01    | 0.09 | 0.00    | 0.00    | 0.02    | 0.02    | 0.00    | < 0.005 | < 0.005 | — | 19.5 | 19.5 | < 0.005 | < 0.005 | 0.03 | 19.8 |
| Vendor                 | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Hauling                | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Annual                 | —       | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker                 | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | — | 3.24 | 3.24 | < 0.005 | < 0.005 | 0.01 | 3.28 |
| Vendor                 | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Hauling                | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |

## 4. Operations Emissions Details

### 4.10. Soil Carbon Accumulation By Vegetation Type

#### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

|       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

#### 4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

|             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Subtotal    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| —           | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

## 5. Activity Data

### 5.1. Construction Schedule

| Phase Name            | Phase Type            | Start Date | End Date  | Days Per Week | Work Days per Phase | Phase Description |
|-----------------------|-----------------------|------------|-----------|---------------|---------------------|-------------------|
| Site Preparation      | Site Preparation      | 3/10/2026  | 3/30/2026 | 5.00          | 15.0                | —                 |
| Grading               | Grading               | 3/31/2026  | 7/6/2026  | 5.00          | 70.0                | —                 |
| Building Construction | Building Construction | 7/7/2026   | 12/8/2026 | 5.00          | 111                 | —                 |
| Paving                | Paving                | 8/4/2026   | 9/28/2026 | 5.00          | 40.0                | —                 |
| Architectural Coating | Architectural Coating | 9/29/2026  | 12/8/2026 | 5.00          | 51.0                | —                 |

### 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 | Rubber Tired Dozers        | Diesel    | Average     | 3.00           | 8.00          | 367        | 0.40        |
| Site Preparation | Tractors/Loaders/Back hoes | Diesel    | Average     | 4.00           | 8.00          | 84.0       | 0.37        |
| Grading          | Excavators                 | Diesel    | Average     | 2.00           | 8.00          | 36.0       | 0.38        |
| Grading          | Graders                    | Diesel    | Average     | 1.00           | 8.00          | 148        | 0.41        |
| Grading          | Rubber Tired Dozers        | Diesel    | Average     | 1.00           | 8.00          | 367        | 0.40        |

|                       |                            |        |         |      |      |      |      |
|-----------------------|----------------------------|--------|---------|------|------|------|------|
| Grading               | Tractors/Loaders/Back      | Diesel | Average | 2.00 | 8.00 | 84.0 | 0.37 |
| Grading               | Scrapers                   | Diesel | Average | 2.00 | 8.00 | 423  | 0.48 |
| Building Construction | Cranes                     | Diesel | Average | 1.00 | 7.00 | 367  | 0.29 |
| Building Construction | Forklifts                  | Diesel | Average | 3.00 | 8.00 | 82.0 | 0.20 |
| Building Construction | Generator Sets             | Diesel | Average | 1.00 | 8.00 | 14.0 | 0.74 |
| Building Construction | Tractors/Loaders/Back hoes | Diesel | Average | 3.00 | 7.00 | 84.0 | 0.37 |
| Building Construction | Welders                    | Diesel | Average | 1.00 | 8.00 | 46.0 | 0.45 |
| Paving                | Pavers                     | Diesel | Average | 2.00 | 8.00 | 81.0 | 0.42 |
| Paving                | Paving Equipment           | Diesel | Average | 2.00 | 8.00 | 89.0 | 0.36 |
| Paving                | Rollers                    | Diesel | Average | 2.00 | 8.00 | 36.0 | 0.38 |
| Architectural Coating | Air Compressors            | Diesel | Average | 1.00 | 6.00 | 37.0 | 0.48 |

## 5.3. Construction Vehicles

### 5.3.1. Unmitigated

| Phase Name            | Trip Type    | One-Way Trips per Day | Miles per Trip | Vehicle Mix   |
|-----------------------|--------------|-----------------------|----------------|---------------|
| Site Preparation      | —            | —                     | —              | —             |
| Site Preparation      | Worker       | 17.5                  | 18.5           | LDA,LDT1,LDT2 |
| Site Preparation      | Vendor       | —                     | 10.2           | HHDT,MHDT     |
| Site Preparation      | Hauling      | 0.00                  | 20.0           | HHDT          |
| Site Preparation      | Onsite truck | —                     | —              | HHDT          |
| Grading               | —            | —                     | —              | —             |
| Grading               | Worker       | 20.0                  | 18.5           | LDA,LDT1,LDT2 |
| Grading               | Vendor       | —                     | 10.2           | HHDT,MHDT     |
| Grading               | Hauling      | 71.9                  | 20.0           | HHDT          |
| Grading               | Onsite truck | —                     | —              | HHDT          |
| Building Construction | —            | —                     | —              | —             |
| Building Construction | Worker       | 53.7                  | 18.5           | LDA,LDT1,LDT2 |

|                       |              |      |      |               |
|-----------------------|--------------|------|------|---------------|
| Building Construction | Vendor       | 27.5 | 10.2 | HHDT,MHDT     |
| Building Construction | Hauling      | 0.00 | 20.0 | HHDT          |
| Building Construction | Onsite truck | —    | —    | HHDT          |
| Paving                | —            | —    | —    | —             |
| Paving                | Worker       | 15.0 | 18.5 | LDA,LDT1,LDT2 |
| Paving                | Vendor       | —    | 10.2 | HHDT,MHDT     |
| Paving                | Hauling      | 0.00 | 20.0 | HHDT          |
| Paving                | Onsite truck | —    | —    | HHDT          |
| Architectural Coating | —            | —    | —    | —             |
| Architectural Coating | Worker       | 10.7 | 18.5 | LDA,LDT1,LDT2 |
| Architectural Coating | Vendor       | —    | 10.2 | HHDT,MHDT     |
| Architectural Coating | Hauling      | 0.00 | 20.0 | 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 | 0.00                                     | 0.00                                     | 251,496                                      | 83,832                                       | —                           |

## 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 | —                      | —                      | 22.5                 | 0.00                          | —                   |

|         |      |        |      |      |      |
|---------|------|--------|------|------|------|
| Grading | —    | 40,287 | 90.0 | 0.00 | —    |
| Paving  | 0.00 | 0.00   | 0.00 | 0.00 | 0.00 |

### 5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

### 5.7. Construction Paving

| Land Use                 | Area Paved (acres) | % Asphalt |
|--------------------------|--------------------|-----------|
| Regional Shopping Center | 0.00               | 0%        |

### 5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

| Year | kWh per Year | CO2 | CH4  | N2O     |
|------|--------------|-----|------|---------|
| 2026 | 0.00         | 532 | 0.03 | < 0.005 |

### 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. Biomass Cover Type

##### 5.18.1.1. Unmitigated

| 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) |
|-----------|--------|------------------------------|------------------------------|
|-----------|--------|------------------------------|------------------------------|

## 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 | 33.6                        | annual days of extreme heat                |
| Extreme Precipitation        | 4.95                        | annual days with precipitation above 20 mm |
| Sea Level Rise               | —                           | meters of inundation depth                 |
| Wildfire                     | 22.7                        | 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 | 4              | 0                 | 0                       | N/A                 |
| Extreme Precipitation        | N/A            | N/A               | N/A                     | N/A                 |
| Sea Level Rise               | N/A            | N/A               | N/A                     | N/A                 |
| Wildfire                     | N/A            | N/A               | N/A                     | N/A                 |

|                         |     |     |     |     |
|-------------------------|-----|-----|-----|-----|
| Flooding                | N/A | N/A | N/A | N/A |
| Drought                 | 0   | 0   | 0   | N/A |
| Snowpack Reduction      | N/A | N/A | N/A | N/A |
| Air Quality Degradation | N/A | N/A | N/A | N/A |

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

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

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

### 6.3. Adjusted Climate Risk Scores

| Climate Hazard               | Exposure Score | Sensitivity Score | Adaptive Capacity Score | Vulnerability Score |
|------------------------------|----------------|-------------------|-------------------------|---------------------|
| Temperature and Extreme Heat | 4              | 1                 | 1                       | 4                   |
| Extreme Precipitation        | N/A            | N/A               | N/A                     | N/A                 |
| Sea Level Rise               | N/A            | N/A               | N/A                     | N/A                 |
| Wildfire                     | N/A            | N/A               | N/A                     | N/A                 |
| Flooding                     | N/A            | N/A               | N/A                     | N/A                 |
| Drought                      | 1              | 1                 | 1                       | 2                   |
| Snowpack Reduction           | N/A            | N/A               | N/A                     | N/A                 |
| Air Quality Degradation      | N/A            | N/A               | N/A                     | N/A                 |

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

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

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

### 6.4. Climate Risk Reduction Measures

## 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

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

| Indicator                       | Result for Project Census Tract |
|---------------------------------|---------------------------------|
| Exposure Indicators             | —                               |
| AQ-Ozone                        | 91.1                            |
| AQ-PM                           | 32.2                            |
| AQ-DPM                          | 57.9                            |
| Drinking Water                  | 29.7                            |
| Lead Risk Housing               | 13.8                            |
| Pesticides                      | 0.00                            |
| Toxic Releases                  | 25.0                            |
| Traffic                         | 83.1                            |
| Effect Indicators               | —                               |
| CleanUp Sites                   | 73.4                            |
| Groundwater                     | 0.00                            |
| Haz Waste Facilities/Generators | 65.9                            |
| Impaired Water Bodies           | 0.00                            |
| Solid Waste                     | 0.00                            |
| Sensitive Population            | —                               |
| Asthma                          | 84.6                            |
| Cardio-vascular                 | 99.5                            |
| Low Birth Weights               | 5.81                            |
| Socioeconomic Factor Indicators | —                               |
| Education                       | 67.1                            |
| Housing                         | 11.2                            |
| Linguistic                      | 19.9                            |
| Poverty                         | 67.2                            |
| Unemployment                    | 82.7                            |

## 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                                | 66.22610035                     |
| Employed                                     | 25.70255357                     |
| Median HI                                    | 56.85871936                     |
| Education                                    | —                               |
| Bachelor's or higher                         | 31.64378288                     |
| High school enrollment                       | 2.258437059                     |
| Preschool enrollment                         | 41.10098807                     |
| Transportation                               | —                               |
| Auto Access                                  | 89.83703323                     |
| Active commuting                             | 14.92364943                     |
| Social                                       | —                               |
| 2-parent households                          | 97.98537149                     |
| Voting                                       | 43.48774541                     |
| Neighborhood                                 | —                               |
| Alcohol availability                         | 89.68304889                     |
| Park access                                  | 26.5622995                      |
| Retail density                               | 22.41755422                     |
| Supermarket access                           | 25.03528808                     |
| Tree canopy                                  | 7.25009624                      |
| Housing                                      | —                               |
| Homeownership                                | 84.70422174                     |
| Housing habitability                         | 80.57230848                     |
| Low-inc homeowner severe housing cost burden | 56.2941101                      |
| Low-inc renter severe housing cost burden    | 70.48633389                     |

|                                       |             |
|---------------------------------------|-------------|
| Uncrowded housing                     | 64.30129603 |
| Health Outcomes                       | —           |
| Insured adults                        | 59.70742974 |
| Arthritis                             | 0.6         |
| Asthma ER Admissions                  | 14.5        |
| High Blood Pressure                   | 1.1         |
| Cancer (excluding skin)               | 0.9         |
| Asthma                                | 37.3        |
| Coronary Heart Disease                | 1.0         |
| Chronic Obstructive Pulmonary Disease | 1.6         |
| Diagnosed Diabetes                    | 6.3         |
| Life Expectancy at Birth              | 28.4        |
| Cognitively Disabled                  | 58.3        |
| Physically Disabled                   | 16.0        |
| Heart Attack ER Admissions            | 1.2         |
| Mental Health Not Good                | 58.7        |
| Chronic Kidney Disease                | 1.3         |
| Obesity                               | 41.7        |
| Pedestrian Injuries                   | 90.6        |
| Physical Health Not Good              | 24.5        |
| Stroke                                | 2.9         |
| Health Risk Behaviors                 | —           |
| Binge Drinking                        | 95.3        |
| Current Smoker                        | 59.6        |
| No Leisure Time for Physical Activity | 48.5        |
| Climate Change Exposures              | —           |
| Wildfire Risk                         | 0.0         |
| SLR Inundation Area                   | 0.0         |

|                                  |      |
|----------------------------------|------|
| Children                         | 33.8 |
| Elderly                          | 53.1 |
| English Speaking                 | 52.3 |
| Foreign-born                     | 39.5 |
| Outdoor Workers                  | 27.8 |
| Climate Change Adaptive Capacity | —    |
| Impervious Surface Cover         | 86.5 |
| Traffic Density                  | 80.1 |
| Traffic Access                   | 23.0 |
| Other Indices                    | —    |
| Hardship                         | 53.1 |
| Other Decision Support           | —    |
| 2016 Voting                      | 53.1 |

### 7.3. Overall Health & Equity Scores

| Metric                                                                              | Result for Project Census Tract |
|-------------------------------------------------------------------------------------|---------------------------------|
| CalEnviroScreen 4.0 Score for Project Location (a)                                  | 52.0                            |
| Healthy Places Index Score for Project Location (b)                                 | 42.0                            |
| Project Located in a Designated Disadvantaged Community (Senate Bill 535)           | No                              |
| Project Located in a Low-Income Community (Assembly Bill 1550)                      | No                              |
| Project Located in a Community Air Protection Program Community (Assembly Bill 617) | No                              |

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

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

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

## 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

| Screen                                    | Justification                              |
|-------------------------------------------|--------------------------------------------|
| Land Use                                  | Based on site plan. Construction run only. |
| Construction: Construction Phases         | estimated construction schedule            |
| Construction: Dust From Material Movement | Based on engineer estimate.                |

# Hesperia Big Box Retail - Construction and Operation for Fuel Station/Car Wash Detailed Report

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# 1. Basic Project Information

## 1.1. Basic Project Information

| Data Field                  | Value                                                                          |
|-----------------------------|--------------------------------------------------------------------------------|
| Project Name                | Hesperia Big Box Retail - Construction and Operation for Fuel Station/Car Wash |
| Construction Start Date     | 1/1/2026                                                                       |
| Operational Year            | 2026                                                                           |
| Lead Agency                 | —                                                                              |
| Land Use Scale              | Project/site                                                                   |
| Analysis Level for Defaults | County                                                                         |
| Windspeed (m/s)             | 2.80                                                                           |
| Precipitation (days)        | 1.40                                                                           |
| Location                    | 34.42812174785931, -117.38302883903248                                         |
| County                      | San Bernardino-Mojave Desert                                                   |
| City                        | Hesperia                                                                       |
| Air District                | Mojave Desert AQMD                                                             |
| Air Basin                   | Mojave Desert                                                                  |
| TAZ                         | 5106                                                                           |
| EDFZ                        | 10                                                                             |
| Electric Utility            | Southern California Edison                                                     |
| Gas Utility                 | Southwest Gas Corp.                                                            |
| App Version                 | 2022.1.1.29                                                                    |

## 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 |
|--------------------------|------|------|-------------|-----------------------|------------------------|--------------------------------|------------|-------------|
| Gasoline/Service Station | 28.0 | Pump | 5.62        | 205                   | 0.00                   | —                              | —          | —           |

|                                      |      |          |      |       |      |   |   |   |
|--------------------------------------|------|----------|------|-------|------|---|---|---|
| Fast Food Restaurant with Drive Thru | 2.62 | 1000sqft | 3.15 | 2,623 | 0.00 | — | — | — |
|--------------------------------------|------|----------|------|-------|------|---|---|---|

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.1. Construction Emissions Compared Against Thresholds

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

| Un/Mit.             | TOG  | ROG  | NOx  | CO   | SO2     | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R    | CO2e  |
|---------------------|------|------|------|------|---------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|------|-------|
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Unmit.              | 1.90 | 1.67 | 10.7 | 14.2 | 0.03    | 0.40  | 0.20  | 0.54  | 0.37   | 0.05   | 0.38   | —    | 2,565 | 2,565 | 0.10 | 0.02 | 0.74 | 2,575 |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Unmit.              | 4.03 | 3.39 | 32.2 | 31.4 | 0.08    | 1.37  | 19.9  | 21.3  | 1.26   | 10.2   | 11.4   | —    | 9,656 | 9,656 | 0.23 | 0.74 | 0.27 | 9,880 |
| Average Daily (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Unmit.              | 0.53 | 0.45 | 4.06 | 4.54 | 0.01    | 0.16  | 0.82  | 0.97  | 0.15   | 0.36   | 0.50   | —    | 1,183 | 1,183 | 0.03 | 0.07 | 0.43 | 1,206 |
| Annual (Max)        | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Unmit.              | 0.10 | 0.08 | 0.74 | 0.83 | < 0.005 | 0.03  | 0.15  | 0.18  | 0.03   | 0.07   | 0.09   | —    | 196   | 196   | 0.01 | 0.01 | 0.07 | 200   |

### 2.2. Construction Emissions by Year, Unmitigated

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

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

|                      |      |      |      |      |         |      |      |      |      |      |      |   |       |       |         |         |      |       |
|----------------------|------|------|------|------|---------|------|------|------|------|------|------|---|-------|-------|---------|---------|------|-------|
| Daily - Summer (Max) | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| 2026                 | 1.90 | 1.67 | 10.7 | 14.2 | 0.03    | 0.40 | 0.20 | 0.54 | 0.37 | 0.05 | 0.38 | — | 2,565 | 2,565 | 0.10    | 0.02    | 0.74 | 2,575 |
| Daily - Winter (Max) | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| 2025                 | 4.03 | 3.39 | 31.7 | 31.2 | 0.06    | 1.37 | 19.9 | 21.3 | 1.26 | 10.2 | 11.4 | — | 7,584 | 7,584 | 0.23    | 0.74    | 0.27 | 7,808 |
| 2026                 | 3.80 | 3.21 | 32.2 | 31.4 | 0.08    | 1.26 | 8.62 | 9.88 | 1.17 | 3.81 | 4.98 | — | 9,656 | 9,656 | 0.21    | 0.73    | 0.26 | 9,880 |
| Average Daily        | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| 2025                 | 0.15 | 0.12 | 1.21 | 1.17 | < 0.005 | 0.05 | 0.68 | 0.73 | 0.05 | 0.34 | 0.38 | — | 270   | 270   | 0.01    | 0.01    | 0.08 | 274   |
| 2026                 | 0.53 | 0.45 | 4.06 | 4.54 | 0.01    | 0.16 | 0.82 | 0.97 | 0.15 | 0.36 | 0.50 | — | 1,183 | 1,183 | 0.03    | 0.07    | 0.43 | 1,206 |
| Annual               | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| 2025                 | 0.03 | 0.02 | 0.22 | 0.21 | < 0.005 | 0.01 | 0.12 | 0.13 | 0.01 | 0.06 | 0.07 | — | 44.7  | 44.7  | < 0.005 | < 0.005 | 0.01 | 45.4  |
| 2026                 | 0.10 | 0.08 | 0.74 | 0.83 | < 0.005 | 0.03 | 0.15 | 0.18 | 0.03 | 0.07 | 0.09 | — | 196   | 196   | 0.01    | 0.01    | 0.07 | 200   |

## 2.4. Operations Emissions Compared Against Thresholds

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

| Un/Mit.             | TOG  | ROG  | NOx  | CO  | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2  | CO2T   | CH4  | N2O  | R    | CO2e   |
|---------------------|------|------|------|-----|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|------|--------|
| Daily, Summer (Max) | —    | —    | —    | —   | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Unmit.              | 17.5 | 16.0 | 18.9 | 179 | 0.43 | 0.34  | 30.3  | 30.6  | 0.32   | 7.70   | 8.02   | 26.7 | 44,030 | 44,056 | 3.97 | 1.75 | 156  | 44,834 |
| Daily, Winter (Max) | —    | —    | —    | —   | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Unmit.              | 15.8 | 14.3 | 20.4 | 135 | 0.39 | 0.34  | 30.3  | 30.6  | 0.32   | 7.70   | 8.02   | 26.7 | 40,148 | 40,174 | 4.00 | 1.82 | 8.03 | 40,824 |
| Average Daily (Max) | —    | —    | —    | —   | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Unmit.              | 15.9 | 14.4 | 21.0 | 146 | 0.40 | 0.34  | 30.3  | 30.6  | 0.32   | 7.69   | 8.01   | 26.7 | 41,032 | 41,058 | 4.02 | 1.85 | 69.5 | 41,779 |

|              |      |      |      |      |      |      |      |      |      |      |      |      |       |       |      |      |      |       |
|--------------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|------|------|------|-------|
| Annual (Max) | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —     | —     | —    | —    | —    | —     |
| Unmit.       | 2.91 | 2.63 | 3.83 | 26.7 | 0.07 | 0.06 | 5.52 | 5.58 | 0.06 | 1.40 | 1.46 | 4.41 | 6,793 | 6,798 | 0.67 | 0.31 | 11.5 | 6,917 |

## 2.5. Operations Emissions by Sector, Unmitigated

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

| Sector              | TOG  | ROG     | NOx     | CO   | SO2     | PM10E   | PM10D | PM10T   | PM2.5E  | PM2.5D | PM2.5T  | BCO2 | NBCO2  | CO2T   | CH4     | N2O     | R    | CO2e   |
|---------------------|------|---------|---------|------|---------|---------|-------|---------|---------|--------|---------|------|--------|--------|---------|---------|------|--------|
| Daily, Summer (Max) | —    | —       | —       | —    | —       | —       | —     | —       | —       | —      | —       | —    | —      | —      | —       | —       | —    | —      |
| Mobile              | 17.5 | 15.9    | 18.8    | 179  | 0.43    | 0.34    | 30.3  | 30.6    | 0.32    | 7.70   | 8.01    | —    | 43,835 | 43,835 | 1.28    | 1.75    | 152  | 44,539 |
| Area                | 0.09 | 0.08    | < 0.005 | 0.12 | < 0.005 | < 0.005 | —     | < 0.005 | < 0.005 | —      | < 0.005 | —    | 0.51   | 0.51   | < 0.005 | < 0.005 | —    | 0.51   |
| Energy              | 0.01 | < 0.005 | 0.08    | 0.07 | < 0.005 | 0.01    | —     | 0.01    | 0.01    | —      | 0.01    | —    | 188    | 188    | 0.02    | < 0.005 | —    | 189    |
| Water               | —    | —       | —       | —    | —       | —       | —     | —       | —       | —      | —       | 2.24 | 6.38   | 8.62   | 0.23    | 0.01    | —    | 16.0   |
| Waste               | —    | —       | —       | —    | —       | —       | —     | —       | —       | —      | —       | 24.4 | 0.00   | 24.4   | 2.44    | 0.00    | —    | 85.4   |
| Refrig.             | —    | —       | —       | —    | —       | —       | —     | —       | —       | —      | —       | —    | —      | —      | —       | —       | 4.10 | 4.10   |
| Total               | 17.5 | 16.0    | 18.9    | 179  | 0.43    | 0.34    | 30.3  | 30.6    | 0.32    | 7.70   | 8.02    | 26.7 | 44,030 | 44,056 | 3.97    | 1.75    | 156  | 44,834 |
| Daily, Winter (Max) | —    | —       | —       | —    | —       | —       | —     | —       | —       | —      | —       | —    | —      | —      | —       | —       | —    | —      |
| Mobile              | 15.7 | 14.2    | 20.3    | 134  | 0.39    | 0.34    | 30.3  | 30.6    | 0.32    | 7.70   | 8.01    | —    | 39,953 | 39,953 | 1.31    | 1.81    | 3.93 | 40,530 |
| Area                | 0.06 | 0.06    | —       | —    | —       | —       | —     | —       | —       | —      | —       | —    | —      | —      | —       | —       | —    | —      |
| Energy              | 0.01 | < 0.005 | 0.08    | 0.07 | < 0.005 | 0.01    | —     | 0.01    | 0.01    | —      | 0.01    | —    | 188    | 188    | 0.02    | < 0.005 | —    | 189    |
| Water               | —    | —       | —       | —    | —       | —       | —     | —       | —       | —      | —       | 2.24 | 6.38   | 8.62   | 0.23    | 0.01    | —    | 16.0   |
| Waste               | —    | —       | —       | —    | —       | —       | —     | —       | —       | —      | —       | 24.4 | 0.00   | 24.4   | 2.44    | 0.00    | —    | 85.4   |
| Refrig.             | —    | —       | —       | —    | —       | —       | —     | —       | —       | —      | —       | —    | —      | —      | —       | —       | 4.10 | 4.10   |
| Total               | 15.8 | 14.3    | 20.4    | 135  | 0.39    | 0.34    | 30.3  | 30.6    | 0.32    | 7.70   | 8.02    | 26.7 | 40,148 | 40,174 | 4.00    | 1.82    | 8.03 | 40,824 |
| Average Daily       | —    | —       | —       | —    | —       | —       | —     | —       | —       | —      | —       | —    | —      | —      | —       | —       | —    | —      |
| Mobile              | 15.8 | 14.3    | 20.9    | 146  | 0.40    | 0.34    | 30.3  | 30.6    | 0.32    | 7.69   | 8.01    | —    | 40,837 | 40,837 | 1.33    | 1.84    | 65.4 | 41,484 |

|         |         |         |         |      |         |         |      |         |         |      |         |      |        |        |         |         |      |        |
|---------|---------|---------|---------|------|---------|---------|------|---------|---------|------|---------|------|--------|--------|---------|---------|------|--------|
| Area    | 0.07    | 0.07    | < 0.005 | 0.06 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | —    | 0.25   | 0.25   | < 0.005 | < 0.005 | —    | 0.25   |
| Energy  | 0.01    | < 0.005 | 0.08    | 0.07 | < 0.005 | 0.01    | —    | 0.01    | 0.01    | —    | 0.01    | —    | 188    | 188    | 0.02    | < 0.005 | —    | 189    |
| Water   | —       | —       | —       | —    | —       | —       | —    | —       | —       | —    | —       | 2.24 | 6.38   | 8.62   | 0.23    | 0.01    | —    | 16.0   |
| Waste   | —       | —       | —       | —    | —       | —       | —    | —       | —       | —    | —       | 24.4 | 0.00   | 24.4   | 2.44    | 0.00    | —    | 85.4   |
| Refrig. | —       | —       | —       | —    | —       | —       | —    | —       | —       | —    | —       | —    | —      | —      | —       | —       | 4.10 | 4.10   |
| Total   | 15.9    | 14.4    | 21.0    | 146  | 0.40    | 0.34    | 30.3 | 30.6    | 0.32    | 7.69 | 8.01    | 26.7 | 41,032 | 41,058 | 4.02    | 1.85    | 69.5 | 41,779 |
| Annual  | —       | —       | —       | —    | —       | —       | —    | —       | —       | —    | —       | —    | —      | —      | —       | —       | —    | —      |
| Mobile  | 2.89    | 2.61    | 3.81    | 26.7 | 0.07    | 0.06    | 5.52 | 5.58    | 0.06    | 1.40 | 1.46    | —    | 6,761  | 6,761  | 0.22    | 0.30    | 10.8 | 6,868  |
| Area    | 0.01    | 0.01    | < 0.005 | 0.01 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | —    | 0.04   | 0.04   | < 0.005 | < 0.005 | —    | 0.04   |
| Energy  | < 0.005 | < 0.005 | 0.02    | 0.01 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | —    | 31.1   | 31.1   | < 0.005 | < 0.005 | —    | 31.3   |
| Water   | —       | —       | —       | —    | —       | —       | —    | —       | —       | —    | —       | 0.37 | 1.06   | 1.43   | 0.04    | < 0.005 | —    | 2.65   |
| Waste   | —       | —       | —       | —    | —       | —       | —    | —       | —       | —    | —       | 4.04 | 0.00   | 4.04   | 0.40    | 0.00    | —    | 14.1   |
| Refrig. | —       | —       | —       | —    | —       | —       | —    | —       | —       | —    | —       | —    | —      | —      | —       | —       | 0.68 | 0.68   |
| Total   | 2.91    | 2.63    | 3.83    | 26.7 | 0.07    | 0.06    | 5.52 | 5.58    | 0.06    | 1.40 | 1.46    | 4.41 | 6,793  | 6,798  | 0.67    | 0.31    | 11.5 | 6,917  |

## 3. Construction Emissions Details

### 3.1. Site Preparation (2025) - Unmitigated

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

| Location            | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R | CO2e  |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|---|-------|
| Onsite              | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | — | —     |
| Daily, Summer (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | — | —     |
| Daily, Winter (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | — | —     |
| Off-Road Equipment  | 3.94 | 3.31 | 31.6 | 30.2 | 0.05 | 1.37  | —     | 1.37  | 1.26   | —      | 1.26   | —    | 5,295 | 5,295 | 0.21 | 0.04 | — | 5,314 |

|                             |      |      |      |      |         |      |      |      |      |      |      |   |      |      |         |         |      |      |
|-----------------------------|------|------|------|------|---------|------|------|------|------|------|------|---|------|------|---------|---------|------|------|
| Dust From Material Movement | —    | —    | —    | —    | —       | —    | 19.7 | 19.7 | —    | 10.1 | 10.1 | — | —    | —    | —       | —       | —    | —    |
| Onsite truck                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Average Daily               | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —    | —    | —       | —       | —    | —    |
| Off-Road Equipment          | 0.11 | 0.09 | 0.87 | 0.83 | < 0.005 | 0.04 | —    | 0.04 | 0.03 | —    | 0.03 | — | 145  | 145  | 0.01    | < 0.005 | —    | 146  |
| Dust From Material Movement | —    | —    | —    | —    | —       | —    | 0.54 | 0.54 | —    | 0.28 | 0.28 | — | —    | —    | —       | —       | —    | —    |
| Onsite truck                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Annual                      | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —    | —    | —       | —       | —    | —    |
| Off-Road Equipment          | 0.02 | 0.02 | 0.16 | 0.15 | < 0.005 | 0.01 | —    | 0.01 | 0.01 | —    | 0.01 | — | 24.0 | 24.0 | < 0.005 | < 0.005 | —    | 24.1 |
| Dust From Material Movement | —    | —    | —    | —    | —       | —    | 0.10 | 0.10 | —    | 0.05 | 0.05 | — | —    | —    | —       | —       | —    | —    |
| Onsite truck                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Offsite                     | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —    | —    | —       | —       | —    | —    |
| Daily, Summer (Max)         | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —    | —    | —       | —       | —    | —    |
| Daily, Winter (Max)         | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —    | —    | —       | —       | —    | —    |
| Worker                      | 0.09 | 0.08 | 0.09 | 0.98 | 0.00    | 0.00 | 0.23 | 0.23 | 0.00 | 0.05 | 0.05 | — | 226  | 226  | 0.01    | 0.01    | 0.02 | 229  |

|               |         |         |         |      |      |      |         |         |      |         |         |   |      |      |         |         |         |      |
|---------------|---------|---------|---------|------|------|------|---------|---------|------|---------|---------|---|------|------|---------|---------|---------|------|
| Vendor        | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Hauling       | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Average Daily | —       | —       | —       | —    | —    | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker        | < 0.005 | < 0.005 | < 0.005 | 0.03 | 0.00 | 0.00 | 0.01    | 0.01    | 0.00 | < 0.005 | < 0.005 | — | 6.37 | 6.37 | < 0.005 | < 0.005 | 0.01    | 6.46 |
| Vendor        | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Hauling       | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Annual        | —       | —       | —       | —    | —    | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker        | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 1.06 | 1.06 | < 0.005 | < 0.005 | < 0.005 | 1.07 |
| Vendor        | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Hauling       | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |

### 3.3. Grading (2025) - Unmitigated

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

| Location                    | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R    | CO2e  |
|-----------------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|------|-------|
| Onsite                      | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Daily, Summer (Max)         | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Daily, Winter (Max)         | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road Equipment          | 2.07 | 1.74 | 16.3 | 17.9 | 0.03 | 0.72  | —     | 0.72  | 0.66   | —      | 0.66   | —    | 2,959 | 2,959 | 0.12 | 0.02 | —    | 2,970 |
| Dust From Material Movement | —    | —    | —    | —    | —    | —     | 7.11  | 7.11  | —      | 3.43   | 3.43   | —    | —     | —     | —    | —    | —    | —     |
| Onsite truck                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00  |

# Hesperia Big Box Retail - Construction and Operation for Fuel Station/Car Wash Detailed Report, 5/6/2025

|                             |         |         |         |      |         |         |         |         |         |         |         |   |       |       |         |         |      |       |
|-----------------------------|---------|---------|---------|------|---------|---------|---------|---------|---------|---------|---------|---|-------|-------|---------|---------|------|-------|
| Average Daily               | —       | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment          | 0.03    | 0.03    | 0.25    | 0.28 | < 0.005 | 0.01    | —       | 0.01    | 0.01    | —       | 0.01    | — | 46.3  | 46.3  | < 0.005 | < 0.005 | —    | 46.5  |
| Dust From Material Movement | —       | —       | —       | —    | —       | —       | 0.11    | 0.11    | —       | 0.05    | 0.05    | — | —     | —     | —       | —       | —    | —     |
| Onsite truck                | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Annual                      | —       | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment          | 0.01    | < 0.005 | 0.05    | 0.05 | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | —       | < 0.005 | — | 7.67  | 7.67  | < 0.005 | < 0.005 | —    | 7.70  |
| Dust From Material Movement | —       | —       | —       | —    | —       | —       | 0.02    | 0.02    | —       | 0.01    | 0.01    | — | —     | —     | —       | —       | —    | —     |
| Onsite truck                | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Offsite                     | —       | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Daily, Summer (Max)         | —       | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Daily, Winter (Max)         | —       | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker                      | 0.07    | 0.07    | 0.08    | 0.84 | 0.00    | 0.00    | 0.20    | 0.20    | 0.00    | 0.05    | 0.05    | — | 194   | 194   | 0.01    | 0.01    | 0.02 | 196   |
| Vendor                      | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Hauling                     | 0.10    | 0.09    | 5.23    | 1.12 | 0.03    | 0.09    | 1.17    | 1.26    | 0.09    | 0.30    | 0.39    | — | 4,431 | 4,431 | < 0.005 | 0.71    | 0.25 | 4,642 |
| Average Daily               | —       | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker                      | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | — | 3.12  | 3.12  | < 0.005 | < 0.005 | 0.01 | 3.17  |

|         |         |         |         |         |         |         |         |         |         |         |         |   |      |      |         |         |         |      |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|------|------|---------|---------|---------|------|
| Vendor  | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Hauling | < 0.005 | < 0.005 | 0.08    | 0.02    | < 0.005 | < 0.005 | 0.02    | 0.02    | < 0.005 | < 0.005 | 0.01    | — | 69.3 | 69.3 | < 0.005 | 0.01    | 0.06    | 72.7 |
| Annual  | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker  | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | — | 0.52 | 0.52 | < 0.005 | < 0.005 | < 0.005 | 0.52 |
| Vendor  | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Hauling | < 0.005 | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 11.5 | 11.5 | < 0.005 | < 0.005 | 0.01    | 12.0 |

### 3.5. Grading (2026) - Unmitigated

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

| Location                    | TOG  | ROG  | NOx  | CO   | SO2     | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O     | R    | CO2e  |
|-----------------------------|------|------|------|------|---------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|---------|------|-------|
| Onsite                      | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Daily, Summer (Max)         | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Daily, Winter (Max)         | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment          | 1.96 | 1.65 | 15.0 | 17.4 | 0.03    | 0.65  | —     | 0.65  | 0.59   | —      | 0.59   | —    | 2,960 | 2,960 | 0.12 | 0.02    | —    | 2,970 |
| Dust From Material Movement | —    | —    | —    | —    | —       | —     | 7.11  | 7.11  | —      | 3.43   | 3.43   | —    | —     | —     | —    | —       | —    | —     |
| Onsite truck                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00  | 0.00  | 0.00 | 0.00    | 0.00 | 0.00  |
| Average Daily               | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment          | 0.18 | 0.15 | 1.41 | 1.64 | < 0.005 | 0.06  | —     | 0.06  | 0.06   | —      | 0.06   | —    | 278   | 278   | 0.01 | < 0.005 | —    | 279   |

# Hesperia Big Box Retail - Construction and Operation for Fuel Station/Car Wash Detailed Report, 5/6/2025

|                             |         |         |         |      |         |      |         |         |      |         |         |   |       |       |         |         |         |       |
|-----------------------------|---------|---------|---------|------|---------|------|---------|---------|------|---------|---------|---|-------|-------|---------|---------|---------|-------|
| Dust From Material Movement | —       | —       | —       | —    | —       | —    | 0.67    | 0.67    | —    | 0.32    | 0.32    | — | —     | —     | —       | —       | —       | —     |
| Onsite truck                | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00    | 0.00  |
| Annual                      | —       | —       | —       | —    | —       | —    | —       | —       | —    | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Off-Road Equipment          | 0.03    | 0.03    | 0.26    | 0.30 | < 0.005 | 0.01 | —       | 0.01    | 0.01 | —       | 0.01    | — | 46.0  | 46.0  | < 0.005 | < 0.005 | —       | 46.2  |
| Dust From Material Movement | —       | —       | —       | —    | —       | —    | 0.12    | 0.12    | —    | 0.06    | 0.06    | — | —     | —     | —       | —       | —       | —     |
| Onsite truck                | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00    | 0.00  |
| Offsite                     | —       | —       | —       | —    | —       | —    | —       | —       | —    | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Daily, Summer (Max)         | —       | —       | —       | —    | —       | —    | —       | —       | —    | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Daily, Winter (Max)         | —       | —       | —       | —    | —       | —    | —       | —       | —    | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Worker                      | 0.07    | 0.06    | 0.07    | 0.77 | 0.00    | 0.00 | 0.20    | 0.20    | 0.00 | 0.05    | 0.05    | — | 190   | 190   | < 0.005 | 0.01    | 0.02    | 192   |
| Vendor                      | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00    | 0.00  |
| Hauling                     | 0.10    | 0.09    | 5.12    | 1.11 | 0.03    | 0.09 | 1.17    | 1.26    | 0.09 | 0.30    | 0.39    | — | 4,336 | 4,336 | < 0.005 | 0.68    | 0.23    | 4,540 |
| Average Daily               | —       | —       | —       | —    | —       | —    | —       | —       | —    | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Worker                      | 0.01    | 0.01    | 0.01    | 0.08 | 0.00    | 0.00 | 0.02    | 0.02    | 0.00 | < 0.005 | < 0.005 | — | 18.4  | 18.4  | < 0.005 | < 0.005 | 0.03    | 18.6  |
| Vendor                      | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00    | 0.00  |
| Hauling                     | 0.01    | 0.01    | 0.48    | 0.10 | < 0.005 | 0.01 | 0.11    | 0.12    | 0.01 | 0.03    | 0.04    | — | 407   | 407   | < 0.005 | 0.06    | 0.36    | 427   |
| Annual                      | —       | —       | —       | —    | —       | —    | —       | —       | —    | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Worker                      | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00    | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 3.04  | 3.04  | < 0.005 | < 0.005 | < 0.005 | 3.08  |

|         |         |         |      |      |         |         |      |      |         |      |      |   |      |      |         |      |      |      |
|---------|---------|---------|------|------|---------|---------|------|------|---------|------|------|---|------|------|---------|------|------|------|
| Vendor  | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 |
| Hauling | < 0.005 | < 0.005 | 0.09 | 0.02 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | 0.01 | 0.01 | — | 67.4 | 67.4 | < 0.005 | 0.01 | 0.06 | 70.6 |

### 3.7. Building Construction (2026) - Unmitigated

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

| Location            | TOG  | ROG  | NOx  | CO   | SO2     | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O     | R    | CO2e  |
|---------------------|------|------|------|------|---------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|---------|------|-------|
| Onsite              | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 1.28 | 1.07 | 9.85 | 13.0 | 0.02    | 0.38  | —     | 0.38  | 0.35   | —      | 0.35   | —    | 2,397 | 2,397 | 0.10 | 0.02    | —    | 2,405 |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00  | 0.00  | 0.00 | 0.00    | 0.00 | 0.00  |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 1.28 | 1.07 | 9.85 | 13.0 | 0.02    | 0.38  | —     | 0.38  | 0.35   | —      | 0.35   | —    | 2,397 | 2,397 | 0.10 | 0.02    | —    | 2,405 |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00  | 0.00  | 0.00 | 0.00    | 0.00 | 0.00  |
| Average Daily       | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 0.14 | 0.12 | 1.08 | 1.42 | < 0.005 | 0.04  | —     | 0.04  | 0.04   | —      | 0.04   | —    | 263   | 263   | 0.01 | < 0.005 | —    | 264   |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00  | 0.00  | 0.00 | 0.00    | 0.00 | 0.00  |
| Annual              | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |

|                     |         |         |         |         |         |         |         |         |         |         |         |   |      |      |         |         |         |      |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|------|------|---------|---------|---------|------|
| Off-Road Equipment  | 0.03    | 0.02    | 0.20    | 0.26    | < 0.005 | 0.01    | —       | 0.01    | 0.01    | —       | 0.01    | — | 43.5 | 43.5 | < 0.005 | < 0.005 | —       | 43.6 |
| Onsite truck        | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Offsite             | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Daily, Summer (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | 0.01    | 0.01    | 0.01    | 0.09    | 0.00    | 0.00    | 0.02    | 0.02    | 0.00    | < 0.005 | < 0.005 | — | 16.7 | 16.7 | < 0.005 | < 0.005 | 0.06    | 16.9 |
| Vendor              | < 0.005 | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 14.5 | 14.5 | < 0.005 | < 0.005 | 0.04    | 15.1 |
| Hauling             | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | 0.01    | < 0.005 | 0.01    | 0.06    | 0.00    | 0.00    | 0.02    | 0.02    | 0.00    | < 0.005 | < 0.005 | — | 14.8 | 14.8 | < 0.005 | < 0.005 | < 0.005 | 15.0 |
| Vendor              | < 0.005 | < 0.005 | 0.02    | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 14.5 | 14.5 | < 0.005 | < 0.005 | < 0.005 | 15.1 |
| Hauling             | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Average Daily       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | < 0.005 | < 0.005 | < 0.005 | 0.01    | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | — | 1.67 | 1.67 | < 0.005 | < 0.005 | < 0.005 | 1.69 |
| Vendor              | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 1.59 | 1.59 | < 0.005 | < 0.005 | < 0.005 | 1.65 |
| Hauling             | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Annual              | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | — | 0.28 | 0.28 | < 0.005 | < 0.005 | < 0.005 | 0.28 |
| Vendor              | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.26 | 0.26 | < 0.005 | < 0.005 | < 0.005 | 0.27 |
| Hauling             | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |

### 3.9. Paving (2026) - Unmitigated

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

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

# Hesperia Big Box Retail - Construction and Operation for Fuel Station/Car Wash Detailed Report, 5/6/2025

|                     |      |      |      |      |         |         |      |         |         |      |         |   |       |       |         |         |      |       |
|---------------------|------|------|------|------|---------|---------|------|---------|---------|------|---------|---|-------|-------|---------|---------|------|-------|
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.91 | 0.76 | 7.12 | 9.94 | 0.01    | 0.32    | —    | 0.32    | 0.29    | —    | 0.29    | — | 1,511 | 1,511 | 0.06    | 0.01    | —    | 1,516 |
| Paving              | 0.00 | 0.00 | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Average Daily       | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.04 | 0.04 | 0.35 | 0.49 | < 0.005 | 0.02    | —    | 0.02    | 0.01    | —    | 0.01    | — | 74.5  | 74.5  | < 0.005 | < 0.005 | —    | 74.8  |
| Paving              | 0.00 | 0.00 | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Annual              | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.01 | 0.01 | 0.06 | 0.09 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | — | 12.3  | 12.3  | < 0.005 | < 0.005 | —    | 12.4  |
| Paving              | 0.00 | 0.00 | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Offsite             | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.08 | 0.07 | 0.07 | 1.16 | 0.00    | 0.00    | 0.20 | 0.20    | 0.00    | 0.05 | 0.05    | — | 214   | 214   | 0.01    | 0.01    | 0.73 | 218   |

|                           |         |         |         |      |      |      |         |         |      |         |         |   |      |      |         |         |         |      |
|---------------------------|---------|---------|---------|------|------|------|---------|---------|------|---------|---------|---|------|------|---------|---------|---------|------|
| Vendor                    | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Hauling                   | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Daily,<br>Winter<br>(Max) | —       | —       | —       | —    | —    | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Average<br>Daily          | —       | —       | —       | —    | —    | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker                    | < 0.005 | < 0.005 | < 0.005 | 0.04 | 0.00 | 0.00 | 0.01    | 0.01    | 0.00 | < 0.005 | < 0.005 | — | 9.64 | 9.64 | < 0.005 | < 0.005 | 0.02    | 9.77 |
| Vendor                    | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Hauling                   | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Annual                    | —       | —       | —       | —    | —    | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker                    | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 1.60 | 1.60 | < 0.005 | < 0.005 | < 0.005 | 1.62 |
| Vendor                    | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Hauling                   | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |

### 3.11. Architectural Coating (2026) - Unmitigated

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

| Location                          | TOG  | ROG  | NOx  | CO   | SO2     | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4  | N2O     | R    | CO2e |
|-----------------------------------|------|------|------|------|---------|-------|-------|-------|--------|--------|--------|------|-------|------|------|---------|------|------|
| Onsite                            | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | —    | —    |
| Daily,<br>Summer<br>(Max)         | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | —    | —    |
| Off-Road<br>Equipm<br>ent         | 0.15 | 0.12 | 0.86 | 1.13 | < 0.005 | 0.02  | —     | 0.02  | 0.02   | —      | 0.02   | —    | 134   | 134  | 0.01 | < 0.005 | —    | 134  |
| Architect<br>ural<br>Coating<br>s | 0.47 | 0.47 | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | —    | —    |
| Onsite<br>truck                   | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00  | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 |

|                        |         |         |         |      |         |         |         |         |         |         |         |   |      |      |         |         |      |      |
|------------------------|---------|---------|---------|------|---------|---------|---------|---------|---------|---------|---------|---|------|------|---------|---------|------|------|
| Daily, Winter (Max)    | —       | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Average Daily          | —       | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Off-Road Equipment     | 0.01    | 0.01    | 0.07    | 0.09 | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | —       | < 0.005 | — | 10.2 | 10.2 | < 0.005 | < 0.005 | —    | 10.3 |
| Architectural Coatings | 0.04    | 0.04    | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Onsite truck           | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Annual                 | —       | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Off-Road Equipment     | < 0.005 | < 0.005 | 0.01    | 0.02 | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | —       | < 0.005 | — | 1.70 | 1.70 | < 0.005 | < 0.005 | —    | 1.70 |
| Architectural Coatings | 0.01    | 0.01    | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Onsite truck           | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Offsite                | —       | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Daily, Summer (Max)    | —       | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker                 | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | — | 3.34 | 3.34 | < 0.005 | < 0.005 | 0.01 | 3.39 |
| Vendor                 | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Hauling                | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Daily, Winter (Max)    | —       | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |

|               |         |         |         |         |      |      |         |         |      |         |         |   |      |      |         |         |         |      |
|---------------|---------|---------|---------|---------|------|------|---------|---------|------|---------|---------|---|------|------|---------|---------|---------|------|
| Average Daily | —       | —       | —       | —       | —    | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker        | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.23 | 0.23 | < 0.005 | < 0.005 | < 0.005 | 0.24 |
| Vendor        | 0.00    | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Hauling       | 0.00    | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Annual        | —       | —       | —       | —       | —    | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker        | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.04 | 0.04 | < 0.005 | < 0.005 | < 0.005 | 0.04 |
| Vendor        | 0.00    | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Hauling       | 0.00    | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |

### 3.13. Infrastructure Improvement (2026) - Unmitigated

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

| Location            | TOG  | ROG  | NOx  | CO   | SO2     | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4     | N2O     | R    | CO2e  |
|---------------------|------|------|------|------|---------|-------|-------|-------|--------|--------|--------|------|-------|-------|---------|---------|------|-------|
| Onsite              | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —       | —       | —    | —     |
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —       | —       | —    | —     |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 1.62 | 1.36 | 12.0 | 11.5 | 0.02    | 0.53  | —     | 0.53  | 0.49   | —      | 0.49   | —    | 2,043 | 2,043 | 0.08    | 0.02    | —    | 2,050 |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Average Daily       | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.09 | 0.07 | 0.66 | 0.63 | < 0.005 | 0.03  | —     | 0.03  | 0.03   | —      | 0.03   | —    | 112   | 112   | < 0.005 | < 0.005 | —    | 112   |

|                     |         |         |         |      |         |      |         |         |         |         |         |   |      |      |         |         |         |      |
|---------------------|---------|---------|---------|------|---------|------|---------|---------|---------|---------|---------|---|------|------|---------|---------|---------|------|
| Onsite truck        | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Annual              | —       | —       | —       | —    | —       | —    | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Off-Road Equipment  | 0.02    | 0.01    | 0.12    | 0.12 | < 0.005 | 0.01 | —       | 0.01    | < 0.005 | —       | < 0.005 | — | 18.5 | 18.5 | < 0.005 | < 0.005 | —       | 18.6 |
| Onsite truck        | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Offsite             | —       | —       | —       | —    | —       | —    | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Daily, Summer (Max) | —       | —       | —       | —    | —       | —    | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Daily, Winter (Max) | —       | —       | —       | —    | —       | —    | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | 0.05    | 0.04    | 0.05    | 0.51 | 0.00    | 0.00 | 0.13    | 0.13    | 0.00    | 0.03    | 0.03    | — | 127  | 127  | < 0.005 | < 0.005 | 0.01    | 128  |
| Vendor              | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Hauling             | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Average Daily       | —       | —       | —       | —    | —       | —    | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | < 0.005 | < 0.005 | < 0.005 | 0.03 | 0.00    | 0.00 | 0.01    | 0.01    | 0.00    | < 0.005 | < 0.005 | — | 7.14 | 7.14 | < 0.005 | < 0.005 | 0.01    | 7.24 |
| Vendor              | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Hauling             | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Annual              | —       | —       | —       | —    | —       | —    | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00    | 0.00 | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | — | 1.18 | 1.18 | < 0.005 | < 0.005 | < 0.005 | 1.20 |
| Vendor              | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Hauling             | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |

## 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)                  | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Gasoline/Service Station             | 12.7 | 11.6 | 13.7 | 130  | 0.31 | 0.24  | 22.0  | 22.3  | 0.23   | 5.60   | 5.83   | —    | 31,898 | 31,898 | 0.93 | 1.27 | 110  | 32,410 |
| Fast Food Restaurant with Drive Thru | 4.75 | 4.34 | 5.12 | 48.7 | 0.12 | 0.09  | 8.25  | 8.34  | 0.09   | 2.10   | 2.18   | —    | 11,937 | 11,937 | 0.35 | 0.48 | 41.3 | 12,129 |
| Total                                | 17.5 | 15.9 | 18.8 | 179  | 0.43 | 0.34  | 30.3  | 30.6  | 0.32   | 7.70   | 8.01   | —    | 43,835 | 43,835 | 1.28 | 1.75 | 152  | 44,539 |
| Daily, Winter (Max)                  | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Gasoline/Service Station             | 11.4 | 10.3 | 14.8 | 97.9 | 0.29 | 0.24  | 22.0  | 22.3  | 0.23   | 5.60   | 5.83   | —    | 29,073 | 29,073 | 0.96 | 1.32 | 2.86 | 29,493 |
| Fast Food Restaurant with Drive Thru | 4.28 | 3.87 | 5.53 | 36.6 | 0.11 | 0.09  | 8.25  | 8.34  | 0.09   | 2.10   | 2.18   | —    | 10,880 | 10,880 | 0.36 | 0.49 | 1.07 | 11,037 |
| Total                                | 15.7 | 14.2 | 20.3 | 134  | 0.39 | 0.34  | 30.3  | 30.6  | 0.32   | 7.70   | 8.01   | —    | 39,953 | 39,953 | 1.31 | 1.81 | 3.93 | 40,530 |
| Annual                               | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Gasoline/Service Station             | 2.10 | 1.90 | 2.77 | 19.4 | 0.05 | 0.04  | 4.02  | 4.06  | 0.04   | 1.02   | 1.06   | —    | 4,920  | 4,920  | 0.16 | 0.22 | 7.88 | 4,998  |

|                                      |      |      |      |      |      |      |      |      |      |      |      |   |       |       |      |      |      |       |
|--------------------------------------|------|------|------|------|------|------|------|------|------|------|------|---|-------|-------|------|------|------|-------|
| Fast Food Restaurant with Drive Thru | 0.79 | 0.71 | 1.04 | 7.27 | 0.02 | 0.02 | 1.50 | 1.52 | 0.02 | 0.38 | 0.40 | — | 1,841 | 1,841 | 0.06 | 0.08 | 2.95 | 1,870 |
| Total                                | 2.89 | 2.61 | 3.81 | 26.7 | 0.07 | 0.06 | 5.52 | 5.58 | 0.06 | 1.40 | 1.46 | — | 6,761 | 6,761 | 0.22 | 0.30 | 10.8 | 6,868 |

## 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)                  | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —       | —       | — | —    |
| Gasoline/Service Station             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 1.85  | 1.85 | < 0.005 | < 0.005 | — | 1.87 |
| Fast Food Restaurant with Drive Thru | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 87.2  | 87.2 | 0.01    | < 0.005 | — | 87.7 |
| Total                                | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 89.1  | 89.1 | 0.01    | < 0.005 | — | 89.6 |
| Daily, Winter (Max)                  | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —       | —       | — | —    |
| Gasoline/Service Station             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 1.85  | 1.85 | < 0.005 | < 0.005 | — | 1.87 |

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |      |      |         |         |   |      |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|------|------|---------|---------|---|------|
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | — | 87.2 | 87.2 | 0.01    | < 0.005 | — | 87.7 |
| Total                                | — | — | — | — | — | — | — | — | — | — | — | — | 89.1 | 89.1 | 0.01    | < 0.005 | — | 89.6 |
| Annual                               | — | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —       | —       | — | —    |
| Gasoline/Service Station             | — | — | — | — | — | — | — | — | — | — | — | — | 0.31 | 0.31 | < 0.005 | < 0.005 | — | 0.31 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | — | 14.4 | 14.4 | < 0.005 | < 0.005 | — | 14.5 |
| Total                                | — | — | — | — | — | — | — | — | — | — | — | — | 14.8 | 14.8 | < 0.005 | < 0.005 | — | 14.8 |

#### 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)                  | —       | —       | —       | —       | —       | —       | —     | —       | —       | —      | —       | —    | —     | —    | —       | —       | — | —    |
| Gasoline/Service Station             | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | —     | < 0.005 | < 0.005 | —      | < 0.005 | —    | 2.82  | 2.82 | < 0.005 | < 0.005 | — | 2.83 |
| Fast Food Restaurant with Drive Thru | 0.01    | < 0.005 | 0.08    | 0.07    | < 0.005 | 0.01    | —     | 0.01    | 0.01    | —      | 0.01    | —    | 96.1  | 96.1 | 0.01    | < 0.005 | — | 96.3 |

|                                      |         |         |         |         |         |         |   |         |         |   |         |   |      |      |         |         |   |      |
|--------------------------------------|---------|---------|---------|---------|---------|---------|---|---------|---------|---|---------|---|------|------|---------|---------|---|------|
| Total                                | 0.01    | < 0.005 | 0.08    | 0.07    | < 0.005 | 0.01    | — | 0.01    | 0.01    | — | 0.01    | — | 98.9 | 98.9 | 0.01    | < 0.005 | — | 99.2 |
| Daily, Winter (Max)                  | —       | —       | —       | —       | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Gasoline/Service Station             | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 2.82 | 2.82 | < 0.005 | < 0.005 | — | 2.83 |
| Fast Food Restaurant with Drive Thru | 0.01    | < 0.005 | 0.08    | 0.07    | < 0.005 | 0.01    | — | 0.01    | 0.01    | — | 0.01    | — | 96.1 | 96.1 | 0.01    | < 0.005 | — | 96.3 |
| Total                                | 0.01    | < 0.005 | 0.08    | 0.07    | < 0.005 | 0.01    | — | 0.01    | 0.01    | — | 0.01    | — | 98.9 | 98.9 | 0.01    | < 0.005 | — | 99.2 |
| Annual                               | —       | —       | —       | —       | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Gasoline/Service Station             | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 0.47 | 0.47 | < 0.005 | < 0.005 | — | 0.47 |
| Fast Food Restaurant with Drive Thru | < 0.005 | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 15.9 | 15.9 | < 0.005 | < 0.005 | — | 15.9 |
| Total                                | < 0.005 | < 0.005 | 0.02    | 0.01    | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 16.4 | 16.4 | < 0.005 | < 0.005 | — | 16.4 |

### 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) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|                                   |         |         |         |      |         |         |   |         |         |   |         |   |      |      |         |         |   |      |
|-----------------------------------|---------|---------|---------|------|---------|---------|---|---------|---------|---|---------|---|------|------|---------|---------|---|------|
| Consum<br>Products                | 0.06    | 0.06    | —       | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Architect<br>ural<br>Coating<br>s | < 0.005 | < 0.005 | —       | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Landsca<br>pe<br>Equipm<br>ent    | 0.02    | 0.02    | < 0.005 | 0.12 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 0.51 | 0.51 | < 0.005 | < 0.005 | — | 0.51 |
| Total                             | 0.09    | 0.08    | < 0.005 | 0.12 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 0.51 | 0.51 | < 0.005 | < 0.005 | — | 0.51 |
| Daily,<br>Winter<br>(Max)         | —       | —       | —       | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Consum<br>er<br>Product<br>s      | 0.06    | 0.06    | —       | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Architect<br>ural<br>Coating<br>s | < 0.005 | < 0.005 | —       | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Total                             | 0.06    | 0.06    | —       | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Annual                            | —       | —       | —       | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Consum<br>er<br>Product<br>s      | 0.01    | 0.01    | —       | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Architect<br>ural<br>Coating<br>s | < 0.005 | < 0.005 | —       | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Landsca<br>pe<br>Equipm<br>ent    | < 0.005 | < 0.005 | < 0.005 | 0.01 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 0.04 | 0.04 | < 0.005 | < 0.005 | — | 0.04 |
| Total                             | 0.01    | 0.01    | < 0.005 | 0.01 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 0.04 | 0.04 | < 0.005 | < 0.005 | — | 0.04 |

## 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)                  | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | — | —    |
| Gasoline/Service Station             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 0.71 | 2.03  | 2.74 | 0.07 | < 0.005 | — | 5.10 |
| Fast Food Restaurant with Drive Thru | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 1.53 | 4.35  | 5.87 | 0.16 | < 0.005 | — | 10.9 |
| Total                                | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 2.24 | 6.38  | 8.62 | 0.23 | 0.01    | — | 16.0 |
| Daily, Winter (Max)                  | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | — | —    |
| Gasoline/Service Station             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 0.71 | 2.03  | 2.74 | 0.07 | < 0.005 | — | 5.10 |
| Fast Food Restaurant with Drive Thru | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 1.53 | 4.35  | 5.87 | 0.16 | < 0.005 | — | 10.9 |
| Total                                | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 2.24 | 6.38  | 8.62 | 0.23 | 0.01    | — | 16.0 |
| Annual                               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | — | —    |

|                                      |   |   |   |   |   |   |   |   |   |   |   |      |      |      |      |         |   |      |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|---------|---|------|
| Gasoline/Service                     | — | — | — | — | — | — | — | — | — | — | — | 0.12 | 0.34 | 0.45 | 0.01 | < 0.005 | — | 0.84 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | 0.25 | 0.72 | 0.97 | 0.03 | < 0.005 | — | 1.81 |
| Total                                | — | — | — | — | — | — | — | — | — | — | — | 0.37 | 1.06 | 1.43 | 0.04 | < 0.005 | — | 2.65 |

## 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)                  | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| Gasoline/Service Station             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 8.13 | 0.00  | 8.13 | 0.81 | 0.00 | — | 28.5 |
| Fast Food Restaurant with Drive Thru | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 16.3 | 0.00  | 16.3 | 1.63 | 0.00 | — | 57.0 |
| Total                                | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 24.4 | 0.00  | 24.4 | 2.44 | 0.00 | — | 85.4 |
| Daily, Winter (Max)                  | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| Gasoline/Service Station             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 8.13 | 0.00  | 8.13 | 0.81 | 0.00 | — | 28.5 |

|                                      |   |   |   |   |   |   |   |   |   |   |   |      |      |      |      |      |   |      |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|------|---|------|
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | 16.3 | 0.00 | 16.3 | 1.63 | 0.00 | — | 57.0 |
| Total                                | — | — | — | — | — | — | — | — | — | — | — | 24.4 | 0.00 | 24.4 | 2.44 | 0.00 | — | 85.4 |
| Annual                               | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —    | — | —    |
| Gasoline/Service Station             | — | — | — | — | — | — | — | — | — | — | — | 1.35 | 0.00 | 1.35 | 0.13 | 0.00 | — | 4.71 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | 2.70 | 0.00 | 2.70 | 0.27 | 0.00 | — | 9.43 |
| Total                                | — | — | — | — | — | — | — | — | — | — | — | 4.04 | 0.00 | 4.04 | 0.40 | 0.00 | — | 14.1 |

## 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)                  | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | —    | —    |
| Fast Food Restaurant with Drive Thru | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 4.10 | 4.10 |
| Total                                | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 4.10 | 4.10 |

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |      |      |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------|------|
| Daily, Winter (Max)                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | —    | —    |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 4.10 | 4.10 |
| Total                                | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 4.10 | 4.10 |
| Annual                               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | —    | —    |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.68 | 0.68 |
| Total                                | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.68 | 0.68 |

## 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 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

## 4.8. 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<br>ent<br>Type     | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily,<br>Summer<br>(Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total                     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily,<br>Winter<br>(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<br>ent<br>Type     | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily,<br>Summer<br>(Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total                     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual              | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

|                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual              | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

#### 4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

|             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Subtotal    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| —           | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual      | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| —           | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

5. Activity Data

5.1. Construction Schedule

| Phase Name                 | Phase Type            | Start Date | End Date   | Days Per Week | Work Days per Phase | Phase Description |
|----------------------------|-----------------------|------------|------------|---------------|---------------------|-------------------|
| Site Preparation           | Site Preparation      | 12/10/2025 | 12/23/2025 | 5.00          | 10.0                | —                 |
| Grading                    | Grading               | 12/24/2025 | 2/17/2026  | 5.00          | 40.0                | —                 |
| Building Construction      | Building Construction | 2/18/2026  | 4/14/2026  | 5.00          | 40.0                | —                 |
| Paving                     | Paving                | 4/15/2026  | 5/10/2026  | 5.00          | 18.0                | —                 |
| Architectural Coating      | Architectural Coating | 4/1/2026   | 5/10/2026  | 5.00          | 28.0                | —                 |
| Infrastructure Improvement | Trenching             | 1/21/2026  | 2/17/2026  | 5.00          | 20.0                | —                 |

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           | Rubber Tired Dozers        | Diesel | Average | 3.00 | 8.00 | 367  | 0.40 |
| Site Preparation           | Tractors/Loaders/Back hoes | Diesel | Average | 4.00 | 8.00 | 84.0 | 0.37 |
| Grading                    | Excavators                 | Diesel | Average | 1.00 | 8.00 | 36.0 | 0.38 |
| Grading                    | Graders                    | Diesel | Average | 1.00 | 8.00 | 148  | 0.41 |
| Grading                    | Rubber Tired Dozers        | Diesel | Average | 1.00 | 8.00 | 367  | 0.40 |
| Grading                    | Tractors/Loaders/Back hoes | Diesel | Average | 3.00 | 8.00 | 84.0 | 0.37 |
| Building Construction      | Cranes                     | Diesel | Average | 1.00 | 7.00 | 367  | 0.29 |
| Building Construction      | Forklifts                  | Diesel | Average | 3.00 | 8.00 | 82.0 | 0.20 |
| Building Construction      | Generator Sets             | Diesel | Average | 1.00 | 8.00 | 14.0 | 0.74 |
| Building Construction      | Tractors/Loaders/Back hoes | Diesel | Average | 3.00 | 7.00 | 84.0 | 0.37 |
| Building Construction      | Welders                    | Diesel | Average | 1.00 | 8.00 | 46.0 | 0.45 |
| Paving                     | Pavers                     | Diesel | Average | 2.00 | 8.00 | 81.0 | 0.42 |
| Paving                     | Paving Equipment           | Diesel | Average | 2.00 | 8.00 | 89.0 | 0.36 |
| Paving                     | Rollers                    | Diesel | Average | 2.00 | 8.00 | 36.0 | 0.38 |
| Architectural Coating      | Air Compressors            | Diesel | Average | 1.00 | 6.00 | 37.0 | 0.48 |
| Infrastructure Improvement | Trenchers                  | Diesel | Average | 1.00 | 8.00 | 40.0 | 0.50 |
| Infrastructure Improvement | Pavers                     | Diesel | Average | 1.00 | 8.00 | 81.0 | 0.42 |
| Infrastructure Improvement | Rollers                    | Diesel | Average | 1.00 | 8.00 | 36.0 | 0.38 |
| Infrastructure Improvement | Rubber Tired Dozers        | Diesel | Average | 1.00 | 8.00 | 367  | 0.40 |

## 5.3. Construction Vehicles

### 5.3.1. Unmitigated

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

|                            |              |      |      |               |
|----------------------------|--------------|------|------|---------------|
| Site Preparation           | —            | —    | —    | —             |
| Site Preparation           | Worker       | 17.5 | 18.5 | LDA,LDT1,LDT2 |
| Site Preparation           | Vendor       | —    | 10.2 | HHDT,MHDT     |
| Site Preparation           | Hauling      | 0.00 | 20.0 | HHDT          |
| Site Preparation           | Onsite truck | —    | —    | HHDT          |
| Grading                    | —            | —    | —    | —             |
| Grading                    | Worker       | 15.0 | 18.5 | LDA,LDT1,LDT2 |
| Grading                    | Vendor       | —    | 10.2 | HHDT,MHDT     |
| Grading                    | Hauling      | 64.9 | 20.0 | HHDT          |
| Grading                    | Onsite truck | —    | —    | HHDT          |
| Building Construction      | —            | —    | —    | —             |
| Building Construction      | Worker       | 1.17 | 18.5 | LDA,LDT1,LDT2 |
| Building Construction      | Vendor       | 0.46 | 10.2 | HHDT,MHDT     |
| Building Construction      | Hauling      | 0.00 | 20.0 | HHDT          |
| Building Construction      | Onsite truck | —    | —    | HHDT          |
| Paving                     | —            | —    | —    | —             |
| Paving                     | Worker       | 15.0 | 18.5 | LDA,LDT1,LDT2 |
| Paving                     | Vendor       | —    | 10.2 | HHDT,MHDT     |
| Paving                     | Hauling      | 0.00 | 20.0 | HHDT          |
| Paving                     | Onsite truck | —    | —    | HHDT          |
| Architectural Coating      | —            | —    | —    | —             |
| Architectural Coating      | Worker       | 0.23 | 18.5 | LDA,LDT1,LDT2 |
| Architectural Coating      | Vendor       | —    | 10.2 | HHDT,MHDT     |
| Architectural Coating      | Hauling      | 0.00 | 20.0 | HHDT          |
| Architectural Coating      | Onsite truck | —    | —    | HHDT          |
| Infrastructure Improvement | —            | —    | —    | —             |
| Infrastructure Improvement | Worker       | 10.0 | 18.5 | LDA,LDT1,LDT2 |
| Infrastructure Improvement | Vendor       | —    | 10.2 | HHDT,MHDT     |

|                            |              |      |      |      |
|----------------------------|--------------|------|------|------|
| Infrastructure Improvement | Hauling      | 0.00 | 20.0 | HHDT |
| Infrastructure Improvement | 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 | 0.00                                     | 0.00                                     | 4,242                                        | 1,414                                        | —                           |

## 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 | —                      | —                      | 15.0                 | 0.00                          | —                   |
| Grading          | —                      | 20,753                 | 20.0                 | 0.00                          | —                   |
| Paving           | 0.00                   | 0.00                   | 0.00                 | 0.00                          | 0.00                |

### 5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

## 5.7. Construction Paving

| Land Use                             | Area Paved (acres) | % Asphalt |
|--------------------------------------|--------------------|-----------|
| Gasoline/Service Station             | 0.00               | 0%        |
| Fast Food Restaurant with Drive Thru | 0.00               | 0%        |

## 5.8. Construction Electricity Consumption and Emissions Factors

### kWh per Year and Emission Factor (lb/MWh)

| Year | kWh per Year | CO2 | CH4  | N2O     |
|------|--------------|-----|------|---------|
| 2026 | 0.00         | 346 | 0.03 | < 0.005 |
| 2025 | 0.00         | 349 | 0.03 | < 0.005 |

## 5.9. Operational Mobile Sources

### 5.9.1. Unmitigated

| Land Use Type                        | Trips/Weekday | Trips/Saturday | Trips/Sunday | Trips/Year | VM/Weekday | VM/Saturday | VM/Sunday | VM/Year    |
|--------------------------------------|---------------|----------------|--------------|------------|------------|-------------|-----------|------------|
| Gasoline/Service Station             | 2,071         | 2,071          | 2,071        | 755,871    | 37,737     | 37,737      | 37,737    | 13,774,087 |
| Fast Food Restaurant with Drive Thru | 775           | 775            | 775          | 282,872    | 14,123     | 14,123      | 14,123    | 5,154,718  |

## 5.10. Operational Area Sources

### 5.10.1. Hearths

#### 5.10.1.1. Unmitigated

### 5.10.2. Architectural Coatings

| Residential Interior Area Coated (sq ft) | Residential Exterior Area Coated (sq ft) | Non-Residential Interior Area Coated (sq ft) | Non-Residential Exterior Area Coated (sq ft) | Parking Area Coated (sq ft) |
|------------------------------------------|------------------------------------------|----------------------------------------------|----------------------------------------------|-----------------------------|
| 0                                        | 0.00                                     | 4,242                                        | 1,414                                        | —                           |

### 5.10.3. Landscape Equipment

| Season | Unit | Value |
|--------|------|-------|
|--------|------|-------|

|             |        |      |
|-------------|--------|------|
| Snow Days   | day/yr | 0.00 |
| Summer Days | day/yr | 180  |

## 5.11. Operational Energy Consumption

### 5.11.1. Unmitigated

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

| Land Use                             | Electricity (kWh/yr) | CO2 | CH4    | N2O    | Natural Gas (kBTU/yr) |
|--------------------------------------|----------------------|-----|--------|--------|-----------------------|
| Gasoline/Service Station             | 1,955                | 346 | 0.0330 | 0.0040 | 8,792                 |
| Fast Food Restaurant with Drive Thru | 91,980               | 346 | 0.0330 | 0.0040 | 299,732               |

## 5.12. Operational Water and Wastewater Consumption

### 5.12.1. Unmitigated

| Land Use                             | Indoor Water (gal/year) | Outdoor Water (gal/year) |
|--------------------------------------|-------------------------|--------------------------|
| Gasoline/Service Station             | 371,893                 | 0.00                     |
| Fast Food Restaurant with Drive Thru | 796,169                 | 0.00                     |

## 5.13. Operational Waste Generation

### 5.13.1. Unmitigated

| Land Use                             | Waste (ton/year) | Cogeneration (kWh/year) |
|--------------------------------------|------------------|-------------------------|
| Gasoline/Service Station             | 15.1             | —                       |
| Fast Food Restaurant with Drive Thru | 30.2             | —                       |

## 5.14. Operational Refrigeration and Air Conditioning Equipment

## 5.14.1. Unmitigated

| Land Use Type                        | Equipment Type                          | Refrigerant | GWP   | Quantity (kg) | Operations Leak Rate | Service Leak Rate | Times Serviced |
|--------------------------------------|-----------------------------------------|-------------|-------|---------------|----------------------|-------------------|----------------|
| Fast Food Restaurant with Drive Thru | Household refrigerators and/or freezers | R-134a      | 1,430 | 0.00          | 0.60                 | 0.00              | 1.00           |
| Fast Food Restaurant with Drive Thru | Other commercial A/C and heat pumps     | R-410A      | 2,088 | 1.80          | 4.00                 | 4.00              | 18.0           |
| Fast Food Restaurant with Drive Thru | Walk-in refrigerators and freezers      | R-404A      | 3,922 | < 0.005       | 7.50                 | 7.50              | 20.0           |

## 5.15. Operational Off-Road Equipment

## 5.15.1. Unmitigated

| Equipment Type | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor |
|----------------|-----------|-------------|----------------|---------------|------------|-------------|
|----------------|-----------|-------------|----------------|---------------|------------|-------------|

## 5.16. Stationary Sources

## 5.16.1. Emergency Generators and Fire Pumps

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

## 5.16.2. Process Boilers

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

## 5.17. User Defined

| Equipment Type | Fuel Type |
|----------------|-----------|
| —              | —         |

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. Biomass Cover Type

5.18.1.1. Unmitigated

| 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) |
|-----------|--------|------------------------------|------------------------------|
|-----------|--------|------------------------------|------------------------------|

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 | 33.6                        | annual days of extreme heat                |
| Extreme Precipitation        | 4.95                        | annual days with precipitation above 20 mm |
| Sea Level Rise               | —                           | meters of inundation depth                 |
| Wildfire                     | 22.7                        | 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 | 4              | 0                 | 0                       | N/A                 |
| Extreme Precipitation        | N/A            | N/A               | N/A                     | N/A                 |
| Sea Level Rise               | N/A            | N/A               | N/A                     | N/A                 |
| Wildfire                     | N/A            | N/A               | N/A                     | N/A                 |
| Flooding                     | N/A            | N/A               | N/A                     | N/A                 |
| Drought                      | 0              | 0                 | 0                       | N/A                 |
| Snowpack Reduction           | N/A            | N/A               | N/A                     | N/A                 |
| Air Quality Degradation      | N/A            | N/A               | N/A                     | N/A                 |

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

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

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

## 6.3. Adjusted Climate Risk Scores

| Climate Hazard               | Exposure Score | Sensitivity Score | Adaptive Capacity Score | Vulnerability Score |
|------------------------------|----------------|-------------------|-------------------------|---------------------|
| Temperature and Extreme Heat | 4              | 1                 | 1                       | 4                   |
| Extreme Precipitation        | N/A            | N/A               | N/A                     | N/A                 |
| Sea Level Rise               | N/A            | N/A               | N/A                     | N/A                 |

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

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

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

| Indicator           | Result for Project Census Tract |
|---------------------|---------------------------------|
| Exposure Indicators | —                               |
| AQ-Ozone            | 91.1                            |
| AQ-PM               | 32.2                            |
| AQ-DPM              | 57.9                            |
| Drinking Water      | 29.7                            |
| Lead Risk Housing   | 13.8                            |
| Pesticides          | 0.00                            |
| Toxic Releases      | 25.0                            |
| Traffic             | 83.1                            |
| Effect Indicators   | —                               |
| CleanUp Sites       | 73.4                            |
| Groundwater         | 0.00                            |

|                                 |      |
|---------------------------------|------|
| Haz Waste Facilities/Generators | 65.9 |
| Impaired Water Bodies           | 0.00 |
| Solid Waste                     | 0.00 |
| Sensitive Population            | —    |
| Asthma                          | 84.6 |
| Cardio-vascular                 | 99.5 |
| Low Birth Weights               | 5.81 |
| Socioeconomic Factor Indicators | —    |
| Education                       | 67.1 |
| Housing                         | 11.2 |
| Linguistic                      | 19.9 |
| Poverty                         | 67.2 |
| Unemployment                    | 82.7 |

## 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          | 66.22610035                     |
| Employed               | 25.70255357                     |
| Median HI              | 56.85871936                     |
| Education              | —                               |
| Bachelor's or higher   | 31.64378288                     |
| High school enrollment | 2.258437059                     |
| Preschool enrollment   | 41.10098807                     |
| Transportation         | —                               |
| Auto Access            | 89.83703323                     |
| Active commuting       | 14.92364943                     |

|                                              |             |
|----------------------------------------------|-------------|
| Social                                       | —           |
| 2-parent households                          | 97.98537149 |
| Voting                                       | 43.48774541 |
| Neighborhood                                 | —           |
| Alcohol availability                         | 89.68304889 |
| Park access                                  | 26.5622995  |
| Retail density                               | 22.41755422 |
| Supermarket access                           | 25.03528808 |
| Tree canopy                                  | 7.25009624  |
| Housing                                      | —           |
| Homeownership                                | 84.70422174 |
| Housing habitability                         | 80.57230848 |
| Low-inc homeowner severe housing cost burden | 56.2941101  |
| Low-inc renter severe housing cost burden    | 70.48633389 |
| Uncrowded housing                            | 64.30129603 |
| Health Outcomes                              | —           |
| Insured adults                               | 59.70742974 |
| Arthritis                                    | 0.6         |
| Asthma ER Admissions                         | 14.5        |
| High Blood Pressure                          | 1.1         |
| Cancer (excluding skin)                      | 0.9         |
| Asthma                                       | 37.3        |
| Coronary Heart Disease                       | 1.0         |
| Chronic Obstructive Pulmonary Disease        | 1.6         |
| Diagnosed Diabetes                           | 6.3         |
| Life Expectancy at Birth                     | 28.4        |
| Cognitively Disabled                         | 58.3        |
| Physically Disabled                          | 16.0        |

|                                       |      |
|---------------------------------------|------|
| Heart Attack ER Admissions            | 1.2  |
| Mental Health Not Good                | 58.7 |
| Chronic Kidney Disease                | 1.3  |
| Obesity                               | 41.7 |
| Pedestrian Injuries                   | 90.6 |
| Physical Health Not Good              | 24.5 |
| Stroke                                | 2.9  |
| Health Risk Behaviors                 | —    |
| Binge Drinking                        | 95.3 |
| Current Smoker                        | 59.6 |
| No Leisure Time for Physical Activity | 48.5 |
| Climate Change Exposures              | —    |
| Wildfire Risk                         | 0.0  |
| SLR Inundation Area                   | 0.0  |
| Children                              | 33.8 |
| Elderly                               | 53.1 |
| English Speaking                      | 52.3 |
| Foreign-born                          | 39.5 |
| Outdoor Workers                       | 27.8 |
| Climate Change Adaptive Capacity      | —    |
| Impervious Surface Cover              | 86.5 |
| Traffic Density                       | 80.1 |
| Traffic Access                        | 23.0 |
| Other Indices                         | —    |
| Hardship                              | 53.1 |
| Other Decision Support                | —    |
| 2016 Voting                           | 53.1 |

### 7.3. Overall Health & Equity Scores

| Metric                                                                              | Result for Project Census Tract |
|-------------------------------------------------------------------------------------|---------------------------------|
| CalEnviroScreen 4.0 Score for Project Location (a)                                  | 52.0                            |
| Healthy Places Index Score for Project Location (b)                                 | 42.0                            |
| Project Located in a Designated Disadvantaged Community (Senate Bill 535)           | No                              |
| Project Located in a Low-Income Community (Assembly Bill 1550)                      | No                              |
| Project Located in a Community Air Protection Program Community (Assembly Bill 617) | No                              |

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

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

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

| Screen                                    | Justification                                                                                                                                                  |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Land Use                                  | Based on site plan                                                                                                                                             |
| Construction: Construction Phases         | estimated construction schedule                                                                                                                                |
| Construction: Off-Road Equipment          | Construction equipment added for infrastructure improvement.                                                                                                   |
| Operations: Vehicle Data                  | Based on trip generation.                                                                                                                                      |
| Construction: Dust From Material Movement | Based on engineer estimate.                                                                                                                                    |
| Operations: Road Dust                     | San Bernardino County road silt loading factor from CARB's MISCELLANEOUS PROCESS METHODOLOGY 7.9, Entrained Road Travel, Paved Road Dust, dated November 2016. |

# Hesperia Big Box Retail - Operations for Retail and Fuel Station/Car Wash Detailed Report

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## 8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

| Data Field                  | Value                                                                     |
|-----------------------------|---------------------------------------------------------------------------|
| Project Name                | Hesperia Big Box Retail - Operations for Retail and Fuel Station/Car Wash |
| Operational Year            | 2026                                                                      |
| Lead Agency                 | —                                                                         |
| Land Use Scale              | Project/site                                                              |
| Analysis Level for Defaults | County                                                                    |
| Windspeed (m/s)             | 2.80                                                                      |
| Precipitation (days)        | 1.40                                                                      |
| Location                    | 34.43024660226459, -117.38119428167921                                    |
| County                      | San Bernardino-Mojave Desert                                              |
| City                        | Hesperia                                                                  |
| Air District                | Mojave Desert AQMD                                                        |
| Air Basin                   | Mojave Desert                                                             |
| TAZ                         | 5106                                                                      |
| EDFZ                        | 10                                                                        |
| Electric Utility            | Southern California Edison                                                |
| Gas Utility                 | Southwest Gas Corp.                                                       |
| App Version                 | 2022.1.1.29                                                               |

## 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 |
|--------------------------|------|------|-------------|-----------------------|------------------------|--------------------------------|------------|-------------|
| Gasoline/Service Station | 28.0 | Pump | 5.60        | 205                   | 0.00                   | —                              | —          | —           |

|                                      |      |          |      |         |         |   |   |   |
|--------------------------------------|------|----------|------|---------|---------|---|---|---|
| Fast Food Restaurant with Drive Thru | 2.62 | 1000sqft | 3.10 | 2,623   | 0.00    | — | — | — |
| Regional Shopping Center             | 151  | 1000sqft | 11.4 | 150,897 | 346,897 | — | — | — |
| Refrigerated Warehouse-No Rail       | 16.8 | 1000sqft | 0.31 | 16,766  | 0.00    | — | — | — |
| Parking Lot                          | 13.6 | Acre     | 13.6 | 0.00    | 0.00    | — | — | — |

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

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

| Un/Mit.             | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2   | CO2T    | CH4  | N2O  | R   | CO2e    |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|---------|---------|------|------|-----|---------|
| Daily, Summer (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —       | —       | —    | —    | —   | —       |
| Unmit.              | 49.8 | 45.8 | 50.8 | 464  | 1.12 | 0.95  | 77.7  | 78.7  | 0.90   | 19.8   | 20.7   | 149  | 117,070 | 117,219 | 18.6 | 4.93 | 843 | 119,995 |
| Daily, Winter (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —       | —       | —    | —    | —   | —       |
| Unmit.              | 44.1 | 40.2 | 54.8 | 343  | 1.02 | 0.94  | 77.7  | 78.7  | 0.89   | 19.8   | 20.7   | 149  | 107,149 | 107,299 | 18.6 | 5.10 | 462 | 109,745 |
| Average Daily (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —       | —       | —    | —    | —   | —       |
| Unmit.              | 45.1 | 41.1 | 56.2 | 377  | 1.05 | 0.95  | 77.7  | 78.6  | 0.89   | 19.7   | 20.6   | 149  | 109,415 | 109,565 | 18.7 | 5.17 | 621 | 112,193 |
| Annual (Max)        | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —       | —       | —    | —    | —   | —       |
| Unmit.              | 8.23 | 7.51 | 10.3 | 68.8 | 0.19 | 0.17  | 14.2  | 14.3  | 0.16   | 3.60   | 3.77   | 24.7 | 18,115  | 18,140  | 3.09 | 0.86 | 103 | 18,575  |

## 2.5. Operations Emissions by Sector, Unmitigated

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

| Sector              | TOG  | ROG  | NOx  | CO   | SO2     | PM10E | PM10D | PM10T | PM2.5E  | PM2.5D | PM2.5T  | BCO2 | NBCO2   | CO2T    | CH4     | N2O     | R    | CO2e    |
|---------------------|------|------|------|------|---------|-------|-------|-------|---------|--------|---------|------|---------|---------|---------|---------|------|---------|
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —       | —      | —       | —    | —       | —       | —       | —       | —    | —       |
| Mobile              | 44.5 | 40.6 | 50.3 | 456  | 1.12    | 0.91  | 77.7  | 78.6  | 0.86    | 19.8   | 20.6    | —    | 114,073 | 114,073 | 3.27    | 4.82    | 391  | 115,983 |
| Area                | 5.28 | 5.17 | 0.06 | 7.41 | < 0.005 | 0.01  | —     | 0.01  | 0.01    | —      | 0.01    | —    | 30.5    | 30.5    | < 0.005 | < 0.005 | —    | 30.6    |
| Energy              | 0.05 | 0.02 | 0.44 | 0.37 | < 0.005 | 0.03  | —     | 0.03  | 0.03    | —      | 0.03    | —    | 2,847   | 2,847   | 0.27    | 0.03    | —    | 2,862   |
| Water               | —    | —    | —    | —    | —       | —     | —     | —     | —       | —      | —       | 31.1 | 119     | 151     | 3.20    | 0.08    | —    | 254     |
| Waste               | —    | —    | —    | —    | —       | —     | —     | —     | —       | —      | —       | 118  | 0.00    | 118     | 11.8    | 0.00    | —    | 414     |
| Refrig.             | —    | —    | —    | —    | —       | —     | —     | —     | —       | —      | —       | —    | —       | —       | —       | —       | 452  | 452     |
| Total               | 49.8 | 45.8 | 50.8 | 464  | 1.12    | 0.95  | 77.7  | 78.7  | 0.90    | 19.8   | 20.7    | 149  | 117,070 | 117,219 | 18.6    | 4.93    | 843  | 119,995 |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —       | —      | —       | —    | —       | —       | —       | —       | —    | —       |
| Mobile              | 40.1 | 36.2 | 54.3 | 343  | 1.02    | 0.91  | 77.7  | 78.6  | 0.86    | 19.8   | 20.6    | —    | 104,183 | 104,183 | 3.35    | 4.99    | 10.1 | 105,764 |
| Area                | 3.96 | 3.96 | —    | —    | —       | —     | —     | —     | —       | —      | —       | —    | —       | —       | —       | —       | —    | —       |
| Energy              | 0.05 | 0.02 | 0.44 | 0.37 | < 0.005 | 0.03  | —     | 0.03  | 0.03    | —      | 0.03    | —    | 2,847   | 2,847   | 0.27    | 0.03    | —    | 2,862   |
| Water               | —    | —    | —    | —    | —       | —     | —     | —     | —       | —      | —       | 31.1 | 119     | 151     | 3.20    | 0.08    | —    | 254     |
| Waste               | —    | —    | —    | —    | —       | —     | —     | —     | —       | —      | —       | 118  | 0.00    | 118     | 11.8    | 0.00    | —    | 414     |
| Refrig.             | —    | —    | —    | —    | —       | —     | —     | —     | —       | —      | —       | —    | —       | —       | —       | —       | 452  | 452     |
| Total               | 44.1 | 40.2 | 54.8 | 343  | 1.02    | 0.94  | 77.7  | 78.7  | 0.89    | 19.8   | 20.7    | 149  | 107,149 | 107,299 | 18.6    | 5.10    | 462  | 109,745 |
| Average Daily       | —    | —    | —    | —    | —       | —     | —     | —     | —       | —      | —       | —    | —       | —       | —       | —       | —    | —       |
| Mobile              | 40.4 | 36.5 | 55.8 | 373  | 1.04    | 0.91  | 77.7  | 78.6  | 0.86    | 19.7   | 20.6    | —    | 106,434 | 106,434 | 3.39    | 5.06    | 169  | 108,197 |
| Area                | 4.61 | 4.56 | 0.03 | 3.66 | < 0.005 | 0.01  | —     | 0.01  | < 0.005 | —      | < 0.005 | —    | 15.0    | 15.0    | < 0.005 | < 0.005 | —    | 15.1    |
| Energy              | 0.05 | 0.02 | 0.44 | 0.37 | < 0.005 | 0.03  | —     | 0.03  | 0.03    | —      | 0.03    | —    | 2,847   | 2,847   | 0.27    | 0.03    | —    | 2,862   |
| Water               | —    | —    | —    | —    | —       | —     | —     | —     | —       | —      | —       | 31.1 | 119     | 151     | 3.20    | 0.08    | —    | 254     |
| Waste               | —    | —    | —    | —    | —       | —     | —     | —     | —       | —      | —       | 118  | 0.00    | 118     | 11.8    | 0.00    | —    | 414     |

|         |      |         |      |      |         |         |      |         |         |      |         |      |         |         |         |         |      |         |
|---------|------|---------|------|------|---------|---------|------|---------|---------|------|---------|------|---------|---------|---------|---------|------|---------|
| Refrig. | —    | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | —    | —       | —       | —       | —       | 452  | 452     |
| Total   | 45.1 | 41.1    | 56.2 | 377  | 1.05    | 0.95    | 77.7 | 78.6    | 0.89    | 19.7 | 20.6    | 149  | 109,415 | 109,565 | 18.7    | 5.17    | 621  | 112,193 |
| Annual  | —    | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | —    | —       | —       | —       | —       | —    | —       |
| Mobile  | 7.38 | 6.67    | 10.2 | 68.1 | 0.19    | 0.17    | 14.2 | 14.3    | 0.16    | 3.60 | 3.76    | —    | 17,621  | 17,621  | 0.56    | 0.84    | 28.0 | 17,913  |
| Area    | 0.84 | 0.83    | 0.01 | 0.67 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | —    | 2.49    | 2.49    | < 0.005 | < 0.005 | —    | 2.50    |
| Energy  | 0.01 | < 0.005 | 0.08 | 0.07 | < 0.005 | 0.01    | —    | 0.01    | 0.01    | —    | 0.01    | —    | 471     | 471     | 0.04    | < 0.005 | —    | 474     |
| Water   | —    | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | 5.15 | 19.8    | 24.9    | 0.53    | 0.01    | —    | 42.0    |
| Waste   | —    | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | 19.6 | 0.00    | 19.6    | 1.96    | 0.00    | —    | 68.5    |
| Refrig. | —    | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | —    | —       | —       | —       | —       | 74.8 | 74.8    |
| Total   | 8.23 | 7.51    | 10.3 | 68.8 | 0.19    | 0.17    | 14.2 | 14.3    | 0.16    | 3.60 | 3.77    | 24.7 | 18,115  | 18,140  | 3.09    | 0.86    | 103  | 18,575  |

## 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)                  | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Gasoline/Service Station             | 12.7 | 11.6 | 13.7 | 130  | 0.31 | 0.24  | 22.0  | 22.3  | 0.23   | 5.60   | 5.83   | —    | 31,898 | 31,898 | 0.93 | 1.27 | 110  | 32,410 |
| Fast Food Restaurant with Drive Thru | 4.75 | 4.34 | 5.12 | 48.7 | 0.12 | 0.09  | 8.25  | 8.34  | 0.09   | 2.10   | 2.18   | —    | 11,937 | 11,937 | 0.35 | 0.48 | 41.3 | 12,129 |

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|                                      |      |      |      |      |      |      |      |      |      |      |      |   |         |         |         |      |      |         |
|--------------------------------------|------|------|------|------|------|------|------|------|------|------|------|---|---------|---------|---------|------|------|---------|
| Regional Shopping Center             | 27.0 | 24.7 | 29.1 | 277  | 0.67 | 0.52 | 46.9 | 47.4 | 0.49 | 11.9 | 12.4 | — | 67,868  | 67,868  | 1.98    | 2.70 | 235  | 68,958  |
| Refrigerated Warehouse-No Rail       | 0.05 | 0.04 | 2.42 | 0.36 | 0.02 | 0.05 | 0.56 | 0.61 | 0.05 | 0.15 | 0.20 | — | 2,369   | 2,369   | < 0.005 | 0.37 | 4.99 | 2,486   |
| Parking Lot                          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    |
| Total                                | 44.5 | 40.6 | 50.3 | 456  | 1.12 | 0.91 | 77.7 | 78.6 | 0.86 | 19.8 | 20.6 | — | 114,073 | 114,073 | 3.27    | 4.82 | 391  | 115,983 |
| Daily, Winter (Max)                  | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —       | —       | —       | —    | —    | —       |
| Gasoline/Service Station             | 11.4 | 10.3 | 14.8 | 97.9 | 0.29 | 0.24 | 22.0 | 22.3 | 0.23 | 5.60 | 5.83 | — | 29,073  | 29,073  | 0.96    | 1.32 | 2.86 | 29,493  |
| Fast Food Restaurant with Drive Thru | 4.28 | 3.87 | 5.53 | 36.6 | 0.11 | 0.09 | 8.25 | 8.34 | 0.09 | 2.10 | 2.18 | — | 10,880  | 10,880  | 0.36    | 0.49 | 1.07 | 11,037  |
| Regional Shopping Center             | 24.3 | 22.0 | 31.5 | 208  | 0.61 | 0.52 | 46.9 | 47.4 | 0.49 | 11.9 | 12.4 | — | 61,859  | 61,859  | 2.03    | 2.81 | 6.08 | 62,752  |
| Refrigerated Warehouse-No Rail       | 0.04 | 0.04 | 2.55 | 0.37 | 0.02 | 0.05 | 0.56 | 0.61 | 0.05 | 0.15 | 0.20 | — | 2,371   | 2,371   | < 0.005 | 0.37 | 0.13 | 2,482   |
| Parking Lot                          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    |
| Total                                | 40.1 | 36.2 | 54.3 | 343  | 1.02 | 0.91 | 77.7 | 78.6 | 0.86 | 19.8 | 20.6 | — | 104,183 | 104,183 | 3.35    | 4.99 | 10.1 | 105,764 |
| Annual                               | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —       | —       | —       | —    | —    | —       |

|                                      |      |      |      |      |         |      |      |      |      |      |      |   |        |        |         |      |      |        |
|--------------------------------------|------|------|------|------|---------|------|------|------|------|------|------|---|--------|--------|---------|------|------|--------|
| Gasolin Station                      | 2.10 | 1.90 | 2.77 | 19.4 | 0.05    | 0.04 | 4.02 | 4.06 | 0.04 | 1.02 | 1.06 | — | 4,920  | 4,920  | 0.16    | 0.22 | 7.88 | 4,998  |
| Fast Food Restaurant with Drive Thru | 0.79 | 0.71 | 1.04 | 7.27 | 0.02    | 0.02 | 1.50 | 1.52 | 0.02 | 0.38 | 0.40 | — | 1,841  | 1,841  | 0.06    | 0.08 | 2.95 | 1,870  |
| Regional Shopping Center             | 4.48 | 4.05 | 5.90 | 41.3 | 0.11    | 0.09 | 8.55 | 8.64 | 0.09 | 2.17 | 2.26 | — | 10,468 | 10,468 | 0.34    | 0.47 | 16.8 | 10,634 |
| Refrigerated Warehouse-No Rail       | 0.01 | 0.01 | 0.47 | 0.07 | < 0.005 | 0.01 | 0.10 | 0.11 | 0.01 | 0.03 | 0.04 | — | 392    | 392    | < 0.005 | 0.06 | 0.36 | 411    |
| Parking Lot                          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00   | 0.00   | 0.00    | 0.00 | 0.00 | 0.00   |
| Total                                | 7.38 | 6.67 | 10.2 | 68.1 | 0.19    | 0.17 | 14.2 | 14.3 | 0.16 | 3.60 | 3.76 | — | 17,621 | 17,621 | 0.56    | 0.84 | 28.0 | 17,913 |

## 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)      | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —       | —       | — | —    |
| Gasoline/Service Station | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 1.85  | 1.85 | < 0.005 | < 0.005 | — | 1.87 |

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|                                      |   |   |   |   |   |   |   |   |   |   |   |   |       |       |         |         |   |       |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|-------|-------|---------|---------|---|-------|
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | — | 87.2  | 87.2  | 0.01    | < 0.005 | — | 87.7  |
| Regional Shopping Center             | — | — | — | — | — | — | — | — | — | — | — | — | 1,392 | 1,392 | 0.13    | 0.02    | — | 1,400 |
| Refrigerated Warehouse-No Rail       | — | — | — | — | — | — | — | — | — | — | — | — | 348   | 348   | 0.03    | < 0.005 | — | 350   |
| Parking Lot                          | — | — | — | — | — | — | — | — | — | — | — | — | 492   | 492   | 0.05    | 0.01    | — | 495   |
| Total                                | — | — | — | — | — | — | — | — | — | — | — | — | 2,321 | 2,321 | 0.22    | 0.03    | — | 2,335 |
| Daily, Winter (Max)                  | — | — | — | — | — | — | — | — | — | — | — | — | —     | —     | —       | —       | — | —     |
| Gasoline/Service Station             | — | — | — | — | — | — | — | — | — | — | — | — | 1.85  | 1.85  | < 0.005 | < 0.005 | — | 1.87  |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | — | 87.2  | 87.2  | 0.01    | < 0.005 | — | 87.7  |
| Regional Shopping Center             | — | — | — | — | — | — | — | — | — | — | — | — | 1,392 | 1,392 | 0.13    | 0.02    | — | 1,400 |

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |       |       |         |         |   |       |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|-------|-------|---------|---------|---|-------|
| Refrigerated Warehouse-No            | — | — | — | — | — | — | — | — | — | — | — | — | 348   | 348   | 0.03    | < 0.005 | — | 350   |
| Parking Lot                          | — | — | — | — | — | — | — | — | — | — | — | — | 492   | 492   | 0.05    | 0.01    | — | 495   |
| Total                                | — | — | — | — | — | — | — | — | — | — | — | — | 2,321 | 2,321 | 0.22    | 0.03    | — | 2,335 |
| Annual                               | — | — | — | — | — | — | — | — | — | — | — | — | —     | —     | —       | —       | — | —     |
| Gasoline/Service Station             | — | — | — | — | — | — | — | — | — | — | — | — | 0.31  | 0.31  | < 0.005 | < 0.005 | — | 0.31  |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | — | 14.4  | 14.4  | < 0.005 | < 0.005 | — | 14.5  |
| Regional Shopping Center             | — | — | — | — | — | — | — | — | — | — | — | — | 231   | 231   | 0.02    | < 0.005 | — | 232   |
| Refrigerated Warehouse-No Rail       | — | — | — | — | — | — | — | — | — | — | — | — | 57.6  | 57.6  | 0.01    | < 0.005 | — | 58.0  |
| Parking Lot                          | — | — | — | — | — | — | — | — | — | — | — | — | 81.4  | 81.4  | 0.01    | < 0.005 | — | 81.9  |
| Total                                | — | — | — | — | — | — | — | — | — | — | — | — | 384   | 384   | 0.04    | < 0.005 | — | 387   |

#### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

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

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|                                      |         |         |         |         |         |         |   |         |         |   |         |   |      |      |         |         |   |      |
|--------------------------------------|---------|---------|---------|---------|---------|---------|---|---------|---------|---|---------|---|------|------|---------|---------|---|------|
| Daily, Summer (Max)                  | —       | —       | —       | —       | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Gasoline/Service Station             | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 2.82 | 2.82 | < 0.005 | < 0.005 | — | 2.83 |
| Fast Food Restaurant with Drive Thru | 0.01    | < 0.005 | 0.08    | 0.07    | < 0.005 | 0.01    | — | 0.01    | 0.01    | — | 0.01    | — | 96.1 | 96.1 | 0.01    | < 0.005 | — | 96.3 |
| Regional Shopping Center             | 0.03    | 0.01    | 0.24    | 0.20    | < 0.005 | 0.02    | — | 0.02    | 0.02    | — | 0.02    | — | 285  | 285  | 0.03    | < 0.005 | — | 286  |
| Refrigerated Warehouse-No Rail       | 0.01    | 0.01    | 0.12    | 0.10    | < 0.005 | 0.01    | — | 0.01    | 0.01    | — | 0.01    | — | 142  | 142  | 0.01    | < 0.005 | — | 142  |
| Parking Lot                          | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00    | 0.00    | — | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | — | 0.00 |
| Total                                | 0.05    | 0.02    | 0.44    | 0.37    | < 0.005 | 0.03    | — | 0.03    | 0.03    | — | 0.03    | — | 526  | 526  | 0.05    | < 0.005 | — | 527  |
| Daily, Winter (Max)                  | —       | —       | —       | —       | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Gasoline/Service Station             | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 2.82 | 2.82 | < 0.005 | < 0.005 | — | 2.83 |
| Fast Food Restaurant with Drive Thru | 0.01    | < 0.005 | 0.08    | 0.07    | < 0.005 | 0.01    | — | 0.01    | 0.01    | — | 0.01    | — | 96.1 | 96.1 | 0.01    | < 0.005 | — | 96.3 |

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|                                      |         |         |         |         |         |         |   |         |         |   |         |   |      |      |         |         |   |      |
|--------------------------------------|---------|---------|---------|---------|---------|---------|---|---------|---------|---|---------|---|------|------|---------|---------|---|------|
| Regional Shopping Center             | 0.03    | 0.01    | 0.24    | 0.20    | < 0.005 | 0.02    | — | 0.02    | 0.02    | — | 0.02    | — | 285  | 285  | 0.03    | < 0.005 | — | 286  |
| Refrigerated Warehouse-No Rail       | 0.01    | 0.01    | 0.12    | 0.10    | < 0.005 | 0.01    | — | 0.01    | 0.01    | — | 0.01    | — | 142  | 142  | 0.01    | < 0.005 | — | 142  |
| Parking Lot                          | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00    | 0.00    | — | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | — | 0.00 |
| Total                                | 0.05    | 0.02    | 0.44    | 0.37    | < 0.005 | 0.03    | — | 0.03    | 0.03    | — | 0.03    | — | 526  | 526  | 0.05    | < 0.005 | — | 527  |
| Annual                               | —       | —       | —       | —       | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Gasoline/Service Station             | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 0.47 | 0.47 | < 0.005 | < 0.005 | — | 0.47 |
| Fast Food Restaurant with Drive Thru | < 0.005 | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 15.9 | 15.9 | < 0.005 | < 0.005 | — | 15.9 |
| Regional Shopping Center             | < 0.005 | < 0.005 | 0.04    | 0.04    | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 47.2 | 47.2 | < 0.005 | < 0.005 | — | 47.3 |
| Refrigerated Warehouse-No Rail       | < 0.005 | < 0.005 | 0.02    | 0.02    | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 23.4 | 23.4 | < 0.005 | < 0.005 | — | 23.5 |
| Parking Lot                          | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00    | 0.00    | — | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | — | 0.00 |
| Total                                | 0.01    | < 0.005 | 0.08    | 0.07    | < 0.005 | 0.01    | — | 0.01    | 0.01    | — | 0.01    | — | 87.0 | 87.0 | 0.01    | < 0.005 | — | 87.3 |

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)    | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —       | —       | — | —    |
| Consumer Products      | 3.70 | 3.70 | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —       | —       | — | —    |
| Architectural Coatings | 0.26 | 0.26 | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —       | —       | — | —    |
| Landscape Equipment    | 1.32 | 1.22 | 0.06 | 7.41 | < 0.005 | 0.01  | —     | 0.01  | 0.01   | —      | 0.01   | —    | 30.5  | 30.5 | < 0.005 | < 0.005 | — | 30.6 |
| Total                  | 5.28 | 5.17 | 0.06 | 7.41 | < 0.005 | 0.01  | —     | 0.01  | 0.01   | —      | 0.01   | —    | 30.5  | 30.5 | < 0.005 | < 0.005 | — | 30.6 |
| Daily, Winter (Max)    | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —       | —       | — | —    |
| Consumer Products      | 3.70 | 3.70 | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —       | —       | — | —    |
| Architectural Coatings | 0.26 | 0.26 | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —       | —       | — | —    |
| Total                  | 3.96 | 3.96 | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —       | —       | — | —    |
| Annual                 | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —       | —       | — | —    |
| Consumer Products      | 0.67 | 0.67 | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —       | —       | — | —    |

|                     |      |      |      |      |         |         |   |         |         |   |         |   |      |      |         |         |   |      |
|---------------------|------|------|------|------|---------|---------|---|---------|---------|---|---------|---|------|------|---------|---------|---|------|
| Architect Coatings  | 0.05 | 0.05 | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Landscape Equipment | 0.12 | 0.11 | 0.01 | 0.67 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 2.49 | 2.49 | < 0.005 | < 0.005 | — | 2.50 |
| Total               | 0.84 | 0.83 | 0.01 | 0.67 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 2.49 | 2.49 | < 0.005 | < 0.005 | — | 2.50 |

## 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)                  | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | — | —    |
| Gasoline/Service Station             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 0.71 | 2.03  | 2.74 | 0.07 | < 0.005 | — | 5.10 |
| Fast Food Restaurant with Drive Thru | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 1.53 | 4.35  | 5.87 | 0.16 | < 0.005 | — | 10.9 |
| Regional Shopping Center             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 21.4 | 91.9  | 113  | 2.20 | 0.05    | — | 184  |
| Refrigerated Warehouse-No Rail       | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 7.43 | 21.2  | 28.6 | 0.76 | 0.02    | — | 53.2 |

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|                                      |   |   |   |   |   |   |   |   |   |   |   |      |      |      |      |         |   |      |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|---------|---|------|
| Parking Lot                          | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | — | 0.00 |
| Total                                | — | — | — | — | — | — | — | — | — | — | — | 31.1 | 119  | 151  | 3.20 | 0.08    | — | 254  |
| Daily, Winter (Max)                  | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —       | — | —    |
| Gasoline/Service Station             | — | — | — | — | — | — | — | — | — | — | — | 0.71 | 2.03 | 2.74 | 0.07 | < 0.005 | — | 5.10 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | 1.53 | 4.35 | 5.87 | 0.16 | < 0.005 | — | 10.9 |
| Regional Shopping Center             | — | — | — | — | — | — | — | — | — | — | — | 21.4 | 91.9 | 113  | 2.20 | 0.05    | — | 184  |
| Refrigerated Warehouse-No Rail       | — | — | — | — | — | — | — | — | — | — | — | 7.43 | 21.2 | 28.6 | 0.76 | 0.02    | — | 53.2 |
| Parking Lot                          | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | — | 0.00 |
| Total                                | — | — | — | — | — | — | — | — | — | — | — | 31.1 | 119  | 151  | 3.20 | 0.08    | — | 254  |
| Annual                               | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —       | — | —    |
| Gasoline/Service Station             | — | — | — | — | — | — | — | — | — | — | — | 0.12 | 0.34 | 0.45 | 0.01 | < 0.005 | — | 0.84 |

|                                      |   |   |   |   |   |   |   |   |   |   |   |      |      |      |      |         |   |      |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|---------|---|------|
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | 0.25 | 0.72 | 0.97 | 0.03 | < 0.005 | — | 1.81 |
| Regional Shopping Center             | — | — | — | — | — | — | — | — | — | — | — | 3.55 | 15.2 | 18.8 | 0.37 | 0.01    | — | 30.5 |
| Refrigerated Warehouse-No Rail       | — | — | — | — | — | — | — | — | — | — | — | 1.23 | 3.51 | 4.74 | 0.13 | < 0.005 | — | 8.80 |
| Parking Lot                          | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | — | 0.00 |
| Total                                | — | — | — | — | — | — | — | — | — | — | — | 5.15 | 19.8 | 24.9 | 0.53 | 0.01    | — | 42.0 |

## 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)      | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| Gasoline/Service Station | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 8.13 | 0.00  | 8.13 | 0.81 | 0.00 | — | 28.5 |

|                                      |   |   |   |   |   |   |   |   |   |   |   |      |      |      |      |      |   |      |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|------|---|------|
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | 16.3 | 0.00 | 16.3 | 1.63 | 0.00 | — | 57.0 |
| Regional Shopping Center             | — | — | — | — | — | — | — | — | — | — | — | 85.4 | 0.00 | 85.4 | 8.53 | 0.00 | — | 299  |
| Refrigerated Warehouse-No Rail       | — | — | — | — | — | — | — | — | — | — | — | 8.49 | 0.00 | 8.49 | 0.85 | 0.00 | — | 29.7 |
| Parking Lot                          | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                                | — | — | — | — | — | — | — | — | — | — | — | 118  | 0.00 | 118  | 11.8 | 0.00 | — | 414  |
| Daily, Winter (Max)                  | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —    | — | —    |
| Gasoline/Service Station             | — | — | — | — | — | — | — | — | — | — | — | 8.13 | 0.00 | 8.13 | 0.81 | 0.00 | — | 28.5 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | 16.3 | 0.00 | 16.3 | 1.63 | 0.00 | — | 57.0 |
| Regional Shopping Center             | — | — | — | — | — | — | — | — | — | — | — | 85.4 | 0.00 | 85.4 | 8.53 | 0.00 | — | 299  |

|                                      |   |   |   |   |   |   |   |   |   |   |   |      |      |      |      |      |   |      |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|------|---|------|
| Refrigerated Warehouse-No            | — | — | — | — | — | — | — | — | — | — | — | 8.49 | 0.00 | 8.49 | 0.85 | 0.00 | — | 29.7 |
| Parking Lot                          | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                                | — | — | — | — | — | — | — | — | — | — | — | 118  | 0.00 | 118  | 11.8 | 0.00 | — | 414  |
| Annual                               | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —    | — | —    |
| Gasoline/Service Station             | — | — | — | — | — | — | — | — | — | — | — | 1.35 | 0.00 | 1.35 | 0.13 | 0.00 | — | 4.71 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | 2.70 | 0.00 | 2.70 | 0.27 | 0.00 | — | 9.43 |
| Regional Shopping Center             | — | — | — | — | — | — | — | — | — | — | — | 14.1 | 0.00 | 14.1 | 1.41 | 0.00 | — | 49.5 |
| Refrigerated Warehouse-No Rail       | — | — | — | — | — | — | — | — | — | — | — | 1.41 | 0.00 | 1.41 | 0.14 | 0.00 | — | 4.92 |
| Parking Lot                          | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                                | — | — | — | — | — | — | — | — | — | — | — | 19.6 | 0.00 | 19.6 | 1.96 | 0.00 | — | 68.5 |

### 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)

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| 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)                  | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | —    | —    |
| Fast Food Restaurant with Drive Thru | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 4.10 | 4.10 |
| Regional Shopping Center             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 0.72 | 0.72 |
| Refrigerated Warehouse-No Rail       | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 447  | 447  |
| Total                                | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 452  | 452  |
| Daily, Winter (Max)                  | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | —    | —    |
| Fast Food Restaurant with Drive Thru | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 4.10 | 4.10 |
| Regional Shopping Center             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 0.72 | 0.72 |

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |      |      |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------|------|
| Refrigerated Warehouse-No            | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 447  | 447  |
| Total                                | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 452  | 452  |
| Annual                               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | —    | —    |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.68 | 0.68 |
| Regional Shopping Center             | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.12 | 0.12 |
| Refrigerated Warehouse-No Rail       | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 74.0 | 74.0 |
| Total                                | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 74.8 | 74.8 |

## 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               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

## 4.8. Stationary Emissions By Equipment Type

### 4.8.1. Unmitigated

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

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

## 4.9. User Defined Emissions By Equipment Type

### 4.9.1. Unmitigated

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

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

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

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

## 4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

|             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| —           | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual      | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| —           | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

| Land Use Type                        | Trips/Weekday | Trips/Saturday | Trips/Sunday | Trips/Year | VMT/Weekday | VMT/Saturday | VMT/Sunday | VMT/Year   |
|--------------------------------------|---------------|----------------|--------------|------------|-------------|--------------|------------|------------|
| Gasoline/Service Station             | 2,071         | 2,071          | 2,071        | 755,871    | 37,737      | 37,737       | 37,737     | 13,774,087 |
| Fast Food Restaurant with Drive Thru | 775           | 775            | 775          | 282,872    | 14,123      | 14,123       | 14,123     | 5,154,718  |
| Regional Shopping Center             | 4,406         | 4,406          | 4,406        | 1,608,260  | 80,293      | 80,293       | 80,293     | 29,306,999 |

|                                |      |      |      |       |      |      |      |         |
|--------------------------------|------|------|------|-------|------|------|------|---------|
| Refrigerated Warehouse-No Rail | 20.0 | 20.0 | 20.0 | 7,301 | 720  | 720  | 720  | 262,830 |
| Parking Lot                    | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | 0.00    |

## 5.10. Operational Area Sources

### 5.10.1. Hearths

#### 5.10.1.1. Unmitigated

### 5.10.2. Architectural Coatings

| Residential Interior Area Coated (sq ft) | Residential Exterior Area Coated (sq ft) | Non-Residential Interior Area Coated (sq ft) | Non-Residential Exterior Area Coated (sq ft) | Parking Area Coated (sq ft) |
|------------------------------------------|------------------------------------------|----------------------------------------------|----------------------------------------------|-----------------------------|
| 0                                        | 0.00                                     | 255,737                                      | 85,246                                       | 35,519                      |

### 5.10.3. Landscape Equipment

| Season      | Unit   | Value |
|-------------|--------|-------|
| Snow Days   | day/yr | 0.00  |
| Summer Days | day/yr | 180   |

## 5.11. Operational Energy Consumption

### 5.11.1. Unmitigated

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

| Land Use                             | Electricity (kWh/yr) | CO2 | CH4    | N2O    | Natural Gas (kBtu/yr) |
|--------------------------------------|----------------------|-----|--------|--------|-----------------------|
| Gasoline/Service Station             | 1,955                | 346 | 0.0330 | 0.0040 | 8,792                 |
| Fast Food Restaurant with Drive Thru | 91,980               | 346 | 0.0330 | 0.0040 | 299,732               |
| Regional Shopping Center             | 1,467,976            | 346 | 0.0330 | 0.0040 | 889,612               |

|                                |         |     |        |        |         |
|--------------------------------|---------|-----|--------|--------|---------|
| Refrigerated Warehouse-No Rail | 367,099 | 346 | 0.0330 | 0.0040 | 441,687 |
| Parking Lot                    | 518,575 | 346 | 0.0330 | 0.0040 | 0.00    |

## 5.12. Operational Water and Wastewater Consumption

### 5.12.1. Unmitigated

| Land Use                             | Indoor Water (gal/year) | Outdoor Water (gal/year) |
|--------------------------------------|-------------------------|--------------------------|
| Gasoline/Service Station             | 371,893                 | 0.00                     |
| Fast Food Restaurant with Drive Thru | 796,169                 | 0.00                     |
| Regional Shopping Center             | 11,177,321              | 7,679,792                |
| Refrigerated Warehouse-No Rail       | 3,877,230               | 0.00                     |
| Parking Lot                          | 0.00                    | 0.00                     |

## 5.13. Operational Waste Generation

### 5.13.1. Unmitigated

| Land Use                             | Waste (ton/year) | Cogeneration (kWh/year) |
|--------------------------------------|------------------|-------------------------|
| Gasoline/Service Station             | 15.1             | —                       |
| Fast Food Restaurant with Drive Thru | 30.2             | —                       |
| Regional Shopping Center             | 158              | —                       |
| Refrigerated Warehouse-No Rail       | 15.8             | —                       |
| Parking Lot                          | 0.00             | —                       |

## 5.14. Operational Refrigeration and Air Conditioning Equipment

### 5.14.1. Unmitigated

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

|                                      |                                               |        |       |         |      |      |      |
|--------------------------------------|-----------------------------------------------|--------|-------|---------|------|------|------|
| Fast Food Restaurant with Drive Thru | Household refrigerators and/or freezers       | R-134a | 1,430 | 0.00    | 0.60 | 0.00 | 1.00 |
| Fast Food Restaurant with Drive Thru | Other commercial A/C and heat pumps           | R-410A | 2,088 | 1.80    | 4.00 | 4.00 | 18.0 |
| Fast Food Restaurant with Drive Thru | Walk-in refrigerators and freezers            | R-404A | 3,922 | < 0.005 | 7.50 | 7.50 | 20.0 |
| Regional Shopping Center             | Other commercial A/C and heat pumps           | R-410A | 2,088 | < 0.005 | 4.00 | 4.00 | 18.0 |
| Regional Shopping Center             | Stand-alone retail refrigerators and freezers | R-134a | 1,430 | 0.04    | 1.00 | 0.00 | 1.00 |
| Refrigerated Warehouse-No Rail       | Cold storage                                  | R-404A | 3,922 | 7.50    | 7.50 | 7.50 | 25.0 |

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

| Equipment Type | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor |
|----------------|-----------|-------------|----------------|---------------|------------|-------------|
|----------------|-----------|-------------|----------------|---------------|------------|-------------|

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

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

### 5.16.2. Process Boilers

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

## 5.17. User Defined

| Equipment Type | Fuel Type |
|----------------|-----------|
|----------------|-----------|

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. Biomass Cover Type

5.18.1.1. Unmitigated

| 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) |
|-----------|--------|------------------------------|------------------------------|
|-----------|--------|------------------------------|------------------------------|

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 | 33.6                        | annual days of extreme heat                |
| Extreme Precipitation        | 4.95                        | annual days with precipitation above 20 mm |
| Sea Level Rise               | —                           | meters of inundation depth                 |
| Wildfire                     | 22.7                        | 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 | 4              | 0                 | 0                       | N/A                 |
| Extreme Precipitation        | N/A            | N/A               | N/A                     | N/A                 |
| Sea Level Rise               | N/A            | N/A               | N/A                     | N/A                 |
| Wildfire                     | N/A            | N/A               | N/A                     | N/A                 |
| Flooding                     | N/A            | N/A               | N/A                     | N/A                 |
| Drought                      | 0              | 0                 | 0                       | N/A                 |
| Snowpack Reduction           | N/A            | N/A               | N/A                     | N/A                 |
| Air Quality Degradation      | N/A            | N/A               | N/A                     | N/A                 |

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

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

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

## 6.3. Adjusted Climate Risk Scores

| Climate Hazard               | Exposure Score | Sensitivity Score | Adaptive Capacity Score | Vulnerability Score |
|------------------------------|----------------|-------------------|-------------------------|---------------------|
| Temperature and Extreme Heat | 4              | 1                 | 1                       | 4                   |
| Extreme Precipitation        | N/A            | N/A               | N/A                     | N/A                 |
| Sea Level Rise               | N/A            | N/A               | N/A                     | N/A                 |

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

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

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

| Indicator           | Result for Project Census Tract |
|---------------------|---------------------------------|
| Exposure Indicators | —                               |
| AQ-Ozone            | 91.1                            |
| AQ-PM               | 32.2                            |
| AQ-DPM              | 57.9                            |
| Drinking Water      | 29.7                            |
| Lead Risk Housing   | 13.8                            |
| Pesticides          | 0.00                            |
| Toxic Releases      | 25.0                            |
| Traffic             | 83.1                            |
| Effect Indicators   | —                               |
| CleanUp Sites       | 73.4                            |
| Groundwater         | 0.00                            |

|                                 |      |
|---------------------------------|------|
| Haz Waste Facilities/Generators | 65.9 |
| Impaired Water Bodies           | 0.00 |
| Solid Waste                     | 0.00 |
| Sensitive Population            | —    |
| Asthma                          | 84.6 |
| Cardio-vascular                 | 99.5 |
| Low Birth Weights               | 5.81 |
| Socioeconomic Factor Indicators | —    |
| Education                       | 67.1 |
| Housing                         | 11.2 |
| Linguistic                      | 19.9 |
| Poverty                         | 67.2 |
| Unemployment                    | 82.7 |

## 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          | 66.22610035                     |
| Employed               | 25.70255357                     |
| Median HI              | 56.85871936                     |
| Education              | —                               |
| Bachelor's or higher   | 31.64378288                     |
| High school enrollment | 2.258437059                     |
| Preschool enrollment   | 41.10098807                     |
| Transportation         | —                               |
| Auto Access            | 89.83703323                     |
| Active commuting       | 14.92364943                     |

|                                              |             |
|----------------------------------------------|-------------|
| Social                                       | —           |
| 2-parent households                          | 97.98537149 |
| Voting                                       | 43.48774541 |
| Neighborhood                                 | —           |
| Alcohol availability                         | 89.68304889 |
| Park access                                  | 26.5622995  |
| Retail density                               | 22.41755422 |
| Supermarket access                           | 25.03528808 |
| Tree canopy                                  | 7.25009624  |
| Housing                                      | —           |
| Homeownership                                | 84.70422174 |
| Housing habitability                         | 80.57230848 |
| Low-inc homeowner severe housing cost burden | 56.2941101  |
| Low-inc renter severe housing cost burden    | 70.48633389 |
| Uncrowded housing                            | 64.30129603 |
| Health Outcomes                              | —           |
| Insured adults                               | 59.70742974 |
| Arthritis                                    | 0.6         |
| Asthma ER Admissions                         | 14.5        |
| High Blood Pressure                          | 1.1         |
| Cancer (excluding skin)                      | 0.9         |
| Asthma                                       | 37.3        |
| Coronary Heart Disease                       | 1.0         |
| Chronic Obstructive Pulmonary Disease        | 1.6         |
| Diagnosed Diabetes                           | 6.3         |
| Life Expectancy at Birth                     | 28.4        |
| Cognitively Disabled                         | 58.3        |
| Physically Disabled                          | 16.0        |

|                                       |      |
|---------------------------------------|------|
| Heart Attack ER Admissions            | 1.2  |
| Mental Health Not Good                | 58.7 |
| Chronic Kidney Disease                | 1.3  |
| Obesity                               | 41.7 |
| Pedestrian Injuries                   | 90.6 |
| Physical Health Not Good              | 24.5 |
| Stroke                                | 2.9  |
| Health Risk Behaviors                 | —    |
| Binge Drinking                        | 95.3 |
| Current Smoker                        | 59.6 |
| No Leisure Time for Physical Activity | 48.5 |
| Climate Change Exposures              | —    |
| Wildfire Risk                         | 0.0  |
| SLR Inundation Area                   | 0.0  |
| Children                              | 33.8 |
| Elderly                               | 53.1 |
| English Speaking                      | 52.3 |
| Foreign-born                          | 39.5 |
| Outdoor Workers                       | 27.8 |
| Climate Change Adaptive Capacity      | —    |
| Impervious Surface Cover              | 86.5 |
| Traffic Density                       | 80.1 |
| Traffic Access                        | 23.0 |
| Other Indices                         | —    |
| Hardship                              | 53.1 |
| Other Decision Support                | —    |
| 2016 Voting                           | 53.1 |

### 7.3. Overall Health & Equity Scores

| Metric                                                                              | Result for Project Census Tract |
|-------------------------------------------------------------------------------------|---------------------------------|
| CalEnviroScreen 4.0 Score for Project Location (a)                                  | 52.0                            |
| Healthy Places Index Score for Project Location (b)                                 | 42.0                            |
| Project Located in a Designated Disadvantaged Community (Senate Bill 535)           | No                              |
| Project Located in a Low-Income Community (Assembly Bill 1550)                      | No                              |
| Project Located in a Community Air Protection Program Community (Assembly Bill 617) | No                              |

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

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

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

| Screen                   | Justification                                                                                                                                              |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Land Use                 | Based on site plan.                                                                                                                                        |
| Operations: Vehicle Data | Based on trip generation.                                                                                                                                  |
| Operations: Fleet Mix    | Heavy duty truck to be used for warehouse.                                                                                                                 |
| Operations: Road Dust    | San Bernardino County silt loading factor per CARB's MISCELLANEOUS PROCESS METHODOLOGY 7.9, Entrained Road Travel, Paved Road Dust, updated November 2016. |

# Hesperia Big Box - Construction only for White Fox Road Detailed Report

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8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

| Data Field                  | Value                                                   |
|-----------------------------|---------------------------------------------------------|
| Project Name                | Hesperia Big Box - Construction only for White Fox Road |
| Construction Start Date     | 8/4/2026                                                |
| Lead Agency                 | —                                                       |
| Land Use Scale              | Project/site                                            |
| Analysis Level for Defaults | County                                                  |
| Windspeed (m/s)             | 2.80                                                    |
| Precipitation (days)        | 1.40                                                    |
| Location                    | 34.43048695480013, -117.38119886986266                  |
| County                      | San Bernardino-Mojave Desert                            |
| City                        | Hesperia                                                |
| Air District                | Mojave Desert AQMD                                      |
| Air Basin                   | Mojave Desert                                           |
| TAZ                         | 5106                                                    |
| EDFZ                        | 10                                                      |
| Electric Utility            | Southern California Edison                              |
| Gas Utility                 | Southwest Gas Corp.                                     |
| App Version                 | 2022.1.1.29                                             |

## 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 |
|-------------------|------|------|-------------|-----------------------|------------------------|--------------------------------|------------|-------------|
| Road Construction | 0.24 | Mile | 0.00        | 0.00                  | 0.00                   | —                              | —          | —           |

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.1. Construction Emissions Compared Against Thresholds

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

| Un/Mit.             | TOG  | ROG  | NOx  | CO   | SO2     | PM10E   | PM10D   | PM10T | PM2.5E  | PM2.5D  | PM2.5T  | BCO2 | NBCO2 | CO2T  | CH4     | N2O     | R       | CO2e  |
|---------------------|------|------|------|------|---------|---------|---------|-------|---------|---------|---------|------|-------|-------|---------|---------|---------|-------|
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —       | —       | —     | —       | —       | —       | —    | —     | —     | —       | —       | —       | —     |
| Unmit.              | 0.64 | 0.54 | 4.65 | 7.84 | 0.01    | 0.19    | 0.16    | 0.36  | 0.18    | 0.04    | 0.22    | —    | 1,225 | 1,225 | 0.05    | 0.01    | 0.61    | 1,231 |
| Average Daily (Max) | —    | —    | —    | —    | —       | —       | —       | —     | —       | —       | —       | —    | —     | —     | —       | —       | —       | —     |
| Unmit.              | 0.07 | 0.06 | 0.51 | 0.83 | < 0.005 | 0.02    | 0.02    | 0.04  | 0.02    | < 0.005 | 0.02    | —    | 132   | 132   | < 0.005 | < 0.005 | 0.03    | 133   |
| Annual (Max)        | —    | —    | —    | —    | —       | —       | —       | —     | —       | —       | —       | —    | —     | —     | —       | —       | —       | —     |
| Unmit.              | 0.01 | 0.01 | 0.09 | 0.15 | < 0.005 | < 0.005 | < 0.005 | 0.01  | < 0.005 | < 0.005 | < 0.005 | —    | 21.9  | 21.9  | < 0.005 | < 0.005 | < 0.005 | 22.0  |

### 2.2. Construction Emissions by Year, Unmitigated

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

| Year                 | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R    | CO2e  |
|----------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|------|-------|
| Daily - Summer (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| 2026                 | 0.64 | 0.54 | 4.65 | 7.84 | 0.01 | 0.19  | 0.16  | 0.36  | 0.18   | 0.04   | 0.22   | —    | 1,225 | 1,225 | 0.05 | 0.01 | 0.61 | 1,231 |
| Daily - Winter (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Average Daily        | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |

|        |      |      |      |      |         |         |         |      |         |         |         |   |      |      |         |         |         |      |
|--------|------|------|------|------|---------|---------|---------|------|---------|---------|---------|---|------|------|---------|---------|---------|------|
| 2026   | 0.07 | 0.06 | 0.51 | 0.83 | < 0.005 | 0.02    | 0.02    | 0.04 | 0.02    | < 0.005 | 0.02    | — | 132  | 132  | < 0.005 | < 0.005 | 0.03    | 133  |
| Annual | —    | —    | —    | —    | —       | —       | —       | —    | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| 2026   | 0.01 | 0.01 | 0.09 | 0.15 | < 0.005 | < 0.005 | < 0.005 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 21.9 | 21.9 | < 0.005 | < 0.005 | < 0.005 | 22.0 |

### 3. Construction Emissions Details

#### 3.1. Paving (2026) - Unmitigated

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

| Location            | TOG  | ROG  | NOx  | CO   | SO2     | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4     | N2O     | R    | CO2e  |
|---------------------|------|------|------|------|---------|-------|-------|-------|--------|--------|--------|------|-------|-------|---------|---------|------|-------|
| Onsite              | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —       | —       | —    | —     |
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.57 | 0.48 | 4.59 | 6.88 | 0.01    | 0.19  | —     | 0.19  | 0.18   | —      | 0.18   | —    | 1,046 | 1,046 | 0.04    | 0.01    | —    | 1,049 |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —       | —       | —    | —     |
| Average Daily       | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.06 | 0.05 | 0.50 | 0.75 | < 0.005 | 0.02  | —     | 0.02  | 0.02   | —      | 0.02   | —    | 115   | 115   | < 0.005 | < 0.005 | —    | 115   |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Annual              | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —       | —       | —    | —     |

|                     |         |         |         |      |         |         |         |         |         |         |         |   |      |      |         |         |         |      |
|---------------------|---------|---------|---------|------|---------|---------|---------|---------|---------|---------|---------|---|------|------|---------|---------|---------|------|
| Off-Road Equipment  | 0.01    | 0.01    | 0.09    | 0.14 | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | —       | < 0.005 | — | 19.0 | 19.0 | < 0.005 | < 0.005 | —       | 19.0 |
| Onsite truck        | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Offsite             | —       | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Daily, Summer (Max) | —       | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | 0.07    | 0.06    | 0.05    | 0.96 | 0.00    | 0.00    | 0.16    | 0.16    | 0.00    | 0.04    | 0.04    | — | 179  | 179  | 0.01    | 0.01    | 0.61    | 181  |
| Vendor              | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Hauling             | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Daily, Winter (Max) | —       | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Average Daily       | —       | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | 0.01    | 0.01    | 0.01    | 0.08 | 0.00    | 0.00    | 0.02    | 0.02    | 0.00    | < 0.005 | < 0.005 | — | 17.9 | 17.9 | < 0.005 | < 0.005 | 0.03    | 18.1 |
| Vendor              | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Hauling             | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Annual              | —       | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | — | 2.96 | 2.96 | < 0.005 | < 0.005 | < 0.005 | 3.00 |
| Vendor              | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Hauling             | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |

## 4. Operations Emissions Details

### 4.10. Soil Carbon Accumulation By Vegetation Type

#### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

| Vegetati            | 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,<br>Summer<br>(Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided                   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequest<br>ered           | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Remove<br>d               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| —                         | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily,<br>Winter<br>(Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided                   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequest<br>ered           | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Remove<br>d               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| —                         | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual                    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided                   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequest<br>ered           | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Remove<br>d               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

|          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 |
|------------|----------------|------------|-----------|---------------|---------------------|-------------------|
| Paving     | Linear, Paving | 8/4/2026   | 9/28/2026 | 5.00          | 40.0                | —                 |

### 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 |
|------------|----------------------------|-----------|-------------|----------------|---------------|------------|-------------|
| Paving     | Pavers                     | Diesel    | Average     | 1.00           | 8.00          | 81.0       | 0.42        |
| Paving     | Paving Equipment           | Diesel    | Average     | 1.00           | 8.00          | 89.0       | 0.36        |
| Paving     | Rollers                    | Diesel    | Average     | 1.00           | 8.00          | 36.0       | 0.38        |
| Paving     | Signal Boards              | Electric  | Average     | 1.00           | 8.00          | 6.00       | 0.82        |
| Paving     | Tractors/Loaders/Back hoes | Diesel    | Average     | 1.00           | 8.00          | 84.0       | 0.37        |

### 5.3. Construction Vehicles

#### 5.3.1. Unmitigated

| Phase Name | Trip Type | One-Way Trips per Day | Miles per Trip | Vehicle Mix   |
|------------|-----------|-----------------------|----------------|---------------|
| Paving     | —         | —                     | —              | —             |
| Paving     | Worker    | 12.5                  | 18.5           | LDA,LDT1,LDT2 |
| Paving     | Vendor    | 0.00                  | 10.2           | HHDT,MHDT     |
| Paving     | Hauling   | 0.00                  | 20.0           | HHDT          |

|        |              |   |   |      |
|--------|--------------|---|---|------|
| Paving | 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) |
|------------|------------------------------------------|------------------------------------------|----------------------------------------------|----------------------------------------------|-----------------------------|
|------------|------------------------------------------|------------------------------------------|----------------------------------------------|----------------------------------------------|-----------------------------|

## 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) |
|------------|------------------------|------------------------|----------------------|-------------------------------|---------------------|
|------------|------------------------|------------------------|----------------------|-------------------------------|---------------------|

### 5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

## 5.7. Construction Paving

| Land Use          | Area Paved (acres) | % Asphalt |
|-------------------|--------------------|-----------|
| Road Construction | 0.00               | 100%      |

## 5.8. Construction Electricity Consumption and Emissions Factors

### kWh per Year and Emission Factor (lb/MWh)

| Year | kWh per Year | CO2 | CH4  | N2O     |
|------|--------------|-----|------|---------|
| 2026 | 29.4         | 532 | 0.03 | < 0.005 |

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. Biomass Cover Type

5.18.1.1. Unmitigated

| 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) |
|-----------|--------|------------------------------|------------------------------|
|-----------|--------|------------------------------|------------------------------|

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 | 33.6                        | annual days of extreme heat                |
| Extreme Precipitation        | 4.95                        | annual days with precipitation above 20 mm |
| Sea Level Rise               | —                           | meters of inundation depth                 |
| Wildfire                     | 22.7                        | 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 | 4              | 0                 | 0                       | N/A                 |
| Extreme Precipitation        | N/A            | N/A               | N/A                     | N/A                 |
| Sea Level Rise               | N/A            | N/A               | N/A                     | N/A                 |
| Wildfire                     | N/A            | N/A               | N/A                     | N/A                 |
| Flooding                     | N/A            | N/A               | N/A                     | N/A                 |
| Drought                      | 0              | 0                 | 0                       | N/A                 |
| Snowpack Reduction           | N/A            | N/A               | N/A                     | N/A                 |
| Air Quality Degradation      | N/A            | N/A               | N/A                     | N/A                 |

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

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

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

## 6.3. Adjusted Climate Risk Scores

| Climate Hazard               | Exposure Score | Sensitivity Score | Adaptive Capacity Score | Vulnerability Score |
|------------------------------|----------------|-------------------|-------------------------|---------------------|
| Temperature and Extreme Heat | 4              | 1                 | 1                       | 4                   |
| Extreme Precipitation        | N/A            | N/A               | N/A                     | N/A                 |
| Sea Level Rise               | N/A            | N/A               | N/A                     | N/A                 |

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

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

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

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

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

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

| Indicator           | Result for Project Census Tract |
|---------------------|---------------------------------|
| Exposure Indicators | —                               |
| AQ-Ozone            | 91.1                            |
| AQ-PM               | 32.2                            |
| AQ-DPM              | 57.9                            |
| Drinking Water      | 29.7                            |
| Lead Risk Housing   | 13.8                            |
| Pesticides          | 0.00                            |
| Toxic Releases      | 25.0                            |
| Traffic             | 83.1                            |
| Effect Indicators   | —                               |
| CleanUp Sites       | 73.4                            |
| Groundwater         | 0.00                            |

|                                 |      |
|---------------------------------|------|
| Haz Waste Facilities/Generators | 65.9 |
| Impaired Water Bodies           | 0.00 |
| Solid Waste                     | 0.00 |
| Sensitive Population            | —    |
| Asthma                          | 84.6 |
| Cardio-vascular                 | 99.5 |
| Low Birth Weights               | 5.81 |
| Socioeconomic Factor Indicators | —    |
| Education                       | 67.1 |
| Housing                         | 11.2 |
| Linguistic                      | 19.9 |
| Poverty                         | 67.2 |
| Unemployment                    | 82.7 |

## 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          | 66.22610035                     |
| Employed               | 25.70255357                     |
| Median HI              | 56.85871936                     |
| Education              | —                               |
| Bachelor's or higher   | 31.64378288                     |
| High school enrollment | 2.258437059                     |
| Preschool enrollment   | 41.10098807                     |
| Transportation         | —                               |
| Auto Access            | 89.83703323                     |
| Active commuting       | 14.92364943                     |

|                                              |             |
|----------------------------------------------|-------------|
| Social                                       | —           |
| 2-parent households                          | 97.98537149 |
| Voting                                       | 43.48774541 |
| Neighborhood                                 | —           |
| Alcohol availability                         | 89.68304889 |
| Park access                                  | 26.5622995  |
| Retail density                               | 22.41755422 |
| Supermarket access                           | 25.03528808 |
| Tree canopy                                  | 7.25009624  |
| Housing                                      | —           |
| Homeownership                                | 84.70422174 |
| Housing habitability                         | 80.57230848 |
| Low-inc homeowner severe housing cost burden | 56.2941101  |
| Low-inc renter severe housing cost burden    | 70.48633389 |
| Uncrowded housing                            | 64.30129603 |
| Health Outcomes                              | —           |
| Insured adults                               | 59.70742974 |
| Arthritis                                    | 0.6         |
| Asthma ER Admissions                         | 14.5        |
| High Blood Pressure                          | 1.1         |
| Cancer (excluding skin)                      | 0.9         |
| Asthma                                       | 37.3        |
| Coronary Heart Disease                       | 1.0         |
| Chronic Obstructive Pulmonary Disease        | 1.6         |
| Diagnosed Diabetes                           | 6.3         |
| Life Expectancy at Birth                     | 28.4        |
| Cognitively Disabled                         | 58.3        |
| Physically Disabled                          | 16.0        |

|                                       |      |
|---------------------------------------|------|
| Heart Attack ER Admissions            | 1.2  |
| Mental Health Not Good                | 58.7 |
| Chronic Kidney Disease                | 1.3  |
| Obesity                               | 41.7 |
| Pedestrian Injuries                   | 90.6 |
| Physical Health Not Good              | 24.5 |
| Stroke                                | 2.9  |
| Health Risk Behaviors                 | —    |
| Binge Drinking                        | 95.3 |
| Current Smoker                        | 59.6 |
| No Leisure Time for Physical Activity | 48.5 |
| Climate Change Exposures              | —    |
| Wildfire Risk                         | 0.0  |
| SLR Inundation Area                   | 0.0  |
| Children                              | 33.8 |
| Elderly                               | 53.1 |
| English Speaking                      | 52.3 |
| Foreign-born                          | 39.5 |
| Outdoor Workers                       | 27.8 |
| Climate Change Adaptive Capacity      | —    |
| Impervious Surface Cover              | 86.5 |
| Traffic Density                       | 80.1 |
| Traffic Access                        | 23.0 |
| Other Indices                         | —    |
| Hardship                              | 53.1 |
| Other Decision Support                | —    |
| 2016 Voting                           | 53.1 |

### 7.3. Overall Health & Equity Scores

| Metric                                                                              | Result for Project Census Tract |
|-------------------------------------------------------------------------------------|---------------------------------|
| CalEnviroScreen 4.0 Score for Project Location (a)                                  | 52.0                            |
| Healthy Places Index Score for Project Location (b)                                 | 42.0                            |
| Project Located in a Designated Disadvantaged Community (Senate Bill 535)           | No                              |
| Project Located in a Low-Income Community (Assembly Bill 1550)                      | No                              |
| Project Located in a Community Air Protection Program Community (Assembly Bill 617) | No                              |

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

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

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

| Screen                            | Justification                                                                                      |
|-----------------------------------|----------------------------------------------------------------------------------------------------|
| Construction: Construction Phases | Construction start and end dates are assumed to be the same as the paving phase for retail center. |
| Construction: Off-Road Equipment  | Based on the assumption.                                                                           |