APPENDIX 3.6-A: WATER USE AND ENERGY ANALYSIS TECHNICAL APPENDIX

California High-Speed Rail Authority

Los Angeles to Anaheim Project Section

Draft
Project Environmental Impact Report/ Environmental Impact Statement

Appendix 3.6-A
Water Use and Energy Analysis Technical Appendix

December 2025



CALIFORNIA High-Speed Rail Authority

The environmental review, consultation, and other actions required by applicable federal environmental laws for this project are being or have been carried out by the State of California pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated July 22, 2024, and executed by the Federal Railroad Administration and the State of California.

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ACRONYMS AND ABBREVIATIONS

Term	Definition
AFY	acre-feet per year
ARTIC	Anaheim Regional Transportation Intermodal Center
Authority	California High-Speed Rail Authority
FU	Fixture Unit
HSR	High-Speed Rail
LMF	light maintenance facility
Metro	Los Angeles County Metropolitan Transportation Authority
project section	Los Angeles to Anaheim Project Section

APPENDIX 3.6-A: WATER USE AND ENERGY ANALYSIS TECHNICAL APPENDIX

3.6-A.1 Executive Summary

This appendix presents methodologies, analysis, and evaluation of anticipated water usage requirements for both the construction and operation of Shared Passenger Track Alternatives A and B for the Los Angeles to Anaheim Project Section (project section) of the California High-Speed Rail (HSR) System. This appendix also identifies current water usage at the proposed project stations, as well as likely water supply sources to meet the anticipated HSR water demand for this project section.

The project section is approximately 30 miles long, crossing the cities of Los Angeles, Vernon, Bell, Commerce, Montebello, Pico Rivera, Santa Fe Springs, Norwalk, La Mirada, Buena Park, Fullerton, and Anaheim, as well as the unincorporated area of Los Angeles County known as West Whittier.

Relevant sections of pertinent HSR reports, including the *Preliminary Engineering for Project Definition* (Authority 2025), were reviewed to identify facilities that would have substantial water demand requirements. Based on this review, facilities that would require substantial water demand include the proposed station at Anaheim Regional Transportation Intermodal Center (ARTIC) and station options at Norwalk/Santa Fe Springs and Fullerton, as well as the 15th Street and 26th Street light maintenance facilities (LMF). These facilities are identified in addition to the overall construction water that would be required for grade separations, track work, and separating walls that would be built throughout the 30-mile rail corridor.

Water usage factors and estimated usage rates were identified for the project as summarized in the attached tables (provided in Attachment A) and as detailed below. These water usage factors were used to estimate the future water demand for construction activities, as well as operation and maintenance at final build-out. Existing water usage was also evaluated for the project footprint. The existing water usage estimates were then compared with the future estimated demand. This comparison indicates that construction of the project section would result in a net decrease in annual water usage for the area affected by the construction of the track and associated facilities compared to existing conditions when annualized over a 5-year construction period. Water usage would decrease within the project footprint based on water usage factors obtained from the Palmdale Water District's 2016 *Water System Master Plan* (Palmdale Water District 2016) and the Los Angeles Department of Water and Power's *Urban Water Management Plan* (LADWP 2016). Water demand factors under the *Water System Master Plan* and *Urban Water Management Plan* were developed using consumption data, general plan land use information, and vacant/undeveloped parcel information for their service areas, and most accurately represent the existing water demand requirements for the study area. This decrease in water usage is primarily because of the shift in land use from industrial, commercial, and residential to transportation.

3.6-A.2 Background

The California High-Speed Rail Authority (Authority), a state governing board formed in 1996, has responsibility for planning, designing, building, and operating the HSR system. When completed, the HSR project would provide intercity HSR service on more than 800 miles of tracks throughout California, connecting the major population centers of Sacramento, the San Francisco Bay Area, the Central Valley, Los Angeles, the Inland Empire, Orange County, and San Diego.

Phase 1 of the HSR system refers to the 520-mile San Francisco/Merced to Los Angeles/ Anaheim section of the program approved by California voters in Proposition 1A in 2008, and Phase 2 refers to future program extensions from Merced to Sacramento and from Los Angeles to San Diego via the Inland Empire that would complete the 800 miles of the system, including the Los Angeles to Anaheim Project Section.

The California HSR System is divided into nine sections. The Los Angeles to Anaheim Project Section, depicted on Figure 3.6-A-1 (Attachment B), would connect to the Burbank to Los Angeles Project Section to the north. The Los Angeles to Anaheim Project Section is approximately 30 miles long, crossing the cities of Los Angeles, Vernon, Bell, Commerce, Montebello, Pico Rivera, Santa Fe Springs, Norwalk, La Mirada, Buena Park, Fullerton, and Anaheim, as well as the unincorporated area of Los Angeles County known as West Whittier.

Major features of the project section include the tracks and associated rights-of-way, maintenance facilities, and stations.

3.6-A.3 Methodology and Results

This analysis consisted of the following steps:

1. Review of existing relevant information, reports, and documents to identify project features and activities that would require substantial water usage during both project construction and operation of the Shared Passenger Track Alternatives.
2. Determination of existing water usage within the footprint of the proposed HSR system that would be built and operated. Parcel land use information was identified, and then specific water usage rates developed from recent data for the identified land use were applied.
3. Development of water demand estimates for both project construction and long-term operation. The water demand estimate for construction is annualized over a 5-year period and the annual operational water usage estimate is based on full build-out in 2040.
4. Identification of available existing water supply and additional water supply sources, if needed, to provide the required water to each project component feature during both construction and long-term operation.

A more detailed description of the approach for each step is provided below.

3.6-A.3.1 Identification of Project Features with Substantial Water Usage

Relevant project documents were reviewed to identify project activities and facilities that would have substantial water demand requirements. Based on this review, construction of the track elements would require water usage; however, water usage would be temporary and would cease after construction is completed. The HSR stations and maintenance facilities would, however, require water for both construction and operation.

The project incorporates modifications to the Metrolink stations at Norwalk/Santa Fe Springs and Fullerton Transportation Center. This includes modifications to the existing facilities and platforms, construction of parking lots, and other related infrastructure. This work may include stairs, escalators, elevators, surface parking lots, and pick-up/drop-off locations.

The project section would be served by ARTIC, and includes one optional HSR station in either Norwalk/Santa Fe Springs or Fullerton (Figure 3.6-A-1). The work at ARTIC includes construction of station, platform, and parking infrastructure. If selected for development, construction of the HSR station option would require HSR platforms, facilities, parking, and other infrastructure.

3.6-A.3.2 Estimating Existing Water Usage

Parcels of land within the project footprint were analyzed for their land use to create estimates for existing water usage. These estimates create a baseline to which the project impacts can be compared.

3.6-A.3.2.1 Existing Water Demand

The proposed station sites are currently supplied with treated municipal water from their respective city water or water and power companies. The project would be in areas covered by the respective cities' water management plans, which do not contain land use water usage factors. In the absence of water demand factors from these districts, an alternate method was considered when determining the existing water demand in the project footprint.

Palmdale Water District Water Use Factors

Given that the urban water management plans for the cities in the study area do not contain land use-based water usage factors and that the three station sites are in a similar climate to that of Palmdale, water usage factors from the Palmdale *Urban Water Management Plan* were applied to estimate existing water usage for the project. The project area tends to experience annual precipitation higher than that of Palmdale (i.e., Palmdale receives 7.4 inches of annual precipitation compared to Los Angeles with 18.63 inches [U.S. Climate Data 2023a, 2023b]). Therefore, using these factors of water usage for the project would provide conservative estimates for the effects of existing water usage.

To estimate the existing water usage for the project, the permanent impact footprint was overlain on parcel data from the Southern California Association of Governments to identify affected existing land use classifications. Water usage factors from the Palmdale Water District's 2016 *Water System Master Plan* (Palmdale Water District 2016) were applied to each affected land use classification to estimate current water usage for the project. The Palmdale Water District's 2016 *Water System Master Plan* provides land use-based water demand factors for low-density residential, medium-density residential, high-density residential, commercial, industrial, public, nonrecreational open space, and unknown uses. For the purpose of conservatively estimating existing water usage, the medium-density residential factor of 3,310 gallons per day per acre (3.7 acre-feet per acre per year) was selected to apply to residential land uses, including "Mixed Residential/Commercial," "Mobile Homes," "Multifamily Residential," and "Single-Family Residential." No water usage factors were available for the small acreage of "Open Space/Recreation" (3.8 acres) land uses, so the "Public" water use factor of 2,500 gallons per day per acre (2.80 acre-feet per acre per year) was applied. The industrial factor of 1,070 gallons per day was used for land uses designated as "Facilities," and the commercial factor of 1,260 gallons per day was used for land uses designated as "Commercial, Services, and Offices" and "Industrial and Mixed Commercial." For land uses designated as "Vacant," "Undevelopable," and "None," including acreage attributed to roadways, water usage was considered to be nonexistent on the parcel. For "Transportation, Communications, and Utilities," the "Unknown" water use factor of 330 gallons per day per acre (0.37 acre-foot per acre per year) was deemed to be most relevant among the Palmdale water usage factors and applied to the analysis.

The choice of "Unknown" for the portion of land use in the project section under "Transportation, Communications, and Utilities" is consistent with other project sections of the HSR system where the Palmdale Water District Water Use Factors were similarly used to estimate water usage based on land use. The areas included under "Transportation, Communications, and Utilities" include utility easements, train depots, storage, and other uses that vary widely for their purposes and water consumption. Without consistent and calculable water usage throughout this portion of the project corridor, the "Unknown" metric was deemed the most relevant and applicable of the available water usage metrics. The use of either the "Industrial" or "Public" water usage factors would have resulted in a vast overestimation of water usage within railroad/utility properties.

Table 3.6-A-1 presents the water usage factors applied to the project footprint, broken out by city. Total acreage affected by the project footprint in the project section would be approximately 756 acres.

When applying the water usage factors from the Palmdale *Urban Water Management Plan*, the total existing annual water usage rate for the project footprint was calculated to be approximately 729 acre-feet per year (AFY).

3.6-A.3.3 Estimating Future Water Demand Requirements for the Los Angeles to Anaheim Project Section

3.6-A.3.3.1 Construction Water Demand

The process for estimating the water demand related to construction of the project is summarized below:

- Identify the construction footprint for the project

- Identify the different construction components associated with project construction that require water:
  - Manufacturing of concrete
  - Earthwork and soil conditioning
  - Dust suppression
  - Landscaping and irrigation
  - Tunnel excavation

Water usage estimates were developed for project construction based on engineer estimates used for the *Fresno to Bakersfield Section Final Environmental Impact Report/Environmental Impact Statement* (Authority and FRA 2014). This is discussed in more detail in Section 3.6-A.3.5.1, Water Supply to Serve Construction. The total construction period for the project section is estimated to span 8 years, but construction water use is only anticipated to span 5 years, because the remaining time would be used for testing and other preparations before formal operation can begin.

The construction water demand calculations are summarized in Table 3.6-A-2.

3.6-A.3.3.2 Operational Water Demand

This section describes the relevant information and assumptions used to estimate the future water demand for the Shared Passenger Track Alternatives. Water demand estimates were developed for operation and maintenance at final build-out. Data tables summarizing key facility information and water demand estimates are included at the end of this appendix (Table 3.6-A-3, Table 3.6-A, and Table 3.6-A).

The process followed in estimating water demand for the operation of each facility is summarized below:

- Identify facilities requiring water usage
- Determine water usage factors for each facility, including:
  - Size/footprint of buildings and overall site areas
  - Passenger/employee use for each facility
  - Facility functions and operation and maintenance requirements
- Determine appropriate water usage factors
- Apply factors and estimate total water demand

Operational water usage factors were identified for the different facilities by obtaining information from similar facilities. The different water usage factors were compared, and the most appropriate annual water usage rate was selected based on criteria described below. The water usage factors and estimated future operational water demand for each facility are summarized in Table 3.6-A-3 and Table 3.6-A.

Existing water use at Los Angeles Union Station is outside the project footprint and was evaluated in the Burbank to Los Angeles Project Section Environmental Impact Report/Environmental Impact Statement. As such, it is not discussed further in this analysis.

Station Facilities Water Estimation

Water at station facilities would be required for cleaning, restrooms, and public consumption. Because the railway is in an industrial area with limited vegetation presence, water use for vegetation would be minimal and was not included in operational water estimates.

Operational water usage estimates for ARTIC and the HSR station option at Norwalk/Santa Fe Springs or Fullerton were based on HSR passengers and engineering estimates. This entailed applying 5 gallons per passenger per day use factors to the estimated number of passengers. Table 3.6-A presents the estimated number of HSR passengers and the estimated operational water usage for ARTIC and the Norwalk/Santa Fe Springs HSR Station Option and Fullerton HSR Station Option.

Estimated future demand for the stations to support HSR operations is 99.3 AFY at ARTIC, 42.0 AFY at the Norwalk/Santa Fe Springs HSR Station Option, and 41.7 AFY at the Fullerton HSR Station Option.

Light Maintenance Facility Water Estimation

Water would be used at LMFs for train washing, maintenance, employee requirements, and other uses.

To estimate future operational water use at the 15th Street and 26th Street LMFs, wastewater generation estimates from District No. 2 of the Sanitation Districts of Los Angeles County were used. Wastewater generation is given as gallons per day per each 1,000 square feet of particular land use classes. The "light manufacturing" generation rate was applied to the LMFs.

These rates were multiplied by the square footage of each LMF to find total wastewater generation per day. Because wastewater is about 50 percent of total water use, wastewater generation was then doubled to obtain a daily water use value. The square footage estimates for the LMFs were provided by the Authority in the *Preliminary Engineering for Project Definition* (Authority 2025).

Table 3.6-A-3 presents the wastewater generation rates applied to the 26th Street and 15th Street LMFs. The total area of the 26th Street LMF is approximately 2,178,000 square feet, or 49 acres. When applying the wastewater generation rates to this area, total daily wastewater generation is 64,359.9 gallons per day, which means water use is 128,719.8 gallons per day, or 144.2 AFY. The total area of the 15th Street LMF is approximately 2,265,120 square feet, or 52 acres. When applying the wastewater generation rates to this area, total daily wastewater generation is 66,930.75 gallons per day, which means water use is 133,861.5 gallons per day, or 149.9 AFY.

3.6-A.3.4 Comparison of Existing Water Usage to Estimated Future Demand

Table 3.6-A provides a summary of all water demand for the project footprint as it currently exists and during the construction and operational phases of the project. The table also compares the estimated existing water usage at the project footprint to the estimated maximum future water demand for the proposed HSR facilities to demonstrate the greatest potential change in water demand.

3.6-A.3.5 Water Supply Sources

3.6-A.3.5.1 Water Supply to Serve Construction

Engineers estimated the amount of water needed to build the project. The amount of water estimated to be used during construction included estimates for concrete work, earthwork, and dust control, demolition, and trench construction and excavation for the project (Table 3.6-A-2).

Construction activities would use water to prepare concrete, optimize soil compaction, control dust from earthwork and demolition activities, and reseed and establish vegetation in disturbed areas. Total water needed to build the Shared Passenger Track Alternatives A and B is 453.2 acre-feet and 457.4 acre-feet, respectively. This is equivalent to 90.7 and 91.5 AFY for Shared Passenger Track Alternatives A and B, respectively, over the 5-year construction period. With the Norwalk/Santa Fe Springs HSR Station Option, an additional 26.7 acre-feet total, or 5.3 AFY, would be required for construction. With the Fullerton HSR Station Option, an additional 27.3 acre-feet total, or 5.5 AFY, would be required for construction. Table 3.6-A-2 includes the estimated total annualized water used for construction of the alternatives and HSR station options.

3.6-A.3.5.2 Water Supply Sources for Operation of the Los Angeles to Anaheim Project Section and Facilities

The 15th Street and 26th Street LMFs, Norwalk/Santa Fe Springs Station, Fullerton Station, and ARTIC are currently served by their respective municipal water supply agencies. It is anticipated that the stations would connect to the existing municipal systems. Water supply assessments are

required (Senate Bills 221 and 610) for developments of more than 500 homes (which is equivalent to 250 AFY). Initial calculations for the Shared Passenger Track Alternatives indicate that water use at stations for the alternatives is expected to require less than 250 AFY; however, the project would exceed 250 AFY if one of the HSR station options at Norwalk/Santa Fe Springs or Fullerton were chosen for development. Recent analysis from Los Angeles Department of Water and Power indicate that water should be available during the project's construction and operational phases. However, because water suppliers cannot verify water supplies for the full operational life of the project, water supply needs to be monitored to ensure successful operation of the project. Further coordination with water suppliers is needed to confirm they can meet the water demand from the Shared Passenger Track Alternatives. Detailed water supply analyses done at regular intervals will be required to ensure the chosen alternative can secure enough water from suppliers for the resource study area under all conditions.

3.6-A.4 Conclusions

In summation, the current annual water usage for locations displaced by the project is greater than the water usage needs for project-related construction in the same area. It is important to note that construction water demand is not a continuous flow demand by the supplier, and water usage is often sporadic and a function of particular construction activities occurring at the time.

Operation and maintenance of the HSR system at final build-out would additionally result in a net decrease in water usage, with the project being approximately 33 to 40 percent of the current water usage, depending on the alternative chosen and whether a station option is added. Table 3.6-A summarizes the total water used for construction and operation of the project compared to the existing condition.

Because both construction and operational water use is primarily concentrated at the LMFs, stations, and HSR station options, the overall water use throughout the land incorporated into the right-of-way is anticipated to decrease. Properties with other designated land uses would be converted to railroad/utility uses and their former water use estimates would be replaced with any uses related to construction or operation of the project. Although water usage may be more intensive in areas where there was no water usage previously, the overall water usage would decrease when averaged over the project acres (between approximately 740 and 790 acres, depending on the alternative and any HSR station options) that would have permanent land use changes for the project.

Despite the anticipated decrease overall during both the construction and operational phases, additional water analysis will be required for the project section. With rapidly and yearly changing climate conditions, the unpredictability of water supply in Southern California, and lack of absolute certainty around future water resource availability, it is not guaranteed that supplies would be available to serve the construction period or the full operational life of the project. Water supply analyses that describe, in detail, the minimum adequate water supply for the resource study area during all conditions based on a more detailed project design would be required to ensure that the chosen alternative could secure water from suppliers in Los Angeles and Orange Counties. Repeated water analyses that assess resource availability for the entire resource study area are recommended to ensure successful and uninterrupted construction and operation of the project in the face of changing water supplies.

3.6-A.5 References

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ATTACHMENT A: TABLES

Table 3.6-A-1 Existing Water Demand Estimates Based on Land Use Types within the Project Footprint (Using Palmdale Water District Factors)

Existing Land Use Category	Land Use Type within Project Footprint (ac)	Percentage	Water Usage Factors (gpd/ac)[1]	Water Usage Factors (ac-ft/ac)[1]	Annual Water Usage (ac-ft/ac/year)	Annual Water Usage (AFY)
Shared Passenger Track Alternative A*						
Commercial[2]	279.85	37.77%	1,260.00	0	1.41	394.59
Industrial[3]	15.11	2.04%	1,070.00	0	1.2	18.14
Residential[4]	2.57	0.35%	3,310.00	0.01	3.71	9.54
Public[5]	0.43	0.06%	2,500.00	0.01	2.8	1.21
Unknown[6]	308.61	41.65%	330	0	0.37	114.19
Vacant[7]	134.37	18.14%	0	0	0	0.00
Total (ac)	740.96	100.00%	--	--	--	537.67
Shared Passenger Track Alternative B*						
Commercial[2]	318.43	40.34%	1,260.00	0	1.41	448.99
Industrial[3]	15.11	1.91%	1,070.00	0	1.2	18.14
Residential[4]	2.44	0.31%	3,310.00	0.01	3.71	9.05
Public[5]	0.43	0.05%	2,500.00	0.01	2.8	1.21
Unknown[6]	317.00	40.16%	330	0	0.37	117.29
Vacant[7]	135.96	17.22%	0	0	0	0.00
Total (ac)	789.37	100.00%	--	--	--	594.68
26th St Light Maintenance Facility*						
Commercial[2]	19.25	74.99%	1,260.00	0	1.41	27.15
Industrial[3]	0.00	0.00%	1,070.00	0	1.2	0.00
Residential[4]	0.00	0.00%	3,310.00	0.01	3.71	0.00
Public[5]	0.00	0.00%	2,500.00	0.01	2.8	0.00
Unknown[6]	5.84	22.76%	330	0	0.37	2.16
Vacant[7]	0.58	2.25%	0	0	0	0.00

Existing Land Use Category	Land Use Type within Project Footprint (ac)	Percentage	Water Usage Factors (gpd/ac)[1]	Water Usage Factors (ac-ft/ac)[1]	Annual Water Usage (ac-ft/ac/year)	Annual Water Usage (AFY)
Total (ac)	25.68	100.00%	--	--	--	29.31
15th St Light Maintenance Facility*						
Commercial[2]	38.83	78.51%	1,260.00	0	1.41	54.76
Industrial[3]	0.00	0.00%	1,070.00	0	1.2	0.00
Residential[4]	0.00	0.00%	3,310.00	0.01	3.71	0.00
Public[5]	0.00	0.00%	2,500.00	0.01	2.8	0.00
Unknown[6]	8.34	16.86%	330	0	0.37	3.09
Vacant[7]	2.29	4.63%	0	0	0	0.00
Total (ac)	49.47	100.00%	--	--	--	57.84
Anaheim Regional Transportation Intermodal Center*						
Commercial[2]	6.83	78.17%	1,260.00	0	1.41	9.64
Industrial[3]	0.00	0.00%	1,070.00	0	1.2	0.00
Residential[4]	0.00	0.00%	3,310.00	0.01	3.71	0.00
Public[5]	0.00	0.00%	2,500.00	0.01	2.8	0.00
Unknown[6]	1.69	19.30%	330	0	0.37	0.62
Vacant[7]	0.22	2.53%	0	0	0	0.00
Total (ac)	8.74	100.00%	--	--	--	10.26
Norwalk/Santa Fe Springs High-Speed Rail Station Option*						
Commercial[2]	13.20	58.38%	1,260.00	0	1.41	18.62
Industrial[3]	8.19	36.19%	1,070.00	0	1.2	9.82
Residential[4]	<0.01	0.00%	3,310.00	0.01	3.71	0.00
Public[5]	--	0.00%	2,500.00	0.01	2.8	0.00
Unknown[6]	0.46	2.03%	330	0	0.37	0.17
Vacant[7]	0.77	3.40%	0	0	0	0.00
Total (ac)	22.62	100.00%	--	--	--	28.61

Existing Land Use Category	Land Use Type within Project Footprint (ac)	Percentage	Water Usage Factors (gpd/ac)[1]	Water Usage Factors (ac-ft/ac)[1]	Annual Water Usage (ac-ft/ac/year)	Annual Water Usage (AFY)
Fullerton High-Speed Rail Station Option*						
Commercial[2]	4.12	41.56%	1,260.00	0	1.41	5.80
Industrial3	2.75	27.73%	1,070.00	0	1.2	3.29
Residential[4]	--	0.00%	3,310.00	0.01	3.71	0.00
Public[5]	--	0.00%	2,500.00	0.01	2.8	0.00
Unknown[6]	<0.01	0.01%	330	0	0.37	0.00
Vacant[7]	3.04	30.70%	0	0	0	0.00
Total (ac)	9.90	100.00%	--	--	--	9.10
Maximum Limits of Disturbance by Municipality+						
Los Angeles+						
Commercial[2]	42.01	39.74%	1,260.00	0	1.41	59.23
Industrial[3]	0.51	0.48%	1,070.00	0	1.2	0.61
Residential[4]	--	0.00%	3,310.00	0.01	3.71	0.00
Public[5]	--	0.00%	2,500.00	0.01	2.8	0.00
Unknown[6]	47.23	44.69%	330	0	0.37	17.48
Vacant[7]	15.94	15.09%	0	0	0	0.00
Total (ac)	105.69	100.00%	--	--	--	77.31
Vernon+						
Commercial[2]	140.65	73.93%	1,260.00	0	1.41	198.31
Industrial[3]	--	0.00%	1,070.00	0	1.2	0.00
Residential[4]	--	0.00%	3,310.00	0.01	3.71	0.00
Public[5]	--	0.00%	2,500.00	0.01	2.8	0.00
Unknown[6]	30.71	16.14%	330	0	0.37	11.36
Vacant[7]	18.88	9.92%	0	0	0	0.00
Total (ac)	190.23	100.00%	--	--	--	209.67

Existing Land Use Category	Land Use Type within Project Footprint (ac)	Percentage	Water Usage Factors (gpd/ac)[1]	Water Usage Factors (ac-ft/ac)[1]	Annual Water Usage (ac-ft/ac/year)	Annual Water Usage (AFY)
Bell+						
Commercial[2]	0.23	4.43%	1,260.00	0	1.41	0.33
Industrial[3]	1.07	20.64%	1,070.00	0	1.2	1.29
Residential[4]	--	0.00%	3,310.00	0.01	3.71	0.00
Public[5]	--	0.00%	2,500.00	0.01	2.8	0.00
Unknown[6]	0.30	5.77%	330	0	0.37	0.11
Vacant[7]	3.60	69.15%	0	0	0	0.00
Total (ac)	5.21	100.00%	--	--	--	1.73
Commerce+						
Commercial[2]	73.26	45.08%	1,260.00	0	1.41	103.29
Industrial[3]	1.81	1.11%	1,070.00	0	1.2	2.17
Residential[4]	--	0.00%	3,310.00	0.01	3.71	0.00
Public[5]	--	0.00%	2,500.00	0.01	2.8	0.00
Unknown[6]	61.45	37.82%	330	0	0.37	22.74
Vacant[7]	25.97	15.98%	0	0	0	0.00
Total (ac)	162.49	100.00%	--	--	--	128.20
Montebello+						
Commercial[2]	5.87	41.11%	1,260.00	0	1.41	8.28
Industrial[3]	--	0.00%	1,070.00	0	1.2	0.00
Residential[4]	--	0.00%	3,310.00	0.01	3.71	0.00
Public[5]	0.04	0.29%	2,500.00	0.01	2.8	0.12
Unknown[6]	7.32	51.24%	330	0	0.37	2.71
Vacant[7]	1.05	7.35%	0	0	0	0.00
Total (ac)	14.28	100.00%	--	--	--	11.11

Existing Land Use Category	Land Use Type within Project Footprint (ac)	Percentage	Water Usage Factors (gpd/ac)[1]	Water Usage Factors (ac-ft/ac)[1]	Annual Water Usage (ac-ft/ac/year)	Annual Water Usage (AFY)
Pico Rivera+						
Commercial[2]	0.95	2.73%	1,260.00	0	1.41	1.34
Industrial[3]	0.04	0.10%	1,070.00	0	1.2	0.04
Residential[4]	0.16	0.46%	3,310.00	0.01	3.71	0.59
Public[5]	3.59	10.33%	2,500.00	0.01	2.8	10.04
Unknown[6]	20.46	58.91%	330	0	0.37	7.57
Vacant[7]	9.54	27.47%	0	0	0	0.00
Total (ac)	34.74	100.00%	--	--	--	19.59
West Whittier–Los Nietos Census-Designated Place+						
Commercial[2]	0.21	3.11%	1,260.00	0	1.41	0.30
Industrial[3]	--	0.00%	1,070.00	0	1.2	0.00
Residential[4]	1.66	24.63%	3,310.00	0.01	3.71	6.18
Public[5]	--	0.00%	2,500.00	0.01	2.8	0.00
Unknown[6]	0.53	7.90%	330	0	0.37	0.20
Vacant[7]	4.35	64.36%	0	0	0	0.00
Total (ac)	6.76	100.00%	--	--	--	6.67
Santa Fe Springs+						
Commercial[2]	51.93	46.56%	1,260.00	0	1.41	73.22
Industrial[3]	6.14	5.50%	1,070.00	0	1.2	7.36
Residential[4]	0.03	0.02%	3,310.00	0.01	3.71	0.10
Public[5]	0.03	0.03%	2,500.00	0.01	2.8	0.08
Unknown[6]	36.62	32.84%	330	0	0.37	13.55
Vacant[7]	16.78	15.04%	0	0	0	0.00
Total (ac)	111.52	100.00%	--	--	--	94.32

Existing Land Use Category	Land Use Type within Project Footprint (ac)	Percentage	Water Usage Factors (gpd/ac)[1]	Water Usage Factors (ac-ft/ac)[1]	Annual Water Usage (ac-ft/ac/year)	Annual Water Usage (AFY)
Norwalk+						
Commercial[2]	0.02	0.58%	1,260.00	0	1.41	0.03
Industrial[3]	3.57	95.39%	1,070.00	0	1.2	4.28
Residential[4]	<0.01	<0.01%	3,310.00	0.01	3.71	0.00
Public[5]	--	0.00%	2,500.00	0.01	2.8	0.00
Unknown[6]	0.09	2.42%	330	0	0.37	0.03
Vacant[7]	0.06	1.61%	0	0	0	0.00
Total (ac)	3.74	100.00%	--	--	--	4.34
La Mirada+						
Commercial[2]	5.35	16.64%	1,260.00	0	1.41	7.55
Industrial[3]	<0.01	<0.01%	1,070.00	0	1.2	0.00
Residential[4]	0.01	0.02%	3,310.00	0.01	3.71	0.03
Public[5]	--	0.00%	2,500.00	0.01	2.8	0.00
Unknown[6]	16.09	50.02%	330	0	0.37	5.95
Vacant[7]	10.72	33.31%	0	0	0	0.00
Total (ac)	32.17	100.00%	--	--	--	13.53
Buena Park+						
Commercial[2]	9.09	22.47%	1,260.00	0	1.41	12.81
Industrial[3]	2.86	7.07%	1,070.00	0	1.2	3.43
Residential[4]	5.16	12.77%	3,310.00	0.01	3.71	19.15
Public[5]	0.04	0.09%	2,500.00	0.01	2.8	0.11
Unknown[6]	17.80	44.01%	330	0	0.37	6.59
Vacant[7]	5.49	13.58%	0	0	0	0.00
Total (ac)	40.44	100.00%	--	--	--	42.09

Existing Land Use Category	Land Use Type within Project Footprint (ac)	Percentage	Water Usage Factors (gpd/ac)[1]	Water Usage Factors (ac-ft/ac)[1]	Annual Water Usage (ac-ft/ac/year)	Annual Water Usage (AFY)
Fullerton+						
Commercial[2]	11.54	11.97%	1,260.00	0	1.41	16.27
Industrial[3]	3.39	3.51%	1,070.00	0	1.2	4.06
Residential[4]	0.14	0.14%	3,310.00	0.01	3.71	0.50
Public[5]	0.01	0.01%	2,500.00	0.01	2.8	0.03
Unknown[6]	60.90	63.18%	330	0	0.37	22.53
Vacant[7]	20.42	21.18%	0	0	0	0.00
Total (ac)	96.39	100.00%	--	--	--	43.40
Anaheim+						
Commercial[2]	41.24	30.16%	1,260.00	0	1.41	58.15
Industrial[3]	0.69	0.50%	1,070.00	0	1.2	0.82
Residential[4]	0.48	0.35%	3,310.00	0.01	3.71	1.80
Public[5]	0.08	0.06%	2,500.00	0.01	2.8	0.23
Unknown[6]	43.28	31.65%	330	0	0.37	16.01
Vacant[7]	50.96	37.27%	0	0	0	0.00
Total (ac)	136.73	100.00%	--	--	--	77.02
Unincorporated+						
Commercial[2]	0.04	99.51%	1,260.00	0	1.41	0.06
Industrial[3]	--	0.00%	1,070.00	0	1.2	0.00
Residential[4]	--	0.00%	3,310.00	0.01	3.71	0.00
Public[5]	--	0.00%	2,500.00	0.01	2.8	0.00
Unknown[6]	<0.01	0.49%	330	0	0.37	0.00
Vacant[7]	--	0.00%	0	0	0	0.00
Total (ac)	0.04	100.00%	--	--	--	0.06

Existing Land Use Category	Land Use Type within Project Footprint (ac)	Percentage	Water Usage Factors (gpd/ac)[1]	Water Usage Factors (ac-ft/ac)[1]	Annual Water Usage (ac-ft/ac/year)	Annual Water Usage (AFY)
Shared Passenger Track Alternatives Maximum Limits of Disturbance Total (Shared Passenger Track Alternative B and Fullerton HSR Station Option) +						
Commercial[2]	382.39	40.66%	1,260.00	0	1.41	539.16
Industrial[3]	20.06	2.13%	1,070.00	0	1.2	24.07
Residential[4]	7.64	0.81%	3,310.00	0.01	3.71	28.35
Public[5]	3.79	0.40%	2,500.00	0.01	2.8	10.61
Unknown[6]	342.80	36.45%	330	0	0.37	126.83
Vacant[7]	183.76	19.54%	0	0	0	0.00
Total (ac)	940.43	100.00%	--	--	--	729.04

* These areas are reflective of all permanent impact areas including the right-of-way, easement areas, station areas, and respective light maintenance facilities for the Shared Passenger Track Alternatives.
+ This calculation is reflective of all permanent and temporary impact areas as a result of construction and operation of the project.
[1] Water usage factors were taken from the Palmdale Water District's 2016 *Water System Master Plan* (December 2016).
[2] The commercial land use category includes areas designated as commercial/services and general office, and industrial and mixed commercial as designated by SCAG.
[3] The industrial land use category includes areas designated as facilities and industrial, as designated by SCAG.
[4] The medium-density factor of 3,310 gpd/acre (3.7 ac-ft/ac), which is a smaller water usage factor than high-density residential, was selected to apply to residential. This category includes mixed residential/commercial, mobile homes, multifamily residential, and single-family residential areas, as designated by SCAG (refer to Section 3.6-A.3.2.1, Existing Water Demand, for details).
[5] Includes areas designated as open space/recreation by SCAG.
[6] Includes transportation, communication, and utility land uses.
[7] The designation of vacant also includes acreage within the project footprint that is composed of roadways.
Sum of numbers in table will not equal total because of rounding.
ac = acre(s); ac-ft = acre-feet; ac-ft/ac = acre-feet per acre; AFY = acre-feet per year; gpd = gallons per day; SCAG = Southern California Association of Governments

Table 3.6-A-2 Station and Light Maintenance Facility Construction Water Usage Summary[1]

Component(s)	Item	Total Volume (MG)	Total Volume (acre-feet)	Annualized Water Usage (AFY)[1]
HSR Project Section				
Grade separations, walls and footings, aerial structure footings, Fullerton trench, trackwork, etc., over the 30.2-mile segment	Concrete work	1.1	3.2	0.6
	Earthwork (fill)	16.4	50.3	10.1
	Dust control	93.5	286.9	57.4
	Total	111.0	340.5	68.1

Component(s)	Item	Total Volume (MG)	Total Volume (acre-feet)	Annualized Water Usage (AFY)[1]
26th St LMF	Concrete work	0.1	0.3	0.1
	Earthwork (fill)	0.1	0.4	0.1
	Dust control	0.7	2.1	0.4
	Total	0.9	2.8	0.6
15th St LMF	Concrete work	0.2	0.5	0.1
	Earthwork (fill)	0.4	1.1	0.2
	Dust control	1.8	5.4	1.1
	Total	2.3	7.0	1.4
Norwalk/Santa Fe Springs Metrolink Station modifications	Concrete work	0.5	1.4	0.3
	Earthwork (fill)	0.4	1.1	0.2
	Dust control	14.0	43.0	8.6
	Total	14.8	45.4	9.1
Fullerton Metrolink/Amtrak Station modifications	Concrete work	0.3	0.8	0.2
	Earthwork (fill)	0.6	1.7	0.3
	Dust control	15.0	46.0	9.2
	Total	15.8	48.5	9.7
ARTIC	Concrete work	0.5	1.4	0.3
	Earthwork (fill)	0.2	0.5	0.1
	Dust control	4.6	14.1	2.8
	Total	5.2	16.0	3.2
Shared Passenger Track Alternative A[2]				
Project section trackwork, ARTIC, 26th St LMF, Norwalk/Santa Fe Springs and Fullerton Metrolink Stations	Concrete work	2.3	7.1	1.4
	Earthwork (fill)	17.6	54.0	10.8
	Dust control	127.8	392.2	78.4
	Total	147.7	453.2	90.7

Component(s)	Item	Total Volume (MG)	Total Volume (acre-feet)	Annualized Water Usage (AFY)[1]
Shared Passenger Track Alternative B[2]				
Project section trackwork, ARTIC, 15th St LMF, Norwalk/Santa Fe Springs and Fullerton Metrolink Stations	Concrete work	2.4	7.3	1.5
	Earthwork (Fill)	17.8	54.7	10.9
	Dust control	128.9	395.4	79.1
	Total	149.0	457.4	91.5
Norwalk/Santa Fe Springs HSR Station Option	Concrete work	0.5	1.4	0.3
	Earthwork (fill)	0.3	0.8	0.2
	Dust control	8.0	24.6	4.9
	Total	8.7	26.7	5.3
Fullerton Station HSR Option	Concrete work	0.6	1.7	0.3
	Earthwork (fill)	0.3	0.8	0.2
	Dust control	8.1	24.9	5.0
	Total	8.9	27.3	5.5

Sources: STV 2025a, 2025b
[1] Annualized water usage is for a 5-year construction period.
[2] The values for Shared Passenger Track Alternatives A and B are inclusive of the water demand for the project segment, ARTIC, the Norwalk/Santa Fe Springs and Fullerton Metrolink upgrades, and the respective LMF.
AFY = acre-feet per year; ARTIC = Anaheim Regional Transportation Intermodal Center; HSR = high-speed rail; LMF = light maintenance facility; N/A = not applicable; MG = million gallons; project section = Los Angeles to Anaheim Project Section

Table 3.6-A-3 Estimate of Operational Light Maintenance Facility Water Demand Summary

Facility	Facility Size	Water Demand Factor Method	Use Factor	Estimated Daily Volume (gpd)	Annual Water Usage (AFY)[1]
26th Street LMF[2]	2,178,000 square feet	Wastewater per 1,000 square feet Water flow per 1,000 square feet	29.55 gallons per 1,000 square feet[2] 59.1 gallons per 1,000 square feet[2]	128,730.8	144.2
15th Street LMF[2]	2,265,120 square feet	Wastewater per 1,000 square feet Water flow per 1,000 square feet	29.55 gallons per 1,000 square feet[2] 59.1 gallons per 1,000 square feet[2]	133,862.5	149.9

Sources: Authority 2024, 2025; LACSD 2022
[1] 1 gpd = 0.00112 AFY
[2] Uses 2025 wastewater generation estimates from *Los Angeles County Sanitation District No. 2 Service Charge Report for Fiscal Years 2022-23 through 2025-26* (LACSD 2022). For the LMF generation rate, "light manufacturing" was used. Water flow was calculated by doubling wastewater generation rates provided in LACSD 2022.
AFY = acre-feet per year; gpd = gallons per day; LMF = light maintenance facility

Table 3.6-A-4 Estimate of Operational Station Water Demand Summary

Facility	Expected Daily Use	Water Demand Factor Method	Use Factor	Estimated Daily Volume (gpd)	Annual Water Usage (AFY)[1]
Norwalk/Santa Fe Springs HSR Station Option	7,491 passengers	Gallons per passenger per day	5 gpd per passenger	37,455	42.0
Fullerton HSR Station Option	7,433 passengers	Gallons per passenger per day	5 gpd per passenger	37,165	41.7
ARTIC	17,716 passengers	Gallons per passenger per day	5 gpd per passenger	88,580	99.3

Sources: Authority 2024, 2025
[1] 1 gpd = 0.00112 AFY.
AFY = acre-feet per year; ARTIC = Anaheim Regional Transportation Intermodal Center; gpd = gallons per day; HSR = high-speed rail; LMF = light maintenance facility

Table 3.6-A-5 Project Footprint Water Usage Summary

Facility Type	Annual Water Usage (AFY)
Existing Water Usage[1]	
No project alternative (maximum limits of disturbance)	729.04
No project alternative (Shared Passenger Track Alternative A footprint)	537.7
No project alternative (Shared Passenger Track Alternative B footprint)	594.7
Construction Water Usage[2]	
Shared Passenger Track Alternative A[3]	90.7
Shared Passenger Track Alternative B[3]	91.5
Norwalk/Santa Fe Springs HSR Station Option	5.3
Fullerton HSR Station Option	5.5
Maximum Construction Use Total[4]	96.9
Operational Water Usage at 100 Percent Build-Out	
Shared Passenger Track Alternative A[3]	243.5
Shared Passenger Track Alternative B[3]	249.2
Norwalk/Santa Fe Springs HSR Station Option	42.0
Fullerton HSR Station Option	41.7
Minimum Operational Use	**243.5**
Maximum Operational Use[4]	**291.2**
Total Change (Shared Passenger Track Alternative A)	**-294.2**
With Norwalk/Santa Fe Springs HSR Station Option	-252.2
With Fullerton HSR Station Option	-252.5
Total Change (Shared Passenger Track Alternative B)	**-345.5**
With Norwalk/Santa Fe Springs HSR Station Option	-303.5
With Fullerton HSR Station Option	-303.8

[1] Value was calculated using Palmdale water use factors, as discussed in Section 3.6-A.3.2.1, Existing Water Demand. Also refer to Table 3.6-A-1 for the detailed breakdown of estimations for existing water usage within the Los Angeles to Anaheim Project Section.
[2] Construction water usage is annualized for a 5-year construction period.
[3] Value is inclusive of water demand at Anaheim Regional Transportation Intermodal Center, the Metrolink upgrades at the Norwalk/Santa Fe Springs and Fullerton Stations, and the respective LMF.
[4] Maximum for operational water usage would occur if Shared Passenger Track Alternative B was chosen along with the Norwalk/Santa Fe Springs HSR Station Option, because this represents the maximum water use possible from the alternatives and HSR station options for both construction and operation.
AFY = acre-feet per year; HSR = high-speed rail; LMF = light maintenance facility

ATTACHMENT B: FIGURES



Figure 3.6-A-1 Los Angeles to Anaheim Project Section

ATTACHMENT C: ENERGY CALCULATIONS

Construction Energy Calculations

Operations Energy Calculations

Light Maintenance Facility and Stations Energy Calculations

Total Construction Energy Usage per Scenario (August 2025)

Scenario	Fuel Consumption (gal)		Million btu (MMBTU) Combined
	Diesel	Gasoline	
Shared Passenger Shared Passenger Track Alternative A: No High-Speed Rail Station	6,258,777	845,514	961,480
Shared Passenger Shared Passenger Track Alternative B: No High-Speed Rail Station	6,565,591	867,478	1,006,271
Norwalk/Santa Fe Springs High-Speed Rail Station Option Only	142,196	14,143	21,235
Fullerton High-Speed Rail Station Option Only	122,704	18,881	19,127

Construction Durations (years)

Shared Passenger Alternative A/ Shared Passenger Alternative B	7.0
Norwalk High-Speed Rail Station Option Only	3.0
Fullerton High-Speed Rail Station Option Only	3.1

Construction Fuel Consumption Summary: Shared Passenger Track Alternative A No High Speed Rail Station (26th Street Light Maintenance Facility)

Source Category	Fuel Consumption (gal)		Million btu (MMBTU) Combined
	Diesel	Gasoline	
Offroad Equipment	2,442,789	--	335,593
Haul Trucks[1]	2,769,402	--	380,463
Vendor Trucks	856,466	--	117,662
Concrete Trucks	155,163	--	21,316
Water Trucks	34,957	--	4,802
Worker Trips	--	845,514	101,643
Total Fuel Consumption	**6,258,777**	**845,514**	--
Total MMBTU			**961,480**

Notes:

1. Includes hauling of Class I/II Waste to San Joaquin Valley Air Basin.

Construction Duration (years):	7.0
Average Annual Diesel (gal):	893,761
Average Annual Gasoline (gal):	845,514
Average Annual MMBTU:	137,301

Conversion:

1 gallon gasoline =	120,214 btu	0.120214 MMBTU
1 gallon diesel =	137,381 btu	0.137381 MMBTU

Source: https://www.eia.gov/energyexplained/units-and-calculators/energy-conversion-calculators.php

	Start	End
Construction Duration	1/1/2031	12/31/2037

Construction Fuel Consumption Summary: Shared Passenger Track Alternative B No High-Speed Rail Station (15th Street Light Maintenance Facility)

Source Category	Fuel Consumption (gal)		Million btu (MMBTU) Combined
	Diesel	Gasoline	
Offroad Equipment	2,586,479	--	355,333
Haul Trucks[1]	2,922,250	--	401,462
Vendor Trucks	858,158	--	117,895
Concrete Trucks	162,779	--	22,363
Water Trucks	35,925	--	4,935
Worker Trips	--	867,478	104,283
Total Fuel Consumption	**6,565,591**	**867,478**	--
Total MMBTU			**1,006,271**

Notes:

1. Includes hauling of Class I/II Waste to San Joaquin Valley Air Basin.

Construction Duration (years):	7.0
Average Annual Diesel (gal):	937,575
Average Annual Gasoline (gal):	867,478
Average Annual MMBTU:	143,697

Conversion:

1 gallon gasoline =	120,214 btu	0.120214 MMBTU
1 gallon diesel =	137,381 btu	0.137381 MMBTU

Source: https://www.eia.gov/energyexplained/units-and-calculators/energy-conversion-calculators.php

	Start	End
Construction Duration	1/1/2031	12/31/2037

Construction Fuel Consumption Summary: Norwalk/Santa Fe Springs High-Speed Rail Station Option Only

Source Category	Fuel Consumption (gal)		Million btu (MMBTU) Combined
	Diesel	Gasoline	
Offroad Equipment	31,460	--	4,322
Haul Trucks[1]	109,769	--	15,080
Vendor Trucks	0	--	0
Concrete Trucks	0	--	0
Water Trucks	967	--	133
Worker Trips	--	14,143	1,700
Total Fuel Consumption	**142,196**	**14,143**	0
Total MMBTU			**21,235**

Notes:

1. Includes hauling of Class I/II Waste to San Joaquin Valley Air Basin.

Construction Duration (years):	3.0
Average Annual Diesel (gal):	47,399
Average Annual Gasoline (gal):	14,143
Average Annual MMBTU:	7,078

Conversion:

1 gallon gasoline =	120,214 btu	0.120214 MMBTU
1 gallon diesel =	137,381 btu	0.137381 MMBTU

Source: https://www.eia.gov/energyexplained/units-and-calculators/energy-conversion-calculators.php

	Start	End
Construction Duration	1/1/2034	12/31/2036

Construction Fuel Consumption Summary: Fullerton High-Speed Rail Station Only

Source Category	Fuel Consumption (gal)		Million btu (MMBTU) Combined
	Diesel	Gasoline	
Offroad Equipment	30,459	--	4,184
Haul Trucks[1]	86,683	--	11,909
Vendor Trucks	0	--	0
Concrete Trucks	4,594	--	631
Water Trucks	968	--	133
Worker Trips	--	18,881	2,270
Total Fuel Consumption	**122,704**	**18,881**	--
Total MMBTU			**19,127**

Notes:

1. Includes hauling of Class I/II Waste to San Joaquin Valley Air Basin.

Construction Duration (years):	3.1
Average Annual Diesel (gal):	39,775
Average Annual Gasoline (gal):	18,881
Average Annual MMBTU:	6,200

Conversion:

1 gallon gasoline =	120,214 btu	0.120214 MMBTU
1 gallon diesel =	137,381 btu	0.137381 MMBTU

Source: https://www.eia.gov/energyexplained/units-and-calculators/energy-conversion-calculators.php

	Start	End
Construction Duration	12/1/2034	12/31/2037

Construction Energy Analysis

Alt A - No HSR Station

HSR LA-A Project: Construction Fuel Consumption Summary - Alt A No High Speed Rail Station (26th Street LMF)

Source Category	Fuel Consumption (gal)		Million btu (MMBTU)
	Diesel	Gasoline	Combined
Offroad Equipment	2,442,789	--	335,593
Haul Trucks[1]	2,769,402	--	380,463
Vendor Trucks	856,466	--	117,662
Concrete Trucks	155,163	--	21,316
Water Trucks	34,957	--	4,802
Worker Trips	--	845,514	101,643
Total Fuel Consumption	**6,258,777**	**845,514**	--
Total MMBTU			**961,480**

Construction Duration (years):	7.0
Average Annual Diesel (gal):	893,761
Average Annual Gasoline (gal):	845,514
Average Annual MMBTU:	137,301

Notes:

1. Includes hauling of Class I/II Waste to SJVAB.

Conversion:

1 gallon gasoline =	120214	btu	0.120214 MMBTU
1 gallon diesel =	137,381	btu	0.137381 MMBTU

Offroad Equipment

Fuel Consumption: Equipment ≤ 100HP	Value
Brake Specific Fuel Consumption Factor (lb/hp-hr)[1]	0.408
Fuel Density (lb/gal)[1]	7.11
Consumption Factor (gal/hp-hr)	0.0574
Total HP-HR <100	25,405,843
Total Diesel Fuel (gal)	**1,458,093**

Fuel Consumption: Equipment > 100HP	Value
Brake Specific Fuel Consumption Factor (lb/hp-hr)[1]	0.367
Fuel Density (lb/gal)[1]	7.11
Consumption Factor (gal/hp-hr)	0.0516
Total HP-HR >100	19,074,126
Total Diesel Fuel (gal)	**984,696**

Total diesel gallons (off-road equipment): 2,442,789

Phase Name	Equipment	# of Equipment	Hours/Day	HP	Load Factor	Days	Total HP-HR
At-Grade Rail-Ballasted Track-2033_Utilities	Trenchers	2	0.35	40	0.50	260	3640
At-Grade Rail-Ballasted Track-2033_Utilities	Rubber Tired Loaders	3	1.05	150	0.36	260	44226
At-Grade Rail-Ballasted Track-2033_Utilities	Other Construction Equipment	3	2.80	82	0.42	260	75216.96
At-Grade Rail-Ballasted Track-2033_Track Install	Crawler Tractors	1	0.60	87	0.43	313	7025.598
At-Grade Rail-Ballasted Track-2033_Track Install	Other Construction Equipment	4	0.90	82	0.42	313	38806.992
At-Grade Rail-Ballasted Track-2034_Utilities	Trenchers	2	0.35	40	0.50	260	3640
At-Grade Rail-Ballasted Track-2034_Utilities	Rubber Tired Loaders	3	1.05	150	0.36	260	44226
At-Grade Rail-Ballasted Track-2034_Utilities	Other Construction Equipment	3	2.80	82	0.42	260	75216.96
At-Grade Rail-Ballasted Track-2034_Track Install	Crawler Tractors	1	0.60	87	0.43	312	7003.152
At-Grade Rail-Ballasted Track-2034_Track Install	Other Construction Equipment	4	0.90	82	0.42	312	38683.008
At-Grade Rail-Ballasted Track-2035_Utilities	Trenchers	1	0.35	40	0.50	66	462
At-Grade Rail-Ballasted Track-2035_Utilities	Rubber Tired Loaders	3	1.05	150	0.36	66	11226.6
At-Grade Rail-Ballasted Track-2035_Utilities	Other Construction Equipment	3	2.80	82	0.42	66	19093.536
At-Grade Rail-Ballasted Track-2035_Track Install	Crawler Tractors	1	0.60	87	0.43	79	1773.234
At-Grade Rail-Ballasted Track-2035_Track Install	Other Construction Equipment	4	0.90	82	0.42	79	9794.736
At-Grade Rail-Ballasted Track-2036_Utilities	Trenchers	2	0.35	40	0.50	130	1820
At-Grade Rail-Ballasted Track-2036_Utilities	Rubber Tired Loaders	3	1.05	150	0.36	130	22113
At-Grade Rail-Ballasted Track-2036_Utilities	Other Construction Equipment	3	2.80	82	0.42	130	37608.48
At-Grade Rail-Ballasted Track-2036_Track Install	Crawler Tractors	1	0.60	87	0.43	156	3501.576
At-Grade Rail-Ballasted Track-2036_Track Install	Other Construction Equipment	4	0.90	82	0.42	156	19341.504
At-Grade Rail-Ballasted Track-2037_Utilities	Trenchers	2	0.35	40	0.50	86	1204
At-Grade Rail-Ballasted Track-2037_Utilities	Rubber Tired Loaders	3	1.05	150	0.36	86	14628.6
At-Grade Rail-Ballasted Track-2037_Utilities	Other Construction Equipment	3	2.80	82	0.42	86	24879.456
At-Grade Rail-Ballasted Track-2037_Track Install	Crawler Tractors	1	0.60	87	0.43	103	2311.938
At-Grade Rail-Ballasted Track-2037_Track Install	Other Construction Equipment	4	0.90	82	0.42	103	12770.352
South of Fullerton-Ballasted Track_FD	Trenchers	2	0.35	40	0.50	197	2758
South of Fullerton-Ballasted Track_FD	Rubber Tired Loaders	3	1.05	150	0.36	197	33509.7
South of Fullerton-Ballasted Track_FD	Other Construction Equipment	3	2.80	82	0.42	197	56991.312
South of Fullerton-Ballasted Track_FD	Crawler Tractors	1	0.60	87	0.43	197	4421.862
South of Fullerton-Ballasted Track_FD	Other Construction Equipment	4	0.90	82	0.42	197	24424.848
Rail Direct Fixation_CTF1	Pumps	2	4.20	11	0.74	130	8888.88
Rail Direct Fixation_CTF1	Cranes	2	2.40	367	0.29	130	66412.32
Rail Direct Fixation_CTF1	Other Construction Equipment	10	4.20	82	0.42	130	188042.4
Rail Direct Fixation_CTF2	Pumps	2	4.20	11	0.74	261	17846.136
Rail Direct Fixation_CTF2	Cranes	2	2.40	367	0.29	261	133335.504
Rail Direct Fixation_CTF2	Other Construction Equipment	10	4.20	82	0.42	261	377531.28
Rail Direct Fixation_CTF3	Pumps	2	4.20	11	0.74	262	17914.512
Rail Direct Fixation_CTF3	Cranes	2	2.40	367	0.29	262	133846.368
Rail Direct Fixation_CTF3	Other Construction Equipment	10	4.20	82	0.42	262	378977.76
Commerce Viaduct_CTF1	Rubber Tired Loaders	1	4.55	150	0.36	217	53316.9
Commerce Viaduct_CTF1	Trenchers	1	1.40	40	0.50	217	6076
Commerce Viaduct_CTF1	Other Material Handling Equipment	4	2.80	93	0.40	217	90410.88
Commerce Viaduct_CTF2	Other Construction Equipment	3	3.15	82	0.42	652	212198.616
Commerce Viaduct_CTF3	Forklifts	2	4.55	82	0.20	261	38951.64
Commerce Viaduct_CTF4	Rollers	3	0.70	36	0.38	107	3073.896
Commerce Viaduct_CTF5	Cranes	3	5.25	367	0.29	695	1165009.388
Commerce Viaduct_CTF5	Other Construction Equipment	2	5.25	82	0.42	695	251325.9
Commerce Viaduct_CTF5	Other Material Handling Equipment	6	4.90	93	0.40	695	760107.6
Commerce Viaduct_CTF6	Rubber Tired Dozers	2	3.90	367	0.40	436	499237.44

Phase Name	Equipment	# of Equipment	Hours/Day	HP	Load Factor	Days	Total HP-HR
Commerce Viaduct_CTF6	Excavators	1	2.10	36	0.38	436	12525.408
Commerce Viaduct_CTF7	Rubber Tired Loaders	4	3.92	150	0.36	522	441987.84
Commerce Viaduct_CTF7	Rough Terrain Forklifts	6	3.15	100	0.40	522	394632
Commerce Viaduct_CTF7	Cranes	3	2.45	367	0.29	522	408339.981
Commerce Viaduct_CTF7	Bore/Drill Rigs	4	4.20	83	0.50	522	363938.4
Commerce Viaduct_CTF7	Pumps	6	5.60	11	0.74	522	142769.088
Norwalk-SFS Viaduct_CTF1	Other Construction Equipment	3	3.15	82	0.42	782	254508.156
Norwalk-SFS Viaduct_CTF2	Forklifts	2	4.55	82	0.20	261	38951.64
Norwalk-SFS Viaduct_CTF3	Rollers	3	0.70	36	0.38	107	3073.896
Norwalk-SFS Viaduct_CTF4	Rubber Tired Loaders	4	3.92	150	0.36	522	441987.84
Norwalk-SFS Viaduct_CTF4	Rough Terrain Forklifts	6	3.15	100	0.40	522	394632
Norwalk-SFS Viaduct_CTF4	Cranes	3	2.45	367	0.29	522	408339.981
Norwalk-SFS Viaduct_CTF4	Bore/Drill Rigs	4	4.20	83	0.50	522	363938.4
Norwalk-SFS Viaduct_CTF4	Pumps	6	5.60	11	0.74	522	142769.088
Norwalk-SFS Viaduct_CTF4	Rubber Tired Dozers	2	3.90	367	0.40	522	597710.88
Norwalk-SFS Viaduct_CTF4	Excavators	1	2.10	36	0.38	522	14996.016
Norwalk-SFS Viaduct_CTF5	Cranes	3	5.25	367	0.29	653	1094605.943
Norwalk-SFS Viaduct_CTF5	Other Construction Equipment	2	5.25	82	0.42	653	236137.86
Norwalk-SFS Viaduct_CTF5	Other Material Handling Equipment	6	4.90	93	0.40	653	714173.04
Norwalk-SFS Viaduct_CTF6	Rubber Tired Loaders	1	4.55	150	0.36	261	64127.7
Norwalk-SFS Viaduct_CTF6	Trenchers	1	1.40	40	0.50	261	7308
Norwalk-SFS Viaduct_CTF6	Other Material Handling Equipment	4	2.80	93	0.40	261	108743.04
Fullerton Trench_CTF1	Trenchers	1	1.75	40	0.50	653	22855
Fullerton Trench_CTF1	Rubber Tired Loaders	1	4.20	150	0.36	653	148100.4
Fullerton Trench_CTF1	Other Construction Equipment	3	3.00	82	0.42	653	202403.88
Fullerton Trench_CTF2	Other Construction Equipment	5	2.70	82	0.42	912	424025.28
Fullerton Trench_CTF3	Crawler Tractors	2	3.50	87	0.43	175	45827.25
Fullerton Trench_CTF3	Rubber Tired Loaders	6	3.50	150	0.36	175	198450
Fullerton Trench_CTF3	Rubber Tired Dozers	2	2.45	367	0.40	175	125881
Fullerton Trench_CTF4	Bore/Drill Rigs	2	1.75	83	0.50	131	19027.75
Fullerton Trench_CTF4	Cranes	2	4.76	367	0.29	131	132730.9816
Fullerton Trench_CTF5	Other Material Handling Equipment	3	3.50	93	0.40	717	280060.2
Fullerton Trench_CTF6	Pumps	3	2.45	11	0.74	132	7897.428
Fullerton Trench_CTF7	Graders	2	3.85	148	0.41	260	121481.36
Fullerton Trench_CTF7	Excavators	2	4.90	36	0.38	260	34856.64
Fullerton Trench_CTF7	Rubber Tired Loaders	4	3.85	150	0.36	260	216216
Fullerton Trench_CTF8	Pumps	4	2.45	11	0.74	175	13960.1
Fullerton Trench_CTF9	Forklifts	1	3.25	82	0.20	261	13911.3
Fullerton Trench_CTF10	Rollers	1	3.15	36	0.38	86	3705.912
Fullerton Trench_CTF11	Rubber Tired Loaders	2	4.55	150	0.36	42	20638.8
I-10-L1 Grade Separation_FD	Rough Terrain Forklifts	2	4.55	100	0.40	155	56420
South Downey Rd-L1 Grade Separation_CTF1	Rough Terrain Forklifts	1	1.40	100	0.40	326	18256
South Downey Rd-L1 Grade Separation_CTF1	Other Construction Equipment	5	1.40	82	0.42	326	78592.08
South Downey Rd-L1 Grade Separation_CTF2	Pumps	2	3.50	11	0.74	240	13675.2
South Downey Rd-L1 Grade Separation_CTF2	Air Compressors	2	2.00	37	0.48	240	17049.6
South Downey Rd-L1 Grade Separation_CTF3	Cranes	1	2.10	367	0.29	390	87166.17
South Downey Rd-L1 Grade Separation_CTF3	Bore/Drill Rigs	1	3.50	83	0.50	390	56647.5
South Downey Rd-L1 Grade Separation_CTF3	Rubber Tired Loaders	2	4.20	150	0.36	390	176904
I-710-L1 Grade Separation_FD	Rough Terrain Forklifts	2	5.60	100	0.40	53	23744
I-5-L1 Grade Separation_FD	Rough Terrain Forklifts	2	5.60	100	0.40	52	23296
Greenwood Ave-L1 Grade Separation_FD	Rough Terrain Forklifts	2	5.60	100	0.40	53	23744
Paramount Blvd-L1 Grade Separation_FD	Rubber Tired Loaders	1	4.20	150	0.36	51	11566.8
Paramount Blvd-L1 Grade Separation_FD	Rough Terrain Forklifts	1	4.20	100	0.40	51	8568
Paramount Blvd-L1 Grade Separation_FD	Other Construction Equipment	2	4.50	82	0.42	51	15807.96
SR-91-L1 Grade Separation_FD	Rough Terrain Forklifts	2	5.60	100	0.40	42	18816
Lincoln Ave-L1 Grade Separation_FD	Rough Terrain Forklifts	1	2.20	100	0.40	44	3872
Eastern Ave-L2 Grade Separation_CTF2	Other Construction Equipment	6	3.30	82	0.42	457	311633.784
Eastern Ave-L2 Grade Separation_CTF3	Excavators	2	2.40	36	0.38	43	2823.552
Eastern Ave-L2 Grade Separation_CTF4	Rubber Tired Loaders	2	4.20	150	0.36	108	48988.8
Eastern Ave-L2 Grade Separation_CTF4	Bore/Drill Rigs	1	2.25	83	0.50	108	10084.5
Eastern Ave-L2 Grade Separation_CTF5	Pumps	2	4.55	11	0.74	131	9703.694
Eastern Ave-L2 Grade Separation_CTF8	Cranes	1	3.85	367	0.29	45	18438.9975
Eastern Ave-L2 Grade Separation_CTF9	Rough Terrain Forklifts	1	4.20	100	0.40	85	14280
Passons Blvd-L2 Grade Separation_CTF1	Rough Terrain Forklifts	1	4.20	100	0.40	42	7056
Passons Blvd-L2 Grade Separation_CTF2	Excavators	2	2.40	36	0.38	87	5712.768
Passons Blvd-L2 Grade Separation_CTF3	Rubber Tired Loaders	3	4.20	150	0.36	130	88452
Passons Blvd-L2 Grade Separation_CTF4	Other Construction Equipment	6	3.30	82	0.42	326	222303.312
Passons Blvd-L2 Grade Separation_CTF5	Bore/Drill Rigs	1	2.25	83	0.50	65	6069.375

Phase Name	Equipment	# of Equipment	Hours/Day	HP	Load Factor	Days	Total HP-HR
Passons Blvd-L2 Grade Separation_CTF6	Pumps	2	4.55	11	0.74	65	4814.81
Passons Blvd-L2 Grade Separation_CTF7	Cranes	1	3.85	367	0.29	87	35648.7285
Sante Fe Springs-L2 Grade Separation_CTF2	Other Construction Equipment	6	3.00	82	0.42	326	202093.92
Sante Fe Springs-L2 Grade Separation_CTF3	Rubber Tired Loaders	3	4.90	150	0.36	110	87318
Sante Fe Springs-L2 Grade Separation_CTF4	Excavators	2	1.80	36	0.38	132	6500.736
Sante Fe Springs-L2 Grade Separation_CTF4	Rough Terrain Forklifts	1	3.15	100	0.40	132	16632
Sante Fe Springs-L2 Grade Separation_CTF5	Bore/Drill Rigs	2	3.50	83	0.50	43	12491.5
Sante Fe Springs-L2 Grade Separation_CTF6	Cranes	1	4.90	367	0.29	87	45371.109
Sante Fe Springs-L2 Grade Separation_CTF7	Pumps	2	4.90	11	0.74	107	8535.604
Telegraph Road-L2 Grade Separation_CTF1	Excavators	2	1.20	36	0.38	64	2101.248
Telegraph Road-L2 Grade Separation_CTF2	Rubber Tired Loaders	3	2.45	150	0.36	85	33736.5
Telegraph Road-L2 Grade Separation_CTF3	Rough Terrain Forklifts	1	2.10	100	0.40	390	32760
Telegraph Road-L2 Grade Separation_CTF3	Other Construction Equipment	6	1.80	82	0.42	390	145061.28
Telegraph Road-L2 Grade Separation_CTF4	Bore/Drill Rigs	2	3.00	83	0.50	43	10707
Telegraph Road-L2 Grade Separation_CTF5	Pumps	2	3.50	11	0.74	88	5014.24
Telegraph Road-L2 Grade Separation_CTF6	Cranes	1	3.50	367	0.29	217	80833.585
Valley View Ave-L2 Grade Separation_CTF1	Excavators	2	3.30	36	0.38	44	3972.672
Valley View Ave-L2 Grade Separation_CTF2	Other Construction Equipment	6	3.30	82	0.42	326	222303.312
Valley View Ave-L2 Grade Separation_CTF3	Bore/Drill Rigs	2	3.25	83	0.50	43	11599.25
Valley View Ave-L2 Grade Separation_CTF5	Rubber Tired Loaders	3	5.60	150	0.36	64	58060.8
Valley View Ave-L2 Grade Separation_CTF6	Pumps	2	3.85	11	0.74	107	6706.546
Valley View Ave-L2 Grade Separation_CTF9	Cranes	1	2.10	367	0.29	43	9610.629
Valley View Ave-L2 Grade Separation_CTF10	Rough Terrain Forklifts	1	3.15	100	0.40	66	8316
Beach Blvd-L2 Grade Separation_CTF1	Pumps	2	4.55	11	0.74	43	3185.182
Beach Blvd-L2 Grade Separation_CTF1	Bore/Drill Rigs	1	2.25	83	0.50	43	4015.125
Beach Blvd-L2 Grade Separation_CTF1	Cranes	1	3.85	367	0.29	43	17619.4865
Beach Blvd-L2 Grade Separation_CTF2	Excavators	2	2.40	36	0.38	87	5712.768
Beach Blvd-L2 Grade Separation_CTF3	Rubber Tired Loaders	3	4.20	150	0.36	109	74163.6
Beach Blvd-L2 Grade Separation_CTF4	Other Construction Equipment	6	3.30	82	0.42	261	177979.032
Beach Blvd-L2 Grade Separation_CTF5	Rough Terrain Forklifts	1	4.20	100	0.40	109	18312
Gilbert St-L2 Grade Separation_CTF1	Rubber Tired Loaders	3	2.45	150	0.36	43	17066.7
Gilbert St-L2 Grade Separation_CTF2	Excavators	2	1.20	36	0.38	86	2823.552
Gilbert St-L2 Grade Separation_CTF2	Bore/Drill Rigs	2	3.00	83	0.50	86	21414
Gilbert St-L2 Grade Separation_CTF3	Cranes	1	3.50	367	0.29	130	48425.65
Gilbert St-L2 Grade Separation_CTF4	Other Construction Equipment	6	4.20	82	0.42	390	338476.32
Gilbert St-L2 Grade Separation_CTF5	Rough Terrain Forklifts	1	2.10	100	0.40	216	18144
Gilbert St-L2 Grade Separation_CTF6	Pumps	2	3.50	11	0.74	132	7521.36
Euclid St-L2 Grade Separation_CTF2	Rubber Tired Loaders	3	3.50	150	0.36	283	160461
Euclid St-L2 Grade Separation_CTF3	Rough Terrain Forklifts	1	4.20	100	0.40	326	54768
Euclid St-L2 Grade Separation_CTF4	Other Construction Equipment	6	2.40	82	0.42	391	193910.976
Euclid St-L2 Grade Separation_CTF5	Excavators	2	4.20	36	0.38	43	4941.216
Euclid St-L2 Grade Separation_CTF6	Bore/Drill Rigs	2	2.25	83	0.50	88	16434
Euclid St-L2 Grade Separation_CTF7	Cranes	1	1.75	367	0.29	43	8008.8575
Euclid St-L2 Grade Separation_CTF8	Pumps	2	3.50	11	0.74	154	8774.92
Lemon St-L2 Grade Separation_CTF2	Other Construction Equipment	4	3.20	82	0.42	650	286540.8
Lemon St-L2 Grade Separation_CTF3	Excavators	1	4.20	36	0.38	79	4539.024
Lemon St-L2 Grade Separation_CTF4	Rubber Tired Loaders	2	3.50	150	0.36	261	98658
Lemon St-L2 Grade Separation_CTF5	Bore/Drill Rigs	2	2.25	83	0.50	109	20355.75
Lemon St-L2 Grade Separation_CTF6	Rough Terrain Forklifts	1	4.20	100	0.40	132	22176
Lemon St-L2 Grade Separation_CTF7	Pumps	2	3.50	11	0.74	305	17378.9
Lemon St-L2 Grade Separation_CTF7	Cranes	1	1.75	367	0.29	305	56807.0125
Atlantic Blvd-L3 Grade Separation_CTF1	Bore/Drill Rigs	2	3.00	83	0.50	132	32868
Atlantic Blvd-L3 Grade Separation_CTF2	Rubber Tired Loaders	3	2.45	150	0.36	154	61122.6
Atlantic Blvd-L3 Grade Separation_CTF4	Other Construction Equipment	6	1.20	82	0.42	328	81333.504
Atlantic Blvd-L3 Grade Separation_CTF5	Excavators	2	1.20	36	0.38	66	2166.912
Atlantic Blvd-L3 Grade Separation_CTF6	Rough Terrain Forklifts	1	2.10	100	0.40	86	7224
Atlantic Blvd-L3 Grade Separation_CTF7	Cranes	1	3.50	367	0.29	131	48798.155
Atlantic Blvd-L3 Grade Separation_CTF9	Pumps	2	3.50	11	0.74	261	14871.78
Rosemead Blvd-L3 Grade Separation_CTF2	Other Construction Equipment	6	0.90	82	0.42	521	96893.496
Rosemead Blvd-L3 Grade Separation_CTF3	Excavators	2	4.50	36	0.38	63	7756.56
Rosemead Blvd-L3 Grade Separation_CTF4	Rubber Tired Loaders	3	3.15	150	0.36	108	55112.4
Rosemead Blvd-L3 Grade Separation_CTF6	Bore/Drill Rigs	2	3.25	83	0.50	66	17803.5
Rosemead Blvd-L3 Grade Separation_CTF7	Pumps	2	3.85	11	0.74	86	5390.308
Rosemead Blvd-L3 Grade Separation_CTF8	Cranes	1	3.15	367	0.29	413	138460.1085
Rosemead Blvd-L3 Grade Separation_CTF10	Rough Terrain Forklifts	1	2.45	100	0.40	260	25480
Rosemead Blvd-L3 Grade Separation_CTF11	Crawler Tractors	1	1.75	87	0.43	109	7135.9575
Rosemead Blvd-L3 Grade Separation_CTF13	Rollers	1	4.55	36	0.38	109	6784.596
Rosemead Blvd-L3 Grade Separation_CTF14	Surfacing Equipment	1	4.20	399	0.30	43	21617.82
Rosemead Blvd-L3 Grade Separation_CTF15	Skid Steer Loaders	6	4.90	71	0.37	86	66421.068
Rosemead Blvd-L3 Grade Separation_CTF16	Sweepers/Scrubbers	1	4.20	36	0.46	66	4590.432
Slauson Ave-L3 Grade Separation_CTF2	Rough Terrain Forklifts	1	4.90	100	0.40	347	68012

Phase Name	Equipment	# of Equipment	Hours/Day	HP	Load Factor	Days	Total HP-HR
Slauson Ave-L3 Grade Separation_CTF2	Other Construction Equipment	6	3.00	82	0.42	347	215112.24
Slauson Ave-L3 Grade Separation_CTF3	Excavators	1	2.10	36	0.38	65	1867.32
Slauson Ave-L3 Grade Separation_CTF4	Bore/Drill Rigs	1	3.50	83	0.50	87	12636.75
Slauson Ave-L3 Grade Separation_CTF5	Rubber Tired Loaders	3	4.90	150	0.36	109	86524.2
Slauson Ave-L3 Grade Separation_CTF6	Pumps	2	4.90	11	0.74	109	8695.148
Slauson Ave-L3 Grade Separation_CTF7	Cranes	1	2.10	367	0.29	173	38666.019
Carmenita Rd-L3 Grade Separation_CTF1	Excavators	2	2.10	36	0.38	109	6262.704
Carmenita Rd-L3 Grade Separation_CTF1	Bore/Drill Rigs	2	2.00	83	0.50	109	18094
Carmenita Rd-L3 Grade Separation_CTF2	Rubber Tired Loaders	3	4.20	150	0.36	196	133358.4
Carmenita Rd-L3 Grade Separation_CTF4	Rough Terrain Forklifts	1	4.55	100	0.40	521	94822
Carmenita Rd-L3 Grade Separation_CTF4	Other Construction Equipment	6	4.50	82	0.42	521	484467.48
Carmenita Rd-L3 Grade Separation_CTF5	Pumps	2	4.90	11	0.74	195	15555.54
Carmenita Rd-L3 Grade Separation_CTF6	Cranes	1	3.85	367	0.29	304	124565.672
Carmenita Rd-L3 Grade Separation_CTF7	Crawler Tractors	1	4.90	87	0.43	66	12098.394
Carmenita Rd-L3 Grade Separation_CTF8	Graders	2	5.25	148	0.41	87	55431.18
Carmenita Rd-L3 Grade Separation_CTF9	Rollers	1	2.45	36	0.38	368	12333.888
Carmenita Rd-L3 Grade Separation_CTF10	Surfacing Equipment	1	2.80	399	0.30	108	36197.28
Carmenita Rd-L3 Grade Separation_CTF11	Sweepers/Scrubbers	1	2.80	36	0.46	195	9041.76
Alondra Blvd-L3 Grade Separation_CTF1	Excavators	2	3.30	36	0.38	153	13814.064
Alondra Blvd-L3 Grade Separation_CTF2	Cranes	1	2.80	367	0.29	217	64666.868
Alondra Blvd-L3 Grade Separation_CTF4	Rough Terrain Forklifts	1	4.20	100	0.40	327	54936
Alondra Blvd-L3 Grade Separation_CTF5	Rubber Tired Loaders	3	4.55	150	0.36	587	432677.7
Alondra Blvd-L3 Grade Separation_CTF6	Other Construction Equipment	6	3.90	82	0.42	652	525444.192
Alondra Blvd-L3 Grade Separation_CTF7	Tractors/Loaders/Backhoes	1	3.15	84	0.37	44	4307.688
Alondra Blvd-L3 Grade Separation_CTF7	Plate Compactors	6	2.80	8	0.43	44	2542.848
Alondra Blvd-L3 Grade Separation_CTF8	Bore/Drill Rigs	2	1.50	83	0.50	174	21663
Alondra Blvd-L3 Grade Separation_CTF9	Pumps	2	5.25	11	0.74	217	18546.99
Alondra Blvd-L3 Grade Separation_CTF10	Sweepers/Scrubbers	1	1.00	36	0.46	478	7915.68
Alondra Blvd-L3 Grade Separation_CTF12	Rollers	2	2.80	36	0.38	43	3294.144
Alondra Blvd-L3 Grade Separation_CTF12	Surfacing Equipment	2	3.00	399	0.30	43	30882.6
Dale St-L3 Grade Separation_CTF1	Graders	1	6.80	148	0.41	21	8665.104
Dale St-L3 Grade Separation_CTF1	Rollers	1	6.80	36	0.38	21	1953.504
Dale St-L3 Grade Separation_CTF1	Surfacing Equipment	1	6.00	399	0.30	21	15082.2
Dale St-L3 Grade Separation_CTF1	Sweepers/Scrubbers	1	2.40	36	0.46	21	834.624
Dale St-L3 Grade Separation_CTF2	Excavators	2	6.00	36	0.38	43	7058.88
Dale St-L3 Grade Separation_CTF2	Other Construction Equipment	6	2.40	82	0.42	43	21325.248
Dale St-L3 Grade Separation_CTF3	Pumps	2	2.80	11	0.74	86	3920.224
Dale St-L3 Grade Separation_CTF4	Bore/Drill Rigs	2	4.40	83	0.50	109	39806.8
Dale St-L3 Grade Separation_CTF6	Rubber Tired Loaders	3	3.60	150	0.36	218	127137.6
Dale St-L3 Grade Separation_CTF8	Cranes	1	3.60	367	0.29	110	42146.28
Dale St-L3 Grade Separation_CTF9	Rough Terrain Forklifts	1	3.20	100	0.40	77	9856
Commonwealth Ave-L3 Grade Separation_CTF1	Excavators	2	3.20	36	0.38	132	11556.864
Commonwealth Ave-L3 Grade Separation_CTF2	Rubber Tired Loaders	2	3.20	150	0.36	261	90201.6
Commonwealth Ave-L3 Grade Separation_CTF3	Rough Terrain Forklifts	1	4.00	100	0.40	522	83520
Commonwealth Ave-L3 Grade Separation_CTF3	Other Construction Equipment	6	2.00	82	0.42	522	215732.16
Commonwealth Ave-L3 Grade Separation_CTF4	Pumps	2	4.00	11	0.74	260	16931.2
Commonwealth Ave-L3 Grade Separation_CTF5	Bore/Drill Rigs	2	3.20	83	0.50	152	40371.2
Commonwealth Ave-L3 Grade Separation_CTF6	Plate Compactors	6	6.40	8	0.43	43	5680.128
Commonwealth Ave-L3 Grade Separation_CTF7	Rubber Tired Loaders	3	3.20	150	0.36	195	101088
Commonwealth Ave-L3 Grade Separation_CTF8	Cranes	1	3.20	367	0.29	86	29289.536
Commonwealth Ave-L3 Grade Separation_CTF9	Graders	1	4.00	148	0.41	85	20631.2
Commonwealth Ave-L3 Grade Separation_CTF9	Rollers	2	1.60	36	0.38	85	3720.96
Commonwealth Ave-L3 Grade Separation_CTF9	Sweepers/Scrubbers	1	1.60	36	0.46	85	2252.16
Commonwealth Ave-L3 Grade Separation_CTF10	Skid Steer Loaders	6	6.00	71	0.37	870	822776.4
Commonwealth Ave-L3 Grade Separation_CTF11	Surfacing Equipment	1	5.20	399	0.30	43	26764.92
Commonwealth Ave-L3 Grade Separation_CTF11	Rollers	2	2.40	36	0.38	43	2823.552
Highland Ave-L3 Grade Separation_CTF1	Bore/Drill Rigs	2	1.50	83	0.50	152	18924
Highland Ave-L3 Grade Separation_CTF2	Excavators	2	2.10	36	0.38	130	7469.28
Highland Ave-L3 Grade Separation_CTF3	Rubber Tired Loaders	2	4.55	150	0.36	260	127764
Highland Ave-L3 Grade Separation_CTF4	Other Construction Equipment	6	3.90	82	0.42	651	524638.296
Highland Ave-L3 Grade Separation_CTF6	Rough Terrain Forklifts	1	4.20	100	0.40	66	11088
Highland Ave-L3 Grade Separation_CTF7	Cranes	1	2.80	367	0.29	132	39336.528
Highland Ave-L3 Grade Separation_CTF8	Pumps	2	5.25	11	0.74	154	13162.38
Highland Ave-L3 Grade Separation_CTF10	Graders	1	3.85	148	0.41	130	30370.34
Highland Ave-L3 Grade Separation_CTF12	Sweepers/Scrubbers	1	1.40	36	0.46	217	5030.928
Highland Ave-L3 Grade Separation_CTF13	Rollers	1	3.15	36	0.38	174	7498.008
Highland Ave-L3 Grade Separation_CTF13	Surfacing Equipment	2	2.40	399	0.30	174	99973.44
Harbor Blvd-L3 Grade Separation_CTF1	Excavators	2	1.20	36	0.38	217	7124.544
Harbor Blvd-L3 Grade Separation_CTF1	Rubber Tired Loaders	3	5.25	150	0.36	217	184558.5
Harbor Blvd-L3 Grade Separation_CTF2	Rough Terrain Forklifts	1	1.40	100	0.40	522	29232
Harbor Blvd-L3 Grade Separation_CTF2	Other Construction Equipment	6	1.80	82	0.42	522	194158.944

Phase Name	Equipment	# of Equipment	Hours/Day	HP	Load Factor	Days	Total HP-HR
Harbor Blvd-L3 Grade Separation_CTF3	Bore/Drill Rigs	1	2.50	83	0.50	173	17948.75
Harbor Blvd-L3 Grade Separation_CTF4	Cranes	1	3.50	367	0.29	217	80833.585
Harbor Blvd-L3 Grade Separation_CTF5	Pumps	2	3.50	11	0.74	173	9857.54
Douglass Rd-L3 Grade Separation_CTF1	Excavators	2	2.10	36	0.38	131	7526.736
Douglass Rd-L3 Grade Separation_CTF3	Rough Terrain Forklifts	1	4.55	100	0.40	262	47684
Douglass Rd-L3 Grade Separation_CTF4	Other Construction Equipment	6	4.50	82	0.42	392	364512.96
Douglass Rd-L3 Grade Separation_CTF5	Rubber Tired Loaders	2	4.20	150	0.36	434	196862.4
Douglass Rd-L3 Grade Separation_CTF6	Graders	1	4.90	148	0.41	43	12785.276
Douglass Rd-L3 Grade Separation_CTF7	Pumps	1	4.90	11	0.74	174	6940.164
Douglass Rd-L3 Grade Separation_CTF7	Cranes	1	3.85	367	0.29	174	71297.457
Douglass Rd-L3 Grade Separation_CTF8	Bore/Drill Rigs	1	2.00	83	0.50	130	10790
Douglass Rd-L3 Grade Separation_CTF9	Crawler Tractors	1	4.90	87	0.43	175	32079.075
Douglass Rd-L3 Grade Separation_CTF10	Sweepers/Scrubbers	1	2.80	36	0.46	196	9088.128
Douglass Rd-L3 Grade Separation_CTF11	Rollers	1	3.50	36	0.38	64	3064.32
Douglass Rd-L3 Grade Separation_CTF11	Surfacing Equipment	1	2.80	399	0.30	64	21450.24
Pioneer Blvd-L4 Grade Separation_CTF2	Rough Terrain Forklifts	1	3.50	100	0.40	349	48860
Pioneer Blvd-L4 Grade Separation_CTF3	Other Construction Equipment	6	1.50	82	0.42	654	202713.84
Pioneer Blvd-L4 Grade Separation_CTF4	Excavators	1	2.40	36	0.38	132	4333.824
Pioneer Blvd-L4 Grade Separation_CTF5	Bore/Drill Rigs	2	2.00	83	0.50	153	25398
Pioneer Blvd-L4 Grade Separation_CTF6	Rubber Tired Loaders	2	2.80	150	0.36	262	79228.8
Pioneer Blvd-L4 Grade Separation_CTF7	Pumps	2	3.50	11	0.74	131	7464.38
Pioneer Blvd-L4 Grade Separation_CTF8	Cranes	1	2.80	367	0.29	174	51852.696
Pioneer Blvd-L4 Grade Separation_CTF9	Trenchers	1	2.10	40	0.50	479	20118
Pioneer Blvd-L4 Grade Separation_CTF10	Sweepers/Scrubbers	1	0.80	36	0.46	457	6054.336
Pioneer Blvd-L4 Grade Separation_CTF11	Graders	1	3.50	148	0.41	130	27609.4
Pioneer Blvd-L4 Grade Separation_CTF12	Rubber Tired Loaders	2	2.80	150	0.36	349	105537.6
Pioneer Blvd-L4 Grade Separation_CTF13	Rollers	1	1.40	36	0.38	175	3351.6
Pioneer Blvd-L4 Grade Separation_CTF14	Surfacing Equipment	2	3.90	399	0.30	107	99901.62
Pioneer Blvd-L4 Grade Separation_CTF15	Plate Compactors	6	5.60	8	0.43	44	5085.696
Pioneer Blvd-L4 Grade Separation_CTF16	Skid Steer Loaders	3	5.25	71	0.37	66	27307.665
Norwalk Blvd-L4 Grade Separation_CTF1	Excavators	2	4.20	36	0.38	131	15053.472
Norwalk Blvd-L4 Grade Separation_CTF4	Rubber Tired Loaders	3	3.85	150	0.36	542	338045.4
Norwalk Blvd-L4 Grade Separation_CTF5	Other Construction Equipment	6	2.70	82	0.42	782	436299.696
Norwalk Blvd-L4 Grade Separation_CTF6	Trenchers	1	2.45	40	0.50	131	6419
Norwalk Blvd-L4 Grade Separation_CTF6	Plate Compactors	6	4.55	8	0.43	131	12302.472
Norwalk Blvd-L4 Grade Separation_CTF7	Bore/Drill Rigs	2	2.50	83	0.50	107	22202.5
Norwalk Blvd-L4 Grade Separation_CTF8	Pumps	2	4.55	11	0.74	130	9629.62
Norwalk Blvd-L4 Grade Separation_CTF8	Cranes	1	3.15	367	0.29	130	43583.085
Norwalk Blvd-L4 Grade Separation_CTF9	Rough Terrain Forklifts	1	4.20	100	0.40	390	65520
Norwalk Blvd-L4 Grade Separation_CTF10	Graders	1	3.15	148	0.41	130	24848.46
Norwalk Blvd-L4 Grade Separation_CTF10	Rollers	2	2.45	36	0.38	130	8714.16
Norwalk Blvd-L4 Grade Separation_CTF10	Surfacing Equipment	2	2.70	399	0.30	130	84029.4
Norwalk Blvd-L4 Grade Separation_CTF11	Sweepers/Scrubbers	1	1.40	36	0.46	218	5054.112
Los Nietos Rd-L4 Grade Separation_CTF1	Excavators	2	4.20	36	0.38	131	15053.472
Los Nietos Rd-L4 Grade Separation_CTF4	Rubber Tired Loaders	3	3.85	150	0.36	542	338045.4
Los Nietos Rd-L4 Grade Separation_CTF5	Other Construction Equipment	6	2.70	82	0.42	782	436299.696
Los Nietos Rd-L4 Grade Separation_CTF6	Trenchers	1	2.45	40	0.50	131	6419
Los Nietos Rd-L4 Grade Separation_CTF6	Plate Compactors	6	4.55	8	0.43	131	12302.472
Los Nietos Rd-L4 Grade Separation_CTF7	Bore/Drill Rigs	2	2.50	83	0.50	107	22202.5
Los Nietos Rd-L4 Grade Separation_CTF8	Pumps	2	4.55	11	0.74	130	9629.62
Los Nietos Rd-L4 Grade Separation_CTF8	Cranes	1	3.15	367	0.29	130	43583.085
Los Nietos Rd-L4 Grade Separation_CTF9	Rough Terrain Forklifts	2	4.20	100	0.40	390	131040
Los Nietos Rd-L4 Grade Separation_CTF10	Graders	1	3.15	148	0.41	130	24848.46
Los Nietos Rd-L4 Grade Separation_CTF10	Rollers	2	2.45	36	0.38	130	8714.16
Los Nietos Rd-L4 Grade Separation_CTF10	Surfacing Equipment	2	2.70	399	0.30	130	84029.4
Los Nietos Rd-L4 Grade Separation_CTF11	Sweepers/Scrubbers	1	1.40	36	0.46	218	5054.112
Cerritos Ave-L4 Grade Separation_CTF1	Bore/Drill Rigs	2	2.50	83	0.50	130	26975
Cerritos Ave-L4 Grade Separation_CTF2	Excavators	2	3.60	36	0.38	130	12804.48
Cerritos Ave-L4 Grade Separation_CTF4	Rubber Tired Loaders	3	3.85	150	0.36	391	243866.7
Cerritos Ave-L4 Grade Separation_CTF6	Other Construction Equipment	6	3.90	82	0.42	783	631016.568
Cerritos Ave-L4 Grade Separation_CTF7	Graders	1	3.15	148	0.41	129	24657.318
Cerritos Ave-L4 Grade Separation_CTF9	Cranes	1	3.50	367	0.29	129	48053.145
Cerritos Ave-L4 Grade Separation_CTF10	Rough Terrain Forklifts	1	4.20	100	0.40	172	28896
Cerritos Ave-L4 Grade Separation_CTF11	Pumps	2	4.55	11	0.74	238	17629.612
Cerritos Ave-L4 Grade Separation_CTF13	Rollers	2	3.15	36	0.38	196	16892.064
Cerritos Ave-L4 Grade Separation_CTF14	Plate Compactors	6	4.55	8	0.43	89	8358.168
Cerritos Ave-L4 Grade Separation_CTF15	Trenchers	1	2.45	40	0.50	132	6468
Cerritos Ave-L4 Grade Separation_CTF16	Surfacing Equipment	2	2.70	399	0.30	87	56235.06
Cerritos Ave-L4 Grade Separation_CTF17	Sweepers/Scrubbers	1	0.80	36	0.46	218	2888.064
Cerritos Ave-L4 Grade Separation_CTF18	Skid Steer Loaders	3	4.20	71	0.37	131	43361.262
Lewis St-L4 Grade Separation_CTF1	Excavators	2	3.90	36	0.38	41	4374.864

Phase Name	Equipment	# of Equipment	Hours/Day	HP	Load Factor	Days	Total HP-HR
Lewis St-L4 Grade Separation_CTF3	Graders	1	5.25	148	0.41	65	20707.05
Lewis St-L4 Grade Separation_CTF5	Rollers	2	5.95	36	0.38	21	3418.632
Lewis St-L4 Grade Separation_CTF6	Trenchers	1	3.85	40	0.50	44	3388
Lewis St-L4 Grade Separation_CTF6	Plate Compactors	6	5.60	8	0.43	44	5085.696
Lewis St-L4 Grade Separation_CTF7	Bore/Drill Rigs	2	2.50	83	0.50	109	22617.5
Lewis St-L4 Grade Separation_CTF8	Rubber Tired Loaders	2	3.85	150	0.36	261	108523.8
Lewis St-L4 Grade Separation_CTF8	Other Construction Equipment	6	4.20	82	0.42	261	226518.768
Lewis St-L4 Grade Separation_CTF9	Pumps	2	5.25	11	0.74	131	11196.57
Lewis St-L4 Grade Separation_CTF11	Cranes	1	3.85	367	0.29	88	36058.484
Lewis St-L4 Grade Separation_CTF12	Rollers	1	4.90	36	0.38	240	16087.68
Lewis St-L4 Grade Separation_CTF13	Surfacing Equipment	2	4.50	399	0.30	65	70024.5
Lewis St-L4 Grade Separation_CTF14	Sweepers/Scrubbers	1	1.40	36	0.46	195	4520.88
Lewis St-L4 Grade Separation_CTF15	Rough Terrain Forklifts	1	4.55	100	0.40	87	15834
State College Blvd-L4 Grade Separation_CTF1	Excavators	2	3.60	36	0.38	173	17039.808
State College Blvd-L4 Grade Separation_CTF2	Rubber Tired Loaders	3	3.85	150	0.36	523	326195.1
State College Blvd-L4 Grade Separation_CTF3	Other Construction Equipment	6	2.70	82	0.42	783	436857.624
State College Blvd-L4 Grade Separation_CTF4	Rough Terrain Forklifts	1	4.20	100	0.40	412	69216
State College Blvd-L4 Grade Separation_CTF5	Pumps	2	4.55	11	0.74	197	14592.578
State College Blvd-L4 Grade Separation_CTF7	Bore/Drill Rigs	2	2.50	83	0.50	153	31747.5
State College Blvd-L4 Grade Separation_CTF8	Cranes	1	3.50	367	0.29	108	40230.54
State College Blvd-L4 Grade Separation_CTF9	Graders	1	3.15	148	0.41	217	41477.814
State College Blvd-L4 Grade Separation_CTF11	Sweepers/Scrubbers	1	0.60	36	0.46	261	2593.296
State College Blvd-L4 Grade Separation_CTF12	Trenchers	1	2.45	40	0.50	129	6321
State College Blvd-L4 Grade Separation_CTF12	Plate Compactors	6	4.55	8	0.43	129	12114.648
State College Blvd-L4 Grade Separation_CTF13	Surfacing Equipment	2	2.70	399	0.30	129	83383.02
State College Blvd-L4 Grade Separation_CTF14	Rollers	2	1.40	36	0.38	239	9154.656
State College Blvd-L4 Grade Separation_CTF15	Skid Steer Loaders	4	4.20	71	0.37	87	38396.232
Katella Ave-L4 Grade Separation_CTF1	Excavators	2	2.10	36	0.38	85	4883.76
Katella Ave-L4 Grade Separation_CTF3	Rubber Tired Loaders	3	4.55	150	0.36	390	287469
Katella Ave-L4 Grade Separation_CTF4	Rough Terrain Forklifts	1	4.20	100	0.40	651	109368
Katella Ave-L4 Grade Separation_CTF4	Other Construction Equipment	6	3.90	82	0.42	651	524638.296
Katella Ave-L4 Grade Separation_CTF4	Tractors/Loaders/Backhoes	2	3.15	84	0.37	651	127468.404
Katella Ave-L4 Grade Separation_CTF5	Bore/Drill Rigs	2	1.50	83	0.50	175	21787.5
Katella Ave-L4 Grade Separation_CTF6	Pumps	2	5.25	11	0.74	130	11111.1
Katella Ave-L4 Grade Separation_CTF7	Cranes	2	2.80	367	0.29	195	116221.56
Katella Ave-L4 Grade Separation_CTF8	Rollers	1	2.80	36	0.38	65	2489.76
Katella Ave-L4 Grade Separation_CTF9	Surfacing Equipment	1	3.00	399	0.30	87	31241.7
Katella Ave-L4 Grade Separation_CTF10	Sweepers/Scrubbers	1	1.75	36	0.46	65	1883.7
Redondo Junction-L1 Water Crossing_CTF1	Rough Terrain Forklifts	1	5.25	100	0.40	87	18270
Redondo Junction-L1 Water Crossing_CTF1	Welders	4	5.60	46	0.45	87	40340.16
Redondo Junction-L1 Water Crossing_CTF1	Forklifts	2	3.50	82	0.20	87	9987.6
Redondo Junction-L1 Water Crossing_CTF1	Other Construction Equipment	4	5.25	82	0.42	87	62921.88
Redondo Junction-L1 Water Crossing_CTF1	Other Material Handling Equipment	4	4.20	93	0.40	87	54371.52
Coyote Creek-L1Water Crossing_CTF1	Pumps	1	4.20	11	0.74	66	2256.408
Coyote Creek-L1Water Crossing_CTF2	Rough Terrain Forklifts	1	2.80	100	0.40	131	14672
Coyote Creek-L1Water Crossing_CTF2	Forklifts	2	3.50	82	0.20	131	15038.8
Coyote Creek-L1Water Crossing_CTF2	Plate Compactors	2	1.40	8	0.43	131	1261.792
Coyote Creek-L1Water Crossing_CTF3	Tractors/Loaders/Backhoes	2	2.45	84	0.37	21	3198.132
Carbon Creek-L1 Water Crossing_CTF1	Rough Terrain Forklifts	1	2.70	100	0.40	89	9612
Carbon Creek-L1 Water Crossing_CTF1	Forklifts	1	2.70	82	0.20	89	3940.92
Carbon Creek-L1 Water Crossing_CTF1	Pumps	1	4.20	11	0.74	89	3042.732
Carbon Creek-L1 Water Crossing_CTF1	Tractors/Loaders/Backhoes	2	2.40	84	0.37	89	13277.376
Carbon Creek-L1 Water Crossing_CTF1	Plate Compactors	2	4.20	8	0.43	89	2571.744
Carbon Creek-L1 Water Crossing_CTF1	Other Construction Equipment	4	4.20	82	0.42	89	51494.688
San Gabriel River-L2 Water Crossing_CTF1	Excavators	2	2.70	36	0.38	65	4801.68
San Gabriel River-L2 Water Crossing_CTF3	Bore/Drill Rigs	2	3.75	83	0.50	108	33615
San Gabriel River-L2 Water Crossing_CTF4	Rubber Tired Loaders	3	5.25	150	0.36	152	129276
San Gabriel River-L2 Water Crossing_CTF5	Rough Terrain Forklifts	1	3.50	100	0.40	347	48580
San Gabriel River-L2 Water Crossing_CTF6	Bore/Drill Rigs	2	4.50	83	0.50	435	162472.5
San Gabriel River-L2 Water Crossing_CTF7	Other Construction Equipment	3	2.70	82	0.42	457	127486.548
San Gabriel River-L2 Water Crossing_CTF8	Cranes	1	3.15	367	0.29	110	36877.995
San Gabriel River-L2 Water Crossing_CTF9	Pumps	2	5.25	11	0.74	175	14957.25
Rio Hondo SG-L3 Water Crossing_CTF1	Excavators	2	3.50	36	0.38	150	14364
Rio Hondo SG-L3 Water Crossing_CTF2	Rough Terrain Forklifts	1	2.80	100	0.40	216	24192
Rio Hondo SG-L3 Water Crossing_CTF3	Rubber Tired Loaders	3	4.90	150	0.36	325	257985
Rio Hondo SG-L3 Water Crossing_CTF3	Other Construction Equipment	4	3.50	82	0.42	325	156702
Rio Hondo River-L3 Water Crossing_CTF1	Excavators	2	3.50	36	0.38	150	14364
Rio Hondo River-L3 Water Crossing_CTF2	Rubber Tired Loaders	3	4.90	150	0.36	325	257985
Rio Hondo River-L3 Water Crossing_CTF2	Rough Terrain Forklifts	1	2.80	100	0.40	325	36400
Rio Hondo River-L3 Water Crossing_CTF2	Other Construction Equipment	4	3.50	82	0.42	325	156702

Phase Name	Equipment	# of Equipment	Hours/Day	HP	Load Factor	Days	Total HP-HR
Rio Hondo River-L3 Water Crossing_CTF3	Bore/Drill Rigs	2	5.60	83	0.50	65	30212
Rio Hondo River-L3 Water Crossing_CTF5	Pumps	2	3.85	11	0.74	108	6769.224
Rio Hondo River-L3 Water Crossing_CTF6	Cranes	1	3.85	367	0.29	173	70887.7015
Coyote Creek-N Fork-L3 Water Crossing_CTF1	Excavators	2	2.70	36	0.38	85	6279.12
Coyote Creek-N Fork-L3 Water Crossing_CTF2	Rubber Tired Loaders	3	5.25	150	0.36	108	91854
Coyote Creek-N Fork-L3 Water Crossing_CTF3	Other Construction Equipment	6	2.70	82	0.42	260	145061.28
Coyote Creek-N Fork-L3 Water Crossing_CTF4	Rough Terrain Forklifts	1	3.50	100	0.40	455	63700
Coyote Creek-N Fork-L3 Water Crossing_CTF5	Bore/Drill Rigs	2	3.75	83	0.50	63	19608.75
Coyote Creek-N Fork-L3 Water Crossing_CTF6	Pumps	2	5.25	11	0.74	173	14786.31
Coyote Creek-N Fork-L3 Water Crossing_CTF6	Cranes	1	3.15	367	0.29	173	57999.0285
Coyote Creek-N Fork-L3 Water Crossing_CTF7	Bore/Drill Rigs	2	4.50	83	0.50	218	81423
La Mirada Creek-L3 Water Crossing_CTF1	Rubber Tired Loaders	3	3.85	150	0.36	87	54261.9
La Mirada Creek-L3 Water Crossing_CTF2	Cranes	1	2.45	367	0.29	130	33897.955
La Mirada Creek-L3 Water Crossing_CTF2	Bore/Drill Rigs	1	4.20	83	0.50	130	22659
La Mirada Creek-L3 Water Crossing_CTF3	Rough Terrain Forklifts	1	2.80	100	0.40	260	29120
La Mirada Creek-L3 Water Crossing_CTF3	Other Construction Equipment	6	3.60	82	0.42	260	193415.04
La Mirada Creek-L3 Water Crossing_CTF4	Pumps	2	4.20	11	0.74	43	2940.168
Brea Creek-L3 Water Crossing_CTF1	Excavators	1	5.60	36	0.38	42	3217.536
Brea Creek-L3 Water Crossing_CTF3	Rubber Tired Loaders	3	4.90	150	0.36	130	103194
Brea Creek-L3 Water Crossing_CTF4	Other Construction Equipment	6	3.30	82	0.42	217	147974.904
Brea Creek-L3 Water Crossing_CTF4	Bore/Drill Rigs	1	4.50	83	0.50	217	40524.75
Brea Creek-L3 Water Crossing_CTF5	Pumps	2	4.55	11	0.74	43	3185.182
Brea Creek-L3 Water Crossing_CTF7	Bore/Drill Rigs	1	4.55	83	0.50	175	33044.375
Brea Creek-L3 Water Crossing_CTF7	Cranes	1	4.20	367	0.29	175	78226.05
Brea Creek-L3 Water Crossing_CTF8	Rough Terrain Forklifts	1	3.15	100	0.40	392	49392
Redondo Jct TPSS_CTF1	Rubber Tired Loaders	2	4.80	150	0.36	216	111974.4
Redondo Jct TPSS_CTF2	Excavators	2	4.40	36	0.38	44	5296.896
Redondo Jct TPSS_CTF2	Pumps	1	6.40	11	0.74	44	2292.224
Redondo Jct TPSS_CTF3	Other Construction Equipment	6	6.00	82	0.42	261	323598.24
Redondo Jct TPSS_CTF4	Rough Terrain Forklifts	1	3.20	100	0.40	132	16896
Redondo Jct TPSS_CTF5	Sweepers/Scrubbers	1	2.40	36	0.46	20	794.88
Redondo Jct TPSS_CTF6	Rollers	1	3.20	36	0.38	22	963.072
Redondo Jct TPSS_CTF6	Surfacing Equipment	1	6.00	399	0.30	22	15800.4
Anaheim TPSS_CTF1	Rubber Tired Loaders	2	4.80	150	0.36	216	111974.4
Anaheim TPSS_CTF4	Pumps	1	6.40	11	0.74	22	1146.112
Anaheim TPSS_CTF5	Excavators	2	4.40	36	0.38	43	5176.512
Anaheim TPSS_CTF6	Rough Terrain Forklifts	1	3.20	100	0.40	132	16896
Anaheim TPSS_CTF7	Other Construction Equipment	6	6.00	82	0.42	239	296321.76
Anaheim TPSS_CTF8	Sweepers/Scrubbers	1	2.40	36	0.46	20	794.88
Anaheim TPSS_CTF8	Rollers	1	3.20	36	0.38	20	875.52
Anaheim TPSS_CTF8	Surfacing Equipment	1	6.00	399	0.30	20	14364
Paralleling Station #2_CTF1	Rubber Tired Loaders	1	4.00	150	0.36	23	4968
Paralleling Station #2_CTF3	Other Construction Equipment	3	4.80	82	0.42	261	129439.296
Paralleling Station #2_CTF4	Pumps	1	6.40	11	0.74	22	1146.112
Paralleling Station #2_CTF5	Rough Terrain Forklifts	1	4.00	100	0.40	20	3200
Paralleling Station #2_CTF6	Sweepers/Scrubbers	1	1.60	36	0.46	22	582.912
Paralleling Station #2_CTF6	Rollers	1	2.80	36	0.38	22	842.688
Paralleling Station #2_CTF6	Surfacing Equipment	1	6.40	399	0.30	22	16853.76
Paralleling Station #4_CTF1	Rubber Tired Loaders	1	4.00	150	0.36	23	4968
Paralleling Station #4_CTF3	Other Construction Equipment	3	4.80	82	0.42	261	129439.296
Paralleling Station #4_CTF4	Pumps	1	6.40	11	0.74	22	1146.112
Paralleling Station #4_CTF5	Rough Terrain Forklifts	1	4.00	100	0.40	20	3200
Paralleling Station #4_CTF6	Sweepers/Scrubbers	1	1.60	36	0.46	22	582.912
Paralleling Station #4_CTF6	Rollers	1	2.80	36	0.38	22	842.688
Paralleling Station #4_CTF6	Surfacing Equipment	1	6.40	399	0.30	22	16853.76
Switching Station_CTF1	Excavators	1	4.00	36	0.38	22	1203.84
Switching Station_CTF1	Rubber Tired Loaders	1	4.00	150	0.36	22	4752
Switching Station_CTF2	Other Construction Equipment	3	4.80	82	0.42	129	63975.744
Switching Station_CTF3	Pumps	1	6.40	11	0.74	20	1041.92
Switching Station_CTF4	Rough Terrain Forklifts	1	4.00	100	0.40	44	7040
Switching Station_CTF5	Sweepers/Scrubbers	1	1.60	36	0.46	22	582.912
Switching Station_CTF5	Rollers	1	2.80	36	0.38	22	842.688
Switching Station_CTF5	Surfacing Equipment	1	6.40	399	0.30	22	16853.76
Communciation Tower #1_CTF1	Rubber Tired Loaders	1	5.20	150	0.36	23	6458.4
Communciation Tower #1_CTF1	Rough Terrain Forklifts	1	4.80	100	0.40	23	4416
Communciation Tower #1_CTF2	Other Construction Equipment	3	5.60	82	0.42	66	38187.072
Communciation Tower #1_CTF2	Sweepers/Scrubbers	1	1.60	36	0.46	66	1748.736
Communciation Tower #1_CTF2	Rollers	1	1.60	36	0.38	66	1444.608
Communciation Tower #1_CTF2	Surfacing Equipment	1	4.80	399	0.30	66	37920.96
Communciation Tower #1_CTF3	Pumps	1	6.00	11	0.74	22	1074.48
Communciation Tower #3_CTF1	Rubber Tired Loaders	1	5.20	150	0.36	42	11793.6

Phase Name	Equipment	# of Equipment	Hours/Day	HP	Load Factor	Days	Total HP-HR
Communciation Tower #3_CTF2	Rough Terrain Forklifts	1	4.80	100	0.40	64	12288
Communciation Tower #3_CTF2	Other Construction Equipment	3	5.60	82	0.42	64	37029.888
Communciation Tower #3_CTF4	Pumps	1	6.00	11	0.74	22	1074.48
Communciation Tower #3_CTF4	Sweepers/Scrubbers	1	1.60	36	0.46	22	582.912
Communciation Tower #3_CTF4	Rollers	1	1.60	36	0.38	22	481.536
Communciation Tower #3_CTF4	Surfacing Equipment	1	4.80	399	0.30	22	12640.32
Communciation Tower #5_CTF1	Rubber Tired Loaders	1	5.20	150	0.36	22	6177.6
Communciation Tower #5_CTF2	Rough Terrain Forklifts	1	4.80	100	0.40	66	12672
Communciation Tower #5_CTF2	Other Construction Equipment	3	5.60	82	0.42	66	38187.072
Communciation Tower #5_CTF3	Sweepers/Scrubbers	1	1.60	36	0.46	23	609.408
Communciation Tower #5_CTF3	Rollers	1	1.60	36	0.38	23	503.424
Communciation Tower #5_CTF3	Surfacing Equipment	1	4.80	399	0.30	23	13214.88
Communciation Tower #5_CTF4	Pumps	1	6.00	11	0.74	21	1025.64
Communciation Tower #7_CTF1	Rubber Tired Loaders	1	5.20	150	0.36	43	12074.4
Communciation Tower #7_CTF3	Other Construction Equipment	3	5.60	82	0.42	86	49758.912
Communciation Tower #7_CTF4	Rough Terrain Forklifts	1	4.80	100	0.40	65	12480
Communciation Tower #7_CTF5	Pumps	1	6.00	11	0.74	23	1123.32
Communciation Tower #7_CTF6	Sweepers/Scrubbers	1	1.60	36	0.46	20	529.92
Communciation Tower #7_CTF6	Rollers	1	1.60	36	0.38	20	437.76
Communciation Tower #7_CTF6	Surfacing Equipment	1	4.80	399	0.30	20	11491.2
Communciation Tower #9_CTF1	Rubber Tired Loaders	1	5.20	150	0.36	43	12074.4
Communciation Tower #9_CTF3	Other Construction Equipment	3	5.60	82	0.42	86	49758.912
Communciation Tower #9_CTF4	Rough Terrain Forklifts	1	4.80	100	0.40	65	12480
Communciation Tower #9_CTF5	Pumps	1	6.00	11	0.74	23	1123.32
Communciation Tower #9_CTF6	Sweepers/Scrubbers	1	1.60	36	0.46	20	529.92
Communciation Tower #9_CTF6	Rollers	1	1.60	36	0.38	20	437.76
Communciation Tower #9_CTF6	Surfacing Equipment	1	4.80	399	0.30	20	11491.2
Communciation Tower #11_CTF1	Rubber Tired Loaders	1	5.20	150	0.36	22	6177.6
Communciation Tower #11_CTF2	Rough Terrain Forklifts	1	4.80	100	0.40	66	12672
Communciation Tower #11_CTF2	Other Construction Equipment	3	5.60	82	0.42	66	38187.072
Communciation Tower #11_CTF3	Sweepers/Scrubbers	1	1.60	36	0.46	23	609.408
Communciation Tower #11_CTF3	Rollers	1	1.60	36	0.38	23	503.424
Communciation Tower #11_CTF3	Surfacing Equipment	1	4.80	399	0.30	23	13214.88
Communciation Tower #11_CTF4	Pumps	1	6.00	11	0.74	21	1025.64
Communciation Tower #13_CTF1	Rubber Tired Loaders	1	5.20	150	0.36	42	11793.6
Communciation Tower #13_CTF2	Rough Terrain Forklifts	1	4.80	100	0.40	64	12288
Communciation Tower #13_CTF2	Other Construction Equipment	3	5.60	82	0.42	64	37029.888
Communciation Tower #13_CTF4	Pumps	1	6.00	11	0.74	22	1074.48
Communciation Tower #13_CTF4	Sweepers/Scrubbers	1	1.60	36	0.46	22	582.912
Communciation Tower #13_CTF4	Rollers	1	1.60	36	0.38	22	481.536
Communciation Tower #13_CTF4	Surfacing Equipment	1	4.80	399	0.30	22	12640.32
Communciation Tower #15_CTF1	Rubber Tired Loaders	1	5.20	150	0.36	23	6458.4
Communciation Tower #15_CTF1	Rough Terrain Forklifts	1	4.80	100	0.40	23	4416
Communciation Tower #15_CTF2	Other Construction Equipment	3	5.60	82	0.42	66	38187.072
Communciation Tower #15_CTF2	Sweepers/Scrubbers	1	1.60	36	0.46	66	1748.736
Communciation Tower #15_CTF2	Rollers	1	1.60	36	0.38	66	1444.608
Communciation Tower #15_CTF2	Surfacing Equipment	1	4.80	399	0.30	66	37920.96
Communciation Tower #15_CTF3	Pumps	1	6.00	11	0.74	22	1074.48
LMF Support Structures_CTF1	Excavators	2	3.60	36	0.38	130	12804.48
LMF Support Structures_CTF2	Rubber Tired Loaders	4	2.80	150	0.36	261	157852.8
LMF Support Structures_CTF2	Other Construction Equipment	6	0.90	82	0.42	261	48539.736
LMF Support Structures_CTF2	Tractors/Loaders/Backhoes	1	5.25	84	0.37	261	42587.37
LMF Support Structures_CTF2	Plate Compactors	3	4.20	8	0.43	261	11312.784
LMF Support Structures_CTF4	Cranes	2	4.20	367	0.29	152	135889.824
LMF Support Structures_CTF4	Pumps	4	1.05	11	0.74	152	5196.576
LMF Support Structures_CTF5	Rough Terrain Forklifts	3	3.50	100	0.40	142	59640
LMF Support Structures_CTF5	Bore/Drill Rigs	2	4.55	83	0.50	142	53626.3
LMF Support Structures_CTF6	Graders	1	5.25	148	0.41	66	21025.62
LMF Support Structures_CTF6	Rollers	2	2.45	36	0.38	66	4424.112
LMF Support Structures_CTF7	Pavers	1	2.40	81	0.42	66	5388.768
26th St HSR LMF_Utility Relocation	Trenchers	1	0.35	40	0.50	65	455
26th St HSR LMF_Utility Relocation	Rubber Tired Loaders	1	1.05	150	0.36	65	3685.5
26th St HSR LMF_Utility Relocation	Other Construction Equipment	3	2.80	82	0.42	65	18804.24
26th St HSR LMF_Ballast Installation	Crawler Tractors	2	1.35	87	0.43	196	19797.372
26th St HSR LMF_Ballast Installation	Rubber Tired Loaders	4	6.75	150	0.36	196	285768
Hobart Yard Improvements_CTF1	Trenchers	2	2.80	40	0.50	77	8624
Hobart Yard Improvements_CTF2	Rubber Tired Loaders	5	4.00	150	0.36	103	111240
Hobart Yard Improvements_CTF3	Crawler Tractors	3	2.00	87	0.43	155	34791.3
Hobart Yard Improvements_CTF4	Other Construction Equipment	10	4.40	82	0.42	861	1304724.96
Hobart Yard Improvements_CTF4	Tractors/Loaders/Backhoes	4	5.20	84	0.37	861	556605.504
Hobart Yard Improvements_CTF4	Rubber Tired Loaders	2	5.60	150	0.36	861	520732.8

Phase Name	Equipment	# of Equipment	Hours/Day	HP	Load Factor	Days	Total HP-HR
Hobart Yard Improvements_CTF6	Tractors/Loaders/Backhoes	5	5.20	84	0.37	262	211716.96
Hobart Yard Improvements_CTF7	Graders	3	3.20	148	0.41	235	136894.08
Hobart Yard Improvements_CTF7	Cranes	3	3.20	367	0.29	235	240106.08
Hobart Yard Improvements_CTF7	Crawler Tractors	3	2.00	87	0.43	235	52748.1
Hobart Yard Improvements_CTF7	Graders	3	3.60	148	0.41	235	154005.84
Hobart Yard Improvements_CTF8	Crawler Tractors	1	4.80	87	0.43	208	37350.144
Hobart Yard Improvements_CTF9	Rubber Tired Loaders	4	4.00	150	0.36	392	338688
Hobart Yard Improvements_CTF9	Rubber Tired Dozers	4	3.60	367	0.40	392	828656.64
Hobart Yard Improvements_CTF9	Forklifts	6	2.40	82	0.20	392	92574.72
Hobart Yard Improvements_CTF9	Tractors/Loaders/Backhoes	6	2.80	84	0.37	392	204680.448
Hobart Yard Improvements_CTF9	Crawler Tractors	2	2.00	87	0.43	392	58658.88
Hobart Yard Improvements_CTF9	Other Construction Equipment	6	4.80	82	0.42	392	388813.824
Hobart Yard Improvements_CTF10	Rollers	3	2.00	36	0.38	103	8454.24
Hobart Yard Improvements_CTF11	Forklifts	3	4.80	82	0.20	77	18184.32
Hobart Yard Improvements_CTF11	Rubber Tired Loaders	6	5.60	150	0.36	77	139708.8
Hobart Yard Improvements_CTF12	Paving Equipment	2	5.20	89	0.36	208	69308.928
Hobart Yard Improvements_CTF12	Rollers	2	2.40	36	0.38	208	13658.112
Commerce Yard Improvements_CTF1	Trenchers	1	5.60	40	0.50	53	5936
Commerce Yard Improvements_CTF3	Rubber Tired Loaders	4	4.40	150	0.36	236	224294.4
Commerce Yard Improvements_CTF3	Tractors/Loaders/Backhoes	3	4.40	84	0.37	236	96820.416
Commerce Yard Improvements_CTF3	Rough Terrain Forklifts	3	3.60	100	0.40	236	101952
Commerce Yard Improvements_CTF3	Graders	3	3.60	148	0.41	236	154661.184
Commerce Yard Improvements_CTF3	Rollers	3	3.60	36	0.38	236	34867.584
Commerce Yard Improvements_CTF4	Forklifts	3	3.20	82	0.20	314	49436.16
Commerce Yard Improvements_CTF5	Other Construction Equipment	10	4.00	82	0.42	367	505579.2
Commerce Yard Improvements_CTF6	Air Compressors	2	4.40	37	0.48	314	49074.432
Commerce Yard Improvements_CTF6	Generator Sets	2	3.60	14	0.74	314	23421.888
Commerce Yard Improvements_CTF6	Plate Compactors	4	3.20	8	0.43	314	13826.048
Commerce Yard Improvements_CTF7	Paving Equipment	2	5.60	89	0.36	105	37679.04
Commerce Yard Improvements_CTF7	Rollers	2	2.00	36	0.38	105	5745.6
Commerce Metrolink Stn_CTF1	Excavators	1	3.60	36	0.38	64	3151.872
Commerce Metrolink Stn_CTF1	Rubber Tired Loaders	2	5.60	150	0.36	64	38707.2
Commerce Metrolink Stn_CTF2	Other Construction Equipment	6	6.00	82	0.42	261	323598.24
Commerce Metrolink Stn_CTF3	Tractors/Loaders/Backhoes	1	4.00	84	0.37	65	8080.8
Commerce Metrolink Stn_CTF3	Plate Compactors	2	4.00	8	0.43	65	1788.8
Commerce Metrolink Stn_CTF4	Graders	1	2.40	148	0.41	66	9611.712
Commerce Metrolink Stn_CTF5	Rollers	2	1.60	36	0.38	44	1926.144
Norwalk-SFS Metrolink Stn_CTF1	Excavators	1	2.70	36	0.38	65	2400.84
Norwalk-SFS Metrolink Stn_CTF1	Rubber Tired Loaders	2	4.55	150	0.36	65	31941
Norwalk-SFS Metrolink Stn_CTF2	Tractors/Loaders/Backhoes	2	4.55	84	0.37	390	110302.92
Norwalk-SFS Metrolink Stn_CTF2	Other Construction Equipment	4	3.90	82	0.42	390	209532.96
Norwalk-SFS Metrolink Stn_CTF3	Rollers	2	2.80	36	0.38	42	3217.536
Norwalk-SFS Metrolink Stn_CTF4	Pavers	2	4.55	81	0.42	22	6810.804
Norwalk-SFS Metrolink Stn_CTF4	Graders	1	5.25	148	0.41	22	7008.54
Buena Park Metrolink Stn_CTF1	Excavators	1	4.40	36	0.38	65	3912.48
Buena Park Metrolink Stn_CTF2	Other Construction Equipment	6	4.80	82	0.42	325	322358.4
Buena Park Metrolink Stn_CTF3	Graders	1	2.40	148	0.41	66	9611.712
Buena Park Metrolink Stn_CTF4	Rubber Tired Loaders	2	5.60	150	0.36	88	53222.4
Buena Park Metrolink Stn_CTF5	Rollers	2	1.60	36	0.38	23	1006.848
Buena Park Metrolink Stn_CTF5	Tractors/Loaders/Backhoes	1	4.00	84	0.37	23	2859.36
Buena Park Metrolink Stn_CTF5	Plate Compactors	2	4.00	8	0.43	23	632.96
ARTIC Station_CTF1	Excavators	2	3.90	36	0.38	151	16112.304
ARTIC Station_CTF2	Rubber Tired Loaders	3	5.60	150	0.36	174	157852.8
ARTIC Station_CTF2	Rough Terrain Forklifts	1	2.10	100	0.40	174	14616
ARTIC Station_CTF4	Other Construction Equipment	6	3.00	82	0.42	783	485397.36
ARTIC Station_CTF5	Bore/Drill Rigs	1	1.50	83	0.50	107	6660.75
ARTIC Station_CTF6	Cranes	1	1.40	367	0.29	152	22648.304
ARTIC Station_CTF7	Pumps	2	1.40	11	0.74	368	8387.456
ARTIC Station_CTF8	Graders	1	5.60	148	0.41	43	14611.744
ARTIC Station_CTF9	Rollers	1	3.85	36	0.38	66	3476.088
ARTIC Station_CTF9	Plate Compactors	4	1.80	8	0.43	66	1634.688
ARTIC Station_CTF10	Pavers	1	5.95	81	0.42	20	4048.38
ARTIC Station_CTF11	Tractors/Loaders/Backhoes	3	4.20	84	0.37	151	59132.808
Fullerton Metrolink Stn_FD	Other Construction Equipment	4	1	82	0.42	283	35087.472
Fullerton Metrolink Stn_CTF1	Excavators	2	4	36	0.38	87	8569.152
Fullerton Metrolink Stn_CTF1	Rough Terrain Forklifts	1	2	100	0.40	87	7308
Fullerton Metrolink Stn_CTF1	Rubber Tired Loaders	4	4	150	0.36	87	78926.4
Fullerton Metrolink Stn_CTF2	Air Compressors	1	1	37	0.48	64	1193.472
Fullerton Metrolink Stn_CTF2	Cranes	2	2	367	0.29	64	28608.384
Fullerton Metrolink Stn_CTF3	Graders	1	5	148	0.41	44	14017.08
Fullerton Metrolink Stn_CTF3	Plate Compactors	3	1	8	0.43	44	635.712

Phase Name	Equipment	# of Equipment	Hours/Day	HP	Load Factor	Days	Total HP-HR
Fullerton Metrolink Stn_CTF3	Rollers	2	1	36	0.38	44	1685.376
Fullerton Metrolink Stn_CTF3	Rough Terrain Forklifts	1	2	100	0.40	44	3696
Fullerton Metrolink Stn_CTF4	Rough Terrain Forklifts	1	2	100	0.40	110	9240
Fullerton Metrolink Stn_CTF4	Pumps	4	1	11	0.74	110	3760.68
Fullerton Metrolink Stn_CTF5	Pavers	1	2	81	0.42	65	3980.34
Fullerton Metrolink Stn_CTF5	Air Compressors	1	5	37	0.48	65	5252.52

Total >100HP	19,074,126.43
Total <100HP	25,405,843.11

Notes:
1. CARB, 2017 Off-road Diesel Emission Factors
https://ww2.arb.ca.gov/resources/documents/2017-road-diesel-propane-gasoline-emission-factors

Haul Trucks

Onroad Travel Consumption	Value
EMFAC2021 Diesel Fuel Consumption Factor (gal/mi):[1]	0.149
Total VMT (mi):	14,435,113
Total diesel gallons	**2,145,324**
Idling Consumption	**Value**
Idling Fuel Consumption Factor (gal/hr):[2]	0.6400
Total Idle-Hours per Year:	9,493
Total diesel gallons	**6,076**

Total diesel gallons: 2,151,400

Phase	Days	Truck Trips per Day (In/Out)	Total Truck Trips	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
At-Grade Rail-Ballasted Track-2033_Utilities	260	2	520	0.1	50	HHDT	26052	21.66666667	3871.81	13.87	3885.67
At-Grade Rail-Ballasted Track-2033_Track Install	313	0	0	0	50	HHDT	0	26.08333333	0.00	16.69	16.69
At-Grade Rail-Ballasted Track-2034_Utilities	260	2	520	0.1	50	HHDT	26052	21.66666667	3871.81	13.87	3885.67
At-Grade Rail-Ballasted Track-2034_Track Install	312	0	0	0	50	HHDT	0	26	0.00	16.64	16.64
At-Grade Rail-Ballasted Track-2035_Utilities	66	2	132	0.1	50	HHDT	6613.2	5.5	982.84	3.52	986.36
At-Grade Rail-Ballasted Track-2035_Track Install	79	0	0	0	50	HHDT	0	6.583333333	0.00	4.21	4.21
At-Grade Rail-Ballasted Track-2036_Utilities	130	2	260	0.1	50	HHDT	13026	10.83333333	1935.90	6.93	1942.84
At-Grade Rail-Ballasted Track-2036_Track Install	156	0	0	0	50	HHDT	0	13	0.00	8.32	8.32
At-Grade Rail-Ballasted Track-2037_Utilities	86	2	172	0.1	50	HHDT	8617.2	7.166666667	1280.67	4.59	1285.26
At-Grade Rail-Ballasted Track-2037_Track Install	103	0	0	0	50	HHDT	0	8.583333333	0.00	5.49	5.49
South of Fullerton-Ballasted Track_FD	197	2	394	0.1	50	HHDT	19739.4	16.41666667	2933.64	10.51	2944.15
Rail Direct Fixation_CTF1	130	0	0	0	50	HHDT	0	10.83333333	0.00	6.93	6.93
Rail Direct Fixation_CTF2	261	0	0	0	50	HHDT	0	21.75	0.00	13.92	13.92
Rail Direct Fixation_CTF3	262	0	0	0	50	HHDT	0	21.83333333	0.00	13.97	13.97
Commerce Viaduct_FD	652	10	6520	0.1	50	HHDT	326652	54.33333333	48546.51	34.77	48581.29
Commerce Viaduct_Box Girders	695	0	0	0	50	HHDT	0	57.91666667	0.00	37.07	37.07
Commerce Viaduct_CTF1	217	0	0	0	50	HHDT	0	18.08333333	0.00	11.57	11.57
Commerce Viaduct_CTF2	652	0	0	0	50	HHDT	0	54.33333333	0.00	34.77	34.77
Commerce Viaduct_CTF3	261	0	0	0	50	HHDT	0	21.75	0.00	13.92	13.92
Commerce Viaduct_CTF4	107	0	0	0	50	HHDT	0	8.916666667	0.00	5.71	5.71
Commerce Viaduct_CTF5	695	0	0	0	50	HHDT	0	57.91666667	0.00	37.07	37.07
Commerce Viaduct_CTF6	436	0	0	0	50	HHDT	0	36.33333333	0.00	23.25	23.25
Commerce Viaduct_CTF7	522	0	0	0	50	HHDT	0	43.5	0.00	27.84	27.84
Norwalk-SFS Viaduct_FD	782	8	6256	0.1	50	HHDT	313425.6	65.16666667	46580.83	41.71	46622.53
Norwalk-SFS Viaduct_Box Girders	653	0	0	0	50	HHDT	0	54.41666667	0.00	34.83	34.83
Norwalk-SFS Viaduct_CTF1	782	0	0	0	50	HHDT	0	65.16666667	0.00	41.71	41.71
Norwalk-SFS Viaduct_CTF2	261	0	0	0	50	HHDT	0	21.75	0.00	13.92	13.92
Norwalk-SFS Viaduct_CTF3	107	0	0	0	50	HHDT	0	8.916666667	0.00	5.71	5.71
Norwalk-SFS Viaduct_CTF4	522	0	0	0	50	HHDT	0	43.5	0.00	27.84	27.84
Norwalk-SFS Viaduct_CTF5	653	0	0	0	50	HHDT	0	54.41666667	0.00	34.83	34.83
Norwalk-SFS Viaduct_CTF6	261	0	0	0	50	HHDT	0	21.75	0.00	13.92	13.92
Fullerton Trench_FD	912	42	38304	0.1	50	HHDT	1919030.4	76	285203.32	48.64	285251.96
Fullerton Trench_CTF1	653	0	0	0	50	HHDT	0	54.41666667	0.00	34.83	34.83
Fullerton Trench_CTF2	912	0	0	0	50	HHDT	0	76	0.00	48.64	48.64
Fullerton Trench_CTF3	175	0	0	0	50	HHDT	0	14.58333333	0.00	9.33	9.33
Fullerton Trench_CTF4	131	0	0	0	50	HHDT	0	10.91666667	0.00	6.99	6.99
Fullerton Trench_CTF5	717	0	0	0	50	HHDT	0	59.75	0.00	38.24	38.24
Fullerton Trench_CTF6	132	0	0	0	50	HHDT	0	11	0.00	7.04	7.04
Fullerton Trench_CTF7	260	0	0	0	50	HHDT	0	21.66666667	0.00	13.87	13.87
Fullerton Trench_CTF8	175	0	0	0	50	HHDT	0	14.58333333	0.00	9.33	9.33
Fullerton Trench_CTF9	261	0	0	0	50	HHDT	0	21.75	0.00	13.92	13.92

Phase	Days	Truck Trips per Day (In/Out)	Total Truck Trips	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Fullerton Trench_CTF10	86	0	0	0	50	HHDT	0	7.166666667	0.00	4.59	4.59
Fullerton Trench_CTF11	42	0	0	0	50	HHDT	0	3.5	0.00	2.24	2.24
I-10-L1 Grade Separation_FD	155	0	0	0	50	HHDT	0	12.91666667	0.00	8.27	8.27
South Downey Rd-L1 Grade Separation_FD	326	0	0	0	50	HHDT	0	27.16666667	0.00	17.39	17.39
South Downey Rd-L1 Grade Separation_CTF1	326	0	0	0	50	HHDT	0	27.16666667	0.00	17.39	17.39
South Downey Rd-L1 Grade Separation_CTF2	240	0	0	0	50	HHDT	0	20	0.00	12.80	12.80
South Downey Rd-L1 Grade Separation_CTF3	390	0	0	0	50	HHDT	0	32.5	0.00	20.80	20.80
I-710-L1 Grade Separation_FD	53	0	0	0	50	HHDT	0	4.416666667	0.00	2.83	2.83
I-5-L1 Grade Separation_FD	52	0	0	0	50	HHDT	0	4.333333333	0.00	2.77	2.77
Greenwood Ave-L1 Grade Separation_FD	53	0	0	0	50	HHDT	0	4.416666667	0.00	2.83	2.83
Paramount Blvd-L1 Grade Separation_FD	51	0	0	0	50	HHDT	0	4.25	0.00	2.72	2.72
SR-91-L1 Grade Separation_FD	42	0	0	0	50	HHDT	0	3.5	0.00	2.24	2.24
Lincoln Ave-L1 Grade Separation_FD	44	0	0	0	50	HHDT	0	3.666666667	0.00	2.35	2.35
Eastern Ave-L2 Grade Separation_FD	457	2	914	0.1	50	HHDT	45791.4	38.08333333	6805.45	24.37	6829.82
Eastern Ave-L2 Grade Separation_CTF1	108	0	0	0	50	HHDT	0	9	0.00	5.76	5.76
Eastern Ave-L2 Grade Separation_CTF2	457	0	0	0	50	HHDT	0	38.08333333	0.00	24.37	24.37
Eastern Ave-L2 Grade Separation_CTF3	43	0	0	0	50	HHDT	0	3.583333333	0.00	2.29	2.29
Eastern Ave-L2 Grade Separation_CTF4	108	0	0	0	50	HHDT	0	9	0.00	5.76	5.76
Eastern Ave-L2 Grade Separation_CTF5	131	0	0	0	50	HHDT	0	10.91666667	0.00	6.99	6.99
Eastern Ave-L2 Grade Separation_CTF6	195	0	0	0	50	HHDT	0	16.25	0.00	10.40	10.40
Eastern Ave-L2 Grade Separation_CTF7	261	0	0	0	50	HHDT	0	21.75	0.00	13.92	13.92
Eastern Ave-L2 Grade Separation_CTF8	45	0	0	0	50	HHDT	0	3.75	0.00	2.40	2.40
Eastern Ave-L2 Grade Separation_CTF9	85	0	0	0	50	HHDT	0	7.083333333	0.00	4.53	4.53
Passons Blvd-L2 Grade Separation_FD	326	2	652	0.1	50	HHDT	32665.2	27.16666667	4854.65	17.39	4872.04
Passons Blvd-L2 Grade Separation_CTF1	42	0	0	0	50	HHDT	0	3.5	0.00	2.24	2.24
Passons Blvd-L2 Grade Separation_CTF2	87	0	0	0	50	HHDT	0	7.25	0.00	4.64	4.64
Passons Blvd-L2 Grade Separation_CTF3	130	0	0	0	50	HHDT	0	10.83333333	0.00	6.93	6.93
Passons Blvd-L2 Grade Separation_CTF4	326	0	0	0	50	HHDT	0	27.16666667	0.00	17.39	17.39
Passons Blvd-L2 Grade Separation_CTF5	65	0	0	0	50	HHDT	0	5.416666667	0.00	3.47	3.47
Passons Blvd-L2 Grade Separation_CTF6	65	0	0	0	50	HHDT	0	5.416666667	0.00	3.47	3.47
Passons Blvd-L2 Grade Separation_CTF7	87	0	0	0	50	HHDT	0	7.25	0.00	4.64	4.64
Sante Fe Springs-L2 Grade Separation_FD	326	2	652	0.1	50	HHDT	32665.2	27.16666667	4854.65	17.39	4872.04
Sante Fe Springs-L2 Grade Separation_CTF1	87	0	0	0	50	HHDT	0	7.25	0.00	4.64	4.64
Sante Fe Springs-L2 Grade Separation_CTF2	326	0	0	0	50	HHDT	0	27.16666667	0.00	17.39	17.39
Sante Fe Springs-L2 Grade Separation_CTF3	110	0	0	0	50	HHDT	0	9.166666667	0.00	5.87	5.87
Sante Fe Springs-L2 Grade Separation_CTF4	132	0	0	0	50	HHDT	0	11	0.00	7.04	7.04
Sante Fe Springs-L2 Grade Separation_CTF5	43	0	0	0	50	HHDT	0	3.583333333	0.00	2.29	2.29
Sante Fe Springs-L2 Grade Separation_CTF6	87	0	0	0	50	HHDT	0	7.25	0.00	4.64	4.64
Sante Fe Springs-L2 Grade Separation_CTF7	107	0	0	0	50	HHDT	0	8.916666667	0.00	5.71	5.71
Telegraph Road-L2 Grade Separation_FD	390	2	780	0.1	50	HHDT	39078	32.5	5807.71	20.80	5828.51
Telegraph Road-L2 Grade Separation_CTF1	64	0	0	0	50	HHDT	0	5.333333333	0.00	3.41	3.41
Telegraph Road-L2 Grade Separation_CTF2	85	0	0	0	50	HHDT	0	7.083333333	0.00	4.53	4.53
Telegraph Road-L2 Grade Separation_CTF3	390	0	0	0	50	HHDT	0	32.5	0.00	20.80	20.80
Telegraph Road-L2 Grade Separation_CTF4	43	0	0	0	50	HHDT	0	3.583333333	0.00	2.29	2.29
Telegraph Road-L2 Grade Separation_CTF5	88	0	0	0	50	HHDT	0	7.333333333	0.00	4.69	4.69
Telegraph Road-L2 Grade Separation_CTF6	217	0	0	0	50	HHDT	0	18.08333333	0.00	11.57	11.57
Valley View Ave-L2 Grade Separation_FD	326	2	652	0.1	50	HHDT	32665.2	27.16666667	4854.65	17.39	4872.04
Valley View Ave-L2 Grade Separation_CTF1	44	0	0	0	50	HHDT	0	3.666666667	0.00	2.35	2.35
Valley View Ave-L2 Grade Separation_CTF2	326	0	0	0	50	HHDT	0	27.16666667	0.00	17.39	17.39
Valley View Ave-L2 Grade Separation_CTF3	43	0	0	0	50	HHDT	0	3.583333333	0.00	2.29	2.29
Valley View Ave-L2 Grade Separation_CTF4	66	0	0	0	50	HHDT	0	5.5	0.00	3.52	3.52
Valley View Ave-L2 Grade Separation_CTF5	64	0	0	0	50	HHDT	0	5.333333333	0.00	3.41	3.41
Valley View Ave-L2 Grade Separation_CTF6	107	0	0	0	50	HHDT	0	8.916666667	0.00	5.71	5.71
Valley View Ave-L2 Grade Separation_CTF7	151	0	0	0	50	HHDT	0	12.58333333	0.00	8.05	8.05

Phase	Days	Truck Trips per Day (In/Out)	Total Truck Trips	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Valley View Ave-L2 Grade Separation_CTF8	216	0	0	0	50	HHDT	0	18	0.00	11.52	11.52
Valley View Ave-L2 Grade Separation_CTF9	43	0	0	0	50	HHDT	0	3.583333333	0.00	2.29	2.29
Valley View Ave-L2 Grade Separation_CTF10	66	0	0	0	50	HHDT	0	5.5	0.00	3.52	3.52
Beach Blvd-L2 Grade Separation_FD	261	2	522	0.1	50	HHDT	26152.2	21.75	3886.70	13.92	3900.62
Beach Blvd-L2 Grade Separation_CTF1	43	0	0	0	50	HHDT	0	3.583333333	0.00	2.29	2.29
Beach Blvd-L2 Grade Separation_CTF2	87	0	0	0	50	HHDT	0	7.25	0.00	4.64	4.64
Beach Blvd-L2 Grade Separation_CTF3	109	0	0	0	50	HHDT	0	9.083333333	0.00	5.81	5.81
Beach Blvd-L2 Grade Separation_CTF4	261	0	0	0	50	HHDT	0	21.75	0.00	13.92	13.92
Beach Blvd-L2 Grade Separation_CTF5	109	0	0	0	50	HHDT	0	9.083333333	0.00	5.81	5.81
Beach Blvd-L2 Grade Separation_CTF6	109	0	0	0	50	HHDT	0	9.083333333	0.00	5.81	5.81
Gilbert St-L2 Grade Separation_FD	390	2	780	0.1	50	HHDT	39078	32.5	5807.71	20.80	5828.51
Gilbert St-L2 Grade Separation_CTF1	43	0	0	0	50	HHDT	0	3.583333333	0.00	2.29	2.29
Gilbert St-L2 Grade Separation_CTF2	86	0	0	0	50	HHDT	0	7.166666667	0.00	4.59	4.59
Gilbert St-L2 Grade Separation_CTF3	130	0	0	0	50	HHDT	0	10.83333333	0.00	6.93	6.93
Gilbert St-L2 Grade Separation_CTF4	390	0	0	0	50	HHDT	0	32.5	0.00	20.80	20.80
Gilbert St-L2 Grade Separation_CTF5	216	0	0	0	50	HHDT	0	18	0.00	11.52	11.52
Gilbert St-L2 Grade Separation_CTF6	132	0	0	0	50	HHDT	0	11	0.00	7.04	7.04
Gilbert St-L2 Grade Separation_CTF7	218	0	0	0	50	HHDT	0	18.16666667	0.00	11.63	11.63
Euclid St-L2 Grade Separation_FD	391	2	782	0.1	50	HHDT	39178.2	32.58333333	5822.60	20.85	5843.46
Euclid St-L2 Grade Separation_CTF1	262	0	0	0	50	HHDT	0	21.83333333	0.00	13.97	13.97
Euclid St-L2 Grade Separation_CTF2	283	0	0	0	50	HHDT	0	23.58333333	0.00	15.09	15.09
Euclid St-L2 Grade Separation_CTF3	326	0	0	0	50	HHDT	0	27.16666667	0.00	17.39	17.39
Euclid St-L2 Grade Separation_CTF4	391	0	0	0	50	HHDT	0	32.58333333	0.00	20.85	20.85
Euclid St-L2 Grade Separation_CTF5	43	0	0	0	50	HHDT	0	3.583333333	0.00	2.29	2.29
Euclid St-L2 Grade Separation_CTF6	88	0	0	0	50	HHDT	0	7.333333333	0.00	4.69	4.69
Euclid St-L2 Grade Separation_CTF7	43	0	0	0	50	HHDT	0	3.583333333	0.00	2.29	2.29
Euclid St-L2 Grade Separation_CTF8	154	0	0	0	50	HHDT	0	12.83333333	0.00	8.21	8.21
Lemon St-L2 Grade Separation_FD	650	0	0	0	50	HHDT	0	54.16666667	0.00	34.67	34.67
Lemon St-L2 Grade Separation_CTF1	238	0	0	0	50	HHDT	0	19.83333333	0.00	12.69	12.69
Lemon St-L2 Grade Separation_CTF2	650	0	0	0	50	HHDT	0	54.16666667	0.00	34.67	34.67
Lemon St-L2 Grade Separation_CTF3	79	0	0	0	50	HHDT	0	6.583333333	0.00	4.21	4.21
Lemon St-L2 Grade Separation_CTF4	261	0	0	0	50	HHDT	0	21.75	0.00	13.92	13.92
Lemon St-L2 Grade Separation_CTF5	109	0	0	0	50	HHDT	0	9.083333333	0.00	5.81	5.81
Lemon St-L2 Grade Separation_CTF6	132	0	0	0	50	HHDT	0	11	0.00	7.04	7.04
Lemon St-L2 Grade Separation_CTF7	305	0	0	0	50	HHDT	0	25.41666667	0.00	16.27	16.27
Atlantic Blvd-L3 Grade Separation_FD	328	2	656	0.1	50	HHDT	32865.6	27.33333333	4884.43	17.49	4901.93
Atlantic Blvd-L3 Grade Separation_CTF1	132	0	0	0	50	HHDT	0	11	0.00	7.04	7.04
Atlantic Blvd-L3 Grade Separation_CTF2	154	0	0	0	50	HHDT	0	12.83333333	0.00	8.21	8.21
Atlantic Blvd-L3 Grade Separation_CTF3	219	0	0	0	50	HHDT	0	18.25	0.00	11.68	11.68
Atlantic Blvd-L3 Grade Separation_CTF4	328	0	0	0	50	HHDT	0	27.33333333	0.00	17.49	17.49
Atlantic Blvd-L3 Grade Separation_CTF5	66	0	0	0	50	HHDT	0	5.5	0.00	3.52	3.52
Atlantic Blvd-L3 Grade Separation_CTF6	86	0	0	0	50	HHDT	0	7.166666667	0.00	4.59	4.59
Atlantic Blvd-L3 Grade Separation_CTF7	131	0	0	0	50	HHDT	0	10.91666667	0.00	6.99	6.99
Atlantic Blvd-L3 Grade Separation_CTF8	174	0	0	0	50	HHDT	0	14.5	0.00	9.28	9.28
Atlantic Blvd-L3 Grade Separation_CTF9	261	0	0	0	50	HHDT	0	21.75	0.00	13.92	13.92
Rosemead Blvd-L3 Grade Separation_FD	521	6	3126	0.1	50	HHDT	156612.6	43.41666667	23275.52	27.79	23303.31
Rosemead Blvd-L3 Grade Separation_CTF1	108	0	0	0	50	HHDT	0	9	0.00	5.76	5.76
Rosemead Blvd-L3 Grade Separation_CTF2	521	0	0	0	50	HHDT	0	43.41666667	0.00	27.79	27.79
Rosemead Blvd-L3 Grade Separation_CTF3	63	0	0	0	50	HHDT	0	5.25	0.00	3.36	3.36
Rosemead Blvd-L3 Grade Separation_CTF4	108	0	0	0	50	HHDT	0	9	0.00	5.76	5.76
Rosemead Blvd-L3 Grade Separation_CTF5	433	0	0	0	50	HHDT	0	36.08333333	0.00	23.09	23.09
Rosemead Blvd-L3 Grade Separation_CTF6	66	0	0	0	50	HHDT	0	5.5	0.00	3.52	3.52
Rosemead Blvd-L3 Grade Separation_CTF7	86	0	0	0	50	HHDT	0	7.166666667	0.00	4.59	4.59
Rosemead Blvd-L3 Grade Separation_CTF8	413	0	0	0	50	HHDT	0	34.41666667	0.00	22.03	22.03

Phase	Days	Truck Trips per Day (In/Out)	Total Truck Trips	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Rosemead Blvd-L3 Grade Separation_CTF9	45	0	0	0	50	HHDT	0	3.75	0.00	2.40	2.40
Rosemead Blvd-L3 Grade Separation_CTF10	260	0	0	0	50	HHDT	0	21.66666667	0.00	13.87	13.87
Rosemead Blvd-L3 Grade Separation_CTF11	109	0	0	0	50	HHDT	0	9.083333333	0.00	5.81	5.81
Rosemead Blvd-L3 Grade Separation_CTF12	22	0	0	0	50	HHDT	0	1.833333333	0.00	1.17	1.17
Rosemead Blvd-L3 Grade Separation_CTF13	109	0	0	0	50	HHDT	0	9.083333333	0.00	5.81	5.81
Rosemead Blvd-L3 Grade Separation_CTF14	43	0	0	0	50	HHDT	0	3.583333333	0.00	2.29	2.29
Rosemead Blvd-L3 Grade Separation_CTF15	86	0	0	0	50	HHDT	0	7.166666667	0.00	4.59	4.59
Rosemead Blvd-L3 Grade Separation_CTF16	66	0	0	0	50	HHDT	0	5.5	0.00	3.52	3.52
Slauson Ave-L3 Grade Separation_FD	347	2	694	0.1	50	HHDT	34769.4	28.91666667	5167.37	18.51	5185.88
Slauson Ave-L3 Grade Separation_CTF1	109	0	0	0	50	HHDT	0	9.083333333	0.00	5.81	5.81
Slauson Ave-L3 Grade Separation_CTF2	347	0	0	0	50	HHDT	0	28.91666667	0.00	18.51	18.51
Slauson Ave-L3 Grade Separation_CTF3	65	0	0	0	50	HHDT	0	5.416666667	0.00	3.47	3.47
Slauson Ave-L3 Grade Separation_CTF4	87	0	0	0	50	HHDT	0	7.25	0.00	4.64	4.64
Slauson Ave-L3 Grade Separation_CTF5	109	0	0	0	50	HHDT	0	9.083333333	0.00	5.81	5.81
Slauson Ave-L3 Grade Separation_CTF6	109	0	0	0	50	HHDT	0	9.083333333	0.00	5.81	5.81
Slauson Ave-L3 Grade Separation_CTF7	173	0	0	0	50	HHDT	0	14.41666667	0.00	9.23	9.23
Carmenita Rd-L3 Grade Separation_FD	521	4	2084	0.1	50	HHDT	104408.4	43.41666667	15517.01	27.79	15544.80
Carmenita Rd-L3 Grade Separation_CTF1	109	0	0	0	50	HHDT	0	9.083333333	0.00	5.81	5.81
Carmenita Rd-L3 Grade Separation_CTF2	196	0	0	0	50	HHDT	0	16.33333333	0.00	10.45	10.45
Carmenita Rd-L3 Grade Separation_CTF3	218	0	0	0	50	HHDT	0	18.16666667	0.00	11.63	11.63
Carmenita Rd-L3 Grade Separation_CTF4	521	0	0	0	50	HHDT	0	43.41666667	0.00	27.79	27.79
Carmenita Rd-L3 Grade Separation_CTF5	195	0	0	0	50	HHDT	0	16.25	0.00	10.40	10.40
Carmenita Rd-L3 Grade Separation_CTF6	304	0	0	0	50	HHDT	0	25.33333333	0.00	16.21	16.21
Carmenita Rd-L3 Grade Separation_CTF7	66	0	0	0	50	HHDT	0	5.5	0.00	3.52	3.52
Carmenita Rd-L3 Grade Separation_CTF8	87	0	0	0	50	HHDT	0	7.25	0.00	4.64	4.64
Carmenita Rd-L3 Grade Separation_CTF9	368	0	0	0	50	HHDT	0	30.66666667	0.00	19.63	19.63
Carmenita Rd-L3 Grade Separation_CTF10	108	0	0	0	50	HHDT	0	9	0.00	5.76	5.76
Carmenita Rd-L3 Grade Separation_CTF11	195	0	0	0	50	HHDT	0	16.25	0.00	10.40	10.40
Alondra Blvd-L3 Grade Separation_FD	652	10	6520	0.1	50	HHDT	326652	54.33333333	48546.51	34.77	48581.29
Alondra Blvd-L3 Grade Separation_CTF1	153	0	0	0	50	HHDT	0	12.75	0.00	8.16	8.16
Alondra Blvd-L3 Grade Separation_CTF2	217	0	0	0	50	HHDT	0	18.08333333	0.00	11.57	11.57
Alondra Blvd-L3 Grade Separation_CTF3	261	0	0	0	50	HHDT	0	21.75	0.00	13.92	13.92
Alondra Blvd-L3 Grade Separation_CTF4	327	0	0	0	50	HHDT	0	27.25	0.00	17.44	17.44
Alondra Blvd-L3 Grade Separation_CTF5	587	0	0	0	50	HHDT	0	48.91666667	0.00	31.31	31.31
Alondra Blvd-L3 Grade Separation_CTF6	652	0	0	0	50	HHDT	0	54.33333333	0.00	34.77	34.77
Alondra Blvd-L3 Grade Separation_CTF7	44	0	0	0	50	HHDT	0	3.666666667	0.00	2.35	2.35
Alondra Blvd-L3 Grade Separation_CTF8	174	0	0	0	50	HHDT	0	14.5	0.00	9.28	9.28
Alondra Blvd-L3 Grade Separation_CTF9	217	0	0	0	50	HHDT	0	18.08333333	0.00	11.57	11.57
Alondra Blvd-L3 Grade Separation_CTF10	478	0	0	0	50	HHDT	0	39.83333333	0.00	25.49	25.49
Alondra Blvd-L3 Grade Separation_CTF11	565	0	0	0	50	HHDT	0	47.08333333	0.00	30.13	30.13
Alondra Blvd-L3 Grade Separation_CTF12	43	0	0	0	50	HHDT	0	3.583333333	0.00	2.29	2.29
Dale St-L3 Grade Separation_FD	326	4	1304	0.1	50	HHDT	65330.4	27.16666667	9709.30	17.39	9726.69
Dale St-L3 Grade Separation_CTF1	21	0	0	0	50	HHDT	0	1.75	0.00	1.12	1.12
Dale St-L3 Grade Separation_CTF2	43	0	0	0	50	HHDT	0	3.583333333	0.00	2.29	2.29
Dale St-L3 Grade Separation_CTF3	86	0	0	0	50	HHDT	0	7.166666667	0.00	4.59	4.59
Dale St-L3 Grade Separation_CTF4	109	0	0	0	50	HHDT	0	9.083333333	0.00	5.81	5.81
Dale St-L3 Grade Separation_CTF5	174	0	0	0	50	HHDT	0	14.5	0.00	9.28	9.28
Dale St-L3 Grade Separation_CTF6	218	0	0	0	50	HHDT	0	18.16666667	0.00	11.63	11.63
Dale St-L3 Grade Separation_CTF7	217	0	0	0	50	HHDT	0	18.08333333	0.00	11.57	11.57
Dale St-L3 Grade Separation_CTF8	110	0	0	0	50	HHDT	0	9.166666667	0.00	5.87	5.87
Dale St-L3 Grade Separation_CTF9	77	0	0	0	50	HHDT	0	6.416666667	0.00	4.11	4.11
Commonwealth Ave-L3 Grade Separation_FD	522	10	5220	0.1	50	HHDT	261522	43.5	38866.99	27.84	38894.83
Commonwealth Ave-L3 Grade Separation_CTF1	132	0	0	0	50	HHDT	0	11	0.00	7.04	7.04
Commonwealth Ave-L3 Grade Separation_CTF2	261	0	0	0	50	HHDT	0	21.75	0.00	13.92	13.92

Phase	Days	Truck Trips per Day (In/Out)	Total Truck Trips	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Commonwealth Ave-L3 Grade Separation_CTF3	522	0	0	0	50	HHDT	0	43.5	0.00	27.84	27.84
Commonwealth Ave-L3 Grade Separation_CTF4	260	0	0	0	50	HHDT	0	21.66666667	0.00	13.87	13.87
Commonwealth Ave-L3 Grade Separation_CTF5	152	0	0	0	50	HHDT	0	12.66666667	0.00	8.11	8.11
Commonwealth Ave-L3 Grade Separation_CTF6	43	0	0	0	50	HHDT	0	3.583333333	0.00	2.29	2.29
Commonwealth Ave-L3 Grade Separation_CTF7	195	0	0	0	50	HHDT	0	16.25	0.00	10.40	10.40
Commonwealth Ave-L3 Grade Separation_CTF8	86	0	0	0	50	HHDT	0	7.166666667	0.00	4.59	4.59
Commonwealth Ave-L3 Grade Separation_CTF9	85	0	0	0	50	HHDT	0	7.083333333	0.00	4.53	4.53
Commonwealth Ave-L3 Grade Separation_CTF10	870	0	0	0	50	HHDT	0	72.5	0.00	46.40	46.40
Commonwealth Ave-L3 Grade Separation_CTF11	43	0	0	0	50	HHDT	0	3.583333333	0.00	2.29	2.29
Highland Ave-L3 Grade Separation_FD	651	4	2604	0.1	50	HHDT	130460.4	54.25	19388.82	34.72	19423.54
Highland Ave-L3 Grade Separation_CTF1	152	0	0	0	50	HHDT	0	12.66666667	0.00	8.11	8.11
Highland Ave-L3 Grade Separation_CTF2	130	0	0	0	50	HHDT	0	10.83333333	0.00	6.93	6.93
Highland Ave-L3 Grade Separation_CTF3	260	0	0	0	50	HHDT	0	21.66666667	0.00	13.87	13.87
Highland Ave-L3 Grade Separation_CTF4	651	0	0	0	50	HHDT	0	54.25	0.00	34.72	34.72
Highland Ave-L3 Grade Separation_CTF5	630	0	0	0	50	HHDT	0	52.5	0.00	33.60	33.60
Highland Ave-L3 Grade Separation_CTF6	66	0	0	0	50	HHDT	0	5.5	0.00	3.52	3.52
Highland Ave-L3 Grade Separation_CTF7	132	0	0	0	50	HHDT	0	11	0.00	7.04	7.04
Highland Ave-L3 Grade Separation_CTF8	154	0	0	0	50	HHDT	0	12.83333333	0.00	8.21	8.21
Highland Ave-L3 Grade Separation_CTF9	174	0	0	0	50	HHDT	0	14.5	0.00	9.28	9.28
Highland Ave-L3 Grade Separation_CTF10	130	0	0	0	50	HHDT	0	10.83333333	0.00	6.93	6.93
Highland Ave-L3 Grade Separation_CTF11	261	0	0	0	50	HHDT	0	21.75	0.00	13.92	13.92
Highland Ave-L3 Grade Separation_CTF12	217	0	0	0	50	HHDT	0	18.08333333	0.00	11.57	11.57
Highland Ave-L3 Grade Separation_CTF13	174	0	0	0	50	HHDT	0	14.5	0.00	9.28	9.28
Harbor Blvd-L3 Grade Separation_FD	522	2	1044	0.1	50	HHDT	52304.4	43.5	7773.40	27.84	7801.24
Harbor Blvd-L3 Grade Separation_CTF1	217	0	0	0	50	HHDT	0	18.08333333	0.00	11.57	11.57
Harbor Blvd-L3 Grade Separation_CTF2	522	0	0	0	50	HHDT	0	43.5	0.00	27.84	27.84
Harbor Blvd-L3 Grade Separation_CTF3	173	0	0	0	50	HHDT	0	14.41666667	0.00	9.23	9.23
Harbor Blvd-L3 Grade Separation_CTF4	217	0	0	0	50	HHDT	0	18.08333333	0.00	11.57	11.57
Harbor Blvd-L3 Grade Separation_CTF5	173	0	0	0	50	HHDT	0	14.41666667	0.00	9.23	9.23
Douglass Rd-L3 Grade Separation_FD	392	6	2352	0.1	50	HHDT	117835.2	32.66666667	17512.48	20.91	17533.39
Douglass Rd-L3 Grade Separation_CTF1	131	0	0	0	50	HHDT	0	10.91666667	0.00	6.99	6.99
Douglass Rd-L3 Grade Separation_CTF2	218	0	0	0	50	HHDT	0	18.16666667	0.00	11.63	11.63
Douglass Rd-L3 Grade Separation_CTF3	262	0	0	0	50	HHDT	0	21.83333333	0.00	13.97	13.97
Douglass Rd-L3 Grade Separation_CTF4	392	0	0	0	50	HHDT	0	32.66666667	0.00	20.91	20.91
Douglass Rd-L3 Grade Separation_CTF5	434	0	0	0	50	HHDT	0	36.16666667	0.00	23.15	23.15
Douglass Rd-L3 Grade Separation_CTF6	43	0	0	0	50	HHDT	0	3.583333333	0.00	2.29	2.29
Douglass Rd-L3 Grade Separation_CTF7	174	0	0	0	50	HHDT	0	14.5	0.00	9.28	9.28
Douglass Rd-L3 Grade Separation_CTF8	130	0	0	0	50	HHDT	0	10.83333333	0.00	6.93	6.93
Douglass Rd-L3 Grade Separation_CTF9	175	0	0	0	50	HHDT	0	14.58333333	0.00	9.33	9.33
Douglass Rd-L3 Grade Separation_CTF10	196	0	0	0	50	HHDT	0	16.33333333	0.00	10.45	10.45
Douglass Rd-L3 Grade Separation_CTF11	64	0	0	0	50	HHDT	0	5.333333333	0.00	3.41	3.41
Pioneer Blvd-L4 Grade Separation_FD	654	4	2616	0.1	50	HHDT	131061.6	54.5	19478.17	34.88	19513.05
Pioneer Blvd-L4 Grade Separation_CTF1	262	0	0	0	50	HHDT	0	21.83333333	0.00	13.97	13.97
Pioneer Blvd-L4 Grade Separation_CTF2	349	0	0	0	50	HHDT	0	29.08333333	0.00	18.61	18.61
Pioneer Blvd-L4 Grade Separation_CTF3	654	0	0	0	50	HHDT	0	54.5	0.00	34.88	34.88
Pioneer Blvd-L4 Grade Separation_CTF4	132	0	0	0	50	HHDT	0	11	0.00	7.04	7.04
Pioneer Blvd-L4 Grade Separation_CTF5	153	0	0	0	50	HHDT	0	12.75	0.00	8.16	8.16
Pioneer Blvd-L4 Grade Separation_CTF6	262	0	0	0	50	HHDT	0	21.83333333	0.00	13.97	13.97
Pioneer Blvd-L4 Grade Separation_CTF7	131	0	0	0	50	HHDT	0	10.91666667	0.00	6.99	6.99
Pioneer Blvd-L4 Grade Separation_CTF8	174	0	0	0	50	HHDT	0	14.5	0.00	9.28	9.28
Pioneer Blvd-L4 Grade Separation_CTF9	479	0	0	0	50	HHDT	0	39.91666667	0.00	25.55	25.55
Pioneer Blvd-L4 Grade Separation_CTF10	457	0	0	0	50	HHDT	0	38.08333333	0.00	24.37	24.37
Pioneer Blvd-L4 Grade Separation_CTF11	130	0	0	0	50	HHDT	0	10.83333333	0.00	6.93	6.93
Pioneer Blvd-L4 Grade Separation_CTF12	349	0	0	0	50	HHDT	0	29.08333333	0.00	18.61	18.61

Phase	Days	Truck Trips per Day (In/Out)	Total Truck Trips	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Pioneer Blvd-L4 Grade Separation_CTF13	175	0	0	0	50	HHDT	0	14.58333333	0.00	9.33	9.33
Pioneer Blvd-L4 Grade Separation_CTF14	107	0	0	0	50	HHDT	0	8.916666667	0.00	5.71	5.71
Pioneer Blvd-L4 Grade Separation_CTF15	44	0	0	0	50	HHDT	0	3.666666667	0.00	2.35	2.35
Pioneer Blvd-L4 Grade Separation_CTF16	66	0	0	0	50	HHDT	0	5.5	0.00	3.52	3.52
Norwalk Blvd-L4 Grade Separation_FD	782	4	3128	0.1	50	HHDT	156712.8	65.16666667	23290.41	41.71	23332.12
Norwalk Blvd-L4 Grade Separation_CTF1	131	0	0	0	50	HHDT	0	10.91666667	0.00	6.99	6.99
Norwalk Blvd-L4 Grade Separation_CTF2	152	0	0	0	50	HHDT	0	12.66666667	0.00	8.11	8.11
Norwalk Blvd-L4 Grade Separation_CTF3	391	0	0	0	50	HHDT	0	32.58333333	0.00	20.85	20.85
Norwalk Blvd-L4 Grade Separation_CTF4	542	0	0	0	50	HHDT	0	45.16666667	0.00	28.91	28.91
Norwalk Blvd-L4 Grade Separation_CTF5	782	0	0	0	50	HHDT	0	65.16666667	0.00	41.71	41.71
Norwalk Blvd-L4 Grade Separation_CTF6	131	0	0	0	50	HHDT	0	10.91666667	0.00	6.99	6.99
Norwalk Blvd-L4 Grade Separation_CTF7	107	0	0	0	50	HHDT	0	8.916666667	0.00	5.71	5.71
Norwalk Blvd-L4 Grade Separation_CTF8	130	0	0	0	50	HHDT	0	10.83333333	0.00	6.93	6.93
Norwalk Blvd-L4 Grade Separation_CTF9	390	0	0	0	50	HHDT	0	32.5	0.00	20.80	20.80
Norwalk Blvd-L4 Grade Separation_CTF10	130	0	0	0	50	HHDT	0	10.83333333	0.00	6.93	6.93
Norwalk Blvd-L4 Grade Separation_CTF11	218	0	0	0	50	HHDT	0	18.16666667	0.00	11.63	11.63
Los Nietos Rd-L4 Grade Separation_FD	782	4	3128	0.1	50	HHDT	156712.8	65.16666667	23290.41	41.71	23332.12
Los Nietos Rd-L4 Grade Separation_CTF1	131	0	0	0	50	HHDT	0	10.91666667	0.00	6.99	6.99
Los Nietos Rd-L4 Grade Separation_CTF2	152	0	0	0	50	HHDT	0	12.66666667	0.00	8.11	8.11
Los Nietos Rd-L4 Grade Separation_CTF3	391	0	0	0	50	HHDT	0	32.58333333	0.00	20.85	20.85
Los Nietos Rd-L4 Grade Separation_CTF4	542	0	0	0	50	HHDT	0	45.16666667	0.00	28.91	28.91
Los Nietos Rd-L4 Grade Separation_CTF5	782	0	0	0	50	HHDT	0	65.16666667	0.00	41.71	41.71
Los Nietos Rd-L4 Grade Separation_CTF6	131	0	0	0	50	HHDT	0	10.91666667	0.00	6.99	6.99
Los Nietos Rd-L4 Grade Separation_CTF7	107	0	0	0	50	HHDT	0	8.916666667	0.00	5.71	5.71
Los Nietos Rd-L4 Grade Separation_CTF8	130	0	0	0	50	HHDT	0	10.83333333	0.00	6.93	6.93
Los Nietos Rd-L4 Grade Separation_CTF9	390	0	0	0	50	HHDT	0	32.5	0.00	20.80	20.80
Los Nietos Rd-L4 Grade Separation_CTF10	130	0	0	0	50	HHDT	0	10.83333333	0.00	6.93	6.93
Los Nietos Rd-L4 Grade Separation_CTF11	218	0	0	0	50	HHDT	0	18.16666667	0.00	11.63	11.63
Cerritos Ave-L4 Grade Separation_FD	783	28	21924	0.1	50	HHDT	1098392.4	65.25	163241.37	41.76	163283.13
Cerritos Ave-L4 Grade Separation_CTF1	130	0	0	0	50	HHDT	0	10.83333333	0.00	6.93	6.93
Cerritos Ave-L4 Grade Separation_CTF2	130	0	0	0	50	HHDT	0	10.83333333	0.00	6.93	6.93
Cerritos Ave-L4 Grade Separation_CTF3	283	0	0	0	50	HHDT	0	23.58333333	0.00	15.09	15.09
Cerritos Ave-L4 Grade Separation_CTF4	391	0	0	0	50	HHDT	0	32.58333333	0.00	20.85	20.85
Cerritos Ave-L4 Grade Separation_CTF5	500	0	0	0	50	HHDT	0	41.66666667	0.00	26.67	26.67
Cerritos Ave-L4 Grade Separation_CTF6	783	0	0	0	50	HHDT	0	65.25	0.00	41.76	41.76
Cerritos Ave-L4 Grade Separation_CTF7	129	0	0	0	50	HHDT	0	10.75	0.00	6.88	6.88
Cerritos Ave-L4 Grade Separation_CTF8	434	0	0	0	50	HHDT	0	36.16666667	0.00	23.15	23.15
Cerritos Ave-L4 Grade Separation_CTF9	129	0	0	0	50	HHDT	0	10.75	0.00	6.88	6.88
Cerritos Ave-L4 Grade Separation_CTF10	172	0	0	0	50	HHDT	0	14.33333333	0.00	9.17	9.17
Cerritos Ave-L4 Grade Separation_CTF11	238	0	0	0	50	HHDT	0	19.83333333	0.00	12.69	12.69
Cerritos Ave-L4 Grade Separation_CTF12	261	0	0	0	50	HHDT	0	21.75	0.00	13.92	13.92
Cerritos Ave-L4 Grade Separation_CTF13	196	0	0	0	50	HHDT	0	16.33333333	0.00	10.45	10.45
Cerritos Ave-L4 Grade Separation_CTF14	89	0	0	0	50	HHDT	0	7.416666667	0.00	4.75	4.75
Cerritos Ave-L4 Grade Separation_CTF15	132	0	0	0	50	HHDT	0	11	0.00	7.04	7.04
Cerritos Ave-L4 Grade Separation_CTF16	87	0	0	0	50	HHDT	0	7.25	0.00	4.64	4.64
Cerritos Ave-L4 Grade Separation_CTF17	218	0	0	0	50	HHDT	0	18.16666667	0.00	11.63	11.63
Cerritos Ave-L4 Grade Separation_CTF18	131	0	0	0	50	HHDT	0	10.91666667	0.00	6.99	6.99
Lewis St-L4 Grade Separation_FD	390	20	7800	0.1	50	HHDT	390780	32.5	58077.12	20.80	58097.92
Lewis St-L4 Grade Separation_CTF1	41	0	0	0	50	HHDT	0	3.416666667	0.00	2.19	2.19
Lewis St-L4 Grade Separation_CTF2	260	0	0	0	50	HHDT	0	21.66666667	0.00	13.87	13.87
Lewis St-L4 Grade Separation_CTF3	65	0	0	0	50	HHDT	0	5.416666667	0.00	3.47	3.47
Lewis St-L4 Grade Separation_CTF4	175	0	0	0	50	HHDT	0	14.58333333	0.00	9.33	9.33
Lewis St-L4 Grade Separation_CTF5	21	0	0	0	50	HHDT	0	1.75	0.00	1.12	1.12
Lewis St-L4 Grade Separation_CTF6	44	0	0	0	50	HHDT	0	3.666666667	0.00	2.35	2.35

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Lewis St-L4 Grade Separation_CTF7	109	0	0	0	50	HHDT	0	9.083333333	0.00	5.81	5.81
Lewis St-L4 Grade Separation_CTF8	261	0	0	0	50	HHDT	0	21.75	0.00	13.92	13.92
Lewis St-L4 Grade Separation_CTF9	131	0	0	0	50	HHDT	0	10.91666667	0.00	6.99	6.99
Lewis St-L4 Grade Separation_CTF10	163	0	0	0	50	HHDT	0	13.58333333	0.00	8.69	8.69
Lewis St-L4 Grade Separation_CTF11	88	0	0	0	50	HHDT	0	7.333333333	0.00	4.69	4.69
Lewis St-L4 Grade Separation_CTF12	240	0	0	0	50	HHDT	0	20	0.00	12.80	12.80
Lewis St-L4 Grade Separation_CTF13	65	0	0	0	50	HHDT	0	5.416666667	0.00	3.47	3.47
Lewis St-L4 Grade Separation_CTF14	195	0	0	0	50	HHDT	0	16.25	0.00	10.40	10.40
Lewis St-L4 Grade Separation_CTF15	87	0	0	0	50	HHDT	0	7.25	0.00	4.64	4.64
State College Blvd-L4 Grade Separation_FD	783	16	12528	0.1	50	HHDT	627652.8	65.25	93280.78	41.76	93322.54
State College Blvd-L4 Grade Separation_CTF1	173	0	0	0	50	HHDT	0	14.41666667	0.00	9.23	9.23
State College Blvd-L4 Grade Separation_CTF2	523	0	0	0	50	HHDT	0	43.58333333	0.00	27.89	27.89
State College Blvd-L4 Grade Separation_CTF3	783	0	0	0	50	HHDT	0	65.25	0.00	41.76	41.76
State College Blvd-L4 Grade Separation_CTF4	412	0	0	0	50	HHDT	0	34.33333333	0.00	21.97	21.97
State College Blvd-L4 Grade Separation_CTF5	197	0	0	0	50	HHDT	0	16.41666667	0.00	10.51	10.51
State College Blvd-L4 Grade Separation_CTF6	219	0	0	0	50	HHDT	0	18.25	0.00	11.68	11.68
State College Blvd-L4 Grade Separation_CTF7	153	0	0	0	50	HHDT	0	12.75	0.00	8.16	8.16
State College Blvd-L4 Grade Separation_CTF8	108	0	0	0	50	HHDT	0	9	0.00	5.76	5.76
State College Blvd-L4 Grade Separation_CTF9	217	0	0	0	50	HHDT	0	18.08333333	0.00	11.57	11.57
State College Blvd-L4 Grade Separation_CTF10	304	0	0	0	50	HHDT	0	25.33333333	0.00	16.21	16.21
State College Blvd-L4 Grade Separation_CTF11	261	0	0	0	50	HHDT	0	21.75	0.00	13.92	13.92
State College Blvd-L4 Grade Separation_CTF12	129	0	0	0	50	HHDT	0	10.75	0.00	6.88	6.88
State College Blvd-L4 Grade Separation_CTF13	129	0	0	0	50	HHDT	0	10.75	0.00	6.88	6.88
State College Blvd-L4 Grade Separation_CTF14	239	0	0	0	50	HHDT	0	19.91666667	0.00	12.75	12.75
State College Blvd-L4 Grade Separation_CTF15	87	0	0	0	50	HHDT	0	7.25	0.00	4.64	4.64
Katella Ave-L4 Grade Separation_FD	651	8	5208	0.1	50	HHDT	260920.8	54.25	38777.64	34.72	38812.36
Katella Ave-L4 Grade Separation_CTF1	85	0	0	0	50	HHDT	0	7.083333333	0.00	4.53	4.53
Katella Ave-L4 Grade Separation_CTF2	260	0	0	0	50	HHDT	0	21.66666667	0.00	13.87	13.87
Katella Ave-L4 Grade Separation_CTF3	390	0	0	0	50	HHDT	0	32.5	0.00	20.80	20.80
Katella Ave-L4 Grade Separation_CTF4	651	0	0	0	50	HHDT	0	54.25	0.00	34.72	34.72
Katella Ave-L4 Grade Separation_CTF5	175	0	0	0	50	HHDT	0	14.58333333	0.00	9.33	9.33
Katella Ave-L4 Grade Separation_CTF6	130	0	0	0	50	HHDT	0	10.83333333	0.00	6.93	6.93
Katella Ave-L4 Grade Separation_CTF7	195	0	0	0	50	HHDT	0	16.25	0.00	10.40	10.40
Katella Ave-L4 Grade Separation_CTF8	65	0	0	0	50	HHDT	0	5.416666667	0.00	3.47	3.47
Katella Ave-L4 Grade Separation_CTF9	87	0	0	0	50	HHDT	0	7.25	0.00	4.64	4.64
Katella Ave-L4 Grade Separation_CTF10	65	0	0	0	50	HHDT	0	5.416666667	0.00	3.47	3.47
Redondo Junction-L1 Water Crossing_FD	87	0	0	0	50	HHDT	0	7.25	0.00	4.64	4.64
Redondo Junction-L1 Water Crossing_CTF1	87	0	0	0	50	HHDT	0	7.25	0.00	4.64	4.64
Coyote Creek-L1Water Crossing_FD	131	2	262	0.1	50	HHDT	13126.2	10.91666667	1950.80	6.99	1957.78
Coyote Creek-L1Water Crossing_CTF1	66	0	0	0	50	HHDT	0	5.5	0.00	3.52	3.52
Coyote Creek-L1Water Crossing_CTF2	131	0	0	0	50	HHDT	0	10.91666667	0.00	6.99	6.99
Coyote Creek-L1Water Crossing_CTF3	21	0	0	0	50	HHDT	0	1.75	0.00	1.12	1.12
Carbon Creek-L1 Water Crossing_FD	89	0	0	0	50	HHDT	0	7.416666667	0.00	4.75	4.75
Carbon Creek-L1 Water Crossing_CTF1	89	0	0	0	50	HHDT	0	7.416666667	0.00	4.75	4.75
San Gabriel River-L2 Water Crossing_FD	457	2	914	0.1	50	HHDT	45791.4	38.08333333	6805.45	24.37	6829.82
San Gabriel River-L2 Water Crossing_CTF1	65	0	0	0	50	HHDT	0	5.416666667	0.00	3.47	3.47
San Gabriel River-L2 Water Crossing_CTF2	87	0	0	0	50	HHDT	0	7.25	0.00	4.64	4.64
San Gabriel River-L2 Water Crossing_CTF3	108	0	0	0	50	HHDT	0	9	0.00	5.76	5.76
San Gabriel River-L2 Water Crossing_CTF4	152	0	0	0	50	HHDT	0	12.66666667	0.00	8.11	8.11
San Gabriel River-L2 Water Crossing_CTF5	347	0	0	0	50	HHDT	0	28.91666667	0.00	18.51	18.51
San Gabriel River-L2 Water Crossing_CTF6	435	0	0	0	50	HHDT	0	36.25	0.00	23.20	23.20
San Gabriel River-L2 Water Crossing_CTF7	457	0	0	0	50	HHDT	0	38.08333333	0.00	24.37	24.37
San Gabriel River-L2 Water Crossing_CTF8	110	0	0	0	50	HHDT	0	9.166666667	0.00	5.87	5.87
San Gabriel River-L2 Water Crossing_CTF9	175	0	0	0	50	HHDT	0	14.58333333	0.00	9.33	9.33

Phase	Days	Truck Trips per Day (In/Out)	Total Truck Trips	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Rio Hondo SG-L3 Water Crossing_FD	325	2	650	0.1	50	HHDT	32565	27.08333333	4839.76	17.33	4857.09
Rio Hondo SG-L3 Water Crossing_CTF1	150	0	0	0	50	HHDT	0	12.5	0.00	8.00	8.00
Rio Hondo SG-L3 Water Crossing_CTF2	216	0	0	0	50	HHDT	0	18	0.00	11.52	11.52
Rio Hondo SG-L3 Water Crossing_CTF3	325	0	0	0	50	HHDT	0	27.08333333	0.00	17.33	17.33
Rio Hondo River-L3 Water Crossing_FD	325	2	650	0.1	50	HHDT	32565	27.08333333	4839.76	17.33	4857.09
Rio Hondo River-L3 Water Crossing_CTF1	150	0	0	0	50	HHDT	0	12.5	0.00	8.00	8.00
Rio Hondo River-L3 Water Crossing_CTF2	325	0	0	0	50	HHDT	0	27.08333333	0.00	17.33	17.33
Rio Hondo River-L3 Water Crossing_CTF3	65	0	0	0	50	HHDT	0	5.416666667	0.00	3.47	3.47
Rio Hondo River-L3 Water Crossing_CTF4	86	0	0	0	50	HHDT	0	7.166666667	0.00	4.59	4.59
Rio Hondo River-L3 Water Crossing_CTF5	108	0	0	0	50	HHDT	0	9	0.00	5.76	5.76
Rio Hondo River-L3 Water Crossing_CTF6	173	0	0	0	50	HHDT	0	14.41666667	0.00	9.23	9.23
Coyote Creek-N Fork-L3 Water Crossing_FD	260	2	520	0.1	50	HHDT	26052	21.66666667	3871.81	13.87	3885.67
Coyote Creek-N Fork-L3 Water Crossing_CTF1	85	0	0	0	50	HHDT	0	7.083333333	0.00	4.53	4.53
Coyote Creek-N Fork-L3 Water Crossing_CTF2	108	0	0	0	50	HHDT	0	9	0.00	5.76	5.76
Coyote Creek-N Fork-L3 Water Crossing_CTF3	260	0	0	0	50	HHDT	0	21.66666667	0.00	13.87	13.87
Coyote Creek-N Fork-L3 Water Crossing_CTF4	455	0	0	0	50	HHDT	0	37.91666667	0.00	24.27	24.27
Coyote Creek-N Fork-L3 Water Crossing_CTF5	63	0	0	0	50	HHDT	0	5.25	0.00	3.36	3.36
Coyote Creek-N Fork-L3 Water Crossing_CTF6	173	0	0	0	50	HHDT	0	14.41666667	0.00	9.23	9.23
Coyote Creek-N Fork-L3 Water Crossing_CTF7	218	0	0	0	50	HHDT	0	18.16666667	0.00	11.63	11.63
La Mirada Creek-L3 Water Crossing_FD	260	2	520	0.1	50	HHDT	26052	21.66666667	3871.81	13.87	3885.67
La Mirada Creek-L3 Water Crossing_CTF1	87	0	0	0	50	HHDT	0	7.25	0.00	4.64	4.64
La Mirada Creek-L3 Water Crossing_CTF2	130	0	0	0	50	HHDT	0	10.83333333	0.00	6.93	6.93
La Mirada Creek-L3 Water Crossing_CTF3	260	0	0	0	50	HHDT	0	21.66666667	0.00	13.87	13.87
La Mirada Creek-L3 Water Crossing_CTF4	43	0	0	0	50	HHDT	0	3.583333333	0.00	2.29	2.29
Brea Creek-L3 Water Crossing_FD	325	2	650	0.1	50	HHDT	32565	27.08333333	4839.76	17.33	4857.09
Brea Creek-L3 Water Crossing_CTF1	42	0	0	0	50	HHDT	0	3.5	0.00	2.24	2.24
Brea Creek-L3 Water Crossing_CTF2	108	0	0	0	50	HHDT	0	9	0.00	5.76	5.76
Brea Creek-L3 Water Crossing_CTF3	130	0	0	0	50	HHDT	0	10.83333333	0.00	6.93	6.93
Brea Creek-L3 Water Crossing_CTF4	217	0	0	0	50	HHDT	0	18.08333333	0.00	11.57	11.57
Brea Creek-L3 Water Crossing_CTF5	43	0	0	0	50	HHDT	0	3.583333333	0.00	2.29	2.29
Brea Creek-L3 Water Crossing_CTF6	43	0	0	0	50	HHDT	0	3.583333333	0.00	2.29	2.29
Brea Creek-L3 Water Crossing_CTF7	175	0	0	0	50	HHDT	0	14.58333333	0.00	9.33	9.33
Brea Creek-L3 Water Crossing_CTF8	392	0	0	0	50	HHDT	0	32.66666667	0.00	20.91	20.91
Redondo Jct TPSS_FD	261	0	0	0	50	HHDT	0	21.75	0.00	13.92	13.92
Redondo Jct TPSS_CTF1	216	0	0	0	50	HHDT	0	18	0.00	11.52	11.52
Redondo Jct TPSS_CTF2	44	0	0	0	50	HHDT	0	3.666666667	0.00	2.35	2.35
Redondo Jct TPSS_CTF3	261	0	0	0	50	HHDT	0	21.75	0.00	13.92	13.92
Redondo Jct TPSS_CTF4	132	0	0	0	50	HHDT	0	11	0.00	7.04	7.04
Redondo Jct TPSS_CTF5	20	0	0	0	50	HHDT	0	1.666666667	0.00	1.07	1.07
Redondo Jct TPSS_CTF6	22	0	0	0	50	HHDT	0	1.833333333	0.00	1.17	1.17
Anaheim TPSS_FD	239	0	0	0	50	HHDT	0	19.91666667	0.00	12.75	12.75
Anaheim TPSS_CTF1	216	0	0	0	50	HHDT	0	18	0.00	11.52	11.52
Anaheim TPSS_CTF2	44	0	0	0	50	HHDT	0	3.666666667	0.00	2.35	2.35
Anaheim TPSS_CTF3	261	0	0	0	50	HHDT	0	21.75	0.00	13.92	13.92
Anaheim TPSS_CTF4	22	0	0	0	50	HHDT	0	1.833333333	0.00	1.17	1.17
Anaheim TPSS_CTF5	43	0	0	0	50	HHDT	0	3.583333333	0.00	2.29	2.29
Anaheim TPSS_CTF6	132	0	0	0	50	HHDT	0	11	0.00	7.04	7.04
Anaheim TPSS_CTF7	239	0	0	0	50	HHDT	0	19.91666667	0.00	12.75	12.75
Anaheim TPSS_CTF8	20	0	0	0	50	HHDT	0	1.666666667	0.00	1.07	1.07
Anaheim TPSS_CTF9	22	0	0	0	50	HHDT	0	1.833333333	0.00	1.17	1.17
Paralleling Station #2_FD	262	0	0	0	50	HHDT	0	21.83333333	0.00	13.97	13.97
Paralleling Station #2_CTF1	23	0	0	0	50	HHDT	0	1.916666667	0.00	1.23	1.23
Paralleling Station #2_CTF2	108	0	0	0	50	HHDT	0	9	0.00	5.76	5.76
Paralleling Station #2_CTF3	261	0	0	0	50	HHDT	0	21.75	0.00	13.92	13.92

Phase	Days	Truck Trips per Day (In/Out)	Total Truck Trips	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Paralleling Station #2_CTF4	22	0	0	0	50	HHDT	0	1.833333333	0.00	1.17	1.17
Paralleling Station #2_CTF5	20	0	0	0	50	HHDT	0	1.666666667	0.00	1.07	1.07
Paralleling Station #2_CTF6	22	0	0	0	50	HHDT	0	1.833333333	0.00	1.17	1.17
Paralleling Station #4_FD	261	0	0	0	50	HHDT	0	21.75	0.00	13.92	13.92
Paralleling Station #4_CTF1	23	0	0	0	50	HHDT	0	1.916666667	0.00	1.23	1.23
Paralleling Station #4_CTF2	108	0	0	0	50	HHDT	0	9	0.00	5.76	5.76
Paralleling Station #4_CTF3	261	0	0	0	50	HHDT	0	21.75	0.00	13.92	13.92
Paralleling Station #4_CTF4	22	0	0	0	50	HHDT	0	1.833333333	0.00	1.17	1.17
Paralleling Station #4_CTF5	20	0	0	0	50	HHDT	0	1.666666667	0.00	1.07	1.07
Paralleling Station #4_CTF6	22	0	0	0	50	HHDT	0	1.833333333	0.00	1.17	1.17
Switching Station_FD	129	0	0	0	50	HHDT	0	10.75	0.00	6.88	6.88
Switching Station_CTF1	22	0	0	0	50	HHDT	0	1.833333333	0.00	1.17	1.17
Switching Station_CTF2	129	0	0	0	50	HHDT	0	10.75	0.00	6.88	6.88
Switching Station_CTF3	20	0	0	0	50	HHDT	0	1.666666667	0.00	1.07	1.07
Switching Station_CTF4	44	0	0	0	50	HHDT	0	3.666666667	0.00	2.35	2.35
Switching Station_CTF5	22	0	0	0	50	HHDT	0	1.833333333	0.00	1.17	1.17
Communciation Tower #1_FD	66	0	0	0	50	HHDT	0	5.5	0.00	3.52	3.52
Communciation Tower #1_CTF1	23	0	0	0	50	HHDT	0	1.916666667	0.00	1.23	1.23
Communciation Tower #1_CTF2	66	0	0	0	50	HHDT	0	5.5	0.00	3.52	3.52
Communciation Tower #1_CTF3	22	0	0	0	50	HHDT	0	1.833333333	0.00	1.17	1.17
Communciation Tower #3_FD	64	0	0	0	50	HHDT	0	5.333333333	0.00	3.41	3.41
Communciation Tower #3_CTF1	42	0	0	0	50	HHDT	0	3.5	0.00	2.24	2.24
Communciation Tower #3_CTF2	64	0	0	0	50	HHDT	0	5.333333333	0.00	3.41	3.41
Communciation Tower #3_CTF3	21	0	0	0	50	HHDT	0	1.75	0.00	1.12	1.12
Communciation Tower #3_CTF4	22	0	0	0	50	HHDT	0	1.833333333	0.00	1.17	1.17
Communciation Tower #5_FD	66	0	0	0	50	HHDT	0	5.5	0.00	3.52	3.52
Communciation Tower #5_CTF1	22	0	0	0	50	HHDT	0	1.833333333	0.00	1.17	1.17
Communciation Tower #5_CTF2	66	0	0	0	50	HHDT	0	5.5	0.00	3.52	3.52
Communciation Tower #5_CTF3	23	0	0	0	50	HHDT	0	1.916666667	0.00	1.23	1.23
Communciation Tower #5_CTF4	21	0	0	0	50	HHDT	0	1.75	0.00	1.12	1.12
Communciation Tower #7_FD	86	0	0	0	50	HHDT	0	7.166666667	0.00	4.59	4.59
Communciation Tower #7_CTF1	43	0	0	0	50	HHDT	0	3.583333333	0.00	2.29	2.29
Communciation Tower #7_CTF2	66	0	0	0	50	HHDT	0	5.5	0.00	3.52	3.52
Communciation Tower #7_CTF3	86	0	0	0	50	HHDT	0	7.166666667	0.00	4.59	4.59
Communciation Tower #7_CTF4	65	0	0	0	50	HHDT	0	5.416666667	0.00	3.47	3.47
Communciation Tower #7_CTF5	23	0	0	0	50	HHDT	0	1.916666667	0.00	1.23	1.23
Communciation Tower #7_CTF6	20	0	0	0	50	HHDT	0	1.666666667	0.00	1.07	1.07
Communciation Tower #9_FD	86	0	0	0	50	HHDT	0	7.166666667	0.00	4.59	4.59
Communciation Tower #9_CTF1	43	0	0	0	50	HHDT	0	3.583333333	0.00	2.29	2.29
Communciation Tower #9_CTF2	66	0	0	0	50	HHDT	0	5.5	0.00	3.52	3.52
Communciation Tower #9_CTF3	86	0	0	0	50	HHDT	0	7.166666667	0.00	4.59	4.59
Communciation Tower #9_CTF4	65	0	0	0	50	HHDT	0	5.416666667	0.00	3.47	3.47
Communciation Tower #9_CTF5	23	0	0	0	50	HHDT	0	1.916666667	0.00	1.23	1.23
Communciation Tower #9_CTF6	20	0	0	0	50	HHDT	0	1.666666667	0.00	1.07	1.07
Communciation Tower #11_FD	66	0	0	0	50	HHDT	0	5.5	0.00	3.52	3.52
Communciation Tower #11_CTF1	22	0	0	0	50	HHDT	0	1.833333333	0.00	1.17	1.17
Communciation Tower #11_CTF2	66	0	0	0	50	HHDT	0	5.5	0.00	3.52	3.52
Communciation Tower #11_CTF3	23	0	0	0	50	HHDT	0	1.916666667	0.00	1.23	1.23
Communciation Tower #11_CTF4	21	0	0	0	50	HHDT	0	1.75	0.00	1.12	1.12
Communciation Tower #13_FD	64	0	0	0	50	HHDT	0	5.333333333	0.00	3.41	3.41
Communciation Tower #13_CTF1	42	0	0	0	50	HHDT	0	3.5	0.00	2.24	2.24
Communciation Tower #13_CTF2	64	0	0	0	50	HHDT	0	5.333333333	0.00	3.41	3.41
Communciation Tower #13_CTF3	21	0	0	0	50	HHDT	0	1.75	0.00	1.12	1.12
Communciation Tower #13_CTF4	22	0	0	0	50	HHDT	0	1.833333333	0.00	1.17	1.17

Construction Energy Analysis
Alt A - No HSR Station

Phase	Days	Truck Trips per Day (In/Out)	Total Truck Trips	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Communciation Tower #15_FD	66	0	0	0	50	HHDT	0	5.5	0.00	3.52	3.52
Communciation Tower #15_CTF1	23	0	0	0	50	HHDT	0	1.916666667	0.00	1.23	1.23
Communciation Tower #15_CTF2	66	0	0	0	50	HHDT	0	5.5	0.00	3.52	3.52
Communciation Tower #15_CTF3	22	0	0	0	50	HHDT	0	1.833333333	0.00	1.17	1.17
LMF Support Structures_FD	326	72	23472	0.1	50	HHDT	1175947.2	27.16666667	174767.45	17.39	174784.83
LMF Support Structures_CTF1	130	0	0	0	50	HHDT	0	10.83333333	0.00	6.93	6.93
LMF Support Structures_CTF2	261	0	0	0	50	HHDT	0	21.75	0.00	13.92	13.92
LMF Support Structures_CTF3	326	0	0	0	50	HHDT	0	27.16666667	0.00	17.39	17.39
LMF Support Structures_CTF4	152	0	0	0	50	HHDT	0	12.66666667	0.00	8.11	8.11
LMF Support Structures_CTF5	142	0	0	0	50	HHDT	0	11.83333333	0.00	7.57	7.57
LMF Support Structures_CTF6	66	0	0	0	50	HHDT	0	5.5	0.00	3.52	3.52
LMF Support Structures_CTF7	66	0	0	0	50	HHDT	0	5.5	0.00	3.52	3.52
LMF Support Structures_CTF8	110	0	0	0	50	HHDT	0	9.166666667	0.00	5.87	5.87
26th St HSR LMF_Utility Relocation	65	0	0	0	50	HHDT	0	5.416666667	0.00	3.47	3.47
26th St HSR LMF_Ballast Installation	196	112	21952	0.1	50	HHDT	1099795.2	16.33333333	163449.85	10.45	163460.31
Hobart Yard Improvements_FD	861	58	49938	0.1	50	HHDT	2501893.8	71.75	371827.57	45.92	371873.49
Hobart Yard Improvements_CTF1	77	0	0	0	50	HHDT	0	6.416666667	0.00	4.11	4.11
Hobart Yard Improvements_CTF2	103	0	0	0	50	HHDT	0	8.583333333	0.00	5.49	5.49
Hobart Yard Improvements_CTF3	155	0	0	0	50	HHDT	0	12.91666667	0.00	8.27	8.27
Hobart Yard Improvements_CTF4	861	0	0	0	50	HHDT	0	71.75	0.00	45.92	45.92
Hobart Yard Improvements_CTF5	50	0	0	0	50	HHDT	0	4.166666667	0.00	2.67	2.67
Hobart Yard Improvements_CTF6	262	0	0	0	50	HHDT	0	21.83333333	0.00	13.97	13.97
Hobart Yard Improvements_CTF7	235	0	0	0	50	HHDT	0	19.58333333	0.00	12.53	12.53
Hobart Yard Improvements_CTF8	208	0	0	0	50	HHDT	0	17.33333333	0.00	11.09	11.09
Hobart Yard Improvements_CTF9	392	0	0	0	50	HHDT	0	32.66666667	0.00	20.91	20.91
Hobart Yard Improvements_CTF10	103	0	0	0	50	HHDT	0	8.583333333	0.00	5.49	5.49
Hobart Yard Improvements_CTF11	77	0	0	0	50	HHDT	0	6.416666667	0.00	4.11	4.11
Hobart Yard Improvements_CTF12	208	0	0	0	50	HHDT	0	17.33333333	0.00	11.09	11.09
Commerce Yard Improvements_Utility Relocation	367	28	10276	0.1	50	HHDT	514827.6	30.58333333	76512.88	19.57	76532.45
Commerce Yard Improvements_CTF1	53	0	0	0	50	HHDT	0	4.416666667	0.00	2.83	2.83
Commerce Yard Improvements_CTF2	158	0	0	0	50	HHDT	0	13.16666667	0.00	8.43	8.43
Commerce Yard Improvements_CTF3	236	0	0	0	50	HHDT	0	19.66666667	0.00	12.59	12.59
Commerce Yard Improvements_CTF4	314	0	0	0	50	HHDT	0	26.16666667	0.00	16.75	16.75
Commerce Yard Improvements_CTF5	367	0	0	0	50	HHDT	0	30.58333333	0.00	19.57	19.57
Commerce Yard Improvements_CTF6	314	0	0	0	50	HHDT	0	26.16666667	0.00	16.75	16.75
Commerce Yard Improvements_CTF7	105	0	0	0	50	HHDT	0	8.75	0.00	5.60	5.60
Commerce Metrolink Stn_FD	261	8	2088	0.1	50	HHDT	104608.8	21.75	15546.80	13.92	15560.72
Commerce Metrolink Stn_CTF1	64	0	0	0	50	HHDT	0	5.333333333	0.00	3.41	3.41
Commerce Metrolink Stn_CTF2	261	0	0	0	50	HHDT	0	21.75	0.00	13.92	13.92
Commerce Metrolink Stn_CTF3	65	0	0	0	50	HHDT	0	5.416666667	0.00	3.47	3.47
Commerce Metrolink Stn_CTF4	66	0	0	0	50	HHDT	0	5.5	0.00	3.52	3.52
Commerce Metrolink Stn_CTF5	44	0	0	0	50	HHDT	0	3.666666667	0.00	2.35	2.35
Norwalk-SFS Metrolink Stn_FD	651	30	19530	0.1	50	HHDT	978453	54.25	145416.16	34.72	145450.88
Norwalk-SFS Metrolink Stn_CTF1	65	0	0	0	50	HHDT	0	5.416666667	0.00	3.47	3.47
Norwalk-SFS Metrolink Stn_CTF2	390	0	0	0	50	HHDT	0	32.5	0.00	20.80	20.80
Norwalk-SFS Metrolink Stn_CTF3	42	0	0	0	50	HHDT	0	3.5	0.00	2.24	2.24
Norwalk-SFS Metrolink Stn_CTF4	22	0	0	0	50	HHDT	0	1.833333333	0.00	1.17	1.17
Buena Park Metrolink Stn_FD	325	12	3900	0.1	50	HHDT	195390	27.08333333	29038.56	17.33	29055.89
Buena Park Metrolink Stn_CTF1	65	0	0	0	50	HHDT	0	5.416666667	0.00	3.47	3.47
Buena Park Metrolink Stn_CTF2	325	0	0	0	50	HHDT	0	27.08333333	0.00	17.33	17.33
Buena Park Metrolink Stn_CTF3	66	0	0	0	50	HHDT	0	5.5	0.00	3.52	3.52
Buena Park Metrolink Stn_CTF4	88	0	0	0	50	HHDT	0	7.333333333	0.00	4.69	4.69
Buena Park Metrolink Stn_CTF5	23	0	0	0	50	HHDT	0	1.916666667	0.00	1.23	1.23
ARTIC Station_FD	783	6	4698	0.1	50	HHDT	235369.8	65.25	34980.29	41.76	35022.05

Phase	Days	Truck Trips per Day (In/Out)	Total Truck Trips	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
ARTIC Station_CTF1	151	0	0	0	50	HHDT	0	12.58333333	0.00	8.05	8.05
ARTIC Station_CTF2	174	0	0	0	50	HHDT	0	14.5	0.00	9.28	9.28
ARTIC Station_CTF3	413	0	0	0	50	HHDT	0	34.41666667	0.00	22.03	22.03
ARTIC Station_CTF4	783	0	0	0	50	HHDT	0	65.25	0.00	41.76	41.76
ARTIC Station_CTF5	107	0	0	0	50	HHDT	0	8.916666667	0.00	5.71	5.71
ARTIC Station_CTF6	152	0	0	0	50	HHDT	0	12.66666667	0.00	8.11	8.11
ARTIC Station_CTF7	368	0	0	0	50	HHDT	0	30.66666667	0.00	19.63	19.63
ARTIC Station_CTF8	43	0	0	0	50	HHDT	0	3.583333333	0.00	2.29	2.29
ARTIC Station_CTF9	66	0	0	0	50	HHDT	0	5.5	0.00	3.52	3.52
ARTIC Station_CTF10	20	0	0	0	50	HHDT	0	1.666666667	0.00	1.07	1.07
ARTIC Station_CTF11	151	0	0	0	50	HHDT	0	12.58333333	0.00	8.05	8.05
Fullerton Metrolink Stn_FD	283	26	7358	0.1	50	HHDT	368635.8	23.58333333	54786.08	15.09	54801.17
Fullerton Metrolink Stn_CTF1	87	0	0	0	50	HHDT	0	7.25	0.00	4.64	4.64
Fullerton Metrolink Stn_CTF2	64	0	0	0	50	HHDT	0	5.333333333	0.00	3.41	3.41
Fullerton Metrolink Stn_CTF3	44	0	0	0	50	HHDT	0	3.666666667	0.00	2.35	2.35
Fullerton Metrolink Stn_CTF4	110	0	0	0	50	HHDT	0	9.166666667	0.00	5.87	5.87
Fullerton Metrolink Stn_CTF5	65	0	0	0	50	HHDT	0	5.416666667	0.00	3.47	3.47
Ballast Delivery_OutsideCA_2033	1	0	0	0	50	HHDT	0	0.083333333	0.00	0.05	0.05
Ballast Delivery_OutsideCA_2034	1	0	0	0	50	HHDT	0	0.083333333	0.00	0.05	0.05
Ballast Delivery_OutsideCA_2035	1	0	0	0	50	HHDT	0	0.083333333	0.00	0.05	0.05
Ballast Delivery_OutsideCA_2036	1	0	0	0	50	HHDT	0	0.083333333	0.00	0.05	0.05
Ballast Delivery_OutsideCA_2037	1	0	0	0	50	HHDT	0	0.083333333	0.00	0.05	0.05
Ballast Delivery_MDAB_2033	1	0	0	0	50	HHDT	0	0.083333333	0.00	0.05	0.05
Ballast Delivery_MDAB_2034	1	0	0	0	50	HHDT	0	0.083333333	0.00	0.05	0.05
Ballast Delivery_MDAB_2035	1	0	0	0	50	HHDT	0	0.083333333	0.00	0.05	0.05
Ballast Delivery_MDAB_2036	1	0	0	0	50	HHDT	0	0.083333333	0.00	0.05	0.05
Ballast Delivery_MDAB_2037	1	0	0	0	50	HHDT	0	0.083333333	0.00	0.05	0.05
Ballast Delivery_SCAB_2033	1	0	0	0	50	HHDT	0	0.083333333	0.00	0.05	0.05
Ballast Delivery_SCAB_2034	1	0	0	0	50	HHDT	0	0.083333333	0.00	0.05	0.05
Ballast Delivery_SCAB_2035	1	0	0	0	50	HHDT	0	0.083333333	0.00	0.05	0.05
Ballast Delivery_SCAB_2036	1	0	0	0	50	HHDT	0	0.083333333	0.00	0.05	0.05
Ballast Delivery_SCAB_2037	1	0	0	0	50	HHDT	0	0.083333333	0.00	0.05	0.05
Ballast Dumping_SCAB_2033	1	0	0	0	50	HHDT	0	0.083333333	0.00	0.05	0.05
Ballast Dumping_SCAB_2034	1	0	0	0	50	HHDT	0	0.083333333	0.00	0.05	0.05
Ballast Dumping_SCAB_2035	1	0	0	0	50	HHDT	0	0.083333333	0.00	0.05	0.05
Ballast Dumping_SCAB_2036	1	0	0	0	50	HHDT	0	0.083333333	0.00	0.05	0.05
Ballast Dumping_SCAB_2037	1	0	0	0	50	HHDT	0	0.083333333	0.00	0.05	0.05
						Total VMT:	**14,435,112.60**		**2,145,324.00**	**6,075.68**	**2,151,399.68**
						Total Idle-Hours:		**9,493**			

1. CARB, EMFAC2021 (SCAQMD; HHDT; Annual; CY 2031; Aggregate MY; Aggregate Speed,DSL)
2. Department of Energy, Fact #861, 2015 Idle Fuel Consumption for Selected Gasoline and Diesel Vehicles, February 23, 2015.
https://www.energy.gov/eere/vehicles/fact-861-february-23-2015-idle-fuel-consumption-selected-gasoline-and-diesel-vehicles

Haul Trucks - Class I/II Waste in SJVAB

Onroad Travel Consumption	Value
EMFAC2021 Diesel Fuel Consumption Factor (gal/mi):[1]	0.149
Total VMT (mi):	4,117,440
Total diesel gallons	**611,928**
Idling Consumption	**Value**
Idling Fuel Consumption Factor (gal/hr):[2]	0.6400
Total Idle-Hours per Year:	9,492
Total diesel gallons	**6,075**

Total diesel gallons: 618,002

Phase	Days	Truck Trips per Day (In/Out)	Total Truck Trips	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
At-Grade Rail-Ballasted Track-2033_Utilities	260	0	0	0	120	HHDT	0	21.66666667	0.00	13.87	13.87
At-Grade Rail-Ballasted Track-2033_Track Install	313	0	0	0	120	HHDT	0	26.08333333	0.00	16.69	16.69
At-Grade Rail-Ballasted Track-2034_Utilities	260	0	0	0	120	HHDT	0	21.66666667	0.00	13.87	13.87
At-Grade Rail-Ballasted Track-2034_Track Install	312	0	0	0	120	HHDT	0	26	0.00	16.64	16.64
At-Grade Rail-Ballasted Track-2035_Utilities	66	0	0	0	120	HHDT	0	5.5	0.00	3.52	3.52
At-Grade Rail-Ballasted Track-2035_Track Install	79	0	0	0	120	HHDT	0	6.583333333	0.00	4.21	4.21
At-Grade Rail-Ballasted Track-2036_Utilities	130	0	0	0	120	HHDT	0	10.83333333	0.00	6.93	6.93
At-Grade Rail-Ballasted Track-2036_Track Install	156	0	0	0	120	HHDT	0	13	0.00	8.32	8.32
At-Grade Rail-Ballasted Track-2037_Utilities	86	0	0	0	120	HHDT	0	7.166666667	0.00	4.59	4.59
At-Grade Rail-Ballasted Track-2037_Track Install	103	0	0	0	120	HHDT	0	8.583333333	0.00	5.49	5.49
South of Fullerton-Ballasted Track_FD	197	0	0	0	120	HHDT	0	16.41666667	0.00	10.51	10.51
Rail Direct Fixation_CTF1	130	0	0	0	120	HHDT	0	10.83333333	0.00	6.93	6.93
Rail Direct Fixation_CTF2	261	0	0	0	120	HHDT	0	21.75	0.00	13.92	13.92
Rail Direct Fixation_CTF3	262	0	0	0	120	HHDT	0	21.83333333	0.00	13.97	13.97
Commerce Viaduct_FD	652	0	0	0	120	HHDT	0	54.33333333	0.00	34.77	34.77
Commerce Viaduct_Box Girders	695	0	0	0	120	HHDT	0	57.91666667	0.00	37.07	37.07
Commerce Viaduct_CTF1	217	0	0	0	120	HHDT	0	18.08333333	0.00	11.57	11.57
Commerce Viaduct_CTF2	652	0	0	0	120	HHDT	0	54.33333333	0.00	34.77	34.77
Commerce Viaduct_CTF3	261	0	0	0	120	HHDT	0	21.75	0.00	13.92	13.92
Commerce Viaduct_CTF4	107	0	0	0	120	HHDT	0	8.916666667	0.00	5.71	5.71
Commerce Viaduct_CTF5	695	0	0	0	120	HHDT	0	57.91666667	0.00	37.07	37.07
Commerce Viaduct_CTF6	436	0	0	0	120	HHDT	0	36.33333333	0.00	23.25	23.25
Commerce Viaduct_CTF7	522	0	0	0	120	HHDT	0	43.5	0.00	27.84	27.84
Norwalk-SFS Viaduct_FD	782	0	0	0	120	HHDT	0	65.16666667	0.00	41.71	41.71
Norwalk-SFS Viaduct_Box Girders	653	0	0	0	120	HHDT	0	54.41666667	0.00	34.83	34.83
Norwalk-SFS Viaduct_CTF1	782	0	0	0	120	HHDT	0	65.16666667	0.00	41.71	41.71
Norwalk-SFS Viaduct_CTF2	261	0	0	0	120	HHDT	0	21.75	0.00	13.92	13.92
Norwalk-SFS Viaduct_CTF3	107	0	0	0	120	HHDT	0	8.916666667	0.00	5.71	5.71
Norwalk-SFS Viaduct_CTF4	522	0	0	0	120	HHDT	0	43.5	0.00	27.84	27.84
Norwalk-SFS Viaduct_CTF5	653	0	0	0	120	HHDT	0	54.41666667	0.00	34.83	34.83
Norwalk-SFS Viaduct_CTF6	261	0	0	0	120	HHDT	0	21.75	0.00	13.92	13.92
Fullerton Trench_FD	912	8	7296	0	120	HHDT	875520	76	130118.42	48.64	130167.06
Fullerton Trench_CTF1	653	0	0	0	120	HHDT	0	54.41666667	0.00	34.83	34.83
Fullerton Trench_CTF2	912	0	0	0	120	HHDT	0	76	0.00	48.64	48.64
Fullerton Trench_CTF3	175	0	0	0	120	HHDT	0	14.58333333	0.00	9.33	9.33
Fullerton Trench_CTF4	131	0	0	0	120	HHDT	0	10.91666667	0.00	6.99	6.99
Fullerton Trench_CTF5	717	0	0	0	120	HHDT	0	59.75	0.00	38.24	38.24
Fullerton Trench_CTF6	132	0	0	0	120	HHDT	0	11	0.00	7.04	7.04
Fullerton Trench_CTF7	260	0	0	0	120	HHDT	0	21.66666667	0.00	13.87	13.87
Fullerton Trench_CTF8	175	0	0	0	120	HHDT	0	14.58333333	0.00	9.33	9.33
Fullerton Trench_CTF9	261	0	0	0	120	HHDT	0	21.75	0.00	13.92	13.92

Phase	Days	Truck Trips per Day (In/Out)	Total Truck Trips	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Fullerton Trench_CTF10	86	0	0	0	120	HHDT	0	7.166666667	0.00	4.59	4.59
Fullerton Trench_CTF11	42	0	0	0	120	HHDT	0	3.5	0.00	2.24	2.24
I-10-L1 Grade Separation_FD	155	0	0	0	120	HHDT	0	12.91666667	0.00	8.27	8.27
South Downey Rd-L1 Grade Separation_FD	326	0	0	0	120	HHDT	0	27.16666667	0.00	17.39	17.39
South Downey Rd-L1 Grade Separation_CTF1	326	0	0	0	120	HHDT	0	27.16666667	0.00	17.39	17.39
South Downey Rd-L1 Grade Separation_CTF2	240	0	0	0	120	HHDT	0	20	0.00	12.80	12.80
South Downey Rd-L1 Grade Separation_CTF3	390	0	0	0	120	HHDT	0	32.5	0.00	20.80	20.80
I-710-L1 Grade Separation_FD	53	0	0	0	120	HHDT	0	4.416666667	0.00	2.83	2.83
I-5-L1 Grade Separation_FD	52	0	0	0	120	HHDT	0	4.333333333	0.00	2.77	2.77
Greenwood Ave-L1 Grade Separation_FD	53	0	0	0	120	HHDT	0	4.416666667	0.00	2.83	2.83
Paramount Blvd-L1 Grade Separation_FD	51	0	0	0	120	HHDT	0	4.25	0.00	2.72	2.72
SR-91-L1 Grade Separation_FD	42	0	0	0	120	HHDT	0	3.5	0.00	2.24	2.24
Lincoln Ave-L1 Grade Separation_FD	44	0	0	0	120	HHDT	0	3.666666667	0.00	2.35	2.35
Eastern Ave-L2 Grade Separation_FD	457	2	914	0	120	HHDT	109680	38.08333333	16300.47	24.37	16324.84
Eastern Ave-L2 Grade Separation_CTF1	108	0	0	0	120	HHDT	0	9	0.00	5.76	5.76
Eastern Ave-L2 Grade Separation_CTF2	457	0	0	0	120	HHDT	0	38.08333333	0.00	24.37	24.37
Eastern Ave-L2 Grade Separation_CTF3	43	0	0	0	120	HHDT	0	3.583333333	0.00	2.29	2.29
Eastern Ave-L2 Grade Separation_CTF4	108	0	0	0	120	HHDT	0	9	0.00	5.76	5.76
Eastern Ave-L2 Grade Separation_CTF5	131	0	0	0	120	HHDT	0	10.91666667	0.00	6.99	6.99
Eastern Ave-L2 Grade Separation_CTF6	195	0	0	0	120	HHDT	0	16.25	0.00	10.40	10.40
Eastern Ave-L2 Grade Separation_CTF7	261	0	0	0	120	HHDT	0	21.75	0.00	13.92	13.92
Eastern Ave-L2 Grade Separation_CTF8	45	0	0	0	120	HHDT	0	3.75	0.00	2.40	2.40
Eastern Ave-L2 Grade Separation_CTF9	85	0	0	0	120	HHDT	0	7.083333333	0.00	4.53	4.53
Passons Blvd-L2 Grade Separation_FD	326	2	652	0	120	HHDT	78240	27.16666667	11627.91	17.39	11645.29
Passons Blvd-L2 Grade Separation_CTF1	42	0	0	0	120	HHDT	0	3.5	0.00	2.24	2.24
Passons Blvd-L2 Grade Separation_CTF2	87	0	0	0	120	HHDT	0	7.25	0.00	4.64	4.64
Passons Blvd-L2 Grade Separation_CTF3	130	0	0	0	120	HHDT	0	10.83333333	0.00	6.93	6.93
Passons Blvd-L2 Grade Separation_CTF4	326	0	0	0	120	HHDT	0	27.16666667	0.00	17.39	17.39
Passons Blvd-L2 Grade Separation_CTF5	65	0	0	0	120	HHDT	0	5.416666667	0.00	3.47	3.47
Passons Blvd-L2 Grade Separation_CTF6	65	0	0	0	120	HHDT	0	5.416666667	0.00	3.47	3.47
Passons Blvd-L2 Grade Separation_CTF7	87	0	0	0	120	HHDT	0	7.25	0.00	4.64	4.64
Sante Fe Springs-L2 Grade Separation_FD	326	0	0	0	120	HHDT	0	27.16666667	0.00	17.39	17.39
Sante Fe Springs-L2 Grade Separation_CTF1	87	0	0	0	120	HHDT	0	7.25	0.00	4.64	4.64
Sante Fe Springs-L2 Grade Separation_CTF2	326	0	0	0	120	HHDT	0	27.16666667	0.00	17.39	17.39
Sante Fe Springs-L2 Grade Separation_CTF3	110	0	0	0	120	HHDT	0	9.166666667	0.00	5.87	5.87
Sante Fe Springs-L2 Grade Separation_CTF4	132	0	0	0	120	HHDT	0	11	0.00	7.04	7.04
Sante Fe Springs-L2 Grade Separation_CTF5	43	0	0	0	120	HHDT	0	3.583333333	0.00	2.29	2.29
Sante Fe Springs-L2 Grade Separation_CTF6	87	0	0	0	120	HHDT	0	7.25	0.00	4.64	4.64
Sante Fe Springs-L2 Grade Separation_CTF7	107	0	0	0	120	HHDT	0	8.916666667	0.00	5.71	5.71
Telegraph Road-L2 Grade Separation_FD	390	0	0	0	120	HHDT	0	32.5	0.00	20.80	20.80
Telegraph Road-L2 Grade Separation_CTF1	64	0	0	0	120	HHDT	0	5.333333333	0.00	3.41	3.41
Telegraph Road-L2 Grade Separation_CTF2	85	0	0	0	120	HHDT	0	7.083333333	0.00	4.53	4.53
Telegraph Road-L2 Grade Separation_CTF3	390	0	0	0	120	HHDT	0	32.5	0.00	20.80	20.80
Telegraph Road-L2 Grade Separation_CTF4	43	0	0	0	120	HHDT	0	3.583333333	0.00	2.29	2.29
Telegraph Road-L2 Grade Separation_CTF5	88	0	0	0	120	HHDT	0	7.333333333	0.00	4.69	4.69
Telegraph Road-L2 Grade Separation_CTF6	217	0	0	0	120	HHDT	0	18.08333333	0.00	11.57	11.57
Valley View Ave-L2 Grade Separation_FD	326	0	0	0	120	HHDT	0	27.16666667	0.00	17.39	17.39
Valley View Ave-L2 Grade Separation_CTF1	44	0	0	0	120	HHDT	0	3.666666667	0.00	2.35	2.35
Valley View Ave-L2 Grade Separation_CTF2	326	0	0	0	120	HHDT	0	27.16666667	0.00	17.39	17.39
Valley View Ave-L2 Grade Separation_CTF3	43	0	0	0	120	HHDT	0	3.583333333	0.00	2.29	2.29
Valley View Ave-L2 Grade Separation_CTF4	66	0	0	0	120	HHDT	0	5.5	0.00	3.52	3.52
Valley View Ave-L2 Grade Separation_CTF5	64	0	0	0	120	HHDT	0	5.333333333	0.00	3.41	3.41
Valley View Ave-L2 Grade Separation_CTF6	107	0	0	0	120	HHDT	0	8.916666667	0.00	5.71	5.71
Valley View Ave-L2 Grade Separation_CTF7	151	0	0	0	120	HHDT	0	12.58333333	0.00	8.05	8.05

Phase	Days	Truck Trips per Day (In/Out)	Total Truck Trips	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Valley View Ave-L2 Grade Separation_CTF8	216	0	0	0	120	HHDT	0	18	0.00	11.52	11.52
Valley View Ave-L2 Grade Separation_CTF9	43	0	0	0	120	HHDT	0	3.583333333	0.00	2.29	2.29
Valley View Ave-L2 Grade Separation_CTF10	66	0	0	0	120	HHDT	0	5.5	0.00	3.52	3.52
Beach Blvd-L2 Grade Separation_FD	261	0	0	0	120	HHDT	0	21.75	0.00	13.92	13.92
Beach Blvd-L2 Grade Separation_CTF1	43	0	0	0	120	HHDT	0	3.583333333	0.00	2.29	2.29
Beach Blvd-L2 Grade Separation_CTF2	87	0	0	0	120	HHDT	0	7.25	0.00	4.64	4.64
Beach Blvd-L2 Grade Separation_CTF3	109	0	0	0	120	HHDT	0	9.083333333	0.00	5.81	5.81
Beach Blvd-L2 Grade Separation_CTF4	261	0	0	0	120	HHDT	0	21.75	0.00	13.92	13.92
Beach Blvd-L2 Grade Separation_CTF5	109	0	0	0	120	HHDT	0	9.083333333	0.00	5.81	5.81
Beach Blvd-L2 Grade Separation_CTF6	109	0	0	0	120	HHDT	0	9.083333333	0.00	5.81	5.81
Gilbert St-L2 Grade Separation_FD	390	0	0	0	120	HHDT	0	32.5	0.00	20.80	20.80
Gilbert St-L2 Grade Separation_CTF1	43	0	0	0	120	HHDT	0	3.583333333	0.00	2.29	2.29
Gilbert St-L2 Grade Separation_CTF2	86	0	0	0	120	HHDT	0	7.166666667	0.00	4.59	4.59
Gilbert St-L2 Grade Separation_CTF3	130	0	0	0	120	HHDT	0	10.83333333	0.00	6.93	6.93
Gilbert St-L2 Grade Separation_CTF4	390	0	0	0	120	HHDT	0	32.5	0.00	20.80	20.80
Gilbert St-L2 Grade Separation_CTF5	216	0	0	0	120	HHDT	0	18	0.00	11.52	11.52
Gilbert St-L2 Grade Separation_CTF6	132	0	0	0	120	HHDT	0	11	0.00	7.04	7.04
Gilbert St-L2 Grade Separation_CTF7	218	0	0	0	120	HHDT	0	18.16666667	0.00	11.63	11.63
Euclid St-L2 Grade Separation_FD	391	0	0	0	120	HHDT	0	32.58333333	0.00	20.85	20.85
Euclid St-L2 Grade Separation_CTF1	262	0	0	0	120	HHDT	0	21.83333333	0.00	13.97	13.97
Euclid St-L2 Grade Separation_CTF2	283	0	0	0	120	HHDT	0	23.58333333	0.00	15.09	15.09
Euclid St-L2 Grade Separation_CTF3	326	0	0	0	120	HHDT	0	27.16666667	0.00	17.39	17.39
Euclid St-L2 Grade Separation_CTF4	391	0	0	0	120	HHDT	0	32.58333333	0.00	20.85	20.85
Euclid St-L2 Grade Separation_CTF5	43	0	0	0	120	HHDT	0	3.583333333	0.00	2.29	2.29
Euclid St-L2 Grade Separation_CTF6	88	0	0	0	120	HHDT	0	7.333333333	0.00	4.69	4.69
Euclid St-L2 Grade Separation_CTF7	43	0	0	0	120	HHDT	0	3.583333333	0.00	2.29	2.29
Euclid St-L2 Grade Separation_CTF8	154	0	0	0	120	HHDT	0	12.83333333	0.00	8.21	8.21
Lemon St-L2 Grade Separation_FD	650	0	0	0	120	HHDT	0	54.16666667	0.00	34.67	34.67
Lemon St-L2 Grade Separation_CTF1	238	0	0	0	120	HHDT	0	19.83333333	0.00	12.69	12.69
Lemon St-L2 Grade Separation_CTF2	650	0	0	0	120	HHDT	0	54.16666667	0.00	34.67	34.67
Lemon St-L2 Grade Separation_CTF3	79	0	0	0	120	HHDT	0	6.583333333	0.00	4.21	4.21
Lemon St-L2 Grade Separation_CTF4	261	0	0	0	120	HHDT	0	21.75	0.00	13.92	13.92
Lemon St-L2 Grade Separation_CTF5	109	0	0	0	120	HHDT	0	9.083333333	0.00	5.81	5.81
Lemon St-L2 Grade Separation_CTF6	132	0	0	0	120	HHDT	0	11	0.00	7.04	7.04
Lemon St-L2 Grade Separation_CTF7	305	0	0	0	120	HHDT	0	25.41666667	0.00	16.27	16.27
Atlantic Blvd-L3 Grade Separation_FD	328	0	0	0	120	HHDT	0	27.33333333	0.00	17.49	17.49
Atlantic Blvd-L3 Grade Separation_CTF1	132	0	0	0	120	HHDT	0	11	0.00	7.04	7.04
Atlantic Blvd-L3 Grade Separation_CTF2	154	0	0	0	120	HHDT	0	12.83333333	0.00	8.21	8.21
Atlantic Blvd-L3 Grade Separation_CTF3	219	0	0	0	120	HHDT	0	18.25	0.00	11.68	11.68
Atlantic Blvd-L3 Grade Separation_CTF4	328	0	0	0	120	HHDT	0	27.33333333	0.00	17.49	17.49
Atlantic Blvd-L3 Grade Separation_CTF5	66	0	0	0	120	HHDT	0	5.5	0.00	3.52	3.52
Atlantic Blvd-L3 Grade Separation_CTF6	86	0	0	0	120	HHDT	0	7.166666667	0.00	4.59	4.59
Atlantic Blvd-L3 Grade Separation_CTF7	131	0	0	0	120	HHDT	0	10.91666667	0.00	6.99	6.99
Atlantic Blvd-L3 Grade Separation_CTF8	174	0	0	0	120	HHDT	0	14.5	0.00	9.28	9.28
Atlantic Blvd-L3 Grade Separation_CTF9	261	0	0	0	120	HHDT	0	21.75	0.00	13.92	13.92
Rosemead Blvd-L3 Grade Separation_FD	521	0	0	0	120	HHDT	0	43.41666667	0.00	27.79	27.79
Rosemead Blvd-L3 Grade Separation_CTF1	108	0	0	0	120	HHDT	0	9	0.00	5.76	5.76
Rosemead Blvd-L3 Grade Separation_CTF2	521	0	0	0	120	HHDT	0	43.41666667	0.00	27.79	27.79
Rosemead Blvd-L3 Grade Separation_CTF3	63	0	0	0	120	HHDT	0	5.25	0.00	3.36	3.36
Rosemead Blvd-L3 Grade Separation_CTF4	108	0	0	0	120	HHDT	0	9	0.00	5.76	5.76
Rosemead Blvd-L3 Grade Separation_CTF5	433	0	0	0	120	HHDT	0	36.08333333	0.00	23.09	23.09
Rosemead Blvd-L3 Grade Separation_CTF6	66	0	0	0	120	HHDT	0	5.5	0.00	3.52	3.52
Rosemead Blvd-L3 Grade Separation_CTF7	86	0	0	0	120	HHDT	0	7.166666667	0.00	4.59	4.59
Rosemead Blvd-L3 Grade Separation_CTF8	413	0	0	0	120	HHDT	0	34.41666667	0.00	22.03	22.03

Phase	Days	Truck Trips per Day (In/Out)	Total Truck Trips	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Rosemead Blvd-L3 Grade Separation_CTF9	45	0	0	0	120	HHDT	0	3.75	0.00	2.40	2.40
Rosemead Blvd-L3 Grade Separation_CTF10	260	0	0	0	120	HHDT	0	21.66666667	0.00	13.87	13.87
Rosemead Blvd-L3 Grade Separation_CTF11	109	0	0	0	120	HHDT	0	9.083333333	0.00	5.81	5.81
Rosemead Blvd-L3 Grade Separation_CTF12	22	0	0	0	120	HHDT	0	1.833333333	0.00	1.17	1.17
Rosemead Blvd-L3 Grade Separation_CTF13	109	0	0	0	120	HHDT	0	9.083333333	0.00	5.81	5.81
Rosemead Blvd-L3 Grade Separation_CTF14	43	0	0	0	120	HHDT	0	3.583333333	0.00	2.29	2.29
Rosemead Blvd-L3 Grade Separation_CTF15	86	0	0	0	120	HHDT	0	7.166666667	0.00	4.59	4.59
Rosemead Blvd-L3 Grade Separation_CTF16	66	0	0	0	120	HHDT	0	5.5	0.00	3.52	3.52
Slauson Ave-L3 Grade Separation_FD	347	0	0	0	120	HHDT	0	28.91666667	0.00	18.51	18.51
Slauson Ave-L3 Grade Separation_CTF1	109	0	0	0	120	HHDT	0	9.083333333	0.00	5.81	5.81
Slauson Ave-L3 Grade Separation_CTF2	347	0	0	0	120	HHDT	0	28.91666667	0.00	18.51	18.51
Slauson Ave-L3 Grade Separation_CTF3	65	0	0	0	120	HHDT	0	5.416666667	0.00	3.47	3.47
Slauson Ave-L3 Grade Separation_CTF4	87	0	0	0	120	HHDT	0	7.25	0.00	4.64	4.64
Slauson Ave-L3 Grade Separation_CTF5	109	0	0	0	120	HHDT	0	9.083333333	0.00	5.81	5.81
Slauson Ave-L3 Grade Separation_CTF6	109	0	0	0	120	HHDT	0	9.083333333	0.00	5.81	5.81
Slauson Ave-L3 Grade Separation_CTF7	173	0	0	0	120	HHDT	0	14.41666667	0.00	9.23	9.23
Carmenita Rd-L3 Grade Separation_FD	521	0	0	0	120	HHDT	0	43.41666667	0.00	27.79	27.79
Carmenita Rd-L3 Grade Separation_CTF1	109	0	0	0	120	HHDT	0	9.083333333	0.00	5.81	5.81
Carmenita Rd-L3 Grade Separation_CTF2	196	0	0	0	120	HHDT	0	16.33333333	0.00	10.45	10.45
Carmenita Rd-L3 Grade Separation_CTF3	218	0	0	0	120	HHDT	0	18.16666667	0.00	11.63	11.63
Carmenita Rd-L3 Grade Separation_CTF4	521	0	0	0	120	HHDT	0	43.41666667	0.00	27.79	27.79
Carmenita Rd-L3 Grade Separation_CTF5	195	0	0	0	120	HHDT	0	16.25	0.00	10.40	10.40
Carmenita Rd-L3 Grade Separation_CTF6	304	0	0	0	120	HHDT	0	25.33333333	0.00	16.21	16.21
Carmenita Rd-L3 Grade Separation_CTF7	66	0	0	0	120	HHDT	0	5.5	0.00	3.52	3.52
Carmenita Rd-L3 Grade Separation_CTF8	87	0	0	0	120	HHDT	0	7.25	0.00	4.64	4.64
Carmenita Rd-L3 Grade Separation_CTF9	368	0	0	0	120	HHDT	0	30.66666667	0.00	19.63	19.63
Carmenita Rd-L3 Grade Separation_CTF10	108	0	0	0	120	HHDT	0	9	0.00	5.76	5.76
Carmenita Rd-L3 Grade Separation_CTF11	195	0	0	0	120	HHDT	0	16.25	0.00	10.40	10.40
Alondra Blvd-L3 Grade Separation_FD	652	0	0	0	120	HHDT	0	54.33333333	0.00	34.77	34.77
Alondra Blvd-L3 Grade Separation_CTF1	153	0	0	0	120	HHDT	0	12.75	0.00	8.16	8.16
Alondra Blvd-L3 Grade Separation_CTF2	217	0	0	0	120	HHDT	0	18.08333333	0.00	11.57	11.57
Alondra Blvd-L3 Grade Separation_CTF3	261	0	0	0	120	HHDT	0	21.75	0.00	13.92	13.92
Alondra Blvd-L3 Grade Separation_CTF4	327	0	0	0	120	HHDT	0	27.25	0.00	17.44	17.44
Alondra Blvd-L3 Grade Separation_CTF5	587	0	0	0	120	HHDT	0	48.91666667	0.00	31.31	31.31
Alondra Blvd-L3 Grade Separation_CTF6	652	0	0	0	120	HHDT	0	54.33333333	0.00	34.77	34.77
Alondra Blvd-L3 Grade Separation_CTF7	44	0	0	0	120	HHDT	0	3.666666667	0.00	2.35	2.35
Alondra Blvd-L3 Grade Separation_CTF8	174	0	0	0	120	HHDT	0	14.5	0.00	9.28	9.28
Alondra Blvd-L3 Grade Separation_CTF9	217	0	0	0	120	HHDT	0	18.08333333	0.00	11.57	11.57
Alondra Blvd-L3 Grade Separation_CTF10	478	0	0	0	120	HHDT	0	39.83333333	0.00	25.49	25.49
Alondra Blvd-L3 Grade Separation_CTF11	565	0	0	0	120	HHDT	0	47.08333333	0.00	30.13	30.13
Alondra Blvd-L3 Grade Separation_CTF12	43	0	0	0	120	HHDT	0	3.583333333	0.00	2.29	2.29
Dale St-L3 Grade Separation_FD	326	0	0	0	120	HHDT	0	27.16666667	0.00	17.39	17.39
Dale St-L3 Grade Separation_CTF1	21	0	0	0	120	HHDT	0	1.75	0.00	1.12	1.12
Dale St-L3 Grade Separation_CTF2	43	0	0	0	120	HHDT	0	3.583333333	0.00	2.29	2.29
Dale St-L3 Grade Separation_CTF3	86	0	0	0	120	HHDT	0	7.166666667	0.00	4.59	4.59
Dale St-L3 Grade Separation_CTF4	109	0	0	0	120	HHDT	0	9.083333333	0.00	5.81	5.81
Dale St-L3 Grade Separation_CTF5	174	0	0	0	120	HHDT	0	14.5	0.00	9.28	9.28
Dale St-L3 Grade Separation_CTF6	218	0	0	0	120	HHDT	0	18.16666667	0.00	11.63	11.63
Dale St-L3 Grade Separation_CTF7	217	0	0	0	120	HHDT	0	18.08333333	0.00	11.57	11.57
Dale St-L3 Grade Separation_CTF8	110	0	0	0	120	HHDT	0	9.166666667	0.00	5.87	5.87
Dale St-L3 Grade Separation_CTF9	77	0	0	0	120	HHDT	0	6.416666667	0.00	4.11	4.11
Commonwealth Ave-L3 Grade Separation_FD	522	0	0	0	120	HHDT	0	43.5	0.00	27.84	27.84
Commonwealth Ave-L3 Grade Separation_CTF1	132	0	0	0	120	HHDT	0	11	0.00	7.04	7.04
Commonwealth Ave-L3 Grade Separation_CTF2	261	0	0	0	120	HHDT	0	21.75	0.00	13.92	13.92

Phase	Days	Truck Trips per Day (In/Out)	Total Truck Trips	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Commonwealth Ave-L3 Grade Separation_CTF3	522	0	0	0	120	HHDT	0	43.5	0.00	27.84	27.84
Commonwealth Ave-L3 Grade Separation_CTF4	260	0	0	0	120	HHDT	0	21.66666667	0.00	13.87	13.87
Commonwealth Ave-L3 Grade Separation_CTF5	152	0	0	0	120	HHDT	0	12.66666667	0.00	8.11	8.11
Commonwealth Ave-L3 Grade Separation_CTF6	43	0	0	0	120	HHDT	0	3.583333333	0.00	2.29	2.29
Commonwealth Ave-L3 Grade Separation_CTF7	195	0	0	0	120	HHDT	0	16.25	0.00	10.40	10.40
Commonwealth Ave-L3 Grade Separation_CTF8	86	0	0	0	120	HHDT	0	7.166666667	0.00	4.59	4.59
Commonwealth Ave-L3 Grade Separation_CTF9	85	0	0	0	120	HHDT	0	7.083333333	0.00	4.53	4.53
Commonwealth Ave-L3 Grade Separation_CTF10	870	0	0	0	120	HHDT	0	72.5	0.00	46.40	46.40
Commonwealth Ave-L3 Grade Separation_CTF11	43	0	0	0	120	HHDT	0	3.583333333	0.00	2.29	2.29
Highland Ave-L3 Grade Separation_FD	651	0	0	0	120	HHDT	0	54.25	0.00	34.72	34.72
Highland Ave-L3 Grade Separation_CTF1	152	0	0	0	120	HHDT	0	12.66666667	0.00	8.11	8.11
Highland Ave-L3 Grade Separation_CTF2	130	0	0	0	120	HHDT	0	10.83333333	0.00	6.93	6.93
Highland Ave-L3 Grade Separation_CTF3	260	0	0	0	120	HHDT	0	21.66666667	0.00	13.87	13.87
Highland Ave-L3 Grade Separation_CTF4	651	0	0	0	120	HHDT	0	54.25	0.00	34.72	34.72
Highland Ave-L3 Grade Separation_CTF5	630	0	0	0	120	HHDT	0	52.5	0.00	33.60	33.60
Highland Ave-L3 Grade Separation_CTF6	66	0	0	0	120	HHDT	0	5.5	0.00	3.52	3.52
Highland Ave-L3 Grade Separation_CTF7	132	0	0	0	120	HHDT	0	11	0.00	7.04	7.04
Highland Ave-L3 Grade Separation_CTF8	154	0	0	0	120	HHDT	0	12.83333333	0.00	8.21	8.21
Highland Ave-L3 Grade Separation_CTF9	174	0	0	0	120	HHDT	0	14.5	0.00	9.28	9.28
Highland Ave-L3 Grade Separation_CTF10	130	0	0	0	120	HHDT	0	10.83333333	0.00	6.93	6.93
Highland Ave-L3 Grade Separation_CTF11	261	0	0	0	120	HHDT	0	21.75	0.00	13.92	13.92
Highland Ave-L3 Grade Separation_CTF12	217	0	0	0	120	HHDT	0	18.08333333	0.00	11.57	11.57
Highland Ave-L3 Grade Separation_CTF13	174	0	0	0	120	HHDT	0	14.5	0.00	9.28	9.28
Harbor Blvd-L3 Grade Separation_FD	522	0	0	0	120	HHDT	0	43.5	0.00	27.84	27.84
Harbor Blvd-L3 Grade Separation_CTF1	217	0	0	0	120	HHDT	0	18.08333333	0.00	11.57	11.57
Harbor Blvd-L3 Grade Separation_CTF2	522	0	0	0	120	HHDT	0	43.5	0.00	27.84	27.84
Harbor Blvd-L3 Grade Separation_CTF3	173	0	0	0	120	HHDT	0	14.41666667	0.00	9.23	9.23
Harbor Blvd-L3 Grade Separation_CTF4	217	0	0	0	120	HHDT	0	18.08333333	0.00	11.57	11.57
Harbor Blvd-L3 Grade Separation_CTF5	173	0	0	0	120	HHDT	0	14.41666667	0.00	9.23	9.23
Douglass Rd-L3 Grade Separation_FD	392	0	0	0	120	HHDT	0	32.66666667	0.00	20.91	20.91
Douglass Rd-L3 Grade Separation_CTF1	131	0	0	0	120	HHDT	0	10.91666667	0.00	6.99	6.99
Douglass Rd-L3 Grade Separation_CTF2	218	0	0	0	120	HHDT	0	18.16666667	0.00	11.63	11.63
Douglass Rd-L3 Grade Separation_CTF3	262	0	0	0	120	HHDT	0	21.83333333	0.00	13.97	13.97
Douglass Rd-L3 Grade Separation_CTF4	392	0	0	0	120	HHDT	0	32.66666667	0.00	20.91	20.91
Douglass Rd-L3 Grade Separation_CTF5	434	0	0	0	120	HHDT	0	36.16666667	0.00	23.15	23.15
Douglass Rd-L3 Grade Separation_CTF6	43	0	0	0	120	HHDT	0	3.583333333	0.00	2.29	2.29
Douglass Rd-L3 Grade Separation_CTF7	174	0	0	0	120	HHDT	0	14.5	0.00	9.28	9.28
Douglass Rd-L3 Grade Separation_CTF8	130	0	0	0	120	HHDT	0	10.83333333	0.00	6.93	6.93
Douglass Rd-L3 Grade Separation_CTF9	175	0	0	0	120	HHDT	0	14.58333333	0.00	9.33	9.33
Douglass Rd-L3 Grade Separation_CTF10	196	0	0	0	120	HHDT	0	16.33333333	0.00	10.45	10.45
Douglass Rd-L3 Grade Separation_CTF11	64	0	0	0	120	HHDT	0	5.333333333	0.00	3.41	3.41
Pioneer Blvd-L4 Grade Separation_FD	654	0	0	0	120	HHDT	0	54.5	0.00	34.88	34.88
Pioneer Blvd-L4 Grade Separation_CTF1	262	0	0	0	120	HHDT	0	21.83333333	0.00	13.97	13.97
Pioneer Blvd-L4 Grade Separation_CTF2	349	0	0	0	120	HHDT	0	29.08333333	0.00	18.61	18.61
Pioneer Blvd-L4 Grade Separation_CTF3	654	0	0	0	120	HHDT	0	54.5	0.00	34.88	34.88
Pioneer Blvd-L4 Grade Separation_CTF4	132	0	0	0	120	HHDT	0	11	0.00	7.04	7.04
Pioneer Blvd-L4 Grade Separation_CTF5	153	0	0	0	120	HHDT	0	12.75	0.00	8.16	8.16
Pioneer Blvd-L4 Grade Separation_CTF6	262	0	0	0	120	HHDT	0	21.83333333	0.00	13.97	13.97
Pioneer Blvd-L4 Grade Separation_CTF7	131	0	0	0	120	HHDT	0	10.91666667	0.00	6.99	6.99
Pioneer Blvd-L4 Grade Separation_CTF8	174	0	0	0	120	HHDT	0	14.5	0.00	9.28	9.28
Pioneer Blvd-L4 Grade Separation_CTF9	479	0	0	0	120	HHDT	0	39.91666667	0.00	25.55	25.55
Pioneer Blvd-L4 Grade Separation_CTF10	457	0	0	0	120	HHDT	0	38.08333333	0.00	24.37	24.37
Pioneer Blvd-L4 Grade Separation_CTF11	130	0	0	0	120	HHDT	0	10.83333333	0.00	6.93	6.93
Pioneer Blvd-L4 Grade Separation_CTF12	349	0	0	0	120	HHDT	0	29.08333333	0.00	18.61	18.61

Phase	Days	Truck Trips per Day (In/Out)	Total Truck Trips	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Pioneer Blvd-L4 Grade Separation_CTF13	175	0	0	0	120	HHDT	0	14.58333333	0.00	9.33	9.33
Pioneer Blvd-L4 Grade Separation_CTF14	107	0	0	0	120	HHDT	0	8.916666667	0.00	5.71	5.71
Pioneer Blvd-L4 Grade Separation_CTF15	44	0	0	0	120	HHDT	0	3.666666667	0.00	2.35	2.35
Pioneer Blvd-L4 Grade Separation_CTF16	66	0	0	0	120	HHDT	0	5.5	0.00	3.52	3.52
Norwalk Blvd-L4 Grade Separation_FD	782	0	0	0	120	HHDT	0	65.16666667	0.00	41.71	41.71
Norwalk Blvd-L4 Grade Separation_CTF1	131	0	0	0	120	HHDT	0	10.91666667	0.00	6.99	6.99
Norwalk Blvd-L4 Grade Separation_CTF2	152	0	0	0	120	HHDT	0	12.66666667	0.00	8.11	8.11
Norwalk Blvd-L4 Grade Separation_CTF3	391	0	0	0	120	HHDT	0	32.58333333	0.00	20.85	20.85
Norwalk Blvd-L4 Grade Separation_CTF4	542	0	0	0	120	HHDT	0	45.16666667	0.00	28.91	28.91
Norwalk Blvd-L4 Grade Separation_CTF5	782	0	0	0	120	HHDT	0	65.16666667	0.00	41.71	41.71
Norwalk Blvd-L4 Grade Separation_CTF6	131	0	0	0	120	HHDT	0	10.91666667	0.00	6.99	6.99
Norwalk Blvd-L4 Grade Separation_CTF7	107	0	0	0	120	HHDT	0	8.916666667	0.00	5.71	5.71
Norwalk Blvd-L4 Grade Separation_CTF8	130	0	0	0	120	HHDT	0	10.83333333	0.00	6.93	6.93
Norwalk Blvd-L4 Grade Separation_CTF9	390	0	0	0	120	HHDT	0	32.5	0.00	20.80	20.80
Norwalk Blvd-L4 Grade Separation_CTF10	130	0	0	0	120	HHDT	0	10.83333333	0.00	6.93	6.93
Norwalk Blvd-L4 Grade Separation_CTF11	218	0	0	0	120	HHDT	0	18.16666667	0.00	11.63	11.63
Los Nietos Rd-L4 Grade Separation_FD	782	0	0	0	120	HHDT	0	65.16666667	0.00	41.71	41.71
Los Nietos Rd-L4 Grade Separation_CTF1	131	0	0	0	120	HHDT	0	10.91666667	0.00	6.99	6.99
Los Nietos Rd-L4 Grade Separation_CTF2	152	0	0	0	120	HHDT	0	12.66666667	0.00	8.11	8.11
Los Nietos Rd-L4 Grade Separation_CTF3	391	0	0	0	120	HHDT	0	32.58333333	0.00	20.85	20.85
Los Nietos Rd-L4 Grade Separation_CTF4	542	0	0	0	120	HHDT	0	45.16666667	0.00	28.91	28.91
Los Nietos Rd-L4 Grade Separation_CTF5	782	0	0	0	120	HHDT	0	65.16666667	0.00	41.71	41.71
Los Nietos Rd-L4 Grade Separation_CTF6	131	0	0	0	120	HHDT	0	10.91666667	0.00	6.99	6.99
Los Nietos Rd-L4 Grade Separation_CTF7	107	0	0	0	120	HHDT	0	8.916666667	0.00	5.71	5.71
Los Nietos Rd-L4 Grade Separation_CTF8	130	0	0	0	120	HHDT	0	10.83333333	0.00	6.93	6.93
Los Nietos Rd-L4 Grade Separation_CTF9	390	0	0	0	120	HHDT	0	32.5	0.00	20.80	20.80
Los Nietos Rd-L4 Grade Separation_CTF10	130	0	0	0	120	HHDT	0	10.83333333	0.00	6.93	6.93
Los Nietos Rd-L4 Grade Separation_CTF11	218	0	0	0	120	HHDT	0	18.16666667	0.00	11.63	11.63
Cerritos Ave-L4 Grade Separation_FD	783	0	0	0	120	HHDT	0	65.25	0.00	41.76	41.76
Cerritos Ave-L4 Grade Separation_CTF1	130	0	0	0	120	HHDT	0	10.83333333	0.00	6.93	6.93
Cerritos Ave-L4 Grade Separation_CTF2	130	0	0	0	120	HHDT	0	10.83333333	0.00	6.93	6.93
Cerritos Ave-L4 Grade Separation_CTF3	283	0	0	0	120	HHDT	0	23.58333333	0.00	15.09	15.09
Cerritos Ave-L4 Grade Separation_CTF4	391	0	0	0	120	HHDT	0	32.58333333	0.00	20.85	20.85
Cerritos Ave-L4 Grade Separation_CTF5	500	0	0	0	120	HHDT	0	41.66666667	0.00	26.67	26.67
Cerritos Ave-L4 Grade Separation_CTF6	783	0	0	0	120	HHDT	0	65.25	0.00	41.76	41.76
Cerritos Ave-L4 Grade Separation_CTF7	129	0	0	0	120	HHDT	0	10.75	0.00	6.88	6.88
Cerritos Ave-L4 Grade Separation_CTF8	434	0	0	0	120	HHDT	0	36.16666667	0.00	23.15	23.15
Cerritos Ave-L4 Grade Separation_CTF9	129	0	0	0	120	HHDT	0	10.75	0.00	6.88	6.88
Cerritos Ave-L4 Grade Separation_CTF10	172	0	0	0	120	HHDT	0	14.33333333	0.00	9.17	9.17
Cerritos Ave-L4 Grade Separation_CTF11	238	0	0	0	120	HHDT	0	19.83333333	0.00	12.69	12.69
Cerritos Ave-L4 Grade Separation_CTF12	261	0	0	0	120	HHDT	0	21.75	0.00	13.92	13.92
Cerritos Ave-L4 Grade Separation_CTF13	196	0	0	0	120	HHDT	0	16.33333333	0.00	10.45	10.45
Cerritos Ave-L4 Grade Separation_CTF14	89	0	0	0	120	HHDT	0	7.416666667	0.00	4.75	4.75
Cerritos Ave-L4 Grade Separation_CTF15	132	0	0	0	120	HHDT	0	11	0.00	7.04	7.04
Cerritos Ave-L4 Grade Separation_CTF16	87	0	0	0	120	HHDT	0	7.25	0.00	4.64	4.64
Cerritos Ave-L4 Grade Separation_CTF17	218	0	0	0	120	HHDT	0	18.16666667	0.00	11.63	11.63
Cerritos Ave-L4 Grade Separation_CTF18	131	0	0	0	120	HHDT	0	10.91666667	0.00	6.99	6.99
Lewis St-L4 Grade Separation_FD	390	0	0	0	120	HHDT	0	32.5	0.00	20.80	20.80
Lewis St-L4 Grade Separation_CTF1	41	0	0	0	120	HHDT	0	3.416666667	0.00	2.19	2.19
Lewis St-L4 Grade Separation_CTF2	260	0	0	0	120	HHDT	0	21.66666667	0.00	13.87	13.87
Lewis St-L4 Grade Separation_CTF3	65	0	0	0	120	HHDT	0	5.416666667	0.00	3.47	3.47
Lewis St-L4 Grade Separation_CTF4	175	0	0	0	120	HHDT	0	14.58333333	0.00	9.33	9.33
Lewis St-L4 Grade Separation_CTF5	21	0	0	0	120	HHDT	0	1.75	0.00	1.12	1.12
Lewis St-L4 Grade Separation_CTF6	44	0	0	0	120	HHDT	0	3.666666667	0.00	2.35	2.35

Phase	Days	Truck Trips per Day (In/Out)	Total Truck Trips	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Lewis St-L4 Grade Separation_CTF7	109	0	0	0	120	HHDT	0	9.083333333	0.00	5.81	5.81
Lewis St-L4 Grade Separation_CTF8	261	0	0	0	120	HHDT	0	21.75	0.00	13.92	13.92
Lewis St-L4 Grade Separation_CTF9	131	0	0	0	120	HHDT	0	10.91666667	0.00	6.99	6.99
Lewis St-L4 Grade Separation_CTF10	163	0	0	0	120	HHDT	0	13.58333333	0.00	8.69	8.69
Lewis St-L4 Grade Separation_CTF11	88	0	0	0	120	HHDT	0	7.333333333	0.00	4.69	4.69
Lewis St-L4 Grade Separation_CTF12	240	0	0	0	120	HHDT	0	20	0.00	12.80	12.80
Lewis St-L4 Grade Separation_CTF13	65	0	0	0	120	HHDT	0	5.416666667	0.00	3.47	3.47
Lewis St-L4 Grade Separation_CTF14	195	0	0	0	120	HHDT	0	16.25	0.00	10.40	10.40
Lewis St-L4 Grade Separation_CTF15	87	0	0	0	120	HHDT	0	7.25	0.00	4.64	4.64
State College Blvd-L4 Grade Separation_FD	783	0	0	0	120	HHDT	0	65.25	0.00	41.76	41.76
State College Blvd-L4 Grade Separation_CTF1	173	0	0	0	120	HHDT	0	14.41666667	0.00	9.23	9.23
State College Blvd-L4 Grade Separation_CTF2	523	0	0	0	120	HHDT	0	43.58333333	0.00	27.89	27.89
State College Blvd-L4 Grade Separation_CTF3	783	0	0	0	120	HHDT	0	65.25	0.00	41.76	41.76
State College Blvd-L4 Grade Separation_CTF4	412	0	0	0	120	HHDT	0	34.33333333	0.00	21.97	21.97
State College Blvd-L4 Grade Separation_CTF5	197	0	0	0	120	HHDT	0	16.41666667	0.00	10.51	10.51
State College Blvd-L4 Grade Separation_CTF6	219	0	0	0	120	HHDT	0	18.25	0.00	11.68	11.68
State College Blvd-L4 Grade Separation_CTF7	153	0	0	0	120	HHDT	0	12.75	0.00	8.16	8.16
State College Blvd-L4 Grade Separation_CTF8	108	0	0	0	120	HHDT	0	9	0.00	5.76	5.76
State College Blvd-L4 Grade Separation_CTF9	217	0	0	0	120	HHDT	0	18.08333333	0.00	11.57	11.57
State College Blvd-L4 Grade Separation_CTF10	304	0	0	0	120	HHDT	0	25.33333333	0.00	16.21	16.21
State College Blvd-L4 Grade Separation_CTF11	261	0	0	0	120	HHDT	0	21.75	0.00	13.92	13.92
State College Blvd-L4 Grade Separation_CTF12	129	0	0	0	120	HHDT	0	10.75	0.00	6.88	6.88
State College Blvd-L4 Grade Separation_CTF13	129	0	0	0	120	HHDT	0	10.75	0.00	6.88	6.88
State College Blvd-L4 Grade Separation_CTF14	239	0	0	0	120	HHDT	0	19.91666667	0.00	12.75	12.75
State College Blvd-L4 Grade Separation_CTF15	87	0	0	0	120	HHDT	0	7.25	0.00	4.64	4.64
Katella Ave-L4 Grade Separation_FD	651	0	0	0	120	HHDT	0	54.25	0.00	34.72	34.72
Katella Ave-L4 Grade Separation_CTF1	85	0	0	0	120	HHDT	0	7.083333333	0.00	4.53	4.53
Katella Ave-L4 Grade Separation_CTF2	260	0	0	0	120	HHDT	0	21.66666667	0.00	13.87	13.87
Katella Ave-L4 Grade Separation_CTF3	390	0	0	0	120	HHDT	0	32.5	0.00	20.80	20.80
Katella Ave-L4 Grade Separation_CTF4	651	0	0	0	120	HHDT	0	54.25	0.00	34.72	34.72
Katella Ave-L4 Grade Separation_CTF5	175	0	0	0	120	HHDT	0	14.58333333	0.00	9.33	9.33
Katella Ave-L4 Grade Separation_CTF6	130	0	0	0	120	HHDT	0	10.83333333	0.00	6.93	6.93
Katella Ave-L4 Grade Separation_CTF7	195	0	0	0	120	HHDT	0	16.25	0.00	10.40	10.40
Katella Ave-L4 Grade Separation_CTF8	65	0	0	0	120	HHDT	0	5.416666667	0.00	3.47	3.47
Katella Ave-L4 Grade Separation_CTF9	87	0	0	0	120	HHDT	0	7.25	0.00	4.64	4.64
Katella Ave-L4 Grade Separation_CTF10	65	0	0	0	120	HHDT	0	5.416666667	0.00	3.47	3.47
Redondo Junction-L1 Water Crossing_FD	87	0	0	0	120	HHDT	0	7.25	0.00	4.64	4.64
Redondo Junction-L1 Water Crossing_CTF1	87	0	0	0	120	HHDT	0	7.25	0.00	4.64	4.64
Coyote Creek-L1Water Crossing_FD	131	0	0	0	120	HHDT	0	10.91666667	0.00	6.99	6.99
Coyote Creek-L1Water Crossing_CTF1	66	0	0	0	120	HHDT	0	5.5	0.00	3.52	3.52
Coyote Creek-L1Water Crossing_CTF2	131	0	0	0	120	HHDT	0	10.91666667	0.00	6.99	6.99
Coyote Creek-L1Water Crossing_CTF3	21	0	0	0	120	HHDT	0	1.75	0.00	1.12	1.12
Carbon Creek-L1 Water Crossing_FD	89	0	0	0	120	HHDT	0	7.416666667	0.00	4.75	4.75
Carbon Creek-L1 Water Crossing_CTF1	89	0	0	0	120	HHDT	0	7.416666667	0.00	4.75	4.75
San Gabriel River-L2 Water Crossing_FD	457	0	0	0	120	HHDT	0	38.08333333	0.00	24.37	24.37
San Gabriel River-L2 Water Crossing_CTF1	65	0	0	0	120	HHDT	0	5.416666667	0.00	3.47	3.47
San Gabriel River-L2 Water Crossing_CTF2	87	0	0	0	120	HHDT	0	7.25	0.00	4.64	4.64
San Gabriel River-L2 Water Crossing_CTF3	108	0	0	0	120	HHDT	0	9	0.00	5.76	5.76
San Gabriel River-L2 Water Crossing_CTF4	152	0	0	0	120	HHDT	0	12.66666667	0.00	8.11	8.11
San Gabriel River-L2 Water Crossing_CTF5	347	0	0	0	120	HHDT	0	28.91666667	0.00	18.51	18.51
San Gabriel River-L2 Water Crossing_CTF6	435	0	0	0	120	HHDT	0	36.25	0.00	23.20	23.20
San Gabriel River-L2 Water Crossing_CTF7	457	0	0	0	120	HHDT	0	38.08333333	0.00	24.37	24.37
San Gabriel River-L2 Water Crossing_CTF8	110	0	0	0	120	HHDT	0	9.166666667	0.00	5.87	5.87
San Gabriel River-L2 Water Crossing_CTF9	175	0	0	0	120	HHDT	0	14.58333333	0.00	9.33	9.33

Phase	Days	Truck Trips per Day (In/Out)	Total Truck Trips	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Rio Hondo SG-L3 Water Crossing_FD	325	0	0	0	120	HHDT	0	27.08333333	0.00	17.33	17.33
Rio Hondo SG-L3 Water Crossing_CTF1	150	0	0	0	120	HHDT	0	12.5	0.00	8.00	8.00
Rio Hondo SG-L3 Water Crossing_CTF2	216	0	0	0	120	HHDT	0	18	0.00	11.52	11.52
Rio Hondo SG-L3 Water Crossing_CTF3	325	0	0	0	120	HHDT	0	27.08333333	0.00	17.33	17.33
Rio Hondo River-L3 Water Crossing_FD	325	0	0	0	120	HHDT	0	27.08333333	0.00	17.33	17.33
Rio Hondo River-L3 Water Crossing_CTF1	150	0	0	0	120	HHDT	0	12.5	0.00	8.00	8.00
Rio Hondo River-L3 Water Crossing_CTF2	325	0	0	0	120	HHDT	0	27.08333333	0.00	17.33	17.33
Rio Hondo River-L3 Water Crossing_CTF3	65	0	0	0	120	HHDT	0	5.416666667	0.00	3.47	3.47
Rio Hondo River-L3 Water Crossing_CTF4	86	0	0	0	120	HHDT	0	7.166666667	0.00	4.59	4.59
Rio Hondo River-L3 Water Crossing_CTF5	108	0	0	0	120	HHDT	0	9	0.00	5.76	5.76
Rio Hondo River-L3 Water Crossing_CTF6	173	0	0	0	120	HHDT	0	14.41666667	0.00	9.23	9.23
Coyote Creek-N Fork-L3 Water Crossing_FD	260	0	0	0	120	HHDT	0	21.66666667	0.00	13.87	13.87
Coyote Creek-N Fork-L3 Water Crossing_CTF1	85	0	0	0	120	HHDT	0	7.083333333	0.00	4.53	4.53
Coyote Creek-N Fork-L3 Water Crossing_CTF2	108	0	0	0	120	HHDT	0	9	0.00	5.76	5.76
Coyote Creek-N Fork-L3 Water Crossing_CTF3	260	0	0	0	120	HHDT	0	21.66666667	0.00	13.87	13.87
Coyote Creek-N Fork-L3 Water Crossing_CTF4	455	0	0	0	120	HHDT	0	37.91666667	0.00	24.27	24.27
Coyote Creek-N Fork-L3 Water Crossing_CTF5	63	0	0	0	120	HHDT	0	5.25	0.00	3.36	3.36
Coyote Creek-N Fork-L3 Water Crossing_CTF6	173	0	0	0	120	HHDT	0	14.41666667	0.00	9.23	9.23
Coyote Creek-N Fork-L3 Water Crossing_CTF7	218	0	0	0	120	HHDT	0	18.16666667	0.00	11.63	11.63
La Mirada Creek-L3 Water Crossing_FD	260	0	0	0	120	HHDT	0	21.66666667	0.00	13.87	13.87
La Mirada Creek-L3 Water Crossing_CTF1	87	0	0	0	120	HHDT	0	7.25	0.00	4.64	4.64
La Mirada Creek-L3 Water Crossing_CTF2	130	0	0	0	120	HHDT	0	10.83333333	0.00	6.93	6.93
La Mirada Creek-L3 Water Crossing_CTF3	260	0	0	0	120	HHDT	0	21.66666667	0.00	13.87	13.87
La Mirada Creek-L3 Water Crossing_CTF4	43	0	0	0	120	HHDT	0	3.583333333	0.00	2.29	2.29
Brea Creek-L3 Water Crossing_FD	325	0	0	0	120	HHDT	0	27.08333333	0.00	17.33	17.33
Brea Creek-L3 Water Crossing_CTF1	42	0	0	0	120	HHDT	0	3.5	0.00	2.24	2.24
Brea Creek-L3 Water Crossing_CTF2	108	0	0	0	120	HHDT	0	9	0.00	5.76	5.76
Brea Creek-L3 Water Crossing_CTF3	130	0	0	0	120	HHDT	0	10.83333333	0.00	6.93	6.93
Brea Creek-L3 Water Crossing_CTF4	217	0	0	0	120	HHDT	0	18.08333333	0.00	11.57	11.57
Brea Creek-L3 Water Crossing_CTF5	43	0	0	0	120	HHDT	0	3.583333333	0.00	2.29	2.29
Brea Creek-L3 Water Crossing_CTF6	43	0	0	0	120	HHDT	0	3.583333333	0.00	2.29	2.29
Brea Creek-L3 Water Crossing_CTF7	175	0	0	0	120	HHDT	0	14.58333333	0.00	9.33	9.33
Brea Creek-L3 Water Crossing_CTF8	392	0	0	0	120	HHDT	0	32.66666667	0.00	20.91	20.91
Redondo Jct TPSS_FD	261	0	0	0	120	HHDT	0	21.75	0.00	13.92	13.92
Redondo Jct TPSS_CTF1	216	0	0	0	120	HHDT	0	18	0.00	11.52	11.52
Redondo Jct TPSS_CTF2	44	0	0	0	120	HHDT	0	3.666666667	0.00	2.35	2.35
Redondo Jct TPSS_CTF3	261	0	0	0	120	HHDT	0	21.75	0.00	13.92	13.92
Redondo Jct TPSS_CTF4	132	0	0	0	120	HHDT	0	11	0.00	7.04	7.04
Redondo Jct TPSS_CTF5	20	0	0	0	120	HHDT	0	1.666666667	0.00	1.07	1.07
Redondo Jct TPSS_CTF6	22	0	0	0	120	HHDT	0	1.833333333	0.00	1.17	1.17
Anaheim TPSS_FD	239	0	0	0	120	HHDT	0	19.91666667	0.00	12.75	12.75
Anaheim TPSS_CTF1	216	0	0	0	120	HHDT	0	18	0.00	11.52	11.52
Anaheim TPSS_CTF2	44	0	0	0	120	HHDT	0	3.666666667	0.00	2.35	2.35
Anaheim TPSS_CTF3	261	0	0	0	120	HHDT	0	21.75	0.00	13.92	13.92
Anaheim TPSS_CTF4	22	0	0	0	120	HHDT	0	1.833333333	0.00	1.17	1.17
Anaheim TPSS_CTF5	43	0	0	0	120	HHDT	0	3.583333333	0.00	2.29	2.29
Anaheim TPSS_CTF6	132	0	0	0	120	HHDT	0	11	0.00	7.04	7.04
Anaheim TPSS_CTF7	239	0	0	0	120	HHDT	0	19.91666667	0.00	12.75	12.75
Anaheim TPSS_CTF8	20	0	0	0	120	HHDT	0	1.666666667	0.00	1.07	1.07
Anaheim TPSS_CTF9	22	0	0	0	120	HHDT	0	1.833333333	0.00	1.17	1.17
Paralleling Station #2_FD	262	0	0	0	120	HHDT	0	21.83333333	0.00	13.97	13.97
Paralleling Station #2_CTF1	23	0	0	0	120	HHDT	0	1.916666667	0.00	1.23	1.23
Paralleling Station #2_CTF2	108	0	0	0	120	HHDT	0	9	0.00	5.76	5.76
Paralleling Station #2_CTF3	261	0	0	0	120	HHDT	0	21.75	0.00	13.92	13.92

Phase	Days	Truck Trips per Day (In/Out)	Total Truck Trips	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Paralleling Station #2_CTF4	22	0	0	0	120	HHDT	0	1.833333333	0.00	1.17	1.17
Paralleling Station #2_CTF5	20	0	0	0	120	HHDT	0	1.666666667	0.00	1.07	1.07
Paralleling Station #2_CTF6	22	0	0	0	120	HHDT	0	1.833333333	0.00	1.17	1.17
Paralleling Station #4_FD	261	0	0	0	120	HHDT	0	21.75	0.00	13.92	13.92
Paralleling Station #4_CTF1	23	0	0	0	120	HHDT	0	1.916666667	0.00	1.23	1.23
Paralleling Station #4_CTF2	108	0	0	0	120	HHDT	0	9	0.00	5.76	5.76
Paralleling Station #4_CTF3	261	0	0	0	120	HHDT	0	21.75	0.00	13.92	13.92
Paralleling Station #4_CTF4	22	0	0	0	120	HHDT	0	1.833333333	0.00	1.17	1.17
Paralleling Station #4_CTF5	20	0	0	0	120	HHDT	0	1.666666667	0.00	1.07	1.07
Paralleling Station #4_CTF6	22	0	0	0	120	HHDT	0	1.833333333	0.00	1.17	1.17
Switching Station_FD	129	0	0	0	120	HHDT	0	10.75	0.00	6.88	6.88
Switching Station_CTF1	22	0	0	0	120	HHDT	0	1.833333333	0.00	1.17	1.17
Switching Station_CTF2	129	0	0	0	120	HHDT	0	10.75	0.00	6.88	6.88
Switching Station_CTF3	20	0	0	0	120	HHDT	0	1.666666667	0.00	1.07	1.07
Switching Station_CTF4	44	0	0	0	120	HHDT	0	3.666666667	0.00	2.35	2.35
Switching Station_CTF5	22	0	0	0	120	HHDT	0	1.833333333	0.00	1.17	1.17
Communciation Tower #1_FD	66	0	0	0	120	HHDT	0	5.5	0.00	3.52	3.52
Communciation Tower #1_CTF1	23	0	0	0	120	HHDT	0	1.916666667	0.00	1.23	1.23
Communciation Tower #1_CTF2	66	0	0	0	120	HHDT	0	5.5	0.00	3.52	3.52
Communciation Tower #1_CTF3	22	0	0	0	120	HHDT	0	1.833333333	0.00	1.17	1.17
Communciation Tower #3_FD	64	0	0	0	120	HHDT	0	5.333333333	0.00	3.41	3.41
Communciation Tower #3_CTF1	42	0	0	0	120	HHDT	0	3.5	0.00	2.24	2.24
Communciation Tower #3_CTF2	64	0	0	0	120	HHDT	0	5.333333333	0.00	3.41	3.41
Communciation Tower #3_CTF3	21	0	0	0	120	HHDT	0	1.75	0.00	1.12	1.12
Communciation Tower #3_CTF4	22	0	0	0	120	HHDT	0	1.833333333	0.00	1.17	1.17
Communciation Tower #5_FD	66	0	0	0	120	HHDT	0	5.5	0.00	3.52	3.52
Communciation Tower #5_CTF1	22	0	0	0	120	HHDT	0	1.833333333	0.00	1.17	1.17
Communciation Tower #5_CTF2	66	0	0	0	120	HHDT	0	5.5	0.00	3.52	3.52
Communciation Tower #5_CTF3	23	0	0	0	120	HHDT	0	1.916666667	0.00	1.23	1.23
Communciation Tower #5_CTF4	21	0	0	0	120	HHDT	0	1.75	0.00	1.12	1.12
Communciation Tower #7_FD	86	0	0	0	120	HHDT	0	7.166666667	0.00	4.59	4.59
Communciation Tower #7_CTF1	43	0	0	0	120	HHDT	0	3.583333333	0.00	2.29	2.29
Communciation Tower #7_CTF2	66	0	0	0	120	HHDT	0	5.5	0.00	3.52	3.52
Communciation Tower #7_CTF3	86	0	0	0	120	HHDT	0	7.166666667	0.00	4.59	4.59
Communciation Tower #7_CTF4	65	0	0	0	120	HHDT	0	5.416666667	0.00	3.47	3.47
Communciation Tower #7_CTF5	23	0	0	0	120	HHDT	0	1.916666667	0.00	1.23	1.23
Communciation Tower #7_CTF6	20	0	0	0	120	HHDT	0	1.666666667	0.00	1.07	1.07
Communciation Tower #9_FD	86	0	0	0	120	HHDT	0	7.166666667	0.00	4.59	4.59
Communciation Tower #9_CTF1	43	0	0	0	120	HHDT	0	3.583333333	0.00	2.29	2.29
Communciation Tower #9_CTF2	66	0	0	0	120	HHDT	0	5.5	0.00	3.52	3.52
Communciation Tower #9_CTF3	86	0	0	0	120	HHDT	0	7.166666667	0.00	4.59	4.59
Communciation Tower #9_CTF4	65	0	0	0	120	HHDT	0	5.416666667	0.00	3.47	3.47
Communciation Tower #9_CTF5	23	0	0	0	120	HHDT	0	1.916666667	0.00	1.23	1.23
Communciation Tower #9_CTF6	20	0	0	0	120	HHDT	0	1.666666667	0.00	1.07	1.07
Communciation Tower #11_FD	66	0	0	0	120	HHDT	0	5.5	0.00	3.52	3.52
Communciation Tower #11_CTF1	22	0	0	0	120	HHDT	0	1.833333333	0.00	1.17	1.17
Communciation Tower #11_CTF2	66	0	0	0	120	HHDT	0	5.5	0.00	3.52	3.52
Communciation Tower #11_CTF3	23	0	0	0	120	HHDT	0	1.916666667	0.00	1.23	1.23
Communciation Tower #11_CTF4	21	0	0	0	120	HHDT	0	1.75	0.00	1.12	1.12
Communciation Tower #13_FD	64	0	0	0	120	HHDT	0	5.333333333	0.00	3.41	3.41
Communciation Tower #13_CTF1	42	0	0	0	120	HHDT	0	3.5	0.00	2.24	2.24
Communciation Tower #13_CTF2	64	0	0	0	120	HHDT	0	5.333333333	0.00	3.41	3.41
Communciation Tower #13_CTF3	21	0	0	0	120	HHDT	0	1.75	0.00	1.12	1.12
Communciation Tower #13_CTF4	22	0	0	0	120	HHDT	0	1.833333333	0.00	1.17	1.17

Phase	Days	Truck Trips per Day (In/Out)	Total Truck Trips	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Communciation Tower #15_FD	66	0	0	0	120	HHDT	0	5.5	0.00	3.52	3.52
Communciation Tower #15_CTF1	23	0	0	0	120	HHDT	0	1.916666667	0.00	1.23	1.23
Communciation Tower #15_CTF2	66	0	0	0	120	HHDT	0	5.5	0.00	3.52	3.52
Communciation Tower #15_CTF3	22	0	0	0	120	HHDT	0	1.833333333	0.00	1.17	1.17
LMF Support Structures_FD	326	12	3912	0	120	HHDT	469440	27.16666667	69767.44	17.39	69784.83
LMF Support Structures_CTF1	130	0	0	0	120	HHDT	0	10.83333333	0.00	6.93	6.93
LMF Support Structures_CTF2	261	0	0	0	120	HHDT	0	21.75	0.00	13.92	13.92
LMF Support Structures_CTF3	326	0	0	0	120	HHDT	0	27.16666667	0.00	17.39	17.39
LMF Support Structures_CTF4	152	0	0	0	120	HHDT	0	12.66666667	0.00	8.11	8.11
LMF Support Structures_CTF5	142	0	0	0	120	HHDT	0	11.83333333	0.00	7.57	7.57
LMF Support Structures_CTF6	66	0	0	0	120	HHDT	0	5.5	0.00	3.52	3.52
LMF Support Structures_CTF7	66	0	0	0	120	HHDT	0	5.5	0.00	3.52	3.52
LMF Support Structures_CTF8	110	0	0	0	120	HHDT	0	9.166666667	0.00	5.87	5.87
26th St HSR LMF_Utility Relocation	65	0	0	0	120	HHDT	0	5.416666667	0.00	3.47	3.47
26th St HSR LMF_Ballast Installation	196	28	5488	0	120	HHDT	658560	16.33333333	97874.16	10.45	97884.62
Hobart Yard Improvements_FD	861	8	6888	0	120	HHDT	826560	71.75	122842.06	45.92	122887.98
Hobart Yard Improvements_CTF1	77	0	0	0	120	HHDT	0	6.416666667	0.00	4.11	4.11
Hobart Yard Improvements_CTF2	103	0	0	0	120	HHDT	0	8.583333333	0.00	5.49	5.49
Hobart Yard Improvements_CTF3	155	0	0	0	120	HHDT	0	12.91666667	0.00	8.27	8.27
Hobart Yard Improvements_CTF4	861	0	0	0	120	HHDT	0	71.75	0.00	45.92	45.92
Hobart Yard Improvements_CTF5	50	0	0	0	120	HHDT	0	4.166666667	0.00	2.67	2.67
Hobart Yard Improvements_CTF6	262	0	0	0	120	HHDT	0	21.83333333	0.00	13.97	13.97
Hobart Yard Improvements_CTF7	235	0	0	0	120	HHDT	0	19.58333333	0.00	12.53	12.53
Hobart Yard Improvements_CTF8	208	0	0	0	120	HHDT	0	17.33333333	0.00	11.09	11.09
Hobart Yard Improvements_CTF9	392	0	0	0	120	HHDT	0	32.66666667	0.00	20.91	20.91
Hobart Yard Improvements_CTF10	103	0	0	0	120	HHDT	0	8.583333333	0.00	5.49	5.49
Hobart Yard Improvements_CTF11	77	0	0	0	120	HHDT	0	6.416666667	0.00	4.11	4.11
Hobart Yard Improvements_CTF12	208	0	0	0	120	HHDT	0	17.33333333	0.00	11.09	11.09
Commerce Yard Improvements_Utility Relocation	367	0	0	0	120	HHDT	0	30.58333333	0.00	19.57	19.57
Commerce Yard Improvements_CTF1	53	0	0	0	120	HHDT	0	4.416666667	0.00	2.83	2.83
Commerce Yard Improvements_CTF2	158	0	0	0	120	HHDT	0	13.16666667	0.00	8.43	8.43
Commerce Yard Improvements_CTF3	236	0	0	0	120	HHDT	0	19.66666667	0.00	12.59	12.59
Commerce Yard Improvements_CTF4	314	0	0	0	120	HHDT	0	26.16666667	0.00	16.75	16.75
Commerce Yard Improvements_CTF5	367	0	0	0	120	HHDT	0	30.58333333	0.00	19.57	19.57
Commerce Yard Improvements_CTF6	314	0	0	0	120	HHDT	0	26.16666667	0.00	16.75	16.75
Commerce Yard Improvements_CTF7	105	0	0	0	120	HHDT	0	8.75	0.00	5.60	5.60
Commerce Metrolink Stn_FD	261	2	522	0	120	HHDT	62640	21.75	9309.46	13.92	9323.38
Commerce Metrolink Stn_CTF1	64	0	0	0	120	HHDT	0	5.333333333	0.00	3.41	3.41
Commerce Metrolink Stn_CTF2	261	0	0	0	120	HHDT	0	21.75	0.00	13.92	13.92
Commerce Metrolink Stn_CTF3	65	0	0	0	120	HHDT	0	5.416666667	0.00	3.47	3.47
Commerce Metrolink Stn_CTF4	66	0	0	0	120	HHDT	0	5.5	0.00	3.52	3.52
Commerce Metrolink Stn_CTF5	44	0	0	0	120	HHDT	0	3.666666667	0.00	2.35	2.35
Norwalk-SFS Metrolink Stn_FD	651	8	5208	0	120	HHDT	624960	54.25	92880.58	34.72	92915.30
Norwalk-SFS Metrolink Stn_CTF1	65	0	0	0	120	HHDT	0	5.416666667	0.00	3.47	3.47
Norwalk-SFS Metrolink Stn_CTF2	390	0	0	0	120	HHDT	0	32.5	0.00	20.80	20.80
Norwalk-SFS Metrolink Stn_CTF3	42	0	0	0	120	HHDT	0	3.5	0.00	2.24	2.24
Norwalk-SFS Metrolink Stn_CTF4	22	0	0	0	120	HHDT	0	1.833333333	0.00	1.17	1.17
Buena Park Metrolink Stn_FD	325	4	1300	0	120	HHDT	156000	27.08333333	23184.48	17.33	23201.81
Buena Park Metrolink Stn_CTF1	65	0	0	0	120	HHDT	0	5.416666667	0.00	3.47	3.47
Buena Park Metrolink Stn_CTF2	325	0	0	0	120	HHDT	0	27.08333333	0.00	17.33	17.33
Buena Park Metrolink Stn_CTF3	66	0	0	0	120	HHDT	0	5.5	0.00	3.52	3.52
Buena Park Metrolink Stn_CTF4	88	0	0	0	120	HHDT	0	7.333333333	0.00	4.69	4.69
Buena Park Metrolink Stn_CTF5	23	0	0	0	120	HHDT	0	1.916666667	0.00	1.23	1.23
ARTIC Station_FD	783	2	1566	0	120	HHDT	187920	65.25	27928.38	41.76	27970.14

Construction Energy Analysis
Alt A - No HSR Station

Phase	Days	Truck Trips per Day (In/Out)	Total Truck Trips	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
ARTIC Station_CTF1	151	0	0	0	120	HHDT	0	12.58333333	0.00	8.05	8.05
ARTIC Station_CTF2	174	0	0	0	120	HHDT	0	14.5	0.00	9.28	9.28
ARTIC Station_CTF3	413	0	0	0	120	HHDT	0	34.41666667	0.00	22.03	22.03
ARTIC Station_CTF4	783	0	0	0	120	HHDT	0	65.25	0.00	41.76	41.76
ARTIC Station_CTF5	107	0	0	0	120	HHDT	0	8.916666667	0.00	5.71	5.71
ARTIC Station_CTF6	152	0	0	0	120	HHDT	0	12.66666667	0.00	8.11	8.11
ARTIC Station_CTF7	368	0	0	0	120	HHDT	0	30.66666667	0.00	19.63	19.63
ARTIC Station_CTF8	43	0	0	0	120	HHDT	0	3.583333333	0.00	2.29	2.29
ARTIC Station_CTF9	66	0	0	0	120	HHDT	0	5.5	0.00	3.52	3.52
ARTIC Station_CTF10	20	0	0	0	120	HHDT	0	1.666666667	0.00	1.07	1.07
ARTIC Station_CTF11	151	0	0	0	120	HHDT	0	12.58333333	0.00	8.05	8.05
Fullerton Metrolink Stn_FD	283	2	566	0	120	HHDT	67920	23.58333333	10094.16	15.09	10109.26
Fullerton Metrolink Stn_CTF1	87	0	0	0	120	HHDT	0	7.25	0.00	4.64	4.64
Fullerton Metrolink Stn_CTF2	64	0	0	0	120	HHDT	0	5.333333333	0.00	3.41	3.41
Fullerton Metrolink Stn_CTF3	44	0	0	0	120	HHDT	0	3.666666667	0.00	2.35	2.35
Fullerton Metrolink Stn_CTF4	110	0	0	0	120	HHDT	0	9.166666667	0.00	5.87	5.87
Fullerton Metrolink Stn_CTF5	65	0	0	0	120	HHDT	0	5.416666667	0.00	3.47	3.47
Ballast Delivery_OutsideCA_2033	0	0	0	0	120	HHDT	0	0	0.00	0.00	0.00
Ballast Delivery_OutsideCA_2034	0	0	0	0	120	HHDT	0	0	0.00	0.00	0.00
Ballast Delivery_OutsideCA_2035	0	0	0	0	120	HHDT	0	0	0.00	0.00	0.00
Ballast Delivery_OutsideCA_2036	0	0	0	0	120	HHDT	0	0	0.00	0.00	0.00
Ballast Delivery_OutsideCA_2037	0	0	0	0	120	HHDT	0	0	0.00	0.00	0.00
Ballast Delivery_MDAB_2033	0	0	0	0	120	HHDT	0	0	0.00	0.00	0.00
Ballast Delivery_MDAB_2034	0	0	0	0	120	HHDT	0	0	0.00	0.00	0.00
Ballast Delivery_MDAB_2035	0	0	0	0	120	HHDT	0	0	0.00	0.00	0.00
Ballast Delivery_MDAB_2036	0	0	0	0	120	HHDT	0	0	0.00	0.00	0.00
Ballast Delivery_MDAB_2037	0	0	0	0	120	HHDT	0	0	0.00	0.00	0.00
Ballast Delivery_SCAB_2033	0	0	0	0	120	HHDT	0	0	0.00	0.00	0.00
Ballast Delivery_SCAB_2034	0	0	0	0	120	HHDT	0	0	0.00	0.00	0.00
Ballast Delivery_SCAB_2035	0	0	0	0	120	HHDT	0	0	0.00	0.00	0.00
Ballast Delivery_SCAB_2036	0	0	0	0	120	HHDT	0	0	0.00	0.00	0.00
Ballast Delivery_SCAB_2037	0	0	0	0	120	HHDT	0	0	0.00	0.00	0.00
Ballast Dumping_SCAB_2033	0	0	0	0	120	HHDT	0	0	0.00	0.00	0.00
Ballast Dumping_SCAB_2034	0	0	0	0	120	HHDT	0	0	0.00	0.00	0.00
Ballast Dumping_SCAB_2035	0	0	0	0	120	HHDT	0	0	0.00	0.00	0.00
Ballast Dumping_SCAB_2036	0	0	0	0	120	HHDT	0	0	0.00	0.00	0.00
Ballast Dumping_SCAB_2037	0	0	0	0	120	HHDT	0	0	0.00	0.00	0.00
						Total VMT:	**4,117,440.00**		**611927.53**	**6074.61**	**618,002.15**
						Total Idle-Hours:		**9,492**			

1. CARB, EMFAC2021 (SCAQMD; HHDT; Annual; CY 2031; Aggregate MY; Aggregate Speed,DSL)
2 .Department of Energy, Fact #861, 2015 Idle Fuel Consumption for Selected Gasoline and Diesel Vehicles, February 23, 2015.
https://www.energy.gov/eere/vehicles/fact-861-february-23-2015-idle-fuel-consumption-selected-gasoline-and-diesel-vehicles

Vendor Trucks

Onroad Travel Consumption	Value
EMFAC2021 Diesel Fuel Consumption Factor (gal/mi):[1]	0.139
Total VMT (mi):	6,068,942
Total diesel gallons	**841,501**
Idling Consumption	**Value**
Idling Fuel Consumption Factor (gal/hr):[2]	0.6400
Total Idle-Hours per Year:	23,383
Total diesel gallons	**14,965**

Total diesel gallons: **856,466**

Phase	Days/year	Truck Trips per Day (In/Out)	Onsite Trip Length (Miles)	Offsite Trip Length (Miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
At-Grade Rail-Ballasted Track-2033_Utilities	260	4	0.1	15	HHDT/MHDT	15704	86.66666667	2177.468934	55.46666667	2232.9356
At-Grade Rail-Ballasted Track-2033_Track Install	313	0	0	10.2	HHDT/MHDT	0	0	0	0	0
At-Grade Rail-Ballasted Track-2034_Utilities	260	4	0.1	15	HHDT/MHDT	15704	86.66666667	2177.468934	55.46666667	2232.9356
At-Grade Rail-Ballasted Track-2034_Track Install	312	0	0	10.2	HHDT/MHDT	0	0	0	0	0
At-Grade Rail-Ballasted Track-2035_Utilities	66	4	0.1	15	HHDT/MHDT	3986.4	22	552.7421139	14.08	566.8221139
At-Grade Rail-Ballasted Track-2035_Track Install	79	0	0	10.2	HHDT/MHDT	0	0	0	0	0
At-Grade Rail-Ballasted Track-2036_Utilities	130	4	0.1	15	HHDT/MHDT	7852	43.33333333	1088.734467	27.73333333	1116.4678
At-Grade Rail-Ballasted Track-2036_Track Install	156	0	0	10.2	HHDT/MHDT	0	0	0	0	0
At-Grade Rail-Ballasted Track-2037_Utilities	86	4	0.1	15	HHDT/MHDT	5194.4	28.66666667	720.2397242	18.34666667	738.5863909
At-Grade Rail-Ballasted Track-2037_Track Install	103	0	0	10.2	HHDT/MHDT	0	0	0	0	0
South of Fullerton-Ballasted Track_FD	197	4	0.1	15	HHDT/MHDT	11898.8	65.66666667	1649.851461	42.02666667	1691.878128
Rail Direct Fixation_CTF1	130	8	0.1	3	HHDT/MHDT	3224	86.66666667	447.030046	55.46666667	502.4967127
Rail Direct Fixation_CTF2	261	8	0.1	3	HHDT/MHDT	6472.8	174	897.4987846	111.36	1008.858785
Rail Direct Fixation_CTF3	262	8	0.1	3	HHDT/MHDT	6497.6	174.6666667	900.9374773	111.7866667	1012.724144
Commerce Viaduct_FD	652	20	0.1	30	HHDT/MHDT	392504	1086.666667	54423.41227	695.4666667	55118.87894
Commerce Viaduct_Box Girders	695	12	0.1	40	HHDT/MHDT	334434	695	46371.60248	444.8	46816.40248
Commerce Viaduct_CTF1	217	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commerce Viaduct_CTF2	652	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commerce Viaduct_CTF3	261	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commerce Viaduct_CTF4	107	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commerce Viaduct_CTF5	695	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commerce Viaduct_CTF6	436	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commerce Viaduct_CTF7	522	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Norwalk-SFS Viaduct_FD	782	20	0.1	30	HHDT/MHDT	470764	1303.333333	65274.70613	834.1333333	66108.83947
Norwalk-SFS Viaduct_Box Girders	653	12	0.1	40	HHDT/MHDT	314223.6	653	43569.28981	417.92	43987.20981
Norwalk-SFS Viaduct_CTF1	782	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Norwalk-SFS Viaduct_CTF2	261	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Norwalk-SFS Viaduct_CTF3	107	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Norwalk-SFS Viaduct_CTF4	522	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Norwalk-SFS Viaduct_CTF5	653	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Norwalk-SFS Viaduct_CTF6	261	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Fullerton Trench_FD	912	10	0.1	25	HHDT/MHDT	228912	760	31740.24252	486.4	32226.64252
Fullerton Trench_CTF1	653	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Fullerton Trench_CTF2	912	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Fullerton Trench_CTF3	175	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Fullerton Trench_CTF4	131	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Fullerton Trench_CTF5	717	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Fullerton Trench_CTF6	132	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Fullerton Trench_CTF7	260	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Fullerton Trench_CTF8	175	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Fullerton Trench_CTF9	261	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Fullerton Trench_CTF10	86	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Fullerton Trench_CTF11	42	0	0	10.2	HHDT/MHDT	0	0	0	0	0
I-10-L1 Grade Separation_FD	155	0	0	10.2	HHDT/MHDT	0	0	0	0	0
South Downey Rd-L1 Grade Separation_FD	326	0	0	10.2	HHDT/MHDT	0	0	0	0	0
South Downey Rd-L1 Grade Separation_CTF1	326	0	0	10.2	HHDT/MHDT	0	0	0	0	0
South Downey Rd-L1 Grade Separation_CTF2	240	0	0	10.2	HHDT/MHDT	0	0	0	0	0
South Downey Rd-L1 Grade Separation_CTF3	390	0	0	10.2	HHDT/MHDT	0	0	0	0	0
I-710-L1 Grade Separation_FD	53	0	0	10.2	HHDT/MHDT	0	0	0	0	0
I-5-L1 Grade Separation_FD	52	0	0	10.2	HHDT/MHDT	0	0	0	0	0

Phase	Days/year	Truck Trips per Day (In/Out)	Onsite Trip Length (Miles)	Offsite Trip Length (Miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Greenwood Ave-L1 Grade Separation_FD	53	0	0	20	HHDT/MHDT	0	0	0	0	0
Paramount Blvd-L1 Grade Separation_FD	51	20	0.1	20	HHDT/MHDT	20502	85	2842.745038	54.4	2897.145038
SR-91-L1 Grade Separation_FD	42	0	0	20	HHDT/MHDT	0	0	0	0	0
Lincoln Ave-L1 Grade Separation_FD	44	10	0.1	20	HHDT/MHDT	8844	36.66666667	1226.282173	23.46666667	1249.74884
Eastern Ave-L2 Grade Separation_FD	457	20	0.1	20	HHDT/MHDT	183714	761.6666667	25473.22515	487.4666667	25960.69181
Eastern Ave-L2 Grade Separation_CTF1	108	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Eastern Ave-L2 Grade Separation_CTF2	457	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Eastern Ave-L2 Grade Separation_CTF3	43	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Eastern Ave-L2 Grade Separation_CTF4	108	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Eastern Ave-L2 Grade Separation_CTF5	131	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Eastern Ave-L2 Grade Separation_CTF6	195	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Eastern Ave-L2 Grade Separation_CTF7	261	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Eastern Ave-L2 Grade Separation_CTF8	45	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Eastern Ave-L2 Grade Separation_CTF9	85	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Passons Blvd-L2 Grade Separation_FD	326	16	0.1	20	HHDT/MHDT	104841.6	434.6666667	14537.01776	278.1866667	14815.20443
Passons Blvd-L2 Grade Separation_CTF1	42	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Passons Blvd-L2 Grade Separation_CTF2	87	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Passons Blvd-L2 Grade Separation_CTF3	130	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Passons Blvd-L2 Grade Separation_CTF4	326	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Passons Blvd-L2 Grade Separation_CTF5	65	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Passons Blvd-L2 Grade Separation_CTF6	65	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Passons Blvd-L2 Grade Separation_CTF7	87	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Sante Fe Springs-L2 Grade Separation_FD	326	10	0.1	20	HHDT/MHDT	65526	271.6666667	9085.636102	173.8666667	9259.502769
Sante Fe Springs-L2 Grade Separation_CTF1	87	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Sante Fe Springs-L2 Grade Separation_CTF2	326	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Sante Fe Springs-L2 Grade Separation_CTF3	110	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Sante Fe Springs-L2 Grade Separation_CTF4	132	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Sante Fe Springs-L2 Grade Separation_CTF5	43	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Sante Fe Springs-L2 Grade Separation_CTF6	87	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Sante Fe Springs-L2 Grade Separation_CTF7	107	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Telegraph Road-L2 Grade Separation_FD	390	10	0.1	20	HHDT/MHDT	78390	325	10869.31926	208	11077.31926
Telegraph Road-L2 Grade Separation_CTF1	64	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Telegraph Road-L2 Grade Separation_CTF2	85	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Telegraph Road-L2 Grade Separation_CTF3	390	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Telegraph Road-L2 Grade Separation_CTF4	43	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Telegraph Road-L2 Grade Separation_CTF5	88	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Telegraph Road-L2 Grade Separation_CTF6	217	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Valley View Ave-L2 Grade Separation_FD	326	16	0.1	20	HHDT/MHDT	104841.6	434.6666667	14537.01776	278.1866667	14815.20443
Valley View Ave-L2 Grade Separation_CTF1	44	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Valley View Ave-L2 Grade Separation_CTF2	326	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Valley View Ave-L2 Grade Separation_CTF3	43	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Valley View Ave-L2 Grade Separation_CTF4	66	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Valley View Ave-L2 Grade Separation_CTF5	64	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Valley View Ave-L2 Grade Separation_CTF6	107	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Valley View Ave-L2 Grade Separation_CTF7	151	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Valley View Ave-L2 Grade Separation_CTF8	216	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Valley View Ave-L2 Grade Separation_CTF9	43	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Valley View Ave-L2 Grade Separation_CTF10	66	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Beach Blvd-L2 Grade Separation_FD	261	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Beach Blvd-L2 Grade Separation_CTF1	43	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Beach Blvd-L2 Grade Separation_CTF2	87	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Beach Blvd-L2 Grade Separation_CTF3	109	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Beach Blvd-L2 Grade Separation_CTF4	261	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Beach Blvd-L2 Grade Separation_CTF5	109	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Beach Blvd-L2 Grade Separation_CTF6	109	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Gilbert St-L2 Grade Separation_FD	390	10	0.1	20	HHDT/MHDT	78390	325	10869.31926	208	11077.31926
Gilbert St-L2 Grade Separation_CTF1	43	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Gilbert St-L2 Grade Separation_CTF2	86	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Gilbert St-L2 Grade Separation_CTF3	130	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Gilbert St-L2 Grade Separation_CTF4	390	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Gilbert St-L2 Grade Separation_CTF5	216	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Gilbert St-L2 Grade Separation_CTF6	132	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Gilbert St-L2 Grade Separation_CTF7	218	0	0	10.2	HHDT/MHDT	0	0	0	0	0

Phase	Days/year	Truck Trips per Day (In/Out)	Onsite Trip Length (Miles)	Offsite Trip Length (Miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Euclid St-L2 Grade Separation_FD	391	10	0.1	20	HHDT/MHDT	78591	325.8333333	10897.18931	208.5333333	11105.72265
Euclid St-L2 Grade Separation_CTF1	262	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Euclid St-L2 Grade Separation_CTF2	283	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Euclid St-L2 Grade Separation_CTF3	326	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Euclid St-L2 Grade Separation_CTF4	391	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Euclid St-L2 Grade Separation_CTF5	43	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Euclid St-L2 Grade Separation_CTF6	88	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Euclid St-L2 Grade Separation_CTF7	43	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Euclid St-L2 Grade Separation_CTF8	154	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Lemon St-L2 Grade Separation_FD	650	16	0.1	20	HHDT/MHDT	209040	866.6666667	28984.85137	554.6666667	29539.51804
Lemon St-L2 Grade Separation_CTF1	238	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Lemon St-L2 Grade Separation_CTF2	650	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Lemon St-L2 Grade Separation_CTF3	79	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Lemon St-L2 Grade Separation_CTF4	261	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Lemon St-L2 Grade Separation_CTF5	109	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Lemon St-L2 Grade Separation_CTF6	132	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Lemon St-L2 Grade Separation_CTF7	305	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Atlantic Blvd-L3 Grade Separation_FD	328	20	0.1	20	HHDT/MHDT	131856	546.6666667	18282.7524	349.8666667	18632.61907
Atlantic Blvd-L3 Grade Separation_CTF1	132	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Atlantic Blvd-L3 Grade Separation_CTF2	154	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Atlantic Blvd-L3 Grade Separation_CTF3	219	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Atlantic Blvd-L3 Grade Separation_CTF4	328	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Atlantic Blvd-L3 Grade Separation_CTF5	66	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Atlantic Blvd-L3 Grade Separation_CTF6	86	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Atlantic Blvd-L3 Grade Separation_CTF7	131	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Atlantic Blvd-L3 Grade Separation_CTF8	174	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Atlantic Blvd-L3 Grade Separation_CTF9	261	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Rosemead Blvd-L3 Grade Separation_FD	521	12	0.1	20	HHDT/MHDT	125665.2	521	17424.35488	333.44	17757.79488
Rosemead Blvd-L3 Grade Separation_CTF1	108	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Rosemead Blvd-L3 Grade Separation_CTF2	521	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Rosemead Blvd-L3 Grade Separation_CTF3	63	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Rosemead Blvd-L3 Grade Separation_CTF4	108	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Rosemead Blvd-L3 Grade Separation_CTF5	433	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Rosemead Blvd-L3 Grade Separation_CTF6	66	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Rosemead Blvd-L3 Grade Separation_CTF7	86	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Rosemead Blvd-L3 Grade Separation_CTF8	413	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Rosemead Blvd-L3 Grade Separation_CTF9	45	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Rosemead Blvd-L3 Grade Separation_CTF10	260	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Rosemead Blvd-L3 Grade Separation_CTF11	109	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Rosemead Blvd-L3 Grade Separation_CTF12	22	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Rosemead Blvd-L3 Grade Separation_CTF13	109	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Rosemead Blvd-L3 Grade Separation_CTF14	43	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Rosemead Blvd-L3 Grade Separation_CTF15	86	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Rosemead Blvd-L3 Grade Separation_CTF16	66	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Slauson Ave-L3 Grade Separation_FD	347	6	0.1	20	HHDT/MHDT	41848.2	173.5	5802.544284	111.04	5913.584284
Slauson Ave-L3 Grade Separation_CTF1	109	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Slauson Ave-L3 Grade Separation_CTF2	347	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Slauson Ave-L3 Grade Separation_CTF3	65	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Slauson Ave-L3 Grade Separation_CTF4	87	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Slauson Ave-L3 Grade Separation_CTF5	109	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Slauson Ave-L3 Grade Separation_CTF6	109	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Slauson Ave-L3 Grade Separation_CTF7	173	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Carmenita Rd-L3 Grade Separation_FD	521	10	0.1	20	HHDT/MHDT	104721	434.1666667	14520.29573	277.8666667	14798.1624
Carmenita Rd-L3 Grade Separation_CTF1	109	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Carmenita Rd-L3 Grade Separation_CTF2	196	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Carmenita Rd-L3 Grade Separation_CTF3	218	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Carmenita Rd-L3 Grade Separation_CTF4	521	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Carmenita Rd-L3 Grade Separation_CTF5	195	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Carmenita Rd-L3 Grade Separation_CTF6	304	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Carmenita Rd-L3 Grade Separation_CTF7	66	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Carmenita Rd-L3 Grade Separation_CTF8	87	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Carmenita Rd-L3 Grade Separation_CTF9	368	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Carmenita Rd-L3 Grade Separation_CTF10	108	0	0	10.2	HHDT/MHDT	0	0	0	0	0

Phase	Days/year	Truck Trips per Day (In/Out)	Onsite Trip Length (Miles)	Offsite Trip Length (Miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Carmenita Rd-L3 Grade Separation_CTF11	195	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Alondra Blvd-L3 Grade Separation_FD	652	16	0.1	20	HHDT/MHDT	209683.2	869.3333333	29074.03553	556.3733333	29630.40886
Alondra Blvd-L3 Grade Separation_CTF1	153	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Alondra Blvd-L3 Grade Separation_CTF2	217	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Alondra Blvd-L3 Grade Separation_CTF3	261	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Alondra Blvd-L3 Grade Separation_CTF4	327	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Alondra Blvd-L3 Grade Separation_CTF5	587	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Alondra Blvd-L3 Grade Separation_CTF6	652	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Alondra Blvd-L3 Grade Separation_CTF7	44	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Alondra Blvd-L3 Grade Separation_CTF8	174	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Alondra Blvd-L3 Grade Separation_CTF9	217	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Alondra Blvd-L3 Grade Separation_CTF10	478	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Alondra Blvd-L3 Grade Separation_CTF11	565	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Alondra Blvd-L3 Grade Separation_CTF12	43	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Dale St-L3 Grade Separation_FD	326	6	0.1	20	HHDT/MHDT	39315.6	163	5451.381661	104.32	5555.701661
Dale St-L3 Grade Separation_CTF1	21	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Dale St-L3 Grade Separation_CTF2	43	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Dale St-L3 Grade Separation_CTF3	86	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Dale St-L3 Grade Separation_CTF4	109	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Dale St-L3 Grade Separation_CTF5	174	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Dale St-L3 Grade Separation_CTF6	218	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Dale St-L3 Grade Separation_CTF7	217	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Dale St-L3 Grade Separation_CTF8	110	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Dale St-L3 Grade Separation_CTF9	77	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commonwealth Ave-L3 Grade Separation_FD	522	14	0.1	20	HHDT/MHDT	146890.8	609	20367.4321	389.76	20757.1921
Commonwealth Ave-L3 Grade Separation_CTF1	132	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commonwealth Ave-L3 Grade Separation_CTF2	261	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commonwealth Ave-L3 Grade Separation_CTF3	522	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commonwealth Ave-L3 Grade Separation_CTF4	260	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commonwealth Ave-L3 Grade Separation_CTF5	152	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commonwealth Ave-L3 Grade Separation_CTF6	43	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commonwealth Ave-L3 Grade Separation_CTF7	195	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commonwealth Ave-L3 Grade Separation_CTF8	86	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commonwealth Ave-L3 Grade Separation_CTF9	85	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commonwealth Ave-L3 Grade Separation_CTF10	870	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commonwealth Ave-L3 Grade Separation_CTF11	43	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Highland Ave-L3 Grade Separation_FD	651	10	0.1	20	HHDT/MHDT	130851	542.5	18143.40216	347.2	18490.60216
Highland Ave-L3 Grade Separation_CTF1	152	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Highland Ave-L3 Grade Separation_CTF2	130	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Highland Ave-L3 Grade Separation_CTF3	260	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Highland Ave-L3 Grade Separation_CTF4	651	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Highland Ave-L3 Grade Separation_CTF5	630	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Highland Ave-L3 Grade Separation_CTF6	66	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Highland Ave-L3 Grade Separation_CTF7	132	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Highland Ave-L3 Grade Separation_CTF8	154	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Highland Ave-L3 Grade Separation_CTF9	174	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Highland Ave-L3 Grade Separation_CTF10	130	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Highland Ave-L3 Grade Separation_CTF11	261	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Highland Ave-L3 Grade Separation_CTF12	217	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Highland Ave-L3 Grade Separation_CTF13	174	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Harbor Blvd-L3 Grade Separation_FD	522	20	0.1	20	HHDT/MHDT	209844	870	29096.33157	556.8	29653.13157
Harbor Blvd-L3 Grade Separation_CTF1	217	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Harbor Blvd-L3 Grade Separation_CTF2	522	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Harbor Blvd-L3 Grade Separation_CTF3	173	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Harbor Blvd-L3 Grade Separation_CTF4	217	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Harbor Blvd-L3 Grade Separation_CTF5	173	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Douglass Rd-L3 Grade Separation_FD	392	12	0.1	20	HHDT/MHDT	94550.4	392	13110.07123	250.88	13360.95123
Douglass Rd-L3 Grade Separation_CTF1	131	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Douglass Rd-L3 Grade Separation_CTF2	218	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Douglass Rd-L3 Grade Separation_CTF3	262	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Douglass Rd-L3 Grade Separation_CTF4	392	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Douglass Rd-L3 Grade Separation_CTF5	434	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Douglass Rd-L3 Grade Separation_CTF6	43	0	0	10.2	HHDT/MHDT	0	0	0	0	0

Phase	Days/year	Truck Trips per Day (In/Out)	Onsite Trip Length (Miles)	Offsite Trip Length (Miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Douglass Rd-L3 Grade Separation_CTF7	174	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Douglass Rd-L3 Grade Separation_CTF8	130	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Douglass Rd-L3 Grade Separation_CTF9	175	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Douglass Rd-L3 Grade Separation_CTF10	196	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Douglass Rd-L3 Grade Separation_CTF11	64	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Pioneer Blvd-L4 Grade Separation_FD	654	10	0.1	20	HHDT/MHDT	131454	545	18227.0123	348.8	18575.8123
Pioneer Blvd-L4 Grade Separation_CTF1	262	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Pioneer Blvd-L4 Grade Separation_CTF2	349	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Pioneer Blvd-L4 Grade Separation_CTF3	654	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Pioneer Blvd-L4 Grade Separation_CTF4	132	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Pioneer Blvd-L4 Grade Separation_CTF5	153	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Pioneer Blvd-L4 Grade Separation_CTF6	262	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Pioneer Blvd-L4 Grade Separation_CTF7	131	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Pioneer Blvd-L4 Grade Separation_CTF8	174	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Pioneer Blvd-L4 Grade Separation_CTF9	479	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Pioneer Blvd-L4 Grade Separation_CTF10	457	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Pioneer Blvd-L4 Grade Separation_CTF11	130	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Pioneer Blvd-L4 Grade Separation_CTF12	349	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Pioneer Blvd-L4 Grade Separation_CTF13	175	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Pioneer Blvd-L4 Grade Separation_CTF14	107	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Pioneer Blvd-L4 Grade Separation_CTF15	44	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Pioneer Blvd-L4 Grade Separation_CTF16	66	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Norwalk Blvd-L4 Grade Separation_FD	782	10	0.1	20	HHDT/MHDT	157182	651.6666667	21794.37863	417.0666667	22211.44529
Norwalk Blvd-L4 Grade Separation_CTF1	131	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Norwalk Blvd-L4 Grade Separation_CTF2	152	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Norwalk Blvd-L4 Grade Separation_CTF3	391	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Norwalk Blvd-L4 Grade Separation_CTF4	542	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Norwalk Blvd-L4 Grade Separation_CTF5	782	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Norwalk Blvd-L4 Grade Separation_CTF6	131	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Norwalk Blvd-L4 Grade Separation_CTF7	107	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Norwalk Blvd-L4 Grade Separation_CTF8	130	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Norwalk Blvd-L4 Grade Separation_CTF9	390	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Norwalk Blvd-L4 Grade Separation_CTF10	130	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Norwalk Blvd-L4 Grade Separation_CTF11	218	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Los Nietos Rd-L4 Grade Separation_FD	782	10	0.1	20	HHDT/MHDT	157182	651.6666667	21794.37863	417.0666667	22211.44529
Los Nietos Rd-L4 Grade Separation_CTF1	131	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Los Nietos Rd-L4 Grade Separation_CTF2	152	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Los Nietos Rd-L4 Grade Separation_CTF3	391	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Los Nietos Rd-L4 Grade Separation_CTF4	542	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Los Nietos Rd-L4 Grade Separation_CTF5	782	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Los Nietos Rd-L4 Grade Separation_CTF6	131	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Los Nietos Rd-L4 Grade Separation_CTF7	107	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Los Nietos Rd-L4 Grade Separation_CTF8	130	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Los Nietos Rd-L4 Grade Separation_CTF9	390	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Los Nietos Rd-L4 Grade Separation_CTF10	130	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Los Nietos Rd-L4 Grade Separation_CTF11	218	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Cerritos Ave-L4 Grade Separation_FD	783	20	0.1	20	HHDT/MHDT	314766	1305	43644.49735	835.2	44479.69735
Cerritos Ave-L4 Grade Separation_CTF1	130	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Cerritos Ave-L4 Grade Separation_CTF2	130	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Cerritos Ave-L4 Grade Separation_CTF3	283	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Cerritos Ave-L4 Grade Separation_CTF4	391	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Cerritos Ave-L4 Grade Separation_CTF5	500	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Cerritos Ave-L4 Grade Separation_CTF6	783	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Cerritos Ave-L4 Grade Separation_CTF7	129	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Cerritos Ave-L4 Grade Separation_CTF8	434	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Cerritos Ave-L4 Grade Separation_CTF9	129	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Cerritos Ave-L4 Grade Separation_CTF10	172	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Cerritos Ave-L4 Grade Separation_CTF11	238	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Cerritos Ave-L4 Grade Separation_CTF12	261	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Cerritos Ave-L4 Grade Separation_CTF13	196	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Cerritos Ave-L4 Grade Separation_CTF14	89	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Cerritos Ave-L4 Grade Separation_CTF15	132	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Cerritos Ave-L4 Grade Separation_CTF16	87	0	0	10.2	HHDT/MHDT	0	0	0	0	0

Phase	Days/year	Truck Trips per Day (In/Out)	Onsite Trip Length (Miles)	Offsite Trip Length (Miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Cerritos Ave-L4 Grade Separation_CTF17	218	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Cerritos Ave-L4 Grade Separation_CTF18	131	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Lewis St-L4 Grade Separation_FD	390	16	0.1	20	HHDT/MHDT	125424	520	17390.91082	332.8	17723.71082
Lewis St-L4 Grade Separation_CTF1	41	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Lewis St-L4 Grade Separation_CTF2	260	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Lewis St-L4 Grade Separation_CTF3	65	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Lewis St-L4 Grade Separation_CTF4	175	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Lewis St-L4 Grade Separation_CTF5	21	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Lewis St-L4 Grade Separation_CTF6	44	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Lewis St-L4 Grade Separation_CTF7	109	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Lewis St-L4 Grade Separation_CTF8	261	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Lewis St-L4 Grade Separation_CTF9	131	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Lewis St-L4 Grade Separation_CTF10	163	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Lewis St-L4 Grade Separation_CTF11	88	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Lewis St-L4 Grade Separation_CTF12	240	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Lewis St-L4 Grade Separation_CTF13	65	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Lewis St-L4 Grade Separation_CTF14	195	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Lewis St-L4 Grade Separation_CTF15	87	0	0	10.2	HHDT/MHDT	0	0	0	0	0
State College Blvd-L4 Grade Separation_FD	783	10	0.1	20	HHDT/MHDT	157383	652.5	21822.24868	417.6	22239.84868
State College Blvd-L4 Grade Separation_CTF1	173	0	0	10.2	HHDT/MHDT	0	0	0	0	0
State College Blvd-L4 Grade Separation_CTF2	523	0	0	10.2	HHDT/MHDT	0	0	0	0	0
State College Blvd-L4 Grade Separation_CTF3	783	0	0	10.2	HHDT/MHDT	0	0	0	0	0
State College Blvd-L4 Grade Separation_CTF4	412	0	0	10.2	HHDT/MHDT	0	0	0	0	0
State College Blvd-L4 Grade Separation_CTF5	197	0	0	10.2	HHDT/MHDT	0	0	0	0	0
State College Blvd-L4 Grade Separation_CTF6	219	0	0	10.2	HHDT/MHDT	0	0	0	0	0
State College Blvd-L4 Grade Separation_CTF7	153	0	0	10.2	HHDT/MHDT	0	0	0	0	0
State College Blvd-L4 Grade Separation_CTF8	108	0	0	10.2	HHDT/MHDT	0	0	0	0	0
State College Blvd-L4 Grade Separation_CTF9	217	0	0	10.2	HHDT/MHDT	0	0	0	0	0
State College Blvd-L4 Grade Separation_CTF10	304	0	0	10.2	HHDT/MHDT	0	0	0	0	0
State College Blvd-L4 Grade Separation_CTF11	261	0	0	10.2	HHDT/MHDT	0	0	0	0	0
State College Blvd-L4 Grade Separation_CTF12	129	0	0	10.2	HHDT/MHDT	0	0	0	0	0
State College Blvd-L4 Grade Separation_CTF13	129	0	0	10.2	HHDT/MHDT	0	0	0	0	0
State College Blvd-L4 Grade Separation_CTF14	239	0	0	10.2	HHDT/MHDT	0	0	0	0	0
State College Blvd-L4 Grade Separation_CTF15	87	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Katella Ave-L4 Grade Separation_FD	651	10	0.1	20	HHDT/MHDT	130851	542.5	18143.40216	347.2	18490.60216
Katella Ave-L4 Grade Separation_CTF1	85	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Katella Ave-L4 Grade Separation_CTF2	260	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Katella Ave-L4 Grade Separation_CTF3	390	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Katella Ave-L4 Grade Separation_CTF4	651	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Katella Ave-L4 Grade Separation_CTF5	175	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Katella Ave-L4 Grade Separation_CTF6	130	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Katella Ave-L4 Grade Separation_CTF7	195	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Katella Ave-L4 Grade Separation_CTF8	65	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Katella Ave-L4 Grade Separation_CTF9	87	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Katella Ave-L4 Grade Separation_CTF10	65	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Redondo Junction-L1 Water Crossing_FD	87	6	0.1	20	HHDT/MHDT	10492.2	43.5	1454.816578	27.84	1482.656578
Redondo Junction-L1 Water Crossing_CTF1	87	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Coyote Creek-L1Water Crossing_FD	131	4	0.1	30	HHDT/MHDT	15772.4	43.66666667	2186.95307	27.94666667	2214.899737
Coyote Creek-L1Water Crossing_CTF1	66	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Coyote Creek-L1Water Crossing_CTF2	131	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Coyote Creek-L1Water Crossing_CTF3	21	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Carbon Creek-L1 Water Crossing_FD	89	4	0.1	20	HHDT/MHDT	7155.6	29.66666667	992.1737584	18.98666667	1011.160425
Carbon Creek-L1 Water Crossing_CTF1	89	0	0	10.2	HHDT/MHDT	0	0	0	0	0
San Gabriel River-L2 Water Crossing_FD	457	4	0.1	20	HHDT/MHDT	36742.8	152.3333333	5094.645029	97.49333333	5192.138362
San Gabriel River-L2 Water Crossing_CTF1	65	0	0	10.2	HHDT/MHDT	0	0	0	0	0
San Gabriel River-L2 Water Crossing_CTF2	87	0	0	10.2	HHDT/MHDT	0	0	0	0	0
San Gabriel River-L2 Water Crossing_CTF3	108	0	0	10.2	HHDT/MHDT	0	0	0	0	0
San Gabriel River-L2 Water Crossing_CTF4	152	0	0	10.2	HHDT/MHDT	0	0	0	0	0
San Gabriel River-L2 Water Crossing_CTF5	347	0	0	10.2	HHDT/MHDT	0	0	0	0	0
San Gabriel River-L2 Water Crossing_CTF6	435	0	0	10.2	HHDT/MHDT	0	0	0	0	0
San Gabriel River-L2 Water Crossing_CTF7	457	0	0	10.2	HHDT/MHDT	0	0	0	0	0
San Gabriel River-L2 Water Crossing_CTF8	110	0	0	10.2	HHDT/MHDT	0	0	0	0	0
San Gabriel River-L2 Water Crossing_CTF9	175	0	0	10.2	HHDT/MHDT	0	0	0	0	0

Phase	Days/year	Truck Trips per Day (In/Out)	Onsite Trip Length (Miles)	Offsite Trip Length (Miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Rio Hondo SG-L3 Water Crossing_FD	325	10	0.1	35	HHDT/MHDT	114075	270.8333333	15817.29296	173.3333333	15990.62629
Rio Hondo SG-L3 Water Crossing_CTF1	150	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Rio Hondo SG-L3 Water Crossing_CTF2	216	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Rio Hondo SG-L3 Water Crossing_CTF3	325	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Rio Hondo River-L3 Water Crossing_FD	325	4	0.1	20	HHDT/MHDT	26130	108.3333333	3623.106421	69.33333333	3692.439754
Rio Hondo River-L3 Water Crossing_CTF1	150	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Rio Hondo River-L3 Water Crossing_CTF2	325	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Rio Hondo River-L3 Water Crossing_CTF3	65	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Rio Hondo River-L3 Water Crossing_CTF4	86	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Rio Hondo River-L3 Water Crossing_CTF5	108	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Rio Hondo River-L3 Water Crossing_CTF6	173	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Coyote Creek-N Fork-L3 Water Crossing_FD	260	4	0.1	30	HHDT/MHDT	31304	86.66666667	4340.517543	55.46666667	4395.98421
Coyote Creek-N Fork-L3 Water Crossing_CTF1	85	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Coyote Creek-N Fork-L3 Water Crossing_CTF2	108	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Coyote Creek-N Fork-L3 Water Crossing_CTF3	260	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Coyote Creek-N Fork-L3 Water Crossing_CTF4	455	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Coyote Creek-N Fork-L3 Water Crossing_CTF5	63	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Coyote Creek-N Fork-L3 Water Crossing_CTF6	173	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Coyote Creek-N Fork-L3 Water Crossing_CTF7	218	0	0	10.2	HHDT/MHDT	0	0	0	0	0
La Mirada Creek-L3 Water Crossing_FD	260	6	0.1	20	HHDT/MHDT	31356	130	4347.727705	83.2	4430.927705
La Mirada Creek-L3 Water Crossing_CTF1	87	0	0	10.2	HHDT/MHDT	0	0	0	0	0
La Mirada Creek-L3 Water Crossing_CTF2	130	0	0	10.2	HHDT/MHDT	0	0	0	0	0
La Mirada Creek-L3 Water Crossing_CTF3	260	0	0	10.2	HHDT/MHDT	0	0	0	0	0
La Mirada Creek-L3 Water Crossing_CTF4	43	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Brea Creek-L3 Water Crossing_FD	325	6	0.1	30	HHDT/MHDT	58695	162.5	8138.470394	104	8242.470394
Brea Creek-L3 Water Crossing_CTF1	42	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Brea Creek-L3 Water Crossing_CTF2	108	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Brea Creek-L3 Water Crossing_CTF3	130	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Brea Creek-L3 Water Crossing_CTF4	217	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Brea Creek-L3 Water Crossing_CTF5	43	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Brea Creek-L3 Water Crossing_CTF6	43	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Brea Creek-L3 Water Crossing_CTF7	175	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Brea Creek-L3 Water Crossing_CTF8	392	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Redondo Jct TPSS_FD	261	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Redondo Jct TPSS_CTF1	216	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Redondo Jct TPSS_CTF2	44	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Redondo Jct TPSS_CTF3	261	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Redondo Jct TPSS_CTF4	132	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Redondo Jct TPSS_CTF5	20	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Redondo Jct TPSS_CTF6	22	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Anaheim TPSS_FD	239	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Anaheim TPSS_CTF1	216	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Anaheim TPSS_CTF2	44	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Anaheim TPSS_CTF3	261	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Anaheim TPSS_CTF4	22	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Anaheim TPSS_CTF5	43	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Anaheim TPSS_CTF6	132	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Anaheim TPSS_CTF7	239	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Anaheim TPSS_CTF8	20	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Anaheim TPSS_CTF9	22	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Paralleling Station #2_FD	262	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Paralleling Station #2_CTF1	23	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Paralleling Station #2_CTF2	108	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Paralleling Station #2_CTF3	261	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Paralleling Station #2_CTF4	22	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Paralleling Station #2_CTF5	20	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Paralleling Station #2_CTF6	22	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Paralleling Station #4_FD	261	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Paralleling Station #4_CTF1	23	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Paralleling Station #4_CTF2	108	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Paralleling Station #4_CTF3	261	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Paralleling Station #4_CTF4	22	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Paralleling Station #4_CTF5	20	0	0	10.2	HHDT/MHDT	0	0	0	0	0

Phase	Days/year	Truck Trips per Day (In/Out)	Onsite Trip Length (Miles)	Offsite Trip Length (Miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Paralleling Station #4_CTF6	22	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Switching Station_FD	129	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Switching Station_CTF1	22	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Switching Station_CTF2	129	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Switching Station_CTF3	20	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Switching Station_CTF4	44	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Switching Station_CTF5	22	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #1_FD	66	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #1_CTF1	23	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #1_CTF2	66	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #1_CTF3	22	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #3_FD	64	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #3_CTF1	42	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #3_CTF2	64	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #3_CTF3	21	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #3_CTF4	22	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #5_FD	66	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #5_CTF1	22	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #5_CTF2	66	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #5_CTF3	23	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #5_CTF4	21	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #7_FD	86	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #7_CTF1	43	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #7_CTF2	66	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #7_CTF3	86	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #7_CTF4	65	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #7_CTF5	23	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #7_CTF6	20	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #9_FD	86	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #9_CTF1	43	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #9_CTF2	66	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #9_CTF3	86	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #9_CTF4	65	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #9_CTF5	23	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #9_CTF6	20	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #11_FD	66	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #11_CTF1	22	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #11_CTF2	66	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #11_CTF3	23	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #11_CTF4	21	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #13_FD	64	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #13_CTF1	42	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #13_CTF2	64	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #13_CTF3	21	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #13_CTF4	22	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #15_FD	66	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #15_CTF1	23	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #15_CTF2	66	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #15_CTF3	22	0	0	10.2	HHDT/MHDT	0	0	0	0	0
LMF Support Structures_FD	326	0	0	10.2	HHDT/MHDT	0	0	0	0	0
LMF Support Structures_CTF1	130	0	0	10.2	HHDT/MHDT	0	0	0	0	0
LMF Support Structures_CTF2	261	0	0	10.2	HHDT/MHDT	0	0	0	0	0
LMF Support Structures_CTF3	326	0	0	10.2	HHDT/MHDT	0	0	0	0	0
LMF Support Structures_CTF4	152	0	0	10.2	HHDT/MHDT	0	0	0	0	0
LMF Support Structures_CTF5	142	0	0	10.2	HHDT/MHDT	0	0	0	0	0
LMF Support Structures_CTF6	66	0	0	10.2	HHDT/MHDT	0	0	0	0	0
LMF Support Structures_CTF7	66	0	0	10.2	HHDT/MHDT	0	0	0	0	0
LMF Support Structures_CTF8	110	0	0	10.2	HHDT/MHDT	0	0	0	0	0
26th St HSR LMF_Utility Relocation	65	4	0.1	15	HHDT/MHDT	3926	21.66666667	544.3672334	13.86666667	558.2339001
26th St HSR LMF_Ballast Installation	196	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Hobart Yard Improvements_FD	861	30	0.1	15	HHDT/MHDT	390033	2152.5	54080.79092	1377.6	55458.39092
Hobart Yard Improvements_CTF1	77	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Hobart Yard Improvements_CTF2	103	0	0	10.2	HHDT/MHDT	0	0	0	0	0

Phase	Days/year	Truck Trips per Day (In/Out)	Onsite Trip Length (Miles)	Offsite Trip Length (Miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Hobart Yard Improvements_CTF3	155	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Hobart Yard Improvements_CTF4	861	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Hobart Yard Improvements_CTF5	50	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Hobart Yard Improvements_CTF6	262	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Hobart Yard Improvements_CTF7	235	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Hobart Yard Improvements_CTF8	208	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Hobart Yard Improvements_CTF9	392	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Hobart Yard Improvements_CTF10	103	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Hobart Yard Improvements_CTF11	77	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Hobart Yard Improvements_CTF12	208	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commerce Yard Improvements_Utility Relocation	367	30	0.1	15	HHDT/MHDT	166251	917.5	23051.85862	587.2	23639.05862
Commerce Yard Improvements_CTF1	53	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commerce Yard Improvements_CTF2	158	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commerce Yard Improvements_CTF3	236	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commerce Yard Improvements_CTF4	314	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commerce Yard Improvements_CTF5	367	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commerce Yard Improvements_CTF6	314	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commerce Yard Improvements_CTF7	105	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commerce Metrolink Stn_FD	261	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commerce Metrolink Stn_CTF1	64	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commerce Metrolink Stn_CTF2	261	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commerce Metrolink Stn_CTF3	65	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commerce Metrolink Stn_CTF4	66	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commerce Metrolink Stn_CTF5	44	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Norwalk-SFS Metrolink Stn_FD	651	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Norwalk-SFS Metrolink Stn_CTF1	65	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Norwalk-SFS Metrolink Stn_CTF2	390	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Norwalk-SFS Metrolink Stn_CTF3	42	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Norwalk-SFS Metrolink Stn_CTF4	22	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Buena Park Metrolink Stn_FD	325	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Buena Park Metrolink Stn_CTF1	65	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Buena Park Metrolink Stn_CTF2	325	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Buena Park Metrolink Stn_CTF3	66	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Buena Park Metrolink Stn_CTF4	88	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Buena Park Metrolink Stn_CTF5	23	0	0	10.2	HHDT/MHDT	0	0	0	0	0
ARTIC Station_FD	783	0	0	10.2	HHDT/MHDT	0	0	0	0	0
ARTIC Station_CTF1	151	0	0	10.2	HHDT/MHDT	0	0	0	0	0
ARTIC Station_CTF2	174	0	0	10.2	HHDT/MHDT	0	0	0	0	0
ARTIC Station_CTF3	413	0	0	10.2	HHDT/MHDT	0	0	0	0	0
ARTIC Station_CTF4	783	0	0	10.2	HHDT/MHDT	0	0	0	0	0
ARTIC Station_CTF5	107	0	0	10.2	HHDT/MHDT	0	0	0	0	0
ARTIC Station_CTF6	152	0	0	10.2	HHDT/MHDT	0	0	0	0	0
ARTIC Station_CTF7	368	0	0	10.2	HHDT/MHDT	0	0	0	0	0
ARTIC Station_CTF8	43	0	0	10.2	HHDT/MHDT	0	0	0	0	0
ARTIC Station_CTF9	66	0	0	10.2	HHDT/MHDT	0	0	0	0	0
ARTIC Station_CTF10	20	0	0	10.2	HHDT/MHDT	0	0	0	0	0
ARTIC Station_CTF11	151	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Fullerton Metrolink Stn_FD	283	6	0.1	10.2	HHDT/MHDT	17489.4	141.5	2425.027074	90.56	2515.587074
Fullerton Metrolink Stn_CTF1	87	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Fullerton Metrolink Stn_CTF2	64	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Fullerton Metrolink Stn_CTF3	44	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Fullerton Metrolink Stn_CTF4	110	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Fullerton Metrolink Stn_CTF5	65	0	0	11.2	HHDT/MHDT	0	0	0	0	0
Ballast Delivery_OutsideCA_2033	1	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Ballast Delivery_OutsideCA_2034	1	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Ballast Delivery_OutsideCA_2035	1	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Ballast Delivery_OutsideCA_2036	1	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Ballast Delivery_OutsideCA_2037	1	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Ballast Delivery_MDAB_2033	1	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Ballast Delivery_MDAB_2034	1	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Ballast Delivery_MDAB_2035	1	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Ballast Delivery_MDAB_2036	1	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Ballast Delivery_MDAB_2037	1	0	0	10.2	HHDT/MHDT	0	0	0	0	0

Phase	Days/year	Truck Trips per Day (In/Out)	Onsite Trip Length (Miles)	Offsite Trip Length (Miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Ballast Delivery_SCAB_2033	1	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Ballast Delivery_SCAB_2034	1	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Ballast Delivery_SCAB_2035	1	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Ballast Delivery_SCAB_2036	1	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Ballast Delivery_SCAB_2037	1	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Ballast Dumping_SCAB_2033	1	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Ballast Dumping_SCAB_2034	1	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Ballast Dumping_SCAB_2035	1	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Ballast Dumping_SCAB_2036	1	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Ballast Dumping_SCAB_2037	1	0	0	10.2	HHDT/MHDT	0	0	0	0	0
					Total VMT:	**6,068,942**		**841,501.01**	**14,965.33**	**856,466.34**
					Total Idle-Hours:		**23,383**			

1. CARB, EMFAC2021 (SCAQMD; HHDT/MHDT; Annual; CY 2031; Aggregate MY; Aggregate Speed,DSL)
2. Department of Energy, Fact #861, 2015 Idle Fuel Consumption for Selected Gasoline and Diesel Vehicles, February 23, 2015.
   https://www.energy.gov/eere/vehicles/fact-861-february-23-2015-idle-fuel-consumption-selected-gasoline-and-diesel-vehicles

Vendor Trucks

Onroad Travel Consumption	Value
EMFAC2021 Diesel Fuel Consumption Factor (gal/mi):[1]	0.139
Total VMT (mi):	1,078,756
Total diesel gallons	**149,577**
Idling Consumption	**Value**
Idling Fuel Consumption Factor (gal/hr):[2]	0.6400
Total Idle-Hours per Year:	8,728
Total diesel gallons	**5,586**

Total diesel gallons: 155,163

Phase	Days/year	Truck Trips per Day (In/Out)	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
At-Grade Rail-Ballasted Track-2033_Utilities	260	10.2	0.1	10.20	HHDT/MHDT	27,316	221	3787.50	141.44	3928.94
At-Grade Rail-Ballasted Track-2034_Utilities	260	10.2	0.1	10.20	HHDT/MHDT	27,316	221	3787.50	141.44	3928.94
At-Grade Rail-Ballasted Track-2035_Utilities	66	10.2	0.1	10.20	HHDT/MHDT	6,934	56	961.44	35.90	997.35
At-Grade Rail-Ballasted Track-2036_Utilities	130	10.2	0.1	10.20	HHDT/MHDT	13,658	111	1893.75	70.72	1964.47
At-Grade Rail-Ballasted Track-2037_Utilities	86	10.2	0.1	10.20	HHDT/MHDT	9,035	73	1252.79	46.78	1299.57
South of Fullerton-Ballasted Track_FD	197	10.2	0.1	10.20	HHDT/MHDT	20,697	167	2869.76	107.17	2976.93
Rail Direct Fixation_CTF1	130	10.2	0.1	10.20	HHDT/MHDT	13,658	111	1893.75	70.72	1964.47
Rail Direct Fixation_CTF2	261	10.2	0.1	10.20	HHDT/MHDT	27,421	222	3802.07	141.98	3944.05
Rail Direct Fixation_CTF3	262	10.2	0.1	10.20	HHDT/MHDT	27,526	223	3816.63	142.53	3959.16
Commerce Viaduct_CTF1	217	10.2	0.1	10.20	HHDT/MHDT	22,798	184	3161.10	118.05	3279.15
Commerce Viaduct_CTF7	522	10.2	0.1	10.20	HHDT/MHDT	54,841	444	7604.13	283.97	7888.10
Norwalk-SFS Viaduct_CTF4	522	10.2	0.1	10.20	HHDT/MHDT	54,841	444	7604.13	283.97	7888.10
Norwalk-SFS Viaduct_CTF6	261	10.2	0.1	10.20	HHDT/MHDT	27,421	222	3802.07	141.98	3944.05
Fullerton Trench_CTF1	653	10.2	0.1	10.20	HHDT/MHDT	68,604	555	9512.45	355.23	9867.68
Fullerton Trench_CTF6	132	10.2	0.1	10.20	HHDT/MHDT	13,868	112	1922.88	71.81	1994.69
Fullerton Trench_CTF8	175	10.2	0.1	10.20	HHDT/MHDT	18,386	149	2549.28	95.20	2644.48
South Downey Rd-L1 Grade Separation_CTF2	240	10.2	0.1	10.20	HHDT/MHDT	25,214	204	3496.15	130.56	3626.71
Eastern Ave-L2 Grade Separation_CTF6	195	10.2	0.1	10.20	HHDT/MHDT	20,487	166	2840.62	106.08	2946.70
Passons Blvd-L2 Grade Separation_CTF6	65	10.2	0.1	10.20	HHDT/MHDT	6,829	55	946.87	35.36	982.23
Sante Fe Springs-L2 Grade Separation_CTF6	87	10.2	0.1	10.20	HHDT/MHDT	9,140	74	1267.36	47.33	1314.68
Telegraph Road-L2 Grade Separation_CTF5	88	10.2	0.1	10.20	HHDT/MHDT	9,245	75	1281.92	47.87	1329.79
Valley View Ave-L2 Grade Separation_CTF7	151	10.2	0.1	10.20	HHDT/MHDT	15,864	128	2199.66	82.14	2281.81
Beach Blvd-L2 Grade Separation_CTF1	43	10.2	0.1	10.20	HHDT/MHDT	4,518	37	626.39	23.39	649.79
Gilbert St-L2 Grade Separation_CTF7	218	10.2	0.1	10.20	HHDT/MHDT	22,903	185	3175.67	118.59	3294.26
Euclid St-L2 Grade Separation_CTF8	154	10.2	0.1	10.20	HHDT/MHDT	16,179	131	2243.36	83.78	2327.14
Lemon St-L2 Grade Separation_CTF7	305	10.2	0.1	10.20	HHDT/MHDT	32,043	259	4443.03	165.92	4608.95
Atlantic Blvd-L3 Grade Separation_CTF8	174	10.2	0.1	10.20	HHDT/MHDT	18,280	148	2534.71	94.66	2629.37
Rosemead Blvd-L3 Grade Separation_CTF7	86	10.2	0.1	10.20	HHDT/MHDT	9,035	73	1252.79	46.78	1299.57
Slauson Ave-L3 Grade Separation_CTF6	109	10.2	0.1	10.20	HHDT/MHDT	11,452	93	1587.84	59.30	1647.13
Carmenita Rd-L3 Grade Separation_CTF5	195	10.2	0.1	10.20	HHDT/MHDT	20,487	166	2840.62	106.08	2946.70
Alondra Blvd-L3 Grade Separation_CTF2	217	10.2	0.1	10.20	HHDT/MHDT	22,798	184	3161.10	118.05	3279.15
Dale St-L3 Grade Separation_CTF3	86	10.2	0.1	10.20	HHDT/MHDT	9,035	73	1252.79	46.78	1299.57
Commonwealth Ave-L3 Grade Separation_CTF4	260	10.2	0.1	10.20	HHDT/MHDT	27,316	221	3787.50	141.44	3928.94
Highland Ave-L3 Grade Separation_CTF8	154	10.2	0.1	10.20	HHDT/MHDT	16,179	131	2243.36	83.78	2327.14
Harbor Blvd-L3 Grade Separation_CTF5	173	10.2	0.1	10.20	HHDT/MHDT	18,175	147	2520.14	94.11	2614.25
Douglass Rd-L3 Grade Separation_CTF7	174	10.2	0.1	10.20	HHDT/MHDT	18,280	148	2534.71	94.66	2629.37
Pioneer Blvd-L4 Grade Separation_CTF7	131	10.2	0.1	10.20	HHDT/MHDT	13,763	111	1908.32	71.26	1979.58

Construction Energy Analysis
Alt A - No HSR Station

Phase	Days/year	Truck Trips per Day (In/Out)	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Norwalk Blvd-L4 Grade Separation_CTF8	130	10.2	0.1	10.20	HHDT/MHDT	13,658	111	1893.75	70.72	1964.47
Los Nietos Rd-L4 Grade Separation_CTF8	130	10.2	0.1	10.20	HHDT/MHDT	13,658	111	1893.75	70.72	1964.47
Cerritos Ave-L4 Grade Separation_CTF12	261	10.2	0.1	10.20	HHDT/MHDT	27,421	222	3802.07	141.98	3944.05
Lewis St-L4 Grade Separation_CTF10	163	10.2	0.1	10.20	HHDT/MHDT	17,125	139	2374.47	88.67	2463.14
State College Blvd-L4 Grade Separation_CTF6	219	10.2	0.1	10.20	HHDT/MHDT	23,008	186	3190.24	119.14	3309.37
Katella Ave-L4 Grade Separation_CTF6	130	10.2	0.1	10.20	HHDT/MHDT	13,658	111	1893.75	70.72	1964.47
Coyote Creek-L1Water Crossing_CTF1	66	10.2	0.1	10.20	HHDT/MHDT	6,934	56	961.44	35.90	997.35
Carbon Creek-L1 Water Crossing_CTF1	89	10.2	0.1	10.20	HHDT/MHDT	9,350	76	1296.49	48.42	1344.91
San Gabriel River-L2 Water Crossing_CTF9	175	10.2	0.1	10.20	HHDT/MHDT	18,386	149	2549.28	95.20	2644.48
Rio Hondo River-L3 Water Crossing_CTF4	86	10.2	0.1	10.20	HHDT/MHDT	9,035	73	1252.79	46.78	1299.57
Coyote Creek-N Fork-L3 Water Crossing_CTF6	173	10.2	0.1	10.20	HHDT/MHDT	18,175	147	2520.14	94.11	2614.25
La Mirada Creek-L3 Water Crossing_CTF4	43	10.2	0.1	10.20	HHDT/MHDT	4,518	37	626.39	23.39	649.79
Brea Creek-L3 Water Crossing_CTF6	43	10.2	0.1	10.20	HHDT/MHDT	4,518	37	626.39	23.39	649.79
Redondo Jct TPSS_CTF2	44	10.2	0.1	10.20	HHDT/MHDT	4,623	37	640.96	23.94	664.90
Anaheim TPSS_CTF2	44	10.2	0.1	10.20	HHDT/MHDT	4,623	37	640.96	23.94	664.90
Paralleling Station #2_CTF4	22	10.2	0.1	10.20	HHDT/MHDT	2,311	19	320.48	11.97	332.45
Paralleling Station #4_CTF4	22	10.2	0.1	10.20	HHDT/MHDT	2,311	19	320.48	11.97	332.45
Switching Station_CTF3	20	10.2	0.1	10.20	HHDT/MHDT	2,101	17	291.35	10.88	302.23
Communciation Tower #1_CTF3	22	10.2	0.1	10.20	HHDT/MHDT	2,311	19	320.48	11.97	332.45
Communciation Tower #3_CTF4	22	10.2	0.1	10.20	HHDT/MHDT	2,311	19	320.48	11.97	332.45
Communciation Tower #5_CTF4	21	10.2	0.1	10.20	HHDT/MHDT	2,206	18	305.91	11.42	317.34
Communciation Tower #7_CTF5	23	10.2	0.1	10.20	HHDT/MHDT	2,416	20	335.05	12.51	347.56
Communciation Tower #9_CTF5	23	10.2	0.1	10.20	HHDT/MHDT	2,416	20	335.05	12.51	347.56
Communciation Tower #11_CTF4	21	10.2	0.1	10.20	HHDT/MHDT	2,206	18	305.91	11.42	317.34
Communciation Tower #13_CTF4	22	10.2	0.1	10.20	HHDT/MHDT	2,311	19	320.48	11.97	332.45
Communciation Tower #15_CTF3	22	10.2	0.1	10.20	HHDT/MHDT	2,311	19	320.48	11.97	332.45
LMF Support Structures_CTF4	152	10.2	0.1	10.20	HHDT/MHDT	15,969	129	2214.23	82.69	2296.92
26th St HSR LMF_Utility Relocation	65	10.2	0.1	10.20	HHDT/MHDT	6,829	55	946.87	35.36	982.23
Hobart Yard Improvements_CTF5	50	10.2	0.1	10.20	HHDT/MHDT	5,253	43	728.37	27.20	755.57
Commerce Yard Improvements_CTF2	158	10.2	0.1	10.20	HHDT/MHDT	16,599	134	2301.63	85.95	2387.59
ARTIC Station_CTF7	368	10.2	0.1	10.20	HHDT/MHDT	38,662	313	5360.77	200.19	5560.96
Fullerton Metrolink Stn_CTF4	110	10.2	0.1	10.20	HHDT/MHDT	11,557	94	1602.40	59.84	1662.24
					Total VMT:	**1,078,756**		**151,179.44**	**5,645.63**	**156,825.08**
					Total Idle-Hours:		**8,728**			

1. CARB, EMFAC2021 (SCAQMD; HHDT/MHDT; Annual; CY 2031; Aggregate MY; Aggregate Speed,DSL)
2. Department of Energy, Fact #861, 2015 Idle Fuel Consumption for Selected Gasoline and Diesel Vehicles, February 23, 2015. https://www.energy.gov/eere/vehicles/fact-861-february-23-2015-idle-fuel-consumption-selected-gasoline-and-diesel-vehicles

Vendor Trucks

Onroad Travel Consumption	Value
EMFAC2021 Diesel Fuel Consumption Factor (gal/mi):[1]	0.139
Total VMT (mi):	186,793
Total diesel gallons	**25,900**
Idling Consumption	**Value**
Idling Fuel Consumption Factor (gal/hr):[2]	0.6400
Total Idle-Hours per Year:	14,151
Total diesel gallons	**9,057**

Total diesel gallons: **34,957**

Phase	Days/year	Truck Trips per Day (In/Out)	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
At-Grade Rail-Ballasted Track-2033_Utilities	260	6.0	0.1	1.00	HHDT/MHDT	1,716	130	237.94	83.20	321.14
At-Grade Rail-Ballasted Track-2033_Track Install	313	6.0	0.1	1.00	HHDT/MHDT	2,066	157	286.44	100.16	386.60
At-Grade Rail-Ballasted Track-2034_Utilities	260	6.0	0.1	1.00	HHDT/MHDT	1,716	130	237.94	83.20	321.14
At-Grade Rail-Ballasted Track-2034_Track Install	312	6.0	0.1	1.00	HHDT/MHDT	2,059	156	285.52	99.84	385.36
At-Grade Rail-Ballasted Track-2035_Utilities	66	6.0	0.1	1.00	HHDT/MHDT	436	33	60.40	21.12	81.52
At-Grade Rail-Ballasted Track-2035_Track Install	79	6.0	0.1	1.00	HHDT/MHDT	521	40	72.30	25.28	97.58
At-Grade Rail-Ballasted Track-2036_Utilities	130	6.0	0.1	1.00	HHDT/MHDT	858	65	118.97	41.60	160.57
At-Grade Rail-Ballasted Track-2036_Track Install	156	6.0	0.1	1.00	HHDT/MHDT	1,030	78	142.76	49.92	192.68
At-Grade Rail-Ballasted Track-2037_Utilities	86	6.0	0.1	1.00	HHDT/MHDT	568	43	78.70	27.52	106.22
At-Grade Rail-Ballasted Track-2037_Track Install	103	6.0	0.1	1.00	HHDT/MHDT	680	52	94.26	32.96	127.22
South of Fullerton-Ballasted Track_FD	197	6.0	0.1	1.00	HHDT/MHDT	1,300	99	180.28	63.04	243.32
Rail Direct Fixation_CTF1	130	6.0	0.1	1.00	HHDT/MHDT	858	65	118.97	41.60	160.57
Rail Direct Fixation_CTF2	261	6.0	0.1	1.00	HHDT/MHDT	1,723	131	238.85	83.52	322.37
Rail Direct Fixation_CTF3	262	6.0	0.1	1.00	HHDT/MHDT	1,729	131	239.77	83.84	323.61
Commerce Viaduct_FD	652	6.0	0.1	1.00	HHDT/MHDT	4,303	326	596.67	208.64	805.31
Commerce Viaduct_Box Girders	695	6.0	0.1	1.00	HHDT/MHDT	4,587	348	636.02	222.40	858.42
Commerce Viaduct_CTF1	217	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commerce Viaduct_CTF2	652	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commerce Viaduct_CTF3	261	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commerce Viaduct_CTF4	107	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commerce Viaduct_CTF5	695	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commerce Viaduct_CTF6	436	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commerce Viaduct_CTF7	522	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk-SFS Viaduct_FD	782	6.0	0.1	1.00	HHDT/MHDT	5,161	391	715.64	250.24	965.88
Norwalk-SFS Viaduct_Box Girders	653	6.0	0.1	1.00	HHDT/MHDT	4,310	327	597.58	208.96	806.54
Norwalk-SFS Viaduct_CTF1	782	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk-SFS Viaduct_CTF2	261	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk-SFS Viaduct_CTF3	107	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk-SFS Viaduct_CTF4	522	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk-SFS Viaduct_CTF5	653	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk-SFS Viaduct_CTF6	261	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Fullerton Trench_FD	912	6.0	0.1	1.00	HHDT/MHDT	6,019	456	834.60	291.84	1126.44
Fullerton Trench_CTF1	653	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Fullerton Trench_CTF2	912	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Fullerton Trench_CTF3	175	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Fullerton Trench_CTF4	131	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Fullerton Trench_CTF5	717	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-

Phase	Days/year	Truck Trips per Day (In/Out)	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Fullerton Trench_CTF6	132	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Fullerton Trench_CTF7	260	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Fullerton Trench_CTF8	175	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Fullerton Trench_CTF9	261	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Fullerton Trench_CTF10	86	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Fullerton Trench_CTF11	42	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
I-10-L1 Grade Separation_FD	155	6.0	0.1	1.00	HHDT/MHDT	1,023	78	141.85	49.60	191.45
South Downey Rd-L1 Grade Separation_FD	326	6.0	0.1	1.00	HHDT/MHDT	2,152	163	298.33	104.32	402.65
South Downey Rd-L1 Grade Separation_CTF1	326	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
South Downey Rd-L1 Grade Separation_CTF2	240	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
South Downey Rd-L1 Grade Separation_CTF3	390	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
I-710-L1 Grade Separation_FD	53	6.0	0.1	1.00	HHDT/MHDT	350	27	48.50	16.96	65.46
I-5-L1 Grade Separation_FD	52	6.0	0.1	1.00	HHDT/MHDT	343	26	47.59	16.64	64.23
Greenwood Ave-L1 Grade Separation_FD	53	6.0	0.1	1.00	HHDT/MHDT	350	27	48.50	16.96	65.46
Paramount Blvd-L1 Grade Separation_FD	51	6.0	0.1	1.00	HHDT/MHDT	337	26	46.67	16.32	62.99
SR-91-L1 Grade Separation_FD	42	6.0	0.1	1.00	HHDT/MHDT	277	21	38.44	13.44	51.88
Lincoln Ave-L1 Grade Separation_FD	44	6.0	0.1	1.00	HHDT/MHDT	290	22	40.27	14.08	54.35
Eastern Ave-L2 Grade Separation_FD	457	6.0	0.1	1.00	HHDT/MHDT	3,016	229	418.22	146.24	564.46
Eastern Ave-L2 Grade Separation_CTF1	108	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Eastern Ave-L2 Grade Separation_CTF2	457	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Eastern Ave-L2 Grade Separation_CTF3	43	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Eastern Ave-L2 Grade Separation_CTF4	108	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Eastern Ave-L2 Grade Separation_CTF5	131	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Eastern Ave-L2 Grade Separation_CTF6	195	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Eastern Ave-L2 Grade Separation_CTF7	261	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Eastern Ave-L2 Grade Separation_CTF8	45	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Eastern Ave-L2 Grade Separation_CTF9	85	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Passons Blvd-L2 Grade Separation_FD	326	6.0	0.1	1.00	HHDT/MHDT	2,152	163	298.33	104.32	402.65
Passons Blvd-L2 Grade Separation_CTF1	42	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Passons Blvd-L2 Grade Separation_CTF2	87	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Passons Blvd-L2 Grade Separation_CTF3	130	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Passons Blvd-L2 Grade Separation_CTF4	326	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Passons Blvd-L2 Grade Separation_CTF5	65	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Passons Blvd-L2 Grade Separation_CTF6	65	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Passons Blvd-L2 Grade Separation_CTF7	87	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Sante Fe Springs-L2 Grade Separation_FD	326	6.0	0.1	1.00	HHDT/MHDT	2,152	163	298.33	104.32	402.65
Sante Fe Springs-L2 Grade Separation_CTF1	87	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Sante Fe Springs-L2 Grade Separation_CTF2	326	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Sante Fe Springs-L2 Grade Separation_CTF3	110	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Sante Fe Springs-L2 Grade Separation_CTF4	132	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Sante Fe Springs-L2 Grade Separation_CTF5	43	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Sante Fe Springs-L2 Grade Separation_CTF6	87	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Sante Fe Springs-L2 Grade Separation_CTF7	107	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Telegraph Road-L2 Grade Separation_FD	390	6.0	0.1	1.00	HHDT/MHDT	2,574	195	356.90	124.80	481.70
Telegraph Road-L2 Grade Separation_CTF1	64	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Telegraph Road-L2 Grade Separation_CTF2	85	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Telegraph Road-L2 Grade Separation_CTF3	390	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Telegraph Road-L2 Grade Separation_CTF4	43	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Telegraph Road-L2 Grade Separation_CTF5	88	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Telegraph Road-L2 Grade Separation_CTF6	217	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-

Phase	Days/year	Truck Trips per Day (In/Out)	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Valley View Ave-L2 Grade Separation_FD	326	6.0	0.1	1.00	HHDT/MHDT	2,152	163	298.33	104.32	402.65
Valley View Ave-L2 Grade Separation_CTF1	44	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Valley View Ave-L2 Grade Separation_CTF2	326	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Valley View Ave-L2 Grade Separation_CTF3	43	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Valley View Ave-L2 Grade Separation_CTF4	66	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Valley View Ave-L2 Grade Separation_CTF5	64	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Valley View Ave-L2 Grade Separation_CTF6	107	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Valley View Ave-L2 Grade Separation_CTF7	151	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Valley View Ave-L2 Grade Separation_CTF8	216	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Valley View Ave-L2 Grade Separation_CTF9	43	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Valley View Ave-L2 Grade Separation_CTF10	66	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Beach Blvd-L2 Grade Separation_FD	261	6.0	0.1	1.00	HHDT/MHDT	1,723	131	238.85	83.52	322.37
Beach Blvd-L2 Grade Separation_CTF1	43	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Beach Blvd-L2 Grade Separation_CTF2	87	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Beach Blvd-L2 Grade Separation_CTF3	109	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Beach Blvd-L2 Grade Separation_CTF4	261	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Beach Blvd-L2 Grade Separation_CTF5	109	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Beach Blvd-L2 Grade Separation_CTF6	109	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Gilbert St-L2 Grade Separation_FD	390	6.0	0.1	1.00	HHDT/MHDT	2,574	195	356.90	124.80	481.70
Gilbert St-L2 Grade Separation_CTF1	43	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Gilbert St-L2 Grade Separation_CTF2	86	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Gilbert St-L2 Grade Separation_CTF3	130	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Gilbert St-L2 Grade Separation_CTF4	390	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Gilbert St-L2 Grade Separation_CTF5	216	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Gilbert St-L2 Grade Separation_CTF6	132	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Gilbert St-L2 Grade Separation_CTF7	218	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Euclid St-L2 Grade Separation_FD	391	6.0	0.1	1.00	HHDT/MHDT	2,581	196	357.82	125.12	482.94
Euclid St-L2 Grade Separation_CTF1	262	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Euclid St-L2 Grade Separation_CTF2	283	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Euclid St-L2 Grade Separation_CTF3	326	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Euclid St-L2 Grade Separation_CTF4	391	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Euclid St-L2 Grade Separation_CTF5	43	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Euclid St-L2 Grade Separation_CTF6	88	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Euclid St-L2 Grade Separation_CTF7	43	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Euclid St-L2 Grade Separation_CTF8	154	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Lemon St-L2 Grade Separation_FD	650	6.0	0.1	1.00	HHDT/MHDT	4,290	325	594.84	208.00	802.84
Lemon St-L2 Grade Separation_CTF1	238	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Lemon St-L2 Grade Separation_CTF2	650	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Lemon St-L2 Grade Separation_CTF3	79	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Lemon St-L2 Grade Separation_CTF4	261	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Lemon St-L2 Grade Separation_CTF5	109	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Lemon St-L2 Grade Separation_CTF6	132	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Lemon St-L2 Grade Separation_CTF7	305	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Atlantic Blvd-L3 Grade Separation_FD	328	6.0	0.1	1.00	HHDT/MHDT	2,165	164	300.16	104.96	405.12
Atlantic Blvd-L3 Grade Separation_CTF1	132	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Atlantic Blvd-L3 Grade Separation_CTF2	154	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Atlantic Blvd-L3 Grade Separation_CTF3	219	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Atlantic Blvd-L3 Grade Separation_CTF4	328	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Atlantic Blvd-L3 Grade Separation_CTF5	66	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Atlantic Blvd-L3 Grade Separation_CTF6	86	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-

Phase	Days/year	Truck Trips per Day (In/Out)	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Atlantic Blvd-L3 Grade Separation_CTF7	131	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Atlantic Blvd-L3 Grade Separation_CTF8	174	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Atlantic Blvd-L3 Grade Separation_CTF9	261	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Rosemead Blvd-L3 Grade Separation_FD	521	6.0	0.1	1.00	HHDT/MHDT	3,439	261	476.79	166.72	643.51
Rosemead Blvd-L3 Grade Separation_CTF1	108	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Rosemead Blvd-L3 Grade Separation_CTF2	521	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Rosemead Blvd-L3 Grade Separation_CTF3	63	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Rosemead Blvd-L3 Grade Separation_CTF4	108	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Rosemead Blvd-L3 Grade Separation_CTF5	433	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Rosemead Blvd-L3 Grade Separation_CTF6	66	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Rosemead Blvd-L3 Grade Separation_CTF7	86	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Rosemead Blvd-L3 Grade Separation_CTF8	413	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Rosemead Blvd-L3 Grade Separation_CTF9	45	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Rosemead Blvd-L3 Grade Separation_CTF10	260	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Rosemead Blvd-L3 Grade Separation_CTF11	109	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Rosemead Blvd-L3 Grade Separation_CTF12	22	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Rosemead Blvd-L3 Grade Separation_CTF13	109	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Rosemead Blvd-L3 Grade Separation_CTF14	43	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Rosemead Blvd-L3 Grade Separation_CTF15	86	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Rosemead Blvd-L3 Grade Separation_CTF16	66	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Slauson Ave-L3 Grade Separation_FD	347	6.0	0.1	1.00	HHDT/MHDT	2,290	174	317.55	111.04	428.59
Slauson Ave-L3 Grade Separation_CTF1	109	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Slauson Ave-L3 Grade Separation_CTF2	347	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Slauson Ave-L3 Grade Separation_CTF3	65	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Slauson Ave-L3 Grade Separation_CTF4	87	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Slauson Ave-L3 Grade Separation_CTF5	109	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Slauson Ave-L3 Grade Separation_CTF6	109	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Slauson Ave-L3 Grade Separation_CTF7	173	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Carmenita Rd-L3 Grade Separation_FD	521	6.0	0.1	1.00	HHDT/MHDT	3,439	261	476.79	166.72	643.51
Carmenita Rd-L3 Grade Separation_CTF1	109	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Carmenita Rd-L3 Grade Separation_CTF2	196	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Carmenita Rd-L3 Grade Separation_CTF3	218	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Carmenita Rd-L3 Grade Separation_CTF4	521	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Carmenita Rd-L3 Grade Separation_CTF5	195	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Carmenita Rd-L3 Grade Separation_CTF6	304	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Carmenita Rd-L3 Grade Separation_CTF7	66	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Carmenita Rd-L3 Grade Separation_CTF8	87	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Carmenita Rd-L3 Grade Separation_CTF9	368	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Carmenita Rd-L3 Grade Separation_CTF10	108	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Carmenita Rd-L3 Grade Separation_CTF11	195	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Alondra Blvd-L3 Grade Separation_FD	652	6.0	0.1	1.00	HHDT/MHDT	4,303	326	596.67	208.64	805.31
Alondra Blvd-L3 Grade Separation_CTF1	153	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Alondra Blvd-L3 Grade Separation_CTF2	217	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Alondra Blvd-L3 Grade Separation_CTF3	261	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Alondra Blvd-L3 Grade Separation_CTF4	327	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Alondra Blvd-L3 Grade Separation_CTF5	587	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Alondra Blvd-L3 Grade Separation_CTF6	652	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Alondra Blvd-L3 Grade Separation_CTF7	44	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Alondra Blvd-L3 Grade Separation_CTF8	174	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Alondra Blvd-L3 Grade Separation_CTF9	217	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-

Phase	Days/year	Truck Trips per Day (In/Out)	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Alondra Blvd-L3 Grade Separation_CTF10	478	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Alondra Blvd-L3 Grade Separation_CTF11	565	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Alondra Blvd-L3 Grade Separation_CTF12	43	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Dale St-L3 Grade Separation_FD	326	6.0	0.1	1.00	HHDT/MHDT	2,152	163	298.33	104.32	402.65
Dale St-L3 Grade Separation_CTF1	21	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Dale St-L3 Grade Separation_CTF2	43	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Dale St-L3 Grade Separation_CTF3	86	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Dale St-L3 Grade Separation_CTF4	109	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Dale St-L3 Grade Separation_CTF5	174	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Dale St-L3 Grade Separation_CTF6	218	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Dale St-L3 Grade Separation_CTF7	217	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Dale St-L3 Grade Separation_CTF8	110	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Dale St-L3 Grade Separation_CTF9	77	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commonwealth Ave-L3 Grade Separation_FD	522	6.0	0.1	1.00	HHDT/MHDT	3,445	261	477.70	167.04	644.74
Commonwealth Ave-L3 Grade Separation_CTF1	132	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commonwealth Ave-L3 Grade Separation_CTF2	261	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commonwealth Ave-L3 Grade Separation_CTF3	522	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commonwealth Ave-L3 Grade Separation_CTF4	260	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commonwealth Ave-L3 Grade Separation_CTF5	152	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commonwealth Ave-L3 Grade Separation_CTF6	43	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commonwealth Ave-L3 Grade Separation_CTF7	195	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commonwealth Ave-L3 Grade Separation_CTF8	86	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commonwealth Ave-L3 Grade Separation_CTF9	85	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commonwealth Ave-L3 Grade Separation_CTF10	870	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commonwealth Ave-L3 Grade Separation_CTF11	43	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Highland Ave-L3 Grade Separation_FD	651	6.0	0.1	1.00	HHDT/MHDT	4,297	326	595.75	208.32	804.07
Highland Ave-L3 Grade Separation_CTF1	152	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Highland Ave-L3 Grade Separation_CTF2	130	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Highland Ave-L3 Grade Separation_CTF3	260	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Highland Ave-L3 Grade Separation_CTF4	651	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Highland Ave-L3 Grade Separation_CTF5	630	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Highland Ave-L3 Grade Separation_CTF6	66	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Highland Ave-L3 Grade Separation_CTF7	132	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Highland Ave-L3 Grade Separation_CTF8	154	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Highland Ave-L3 Grade Separation_CTF9	174	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Highland Ave-L3 Grade Separation_CTF10	130	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Highland Ave-L3 Grade Separation_CTF11	261	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Highland Ave-L3 Grade Separation_CTF12	217	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Highland Ave-L3 Grade Separation_CTF13	174	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Harbor Blvd-L3 Grade Separation_FD	522	6.0	0.1	1.00	HHDT/MHDT	3,445	261	477.70	167.04	644.74
Harbor Blvd-L3 Grade Separation_CTF1	217	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Harbor Blvd-L3 Grade Separation_CTF2	522	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Harbor Blvd-L3 Grade Separation_CTF3	173	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Harbor Blvd-L3 Grade Separation_CTF4	217	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Harbor Blvd-L3 Grade Separation_CTF5	173	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Douglass Rd-L3 Grade Separation_FD	392	6.0	0.1	1.00	HHDT/MHDT	2,587	196	358.73	125.44	484.17
Douglass Rd-L3 Grade Separation_CTF1	131	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Douglass Rd-L3 Grade Separation_CTF2	218	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Douglass Rd-L3 Grade Separation_CTF3	262	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Douglass Rd-L3 Grade Separation_CTF4	392	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-

Phase	Days/year	Truck Trips per Day (In/Out)	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Douglass Rd-L3 Grade Separation_CTF5	434	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Douglass Rd-L3 Grade Separation_CTF6	43	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Douglass Rd-L3 Grade Separation_CTF7	174	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Douglass Rd-L3 Grade Separation_CTF8	130	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Douglass Rd-L3 Grade Separation_CTF9	175	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Douglass Rd-L3 Grade Separation_CTF10	196	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Douglass Rd-L3 Grade Separation_CTF11	64	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Pioneer Blvd-L4 Grade Separation_FD	654	6.0	0.1	1.00	HHDT/MHDT	4,316	327	598.50	209.28	807.78
Pioneer Blvd-L4 Grade Separation_CTF1	262	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Pioneer Blvd-L4 Grade Separation_CTF2	349	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Pioneer Blvd-L4 Grade Separation_CTF3	654	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Pioneer Blvd-L4 Grade Separation_CTF4	132	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Pioneer Blvd-L4 Grade Separation_CTF5	153	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Pioneer Blvd-L4 Grade Separation_CTF6	262	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Pioneer Blvd-L4 Grade Separation_CTF7	131	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Pioneer Blvd-L4 Grade Separation_CTF8	174	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Pioneer Blvd-L4 Grade Separation_CTF9	479	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Pioneer Blvd-L4 Grade Separation_CTF10	457	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Pioneer Blvd-L4 Grade Separation_CTF11	130	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Pioneer Blvd-L4 Grade Separation_CTF12	349	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Pioneer Blvd-L4 Grade Separation_CTF13	175	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Pioneer Blvd-L4 Grade Separation_CTF14	107	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Pioneer Blvd-L4 Grade Separation_CTF15	44	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Pioneer Blvd-L4 Grade Separation_CTF16	66	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk Blvd-L4 Grade Separation_FD	782	6.0	0.1	1.00	HHDT/MHDT	5,161	391	715.64	250.24	965.88
Norwalk Blvd-L4 Grade Separation_CTF1	131	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk Blvd-L4 Grade Separation_CTF2	152	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk Blvd-L4 Grade Separation_CTF3	391	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk Blvd-L4 Grade Separation_CTF4	542	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk Blvd-L4 Grade Separation_CTF5	782	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk Blvd-L4 Grade Separation_CTF6	131	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk Blvd-L4 Grade Separation_CTF7	107	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk Blvd-L4 Grade Separation_CTF8	130	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk Blvd-L4 Grade Separation_CTF9	390	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk Blvd-L4 Grade Separation_CTF10	130	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk Blvd-L4 Grade Separation_CTF11	218	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Los Nietos Rd-L4 Grade Separation_FD	782	6.0	0.1	1.00	HHDT/MHDT	5,161	391	715.64	250.24	965.88
Los Nietos Rd-L4 Grade Separation_CTF1	131	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Los Nietos Rd-L4 Grade Separation_CTF2	152	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Los Nietos Rd-L4 Grade Separation_CTF3	391	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Los Nietos Rd-L4 Grade Separation_CTF4	542	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Los Nietos Rd-L4 Grade Separation_CTF5	782	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Los Nietos Rd-L4 Grade Separation_CTF6	131	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Los Nietos Rd-L4 Grade Separation_CTF7	107	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Los Nietos Rd-L4 Grade Separation_CTF8	130	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Los Nietos Rd-L4 Grade Separation_CTF9	390	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Los Nietos Rd-L4 Grade Separation_CTF10	130	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Los Nietos Rd-L4 Grade Separation_CTF11	218	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Cerritos Ave-L4 Grade Separation_FD	783	6.0	0.1	1.00	HHDT/MHDT	5,168	392	716.55	250.56	967.11
Cerritos Ave-L4 Grade Separation_CTF1	130	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-

Phase	Days/year	Truck Trips per Day (In/Out)	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Cerritos Ave-L4 Grade Separation_CTF2	130	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Cerritos Ave-L4 Grade Separation_CTF3	283	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Cerritos Ave-L4 Grade Separation_CTF4	391	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Cerritos Ave-L4 Grade Separation_CTF5	500	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Cerritos Ave-L4 Grade Separation_CTF6	783	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Cerritos Ave-L4 Grade Separation_CTF7	129	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Cerritos Ave-L4 Grade Separation_CTF8	434	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Cerritos Ave-L4 Grade Separation_CTF9	129	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Cerritos Ave-L4 Grade Separation_CTF10	172	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Cerritos Ave-L4 Grade Separation_CTF11	238	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Cerritos Ave-L4 Grade Separation_CTF12	261	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Cerritos Ave-L4 Grade Separation_CTF13	196	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Cerritos Ave-L4 Grade Separation_CTF14	89	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Cerritos Ave-L4 Grade Separation_CTF15	132	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Cerritos Ave-L4 Grade Separation_CTF16	87	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Cerritos Ave-L4 Grade Separation_CTF17	218	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Cerritos Ave-L4 Grade Separation_CTF18	131	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Lewis St-L4 Grade Separation_FD	390	6.0	0.1	1.00	HHDT/MHDT	2,574	195	356.90	124.80	481.70
Lewis St-L4 Grade Separation_CTF1	41	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Lewis St-L4 Grade Separation_CTF2	260	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Lewis St-L4 Grade Separation_CTF3	65	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Lewis St-L4 Grade Separation_CTF4	175	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Lewis St-L4 Grade Separation_CTF5	21	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Lewis St-L4 Grade Separation_CTF6	44	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Lewis St-L4 Grade Separation_CTF7	109	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Lewis St-L4 Grade Separation_CTF8	261	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Lewis St-L4 Grade Separation_CTF9	131	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Lewis St-L4 Grade Separation_CTF10	163	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Lewis St-L4 Grade Separation_CTF11	88	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Lewis St-L4 Grade Separation_CTF12	240	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Lewis St-L4 Grade Separation_CTF13	65	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Lewis St-L4 Grade Separation_CTF14	195	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Lewis St-L4 Grade Separation_CTF15	87	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
State College Blvd-L4 Grade Separation_FD	783	6.0	0.1	1.00	HHDT/MHDT	5,168	392	716.55	250.56	967.11
State College Blvd-L4 Grade Separation_CTF1	173	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
State College Blvd-L4 Grade Separation_CTF2	523	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
State College Blvd-L4 Grade Separation_CTF3	783	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
State College Blvd-L4 Grade Separation_CTF4	412	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
State College Blvd-L4 Grade Separation_CTF5	197	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
State College Blvd-L4 Grade Separation_CTF6	219	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
State College Blvd-L4 Grade Separation_CTF7	153	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
State College Blvd-L4 Grade Separation_CTF8	108	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
State College Blvd-L4 Grade Separation_CTF9	217	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
State College Blvd-L4 Grade Separation_CTF10	304	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
State College Blvd-L4 Grade Separation_CTF11	261	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
State College Blvd-L4 Grade Separation_CTF12	129	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
State College Blvd-L4 Grade Separation_CTF13	129	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
State College Blvd-L4 Grade Separation_CTF14	239	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
State College Blvd-L4 Grade Separation_CTF15	87	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Katella Ave-L4 Grade Separation_FD	651	6.0	0.1	1.00	HHDT/MHDT	4,297	326	595.75	208.32	804.07

Phase	Days/year	Truck Trips per Day (In/Out)	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Katella Ave-L4 Grade Separation_CTF1	85	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Katella Ave-L4 Grade Separation_CTF2	260	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Katella Ave-L4 Grade Separation_CTF3	390	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Katella Ave-L4 Grade Separation_CTF4	651	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Katella Ave-L4 Grade Separation_CTF5	175	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Katella Ave-L4 Grade Separation_CTF6	130	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Katella Ave-L4 Grade Separation_CTF7	195	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Katella Ave-L4 Grade Separation_CTF8	65	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Katella Ave-L4 Grade Separation_CTF9	87	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Katella Ave-L4 Grade Separation_CTF10	65	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Redondo Junction-L1 Water Crossing_FD	87	6.0	0.1	1.00	HHDT/MHDT	574	44	79.62	27.84	107.46
Redondo Junction-L1 Water Crossing_CTF1	87	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Coyote Creek-L1Water Crossing_FD	131	6.0	0.1	1.00	HHDT/MHDT	865	66	119.88	41.92	161.80
Coyote Creek-L1Water Crossing_CTF1	66	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Coyote Creek-L1Water Crossing_CTF2	131	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Coyote Creek-L1Water Crossing_CTF3	21	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Carbon Creek-L1 Water Crossing_FD	89	6.0	0.1	1.00	HHDT/MHDT	587	45	81.45	28.48	109.93
Carbon Creek-L1 Water Crossing_CTF1	89	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
San Gabriel River-L2 Water Crossing_FD	457	6.0	0.1	1.00	HHDT/MHDT	3,016	229	418.22	146.24	564.46
San Gabriel River-L2 Water Crossing_CTF1	65	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
San Gabriel River-L2 Water Crossing_CTF2	87	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
San Gabriel River-L2 Water Crossing_CTF3	108	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
San Gabriel River-L2 Water Crossing_CTF4	152	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
San Gabriel River-L2 Water Crossing_CTF5	347	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
San Gabriel River-L2 Water Crossing_CTF6	435	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
San Gabriel River-L2 Water Crossing_CTF7	457	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
San Gabriel River-L2 Water Crossing_CTF8	110	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
San Gabriel River-L2 Water Crossing_CTF9	175	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Rio Hondo SG-L3 Water Crossing_FD	325	6.0	0.1	1.00	HHDT/MHDT	2,145	163	297.42	104.00	401.42
Rio Hondo SG-L3 Water Crossing_CTF1	150	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Rio Hondo SG-L3 Water Crossing_CTF2	216	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Rio Hondo SG-L3 Water Crossing_CTF3	325	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Rio Hondo River-L3 Water Crossing_FD	325	6.0	0.1	1.00	HHDT/MHDT	2,145	163	297.42	104.00	401.42
Rio Hondo River-L3 Water Crossing_CTF1	150	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Rio Hondo River-L3 Water Crossing_CTF2	325	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Rio Hondo River-L3 Water Crossing_CTF3	65	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Rio Hondo River-L3 Water Crossing_CTF4	86	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Rio Hondo River-L3 Water Crossing_CTF5	108	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Rio Hondo River-L3 Water Crossing_CTF6	173	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Coyote Creek-N Fork-L3 Water Crossing_FD	260	6.0	0.1	1.00	HHDT/MHDT	1,716	130	237.94	83.20	321.14
Coyote Creek-N Fork-L3 Water Crossing_CTF1	85	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Coyote Creek-N Fork-L3 Water Crossing_CTF2	108	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Coyote Creek-N Fork-L3 Water Crossing_CTF3	260	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Coyote Creek-N Fork-L3 Water Crossing_CTF4	455	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Coyote Creek-N Fork-L3 Water Crossing_CTF5	63	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Coyote Creek-N Fork-L3 Water Crossing_CTF6	173	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Coyote Creek-N Fork-L3 Water Crossing_CTF7	218	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
La Mirada Creek-L3 Water Crossing_FD	260	6.0	0.1	1.00	HHDT/MHDT	1,716	130	237.94	83.20	321.14
La Mirada Creek-L3 Water Crossing_CTF1	87	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
La Mirada Creek-L3 Water Crossing_CTF2	130	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-

Phase	Days/year	Truck Trips per Day (In/Out)	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
La Mirada Creek-L3 Water Crossing_CTF3	260	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
La Mirada Creek-L3 Water Crossing_CTF4	43	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Brea Creek-L3 Water Crossing_FD	325	6.0	0.1	1.00	HHDT/MHDT	2,145	163	297.42	104.00	401.42
Brea Creek-L3 Water Crossing_CTF1	42	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Brea Creek-L3 Water Crossing_CTF2	108	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Brea Creek-L3 Water Crossing_CTF3	130	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Brea Creek-L3 Water Crossing_CTF4	217	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Brea Creek-L3 Water Crossing_CTF5	43	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Brea Creek-L3 Water Crossing_CTF6	43	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Brea Creek-L3 Water Crossing_CTF7	175	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Brea Creek-L3 Water Crossing_CTF8	392	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Redondo Jct TPSS_FD	261	6.0	0.1	1.00	HHDT/MHDT	1,723	131	238.85	83.52	322.37
Redondo Jct TPSS_CTF1	216	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Redondo Jct TPSS_CTF2	44	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Redondo Jct TPSS_CTF3	261	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Redondo Jct TPSS_CTF4	132	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Redondo Jct TPSS_CTF5	20	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Redondo Jct TPSS_CTF6	22	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Anaheim TPSS_FD	239	6.0	0.1	1.00	HHDT/MHDT	1,577	120	218.72	76.48	295.20
Anaheim TPSS_CTF1	216	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Anaheim TPSS_CTF2	44	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Anaheim TPSS_CTF3	261	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Anaheim TPSS_CTF4	22	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Anaheim TPSS_CTF5	43	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Anaheim TPSS_CTF6	132	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Anaheim TPSS_CTF7	239	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Anaheim TPSS_CTF8	20	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Anaheim TPSS_CTF9	22	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Paralleling Station #2_FD	262	6.0	0.1	1.00	HHDT/MHDT	1,729	131	239.77	83.84	323.61
Paralleling Station #2_CTF1	23	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Paralleling Station #2_CTF2	108	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Paralleling Station #2_CTF3	261	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Paralleling Station #2_CTF4	22	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Paralleling Station #2_CTF5	20	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Paralleling Station #2_CTF6	22	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Paralleling Station #4_FD	261	6.0	0.1	1.00	HHDT/MHDT	1,723	131	238.85	83.52	322.37
Paralleling Station #4_CTF1	23	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Paralleling Station #4_CTF2	108	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Paralleling Station #4_CTF3	261	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Paralleling Station #4_CTF4	22	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Paralleling Station #4_CTF5	20	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Paralleling Station #4_CTF6	22	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Switching Station_FD	129	6.0	0.1	1.00	HHDT/MHDT	851	65	118.05	41.28	159.33
Switching Station_CTF1	22	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Switching Station_CTF2	129	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Switching Station_CTF3	20	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Switching Station_CTF4	44	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Switching Station_CTF5	22	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #1_FD	66	6.0	0.1	1.00	HHDT/MHDT	436	33	60.40	21.12	81.52
Communciation Tower #1_CTF1	23	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-

Phase	Days/year	Truck Trips per Day (In/Out)	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Communciation Tower #1_CTF2	66	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #1_CTF3	22	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #3_FD	64	6.0	0.1	1.00	HHDT/MHDT	422	32	58.57	20.48	79.05
Communciation Tower #3_CTF1	42	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #3_CTF2	64	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #3_CTF3	21	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #3_CTF4	22	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #5_FD	66	6.0	0.1	1.00	HHDT/MHDT	436	33	60.40	21.12	81.52
Communciation Tower #5_CTF1	22	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #5_CTF2	66	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #5_CTF3	23	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #5_CTF4	21	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #7_FD	86	6.0	0.1	1.00	HHDT/MHDT	568	43	78.70	27.52	106.22
Communciation Tower #7_CTF1	43	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #7_CTF2	66	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #7_CTF3	86	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #7_CTF4	65	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #7_CTF5	23	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #7_CTF6	20	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #9_FD	86	6.0	0.1	1.00	HHDT/MHDT	568	43	78.70	27.52	106.22
Communciation Tower #9_CTF1	43	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #9_CTF2	66	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #9_CTF3	86	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #9_CTF4	65	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #9_CTF5	23	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #9_CTF6	20	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #11_FD	66	6.0	0.1	1.00	HHDT/MHDT	436	33	60.40	21.12	81.52
Communciation Tower #11_CTF1	22	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #11_CTF2	66	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #11_CTF3	23	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #11_CTF4	21	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #13_FD	64	6.0	0.1	1.00	HHDT/MHDT	422	32	58.57	20.48	79.05
Communciation Tower #13_CTF1	42	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #13_CTF2	64	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #13_CTF3	21	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #13_CTF4	22	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #15_FD	66	6.0	0.1	1.00	HHDT/MHDT	436	33	60.40	21.12	81.52
Communciation Tower #15_CTF1	23	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #15_CTF2	66	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #15_CTF3	22	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
LMF Support Structures_FD	326	6.0	0.1	1.00	HHDT/MHDT	2,152	163	298.33	104.32	402.65
LMF Support Structures_CTF1	130	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
LMF Support Structures_CTF2	261	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
LMF Support Structures_CTF3	326	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
LMF Support Structures_CTF4	152	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
LMF Support Structures_CTF5	142	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
LMF Support Structures_CTF6	66	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
LMF Support Structures_CTF7	66	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
LMF Support Structures_CTF8	110	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
26th St HSR LMF_Utility Relocation	65	6.0	0.1	1.00	HHDT/MHDT	429	33	59.48	20.80	80.28

Phase	Days/year	Truck Trips per Day (In/Out)	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
26th St HSR LMF_Ballast Installation	196	6.0	0.1	1.00	HHDT/MHDT	1,294	98	179.37	62.72	242.09
Hobart Yard Improvements_FD	861	6.0	0.1	1.00	HHDT/MHDT	5,683	431	787.93	275.52	1063.45
Hobart Yard Improvements_CTF1	77	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Hobart Yard Improvements_CTF2	103	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Hobart Yard Improvements_CTF3	155	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Hobart Yard Improvements_CTF4	861	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Hobart Yard Improvements_CTF5	50	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Hobart Yard Improvements_CTF6	262	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Hobart Yard Improvements_CTF7	235	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Hobart Yard Improvements_CTF8	208	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Hobart Yard Improvements_CTF9	392	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Hobart Yard Improvements_CTF10	103	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Hobart Yard Improvements_CTF11	77	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Hobart Yard Improvements_CTF12	208	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commerce Yard Improvements_Utility Relocation	367	6.0	0.1	1.00	HHDT/MHDT	2,422	184	335.85	117.44	453.29
Commerce Yard Improvements_CTF1	53	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commerce Yard Improvements_CTF2	158	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commerce Yard Improvements_CTF3	236	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commerce Yard Improvements_CTF4	314	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commerce Yard Improvements_CTF5	367	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commerce Yard Improvements_CTF6	314	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commerce Yard Improvements_CTF7	105	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commerce Metrolink Stn_FD	261	6.0	0.1	1.00	HHDT/MHDT	1,723	131	238.85	83.52	322.37
Commerce Metrolink Stn_CTF1	64	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commerce Metrolink Stn_CTF2	261	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commerce Metrolink Stn_CTF3	65	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commerce Metrolink Stn_CTF4	66	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commerce Metrolink Stn_CTF5	44	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk-SFS Metrolink Stn_FD	651	6.0	0.1	1.00	HHDT/MHDT	4,297	326	595.75	208.32	804.07
Norwalk-SFS Metrolink Stn_CTF1	65	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk-SFS Metrolink Stn_CTF2	390	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk-SFS Metrolink Stn_CTF3	42	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk-SFS Metrolink Stn_CTF4	22	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Buena Park Metrolink Stn_FD	325	6.0	0.1	1.00	HHDT/MHDT	2,145	163	297.42	104.00	401.42
Buena Park Metrolink Stn_CTF1	65	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Buena Park Metrolink Stn_CTF2	325	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Buena Park Metrolink Stn_CTF3	66	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Buena Park Metrolink Stn_CTF4	88	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Buena Park Metrolink Stn_CTF5	23	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
ARTIC Station_FD	783	6.0	0.1	1.00	HHDT/MHDT	5,168	392	716.55	250.56	967.11
ARTIC Station_CTF1	151	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
ARTIC Station_CTF2	174	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
ARTIC Station_CTF3	413	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
ARTIC Station_CTF4	783	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
ARTIC Station_CTF5	107	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
ARTIC Station_CTF6	152	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
ARTIC Station_CTF7	368	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
ARTIC Station_CTF8	43	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
ARTIC Station_CTF9	66	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
ARTIC Station_CTF10	20	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-

Construction Energy Analysis
Alt A - No HSR Station

Phase	Days/year	Truck Trips per Day (In/Out)	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
ARTIC Station_CTF11	151	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Fullerton Metrolink Stn_FD	283	6.0	0.1	1.00	HHDT/MHDT	1,868	142	258.98	90.56	349.54
Fullerton Metrolink Stn_CTF1	87	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Fullerton Metrolink Stn_CTF2	64	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Fullerton Metrolink Stn_CTF3	44	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Fullerton Metrolink Stn_CTF4	110	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Fullerton Metrolink Stn_CTF5	65	0.0	0.1	2.00	HHDT/MHDT	0	0	-	-	-
Ballast Delivery_OutsideCA_2033	1	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Ballast Delivery_OutsideCA_2034	1	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Ballast Delivery_OutsideCA_2035	1	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Ballast Delivery_OutsideCA_2036	1	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Ballast Delivery_OutsideCA_2037	1	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Ballast Delivery_MDAB_2033	1	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Ballast Delivery_MDAB_2034	1	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Ballast Delivery_MDAB_2035	1	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Ballast Delivery_MDAB_2036	1	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Ballast Delivery_MDAB_2037	1	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Ballast Delivery_SCAB_2033	1	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Ballast Delivery_SCAB_2034	1	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Ballast Delivery_SCAB_2035	1	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Ballast Delivery_SCAB_2036	1	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Ballast Delivery_SCAB_2037	1	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Ballast Dumping_SCAB_2033	1	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Ballast Dumping_SCAB_2034	1	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Ballast Dumping_SCAB_2035	1	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Ballast Dumping_SCAB_2036	1	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Ballast Dumping_SCAB_2037	1	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
					Total VMT:	**186,793**		**25,900.18**	**9,056.64**	**34,956.82**
					Total Idle-Hours:		**14,151**			

1. CARB, EMFAC2021 (SCAQMD; HHDT/MHDT; Annual; CY 2031; Aggregate MY; Aggregate Speed,DSL)
2. Department of Energy, Fact #861, 2015 Idle Fuel Consumption for Selected Gasoline and Diesel Vehicles, February 23, 2015. https://www.energy.gov/eere/vehicles/fact-861-february-23-2015-idle-fuel-consumption-selected-gasoline-and-diesel-vehicles

Worker Vehicles

Onroad Travel Consumption	Value
EMFAC2021 Gasoline Fuel Consumption Factor (gal/mi):[1]	0.033
Total VMT (mi):	25,980,142
Total gasoline gallons	**845,514**

Phase	Days/year	Vehicle Trips per day (In/Out)	Trip Length (miles)	Vehicle Category	VMT	Onroad Travel Consumption (gal)
At-Grade Rail-Ballasted Track-2033_Utilities	260	40.0	18.50	LD Fleet Mix	192,400	6,262
At-Grade Rail-Ballasted Track-2033_Track Install	313	30.0	18.50	LD Fleet Mix	173,715	5,653
At-Grade Rail-Ballasted Track-2034_Utilities	260	40.0	18.50	LD Fleet Mix	192,400	6,262
At-Grade Rail-Ballasted Track-2034_Track Install	312	30.0	18.50	LD Fleet Mix	173,160	5,635
At-Grade Rail-Ballasted Track-2035_Utilities	66	40.0	18.50	LD Fleet Mix	48,840	1,589
At-Grade Rail-Ballasted Track-2035_Track Install	79	30.0	18.50	LD Fleet Mix	43,845	1,427
At-Grade Rail-Ballasted Track-2036_Utilities	130	40.0	18.50	LD Fleet Mix	96,200	3,131
At-Grade Rail-Ballasted Track-2036_Track Install	156	30.0	18.50	LD Fleet Mix	86,580	2,818
At-Grade Rail-Ballasted Track-2037_Utilities	86	40.0	18.50	LD Fleet Mix	63,640	2,071
At-Grade Rail-Ballasted Track-2037_Track Install	103	30.0	18.50	LD Fleet Mix	57,165	1,860
South of Fullerton-Ballasted Track_FD	197	40.0	18.50	LD Fleet Mix	145,780	4,744
Rail Direct Fixation_CTF1	130	48.0	18.50	LD Fleet Mix	115,440	3,757
Rail Direct Fixation_CTF2	261	48.0	18.50	LD Fleet Mix	231,768	7,543
Rail Direct Fixation_CTF3	262	48.0	18.50	LD Fleet Mix	232,656	7,572
Commerce Viaduct_FD	652	90.0	18.50	LD Fleet Mix	1,085,580	35,330
Commerce Viaduct_Box Girders	695	50.0	18.50	LD Fleet Mix	642,875	20,922
Commerce Viaduct_CTF1	217	0.0	18.50	LD Fleet Mix	0	0
Commerce Viaduct_CTF2	652	0.0	18.50	LD Fleet Mix	0	0
Commerce Viaduct_CTF3	261	0.0	18.50	LD Fleet Mix	0	0
Commerce Viaduct_CTF4	107	0.0	18.50	LD Fleet Mix	0	0
Commerce Viaduct_CTF5	695	0.0	18.50	LD Fleet Mix	0	0
Commerce Viaduct_CTF6	436	0.0	18.50	LD Fleet Mix	0	0
Commerce Viaduct_CTF7	522	0.0	18.50	LD Fleet Mix	0	0
Norwalk-SFS Viaduct_FD	782	90.0	18.50	LD Fleet Mix	1,302,030	42,374
Norwalk-SFS Viaduct_Box Girders	653	50.0	18.50	LD Fleet Mix	604,025	19,658
Norwalk-SFS Viaduct_CTF1	782	0.0	18.50	LD Fleet Mix	0	0
Norwalk-SFS Viaduct_CTF2	261	0.0	18.50	LD Fleet Mix	0	0

Phase	Days/year	Vehicle Trips per day (In/Out)	Trip Length (miles)	Vehicle Category	VMT	Onroad Travel Consumption (gal)
Norwalk-SFS Viaduct_CTF3	107	0.0	18.50	LD Fleet Mix	0	0
Norwalk-SFS Viaduct_CTF4	522	0.0	18.50	LD Fleet Mix	0	0
Norwalk-SFS Viaduct_CTF5	653	0.0	18.50	LD Fleet Mix	0	0
Norwalk-SFS Viaduct_CTF6	261	0.0	18.50	LD Fleet Mix	0	0
Fullerton Trench_FD	912	80.0	18.50	LD Fleet Mix	1,349,760	43,927
Fullerton Trench_CTF1	653	0.0	18.50	LD Fleet Mix	0	0
Fullerton Trench_CTF2	912	0.0	18.50	LD Fleet Mix	0	0
Fullerton Trench_CTF3	175	0.0	18.50	LD Fleet Mix	0	0
Fullerton Trench_CTF4	131	0.0	18.50	LD Fleet Mix	0	0
Fullerton Trench_CTF5	717	0.0	18.50	LD Fleet Mix	0	0
Fullerton Trench_CTF6	132	0.0	18.50	LD Fleet Mix	0	0
Fullerton Trench_CTF7	260	0.0	18.50	LD Fleet Mix	0	0
Fullerton Trench_CTF8	175	0.0	18.50	LD Fleet Mix	0	0
Fullerton Trench_CTF9	261	0.0	18.50	LD Fleet Mix	0	0
Fullerton Trench_CTF10	86	0.0	18.50	LD Fleet Mix	0	0
Fullerton Trench_CTF11	42	0.0	18.50	LD Fleet Mix	0	0
I-10-L1 Grade Separation_FD	155	40.0	18.50	LD Fleet Mix	114,700	3,733
South Downey Rd-L1 Grade Separation_FD	326	40.0	18.50	LD Fleet Mix	241,240	7,851
South Downey Rd-L1 Grade Separation_CTF1	326	0.0	18.50	LD Fleet Mix	0	0
South Downey Rd-L1 Grade Separation_CTF2	240	0.0	18.50	LD Fleet Mix	0	0
South Downey Rd-L1 Grade Separation_CTF3	390	0.0	18.50	LD Fleet Mix	0	0
I-710-L1 Grade Separation_FD	53	40.0	18.50	LD Fleet Mix	39,220	1,276
I-5-L1 Grade Separation_FD	52	40.0	18.50	LD Fleet Mix	38,480	1,252
Greenwood Ave-L1 Grade Separation_FD	53	40.0	18.50	LD Fleet Mix	39,220	1,276
Paramount Blvd-L1 Grade Separation_FD	51	40.0	18.50	LD Fleet Mix	37,740	1,228
SR-91-L1 Grade Separation_FD	42	40.0	18.50	LD Fleet Mix	31,080	1,011
Lincoln Ave-L1 Grade Separation_FD	44	40.0	18.50	LD Fleet Mix	32,560	1,060
Eastern Ave-L2 Grade Separation_FD	457	40.0	18.50	LD Fleet Mix	338,180	11,006
Eastern Ave-L2 Grade Separation_CTF1	108	0.0	18.50	LD Fleet Mix	0	0
Eastern Ave-L2 Grade Separation_CTF2	457	0.0	18.50	LD Fleet Mix	0	0
Eastern Ave-L2 Grade Separation_CTF3	43	0.0	18.50	LD Fleet Mix	0	0
Eastern Ave-L2 Grade Separation_CTF4	108	0.0	18.50	LD Fleet Mix	0	0
Eastern Ave-L2 Grade Separation_CTF5	131	0.0	18.50	LD Fleet Mix	0	0
Eastern Ave-L2 Grade Separation_CTF6	195	0.0	18.50	LD Fleet Mix	0	0
Eastern Ave-L2 Grade Separation_CTF7	261	0.0	18.50	LD Fleet Mix	0	0

Phase	Days/year	Vehicle Trips per day (In/Out)	Trip Length (miles)	Vehicle Category	VMT	Onroad Travel Consumption (gal)
Eastern Ave-L2 Grade Separation_CTF8	45	0.0	18.50	LD Fleet Mix	0	0
Eastern Ave-L2 Grade Separation_CTF9	85	0.0	18.50	LD Fleet Mix	0	0
Passons Blvd-L2 Grade Separation_FD	326	30.0	18.50	LD Fleet Mix	180,930	5,888
Passons Blvd-L2 Grade Separation_CTF1	42	0.0	18.50	LD Fleet Mix	0	0
Passons Blvd-L2 Grade Separation_CTF2	87	0.0	18.50	LD Fleet Mix	0	0
Passons Blvd-L2 Grade Separation_CTF3	130	0.0	18.50	LD Fleet Mix	0	0
Passons Blvd-L2 Grade Separation_CTF4	326	0.0	18.50	LD Fleet Mix	0	0
Passons Blvd-L2 Grade Separation_CTF5	65	0.0	18.50	LD Fleet Mix	0	0
Passons Blvd-L2 Grade Separation_CTF6	65	0.0	18.50	LD Fleet Mix	0	0
Passons Blvd-L2 Grade Separation_CTF7	87	0.0	18.50	LD Fleet Mix	0	0
Sante Fe Springs-L2 Grade Separation_FD	326	30.0	18.50	LD Fleet Mix	180,930	5,888
Sante Fe Springs-L2 Grade Separation_CTF1	87	0.0	18.50	LD Fleet Mix	0	0
Sante Fe Springs-L2 Grade Separation_CTF2	326	0.0	18.50	LD Fleet Mix	0	0
Sante Fe Springs-L2 Grade Separation_CTF3	110	0.0	18.50	LD Fleet Mix	0	0
Sante Fe Springs-L2 Grade Separation_CTF4	132	0.0	18.50	LD Fleet Mix	0	0
Sante Fe Springs-L2 Grade Separation_CTF5	43	0.0	18.50	LD Fleet Mix	0	0
Sante Fe Springs-L2 Grade Separation_CTF6	87	0.0	18.50	LD Fleet Mix	0	0
Sante Fe Springs-L2 Grade Separation_CTF7	107	0.0	18.50	LD Fleet Mix	0	0
Telegraph Road-L2 Grade Separation_FD	390	30.0	18.50	LD Fleet Mix	216,450	7,044
Telegraph Road-L2 Grade Separation_CTF1	64	0.0	18.50	LD Fleet Mix	0	0
Telegraph Road-L2 Grade Separation_CTF2	85	0.0	18.50	LD Fleet Mix	0	0
Telegraph Road-L2 Grade Separation_CTF3	390	0.0	18.50	LD Fleet Mix	0	0
Telegraph Road-L2 Grade Separation_CTF4	43	0.0	18.50	LD Fleet Mix	0	0
Telegraph Road-L2 Grade Separation_CTF5	88	0.0	18.50	LD Fleet Mix	0	0
Telegraph Road-L2 Grade Separation_CTF6	217	0.0	18.50	LD Fleet Mix	0	0
Valley View Ave-L2 Grade Separation_FD	326	30.0	18.50	LD Fleet Mix	180,930	5,888
Valley View Ave-L2 Grade Separation_CTF1	44	0.0	18.50	LD Fleet Mix	0	0
Valley View Ave-L2 Grade Separation_CTF2	326	0.0	18.50	LD Fleet Mix	0	0
Valley View Ave-L2 Grade Separation_CTF3	43	0.0	18.50	LD Fleet Mix	0	0
Valley View Ave-L2 Grade Separation_CTF4	66	0.0	18.50	LD Fleet Mix	0	0
Valley View Ave-L2 Grade Separation_CTF5	64	0.0	18.50	LD Fleet Mix	0	0
Valley View Ave-L2 Grade Separation_CTF6	107	0.0	18.50	LD Fleet Mix	0	0
Valley View Ave-L2 Grade Separation_CTF7	151	0.0	18.50	LD Fleet Mix	0	0
Valley View Ave-L2 Grade Separation_CTF8	216	0.0	18.50	LD Fleet Mix	0	0
Valley View Ave-L2 Grade Separation_CTF9	43	0.0	18.50	LD Fleet Mix	0	0

Phase	Days/year	Vehicle Trips per day (In/Out)	Trip Length (miles)	Vehicle Category	VMT	Onroad Travel Consumption (gal)
Valley View Ave-L2 Grade Separation_CTF10	66	0.0	18.50	LD Fleet Mix	0	0
Beach Blvd-L2 Grade Separation_FD	261	30.0	18.50	LD Fleet Mix	144,855	4,714
Beach Blvd-L2 Grade Separation_CTF1	43	0.0	18.50	LD Fleet Mix	0	0
Beach Blvd-L2 Grade Separation_CTF2	87	0.0	18.50	LD Fleet Mix	0	0
Beach Blvd-L2 Grade Separation_CTF3	109	0.0	18.50	LD Fleet Mix	0	0
Beach Blvd-L2 Grade Separation_CTF4	261	0.0	18.50	LD Fleet Mix	0	0
Beach Blvd-L2 Grade Separation_CTF5	109	0.0	18.50	LD Fleet Mix	0	0
Beach Blvd-L2 Grade Separation_CTF6	109	0.0	18.50	LD Fleet Mix	0	0
Gilbert St-L2 Grade Separation_FD	390	30.0	18.50	LD Fleet Mix	216,450	7,044
Gilbert St-L2 Grade Separation_CTF1	43	0.0	18.50	LD Fleet Mix	0	0
Gilbert St-L2 Grade Separation_CTF2	86	0.0	18.50	LD Fleet Mix	0	0
Gilbert St-L2 Grade Separation_CTF3	130	0.0	18.50	LD Fleet Mix	0	0
Gilbert St-L2 Grade Separation_CTF4	390	0.0	18.50	LD Fleet Mix	0	0
Gilbert St-L2 Grade Separation_CTF5	216	0.0	18.50	LD Fleet Mix	0	0
Gilbert St-L2 Grade Separation_CTF6	132	0.0	18.50	LD Fleet Mix	0	0
Gilbert St-L2 Grade Separation_CTF7	218	0.0	19.50	LD Fleet Mix	0	0
Euclid St-L2 Grade Separation_FD	391	30.0	18.50	LD Fleet Mix	217,005	7,062
Euclid St-L2 Grade Separation_CTF1	262	0.0	18.50	LD Fleet Mix	0	0
Euclid St-L2 Grade Separation_CTF2	283	0.0	18.50	LD Fleet Mix	0	0
Euclid St-L2 Grade Separation_CTF3	326	0.0	18.50	LD Fleet Mix	0	0
Euclid St-L2 Grade Separation_CTF4	391	0.0	18.50	LD Fleet Mix	0	0
Euclid St-L2 Grade Separation_CTF5	43	0.0	18.50	LD Fleet Mix	0	0
Euclid St-L2 Grade Separation_CTF6	88	0.0	18.50	LD Fleet Mix	0	0
Euclid St-L2 Grade Separation_CTF7	43	0.0	18.50	LD Fleet Mix	0	0
Euclid St-L2 Grade Separation_CTF8	154	0.0	18.50	LD Fleet Mix	0	0
Lemon St-L2 Grade Separation_FD	650	40.0	18.50	LD Fleet Mix	481,000	15,654
Lemon St-L2 Grade Separation_CTF1	238	0.0	18.50	LD Fleet Mix	0	0
Lemon St-L2 Grade Separation_CTF2	650	0.0	18.50	LD Fleet Mix	0	0
Lemon St-L2 Grade Separation_CTF3	79	0.0	18.50	LD Fleet Mix	0	0
Lemon St-L2 Grade Separation_CTF4	261	0.0	18.50	LD Fleet Mix	0	0
Lemon St-L2 Grade Separation_CTF5	109	0.0	18.50	LD Fleet Mix	0	0
Lemon St-L2 Grade Separation_CTF6	132	0.0	18.50	LD Fleet Mix	0	0
Lemon St-L2 Grade Separation_CTF7	305	0.0	18.50	LD Fleet Mix	0	0
Atlantic Blvd-L3 Grade Separation_FD	328	40.0	18.50	LD Fleet Mix	242,720	7,899
Atlantic Blvd-L3 Grade Separation_CTF1	132	0.0	18.50	LD Fleet Mix	0	0

Phase	Days/year	Vehicle Trips per day (In/Out)	Trip Length (miles)	Vehicle Category	VMT	Onroad Travel Consumption (gal)
Atlantic Blvd-L3 Grade Separation_CTF2	154	0.0	18.50	LD Fleet Mix	0	0
Atlantic Blvd-L3 Grade Separation_CTF3	219	0.0	18.50	LD Fleet Mix	0	0
Atlantic Blvd-L3 Grade Separation_CTF4	328	0.0	18.50	LD Fleet Mix	0	0
Atlantic Blvd-L3 Grade Separation_CTF5	66	0.0	18.50	LD Fleet Mix	0	0
Atlantic Blvd-L3 Grade Separation_CTF6	86	0.0	18.50	LD Fleet Mix	0	0
Atlantic Blvd-L3 Grade Separation_CTF7	131	0.0	18.50	LD Fleet Mix	0	0
Atlantic Blvd-L3 Grade Separation_CTF8	174	0.0	18.50	LD Fleet Mix	0	0
Atlantic Blvd-L3 Grade Separation_CTF9	261	0.0	18.50	LD Fleet Mix	0	0
Rosemead Blvd-L3 Grade Separation_FD	521	40.0	18.50	LD Fleet Mix	385,540	12,547
Rosemead Blvd-L3 Grade Separation_CTF1	108	0.0	18.50	LD Fleet Mix	0	0
Rosemead Blvd-L3 Grade Separation_CTF2	521	0.0	18.50	LD Fleet Mix	0	0
Rosemead Blvd-L3 Grade Separation_CTF3	63	0.0	18.50	LD Fleet Mix	0	0
Rosemead Blvd-L3 Grade Separation_CTF4	108	0.0	18.50	LD Fleet Mix	0	0
Rosemead Blvd-L3 Grade Separation_CTF5	433	0.0	18.50	LD Fleet Mix	0	0
Rosemead Blvd-L3 Grade Separation_CTF6	66	0.0	18.50	LD Fleet Mix	0	0
Rosemead Blvd-L3 Grade Separation_CTF7	86	0.0	18.50	LD Fleet Mix	0	0
Rosemead Blvd-L3 Grade Separation_CTF8	413	0.0	18.50	LD Fleet Mix	0	0
Rosemead Blvd-L3 Grade Separation_CTF9	45	0.0	18.50	LD Fleet Mix	0	0
Rosemead Blvd-L3 Grade Separation_CTF10	260	0.0	18.50	LD Fleet Mix	0	0
Rosemead Blvd-L3 Grade Separation_CTF11	109	0.0	18.50	LD Fleet Mix	0	0
Rosemead Blvd-L3 Grade Separation_CTF12	22	0.0	18.50	LD Fleet Mix	0	0
Rosemead Blvd-L3 Grade Separation_CTF13	109	0.0	18.50	LD Fleet Mix	0	0
Rosemead Blvd-L3 Grade Separation_CTF14	43	0.0	18.50	LD Fleet Mix	0	0
Rosemead Blvd-L3 Grade Separation_CTF15	86	0.0	18.50	LD Fleet Mix	0	0
Rosemead Blvd-L3 Grade Separation_CTF16	66	0.0	18.50	LD Fleet Mix	0	0
Slauson Ave-L3 Grade Separation_FD	347	30.0	18.50	LD Fleet Mix	192,585	6,268
Slauson Ave-L3 Grade Separation_CTF1	109	0.0	18.50	LD Fleet Mix	0	0
Slauson Ave-L3 Grade Separation_CTF2	347	0.0	18.50	LD Fleet Mix	0	0
Slauson Ave-L3 Grade Separation_CTF3	65	0.0	18.50	LD Fleet Mix	0	0
Slauson Ave-L3 Grade Separation_CTF4	87	0.0	18.50	LD Fleet Mix	0	0
Slauson Ave-L3 Grade Separation_CTF5	109	0.0	18.50	LD Fleet Mix	0	0
Slauson Ave-L3 Grade Separation_CTF6	109	0.0	18.50	LD Fleet Mix	0	0
Slauson Ave-L3 Grade Separation_CTF7	173	0.0	18.50	LD Fleet Mix	0	0
Carmenita Rd-L3 Grade Separation_FD	521	40.0	18.50	LD Fleet Mix	385,540	12,547
Carmenita Rd-L3 Grade Separation_CTF1	109	0.0	18.50	LD Fleet Mix	0	0

Phase	Days/year	Vehicle Trips per day (In/Out)	Trip Length (miles)	Vehicle Category	VMT	Onroad Travel Consumption (gal)
Carmenita Rd-L3 Grade Separation_CTF2	196	0.0	18.50	LD Fleet Mix	0	0
Carmenita Rd-L3 Grade Separation_CTF3	218	0.0	18.50	LD Fleet Mix	0	0
Carmenita Rd-L3 Grade Separation_CTF4	521	0.0	18.50	LD Fleet Mix	0	0
Carmenita Rd-L3 Grade Separation_CTF5	195	0.0	18.50	LD Fleet Mix	0	0
Carmenita Rd-L3 Grade Separation_CTF6	304	0.0	18.50	LD Fleet Mix	0	0
Carmenita Rd-L3 Grade Separation_CTF7	66	0.0	18.50	LD Fleet Mix	0	0
Carmenita Rd-L3 Grade Separation_CTF8	87	0.0	18.50	LD Fleet Mix	0	0
Carmenita Rd-L3 Grade Separation_CTF9	368	0.0	18.50	LD Fleet Mix	0	0
Carmenita Rd-L3 Grade Separation_CTF10	108	0.0	18.50	LD Fleet Mix	0	0
Carmenita Rd-L3 Grade Separation_CTF11	195	0.0	18.50	LD Fleet Mix	0	0
Alondra Blvd-L3 Grade Separation_FD	652	60.0	18.50	LD Fleet Mix	723,720	23,553
Alondra Blvd-L3 Grade Separation_CTF1	153	0.0	18.50	LD Fleet Mix	0	0
Alondra Blvd-L3 Grade Separation_CTF2	217	0.0	18.50	LD Fleet Mix	0	0
Alondra Blvd-L3 Grade Separation_CTF3	261	0.0	18.50	LD Fleet Mix	0	0
Alondra Blvd-L3 Grade Separation_CTF4	327	0.0	18.50	LD Fleet Mix	0	0
Alondra Blvd-L3 Grade Separation_CTF5	587	0.0	18.50	LD Fleet Mix	0	0
Alondra Blvd-L3 Grade Separation_CTF6	652	0.0	18.50	LD Fleet Mix	0	0
Alondra Blvd-L3 Grade Separation_CTF7	44	0.0	18.50	LD Fleet Mix	0	0
Alondra Blvd-L3 Grade Separation_CTF8	174	0.0	18.50	LD Fleet Mix	0	0
Alondra Blvd-L3 Grade Separation_CTF9	217	0.0	18.50	LD Fleet Mix	0	0
Alondra Blvd-L3 Grade Separation_CTF10	478	0.0	18.50	LD Fleet Mix	0	0
Alondra Blvd-L3 Grade Separation_CTF11	565	0.0	18.50	LD Fleet Mix	0	0
Alondra Blvd-L3 Grade Separation_CTF12	43	0.0	18.50	LD Fleet Mix	0	0
Dale St-L3 Grade Separation_FD	326	40.0	18.50	LD Fleet Mix	241,240	7,851
Dale St-L3 Grade Separation_CTF1	21	0.0	18.50	LD Fleet Mix	0	0
Dale St-L3 Grade Separation_CTF2	43	0.0	18.50	LD Fleet Mix	0	0
Dale St-L3 Grade Separation_CTF3	86	0.0	18.50	LD Fleet Mix	0	0
Dale St-L3 Grade Separation_CTF4	109	0.0	18.50	LD Fleet Mix	0	0
Dale St-L3 Grade Separation_CTF5	174	0.0	18.50	LD Fleet Mix	0	0
Dale St-L3 Grade Separation_CTF6	218	0.0	18.50	LD Fleet Mix	0	0
Dale St-L3 Grade Separation_CTF7	217	0.0	18.50	LD Fleet Mix	0	0
Dale St-L3 Grade Separation_CTF8	110	0.0	18.50	LD Fleet Mix	0	0
Dale St-L3 Grade Separation_CTF9	77	0.0	18.50	LD Fleet Mix	0	0
Commonwealth Ave-L3 Grade Separation_FD	522	72.0	18.50	LD Fleet Mix	695,304	22,628
Commonwealth Ave-L3 Grade Separation_CTF1	132	0.0	18.50	LD Fleet Mix	0	0

Phase	Days/year	Vehicle Trips per day (In/Out)	Trip Length (miles)	Vehicle Category	VMT	Onroad Travel Consumption (gal)
Commonwealth Ave-L3 Grade Separation_CTF2	261	0.0	18.50	LD Fleet Mix	0	0
Commonwealth Ave-L3 Grade Separation_CTF3	522	0.0	18.50	LD Fleet Mix	0	0
Commonwealth Ave-L3 Grade Separation_CTF4	260	0.0	18.50	LD Fleet Mix	0	0
Commonwealth Ave-L3 Grade Separation_CTF5	152	0.0	18.50	LD Fleet Mix	0	0
Commonwealth Ave-L3 Grade Separation_CTF6	43	0.0	18.50	LD Fleet Mix	0	0
Commonwealth Ave-L3 Grade Separation_CTF7	195	0.0	18.50	LD Fleet Mix	0	0
Commonwealth Ave-L3 Grade Separation_CTF8	86	0.0	18.50	LD Fleet Mix	0	0
Commonwealth Ave-L3 Grade Separation_CTF9	85	0.0	18.50	LD Fleet Mix	0	0
Commonwealth Ave-L3 Grade Separation_CTF10	870	0.0	18.50	LD Fleet Mix	0	0
Commonwealth Ave-L3 Grade Separation_CTF11	43	0.0	18.50	LD Fleet Mix	0	0
Highland Ave-L3 Grade Separation_FD	651	50.0	18.50	LD Fleet Mix	602,175	19,598
Highland Ave-L3 Grade Separation_CTF1	152	0.0	18.50	LD Fleet Mix	0	0
Highland Ave-L3 Grade Separation_CTF2	130	0.0	18.50	LD Fleet Mix	0	0
Highland Ave-L3 Grade Separation_CTF3	260	0.0	18.50	LD Fleet Mix	0	0
Highland Ave-L3 Grade Separation_CTF4	651	0.0	18.50	LD Fleet Mix	0	0
Highland Ave-L3 Grade Separation_CTF5	630	0.0	18.50	LD Fleet Mix	0	0
Highland Ave-L3 Grade Separation_CTF6	66	0.0	18.50	LD Fleet Mix	0	0
Highland Ave-L3 Grade Separation_CTF7	132	0.0	18.50	LD Fleet Mix	0	0
Highland Ave-L3 Grade Separation_CTF8	154	0.0	18.50	LD Fleet Mix	0	0
Highland Ave-L3 Grade Separation_CTF9	174	0.0	18.50	LD Fleet Mix	0	0
Highland Ave-L3 Grade Separation_CTF10	130	0.0	18.50	LD Fleet Mix	0	0
Highland Ave-L3 Grade Separation_CTF11	261	0.0	18.50	LD Fleet Mix	0	0
Highland Ave-L3 Grade Separation_CTF12	217	0.0	18.50	LD Fleet Mix	0	0
Highland Ave-L3 Grade Separation_CTF13	174	0.0	18.50	LD Fleet Mix	0	0
Harbor Blvd-L3 Grade Separation_FD	522	40.0	18.50	LD Fleet Mix	386,280	12,571
Harbor Blvd-L3 Grade Separation_CTF1	217	0.0	18.50	LD Fleet Mix	0	0
Harbor Blvd-L3 Grade Separation_CTF2	522	0.0	18.50	LD Fleet Mix	0	0
Harbor Blvd-L3 Grade Separation_CTF3	173	0.0	18.50	LD Fleet Mix	0	0
Harbor Blvd-L3 Grade Separation_CTF4	217	0.0	18.50	LD Fleet Mix	0	0
Harbor Blvd-L3 Grade Separation_CTF5	173	0.0	18.50	LD Fleet Mix	0	0
Douglass Rd-L3 Grade Separation_FD	392	50.0	18.50	LD Fleet Mix	362,600	11,801
Douglass Rd-L3 Grade Separation_CTF1	131	0.0	18.50	LD Fleet Mix	0	0
Douglass Rd-L3 Grade Separation_CTF2	218	0.0	18.50	LD Fleet Mix	0	0
Douglass Rd-L3 Grade Separation_CTF3	262	0.0	18.50	LD Fleet Mix	0	0
Douglass Rd-L3 Grade Separation_CTF4	392	0.0	18.50	LD Fleet Mix	0	0

Phase	Days/year	Vehicle Trips per day (In/Out)	Trip Length (miles)	Vehicle Category	VMT	Onroad Travel Consumption (gal)
Douglass Rd-L3 Grade Separation_CTF5	434	0.0	18.50	LD Fleet Mix	0	0
Douglass Rd-L3 Grade Separation_CTF6	43	0.0	18.50	LD Fleet Mix	0	0
Douglass Rd-L3 Grade Separation_CTF7	174	0.0	18.50	LD Fleet Mix	0	0
Douglass Rd-L3 Grade Separation_CTF8	130	0.0	18.50	LD Fleet Mix	0	0
Douglass Rd-L3 Grade Separation_CTF9	175	0.0	18.50	LD Fleet Mix	0	0
Douglass Rd-L3 Grade Separation_CTF10	196	0.0	18.50	LD Fleet Mix	0	0
Douglass Rd-L3 Grade Separation_CTF11	64	0.0	18.50	LD Fleet Mix	0	0
Pioneer Blvd-L4 Grade Separation_FD	654	60.0	18.50	LD Fleet Mix	725,940	23,625
Pioneer Blvd-L4 Grade Separation_CTF1	262	0.0	18.50	LD Fleet Mix	0	0
Pioneer Blvd-L4 Grade Separation_CTF2	349	0.0	18.50	LD Fleet Mix	0	0
Pioneer Blvd-L4 Grade Separation_CTF3	654	0.0	18.50	LD Fleet Mix	0	0
Pioneer Blvd-L4 Grade Separation_CTF4	132	0.0	18.50	LD Fleet Mix	0	0
Pioneer Blvd-L4 Grade Separation_CTF5	153	0.0	18.50	LD Fleet Mix	0	0
Pioneer Blvd-L4 Grade Separation_CTF6	262	0.0	18.50	LD Fleet Mix	0	0
Pioneer Blvd-L4 Grade Separation_CTF7	131	0.0	18.50	LD Fleet Mix	0	0
Pioneer Blvd-L4 Grade Separation_CTF8	174	0.0	18.50	LD Fleet Mix	0	0
Pioneer Blvd-L4 Grade Separation_CTF9	479	0.0	18.50	LD Fleet Mix	0	0
Pioneer Blvd-L4 Grade Separation_CTF10	457	0.0	18.50	LD Fleet Mix	0	0
Pioneer Blvd-L4 Grade Separation_CTF11	130	0.0	18.50	LD Fleet Mix	0	0
Pioneer Blvd-L4 Grade Separation_CTF12	349	0.0	18.50	LD Fleet Mix	0	0
Pioneer Blvd-L4 Grade Separation_CTF13	175	0.0	18.50	LD Fleet Mix	0	0
Pioneer Blvd-L4 Grade Separation_CTF14	107	0.0	18.50	LD Fleet Mix	0	0
Pioneer Blvd-L4 Grade Separation_CTF15	44	0.0	18.50	LD Fleet Mix	0	0
Pioneer Blvd-L4 Grade Separation_CTF16	66	0.0	18.50	LD Fleet Mix	0	0
Norwalk Blvd-L4 Grade Separation_FD	782	72.0	18.50	LD Fleet Mix	1,041,624	33,899
Norwalk Blvd-L4 Grade Separation_CTF1	131	0.0	18.50	LD Fleet Mix	0	0
Norwalk Blvd-L4 Grade Separation_CTF2	152	0.0	18.50	LD Fleet Mix	0	0
Norwalk Blvd-L4 Grade Separation_CTF3	391	0.0	18.50	LD Fleet Mix	0	0
Norwalk Blvd-L4 Grade Separation_CTF4	542	0.0	18.50	LD Fleet Mix	0	0
Norwalk Blvd-L4 Grade Separation_CTF5	782	0.0	18.50	LD Fleet Mix	0	0
Norwalk Blvd-L4 Grade Separation_CTF6	131	0.0	18.50	LD Fleet Mix	0	0
Norwalk Blvd-L4 Grade Separation_CTF7	107	0.0	18.50	LD Fleet Mix	0	0
Norwalk Blvd-L4 Grade Separation_CTF8	130	0.0	18.50	LD Fleet Mix	0	0
Norwalk Blvd-L4 Grade Separation_CTF9	390	0.0	18.50	LD Fleet Mix	0	0
Norwalk Blvd-L4 Grade Separation_CTF10	130	0.0	18.50	LD Fleet Mix	0	0

Phase	Days/year	Vehicle Trips per day (In/Out)	Trip Length (miles)	Vehicle Category	VMT	Onroad Travel Consumption (gal)
Norwalk Blvd-L4 Grade Separation_CTF11	218	0.0	18.50	LD Fleet Mix	0	0
Los Nietos Rd-L4 Grade Separation_FD	782	72.0	18.50	LD Fleet Mix	1,041,624	33,899
Los Nietos Rd-L4 Grade Separation_CTF1	131	0.0	18.50	LD Fleet Mix	0	0
Los Nietos Rd-L4 Grade Separation_CTF2	152	0.0	18.50	LD Fleet Mix	0	0
Los Nietos Rd-L4 Grade Separation_CTF3	391	0.0	18.50	LD Fleet Mix	0	0
Los Nietos Rd-L4 Grade Separation_CTF4	542	0.0	18.50	LD Fleet Mix	0	0
Los Nietos Rd-L4 Grade Separation_CTF5	782	0.0	18.50	LD Fleet Mix	0	0
Los Nietos Rd-L4 Grade Separation_CTF6	131	0.0	18.50	LD Fleet Mix	0	0
Los Nietos Rd-L4 Grade Separation_CTF7	107	0.0	18.50	LD Fleet Mix	0	0
Los Nietos Rd-L4 Grade Separation_CTF8	130	0.0	18.50	LD Fleet Mix	0	0
Los Nietos Rd-L4 Grade Separation_CTF9	390	0.0	18.50	LD Fleet Mix	0	0
Los Nietos Rd-L4 Grade Separation_CTF10	130	0.0	18.50	LD Fleet Mix	0	0
Los Nietos Rd-L4 Grade Separation_CTF11	218	0.0	18.50	LD Fleet Mix	0	0
Cerritos Ave-L4 Grade Separation_FD	783	72.0	18.50	LD Fleet Mix	1,042,956	33,943
Cerritos Ave-L4 Grade Separation_CTF1	130	0.0	18.50	LD Fleet Mix	0	0
Cerritos Ave-L4 Grade Separation_CTF2	130	0.0	18.50	LD Fleet Mix	0	0
Cerritos Ave-L4 Grade Separation_CTF3	283	0.0	18.50	LD Fleet Mix	0	0
Cerritos Ave-L4 Grade Separation_CTF4	391	0.0	18.50	LD Fleet Mix	0	0
Cerritos Ave-L4 Grade Separation_CTF5	500	0.0	18.50	LD Fleet Mix	0	0
Cerritos Ave-L4 Grade Separation_CTF6	783	0.0	18.50	LD Fleet Mix	0	0
Cerritos Ave-L4 Grade Separation_CTF7	129	0.0	18.50	LD Fleet Mix	0	0
Cerritos Ave-L4 Grade Separation_CTF8	434	0.0	18.50	LD Fleet Mix	0	0
Cerritos Ave-L4 Grade Separation_CTF9	129	0.0	18.50	LD Fleet Mix	0	0
Cerritos Ave-L4 Grade Separation_CTF10	172	0.0	18.50	LD Fleet Mix	0	0
Cerritos Ave-L4 Grade Separation_CTF11	238	0.0	18.50	LD Fleet Mix	0	0
Cerritos Ave-L4 Grade Separation_CTF12	261	0.0	18.50	LD Fleet Mix	0	0
Cerritos Ave-L4 Grade Separation_CTF13	196	0.0	18.50	LD Fleet Mix	0	0
Cerritos Ave-L4 Grade Separation_CTF14	89	0.0	18.50	LD Fleet Mix	0	0
Cerritos Ave-L4 Grade Separation_CTF15	132	0.0	18.50	LD Fleet Mix	0	0
Cerritos Ave-L4 Grade Separation_CTF16	87	0.0	18.50	LD Fleet Mix	0	0
Cerritos Ave-L4 Grade Separation_CTF17	218	0.0	18.50	LD Fleet Mix	0	0
Cerritos Ave-L4 Grade Separation_CTF18	131	0.0	18.50	LD Fleet Mix	0	0
Lewis St-L4 Grade Separation_FD	390	72.0	18.50	LD Fleet Mix	519,480	16,906
Lewis St-L4 Grade Separation_CTF1	41	0.0	18.50	LD Fleet Mix	0	0
Lewis St-L4 Grade Separation_CTF2	260	0.0	18.50	LD Fleet Mix	0	0

Phase	Days/year	Vehicle Trips per day (In/Out)	Trip Length (miles)	Vehicle Category	VMT	Onroad Travel Consumption (gal)
Lewis St-L4 Grade Separation_CTF3	65	0.0	18.50	LD Fleet Mix	0	0
Lewis St-L4 Grade Separation_CTF4	175	0.0	18.50	LD Fleet Mix	0	0
Lewis St-L4 Grade Separation_CTF5	21	0.0	18.50	LD Fleet Mix	0	0
Lewis St-L4 Grade Separation_CTF6	44	0.0	18.50	LD Fleet Mix	0	0
Lewis St-L4 Grade Separation_CTF7	109	0.0	18.50	LD Fleet Mix	0	0
Lewis St-L4 Grade Separation_CTF8	261	0.0	18.50	LD Fleet Mix	0	0
Lewis St-L4 Grade Separation_CTF9	131	0.0	18.50	LD Fleet Mix	0	0
Lewis St-L4 Grade Separation_CTF10	163	0.0	18.50	LD Fleet Mix	0	0
Lewis St-L4 Grade Separation_CTF11	88	0.0	18.50	LD Fleet Mix	0	0
Lewis St-L4 Grade Separation_CTF12	240	0.0	18.50	LD Fleet Mix	0	0
Lewis St-L4 Grade Separation_CTF13	65	0.0	18.50	LD Fleet Mix	0	0
Lewis St-L4 Grade Separation_CTF14	195	0.0	18.50	LD Fleet Mix	0	0
Lewis St-L4 Grade Separation_CTF15	87	0.0	18.50	LD Fleet Mix	0	0
State College Blvd-L4 Grade Separation_FD	783	72.0	18.50	LD Fleet Mix	1,042,956	33,943
State College Blvd-L4 Grade Separation_CTF1	173	0.0	18.50	LD Fleet Mix	0	0
State College Blvd-L4 Grade Separation_CTF2	523	0.0	18.50	LD Fleet Mix	0	0
State College Blvd-L4 Grade Separation_CTF3	783	0.0	18.50	LD Fleet Mix	0	0
State College Blvd-L4 Grade Separation_CTF4	412	0.0	18.50	LD Fleet Mix	0	0
State College Blvd-L4 Grade Separation_CTF5	197	0.0	18.50	LD Fleet Mix	0	0
State College Blvd-L4 Grade Separation_CTF6	219	0.0	18.50	LD Fleet Mix	0	0
State College Blvd-L4 Grade Separation_CTF7	153	0.0	18.50	LD Fleet Mix	0	0
State College Blvd-L4 Grade Separation_CTF8	108	0.0	18.50	LD Fleet Mix	0	0
State College Blvd-L4 Grade Separation_CTF9	217	0.0	18.50	LD Fleet Mix	0	0
State College Blvd-L4 Grade Separation_CTF10	304	0.0	18.50	LD Fleet Mix	0	0
State College Blvd-L4 Grade Separation_CTF11	261	0.0	18.50	LD Fleet Mix	0	0
State College Blvd-L4 Grade Separation_CTF12	129	0.0	18.50	LD Fleet Mix	0	0
State College Blvd-L4 Grade Separation_CTF13	129	0.0	18.50	LD Fleet Mix	0	0
State College Blvd-L4 Grade Separation_CTF14	239	0.0	18.50	LD Fleet Mix	0	0
State College Blvd-L4 Grade Separation_CTF15	87	0.0	18.50	LD Fleet Mix	0	0
Katella Ave-L4 Grade Separation_FD	651	60.0	18.50	LD Fleet Mix	722,610	23,517
Katella Ave-L4 Grade Separation_CTF1	85	0.0	18.50	LD Fleet Mix	0	0
Katella Ave-L4 Grade Separation_CTF2	260	0.0	18.50	LD Fleet Mix	0	0
Katella Ave-L4 Grade Separation_CTF3	390	0.0	18.50	LD Fleet Mix	0	0
Katella Ave-L4 Grade Separation_CTF4	651	0.0	18.50	LD Fleet Mix	0	0
Katella Ave-L4 Grade Separation_CTF5	175	0.0	18.50	LD Fleet Mix	0	0

Phase	Days/year	Vehicle Trips per day (In/Out)	Trip Length (miles)	Vehicle Category	VMT	Onroad Travel Consumption (gal)
Katella Ave-L4 Grade Separation_CTF6	130	0.0	18.50	LD Fleet Mix	0	0
Katella Ave-L4 Grade Separation_CTF7	195	0.0	18.50	LD Fleet Mix	0	0
Katella Ave-L4 Grade Separation_CTF8	65	0.0	18.50	LD Fleet Mix	0	0
Katella Ave-L4 Grade Separation_CTF9	87	0.0	18.50	LD Fleet Mix	0	0
Katella Ave-L4 Grade Separation_CTF10	65	0.0	18.50	LD Fleet Mix	0	0
Redondo Junction-L1 Water Crossing_FD	87	32.0	18.50	LD Fleet Mix	51,504	1,676
Redondo Junction-L1 Water Crossing_CTF1	87	0.0	18.50	LD Fleet Mix	0	0
Coyote Creek-L1Water Crossing_FD	131	32.0	18.50	LD Fleet Mix	77,552	2,524
Coyote Creek-L1Water Crossing_CTF1	66	0.0	18.50	LD Fleet Mix	0	0
Coyote Creek-L1Water Crossing_CTF2	131	0.0	18.50	LD Fleet Mix	0	0
Coyote Creek-L1Water Crossing_CTF3	21	0.0	18.50	LD Fleet Mix	0	0
Carbon Creek-L1 Water Crossing_FD	89	32.0	18.50	LD Fleet Mix	52,688	1,715
Carbon Creek-L1 Water Crossing_CTF1	89	0.0	18.50	LD Fleet Mix	0	0
San Gabriel River-L2 Water Crossing_FD	457	40.0	18.50	LD Fleet Mix	338,180	11,006
San Gabriel River-L2 Water Crossing_CTF1	65	0.0	18.50	LD Fleet Mix	0	0
San Gabriel River-L2 Water Crossing_CTF2	87	0.0	18.50	LD Fleet Mix	0	0
San Gabriel River-L2 Water Crossing_CTF3	108	0.0	18.50	LD Fleet Mix	0	0
San Gabriel River-L2 Water Crossing_CTF4	152	0.0	18.50	LD Fleet Mix	0	0
San Gabriel River-L2 Water Crossing_CTF5	347	0.0	18.50	LD Fleet Mix	0	0
San Gabriel River-L2 Water Crossing_CTF6	435	0.0	18.50	LD Fleet Mix	0	0
San Gabriel River-L2 Water Crossing_CTF7	457	0.0	18.50	LD Fleet Mix	0	0
San Gabriel River-L2 Water Crossing_CTF8	110	0.0	18.50	LD Fleet Mix	0	0
San Gabriel River-L2 Water Crossing_CTF9	175	0.0	18.50	LD Fleet Mix	0	0
Rio Hondo SG-L3 Water Crossing_FD	325	30.0	18.50	LD Fleet Mix	180,375	5,870
Rio Hondo SG-L3 Water Crossing_CTF1	150	0.0	18.50	LD Fleet Mix	0	0
Rio Hondo SG-L3 Water Crossing_CTF2	216	0.0	18.50	LD Fleet Mix	0	0
Rio Hondo SG-L3 Water Crossing_CTF3	325	0.0	18.50	LD Fleet Mix	0	0
Rio Hondo River-L3 Water Crossing_FD	325	40.0	18.50	LD Fleet Mix	240,500	7,827
Rio Hondo River-L3 Water Crossing_CTF1	150	0.0	18.50	LD Fleet Mix	0	0
Rio Hondo River-L3 Water Crossing_CTF2	325	0.0	18.50	LD Fleet Mix	0	0
Rio Hondo River-L3 Water Crossing_CTF3	65	0.0	18.50	LD Fleet Mix	0	0
Rio Hondo River-L3 Water Crossing_CTF4	86	0.0	18.50	LD Fleet Mix	0	0
Rio Hondo River-L3 Water Crossing_CTF5	108	0.0	18.50	LD Fleet Mix	0	0
Rio Hondo River-L3 Water Crossing_CTF6	173	0.0	18.50	LD Fleet Mix	0	0
Coyote Creek-N Fork-L3 Water Crossing_FD	260	40.0	18.50	LD Fleet Mix	192,400	6,262

Phase	Days/year	Vehicle Trips per day (In/Out)	Trip Length (miles)	Vehicle Category	VMT	Onroad Travel Consumption (gal)
Coyote Creek-N Fork-L3 Water Crossing_CTF1	85	0.0	18.50	LD Fleet Mix	0	0
Coyote Creek-N Fork-L3 Water Crossing_CTF2	108	0.0	18.50	LD Fleet Mix	0	0
Coyote Creek-N Fork-L3 Water Crossing_CTF3	260	0.0	18.50	LD Fleet Mix	0	0
Coyote Creek-N Fork-L3 Water Crossing_CTF4	455	0.0	18.50	LD Fleet Mix	0	0
Coyote Creek-N Fork-L3 Water Crossing_CTF5	63	0.0	18.50	LD Fleet Mix	0	0
Coyote Creek-N Fork-L3 Water Crossing_CTF6	173	0.0	18.50	LD Fleet Mix	0	0
Coyote Creek-N Fork-L3 Water Crossing_CTF7	218	0.0	18.50	LD Fleet Mix	0	0
La Mirada Creek-L3 Water Crossing_FD	260	40.0	18.50	LD Fleet Mix	192,400	6,262
La Mirada Creek-L3 Water Crossing_CTF1	87	0.0	18.50	LD Fleet Mix	0	0
La Mirada Creek-L3 Water Crossing_CTF2	130	0.0	18.50	LD Fleet Mix	0	0
La Mirada Creek-L3 Water Crossing_CTF3	260	0.0	18.50	LD Fleet Mix	0	0
La Mirada Creek-L3 Water Crossing_CTF4	43	0.0	18.50	LD Fleet Mix	0	0
Brea Creek-L3 Water Crossing_FD	325	40.0	18.50	LD Fleet Mix	240,500	7,827
Brea Creek-L3 Water Crossing_CTF1	42	0.0	18.50	LD Fleet Mix	0	0
Brea Creek-L3 Water Crossing_CTF2	108	0.0	18.50	LD Fleet Mix	0	0
Brea Creek-L3 Water Crossing_CTF3	130	0.0	18.50	LD Fleet Mix	0	0
Brea Creek-L3 Water Crossing_CTF4	217	0.0	18.50	LD Fleet Mix	0	0
Brea Creek-L3 Water Crossing_CTF5	43	0.0	18.50	LD Fleet Mix	0	0
Brea Creek-L3 Water Crossing_CTF6	43	0.0	18.50	LD Fleet Mix	0	0
Brea Creek-L3 Water Crossing_CTF7	175	0.0	18.50	LD Fleet Mix	0	0
Brea Creek-L3 Water Crossing_CTF8	392	0.0	18.50	LD Fleet Mix	0	0
Redondo Jct TPSS_FD	261	40.0	18.50	LD Fleet Mix	193,140	6,286
Redondo Jct TPSS_CTF1	216	0.0	18.50	LD Fleet Mix	0	0
Redondo Jct TPSS_CTF2	44	0.0	18.50	LD Fleet Mix	0	0
Redondo Jct TPSS_CTF3	261	0.0	18.50	LD Fleet Mix	0	0
Redondo Jct TPSS_CTF4	132	0.0	18.50	LD Fleet Mix	0	0
Redondo Jct TPSS_CTF5	20	0.0	18.50	LD Fleet Mix	0	0
Redondo Jct TPSS_CTF6	22	0.0	18.50	LD Fleet Mix	0	0
Anaheim TPSS_FD	239	40.0	18.50	LD Fleet Mix	176,860	5,756
Anaheim TPSS_CTF1	216	0.0	18.50	LD Fleet Mix	0	0
Anaheim TPSS_CTF2	44	0.0	18.50	LD Fleet Mix	0	0
Anaheim TPSS_CTF3	261	0.0	18.50	LD Fleet Mix	0	0
Anaheim TPSS_CTF4	22	0.0	18.50	LD Fleet Mix	0	0
Anaheim TPSS_CTF5	43	0.0	18.50	LD Fleet Mix	0	0
Anaheim TPSS_CTF6	132	0.0	18.50	LD Fleet Mix	0	0

Phase	Days/year	Vehicle Trips per day (In/Out)	Trip Length (miles)	Vehicle Category	VMT	Onroad Travel Consumption (gal)
Anaheim TPSS_CTF7	239	0.0	18.50	LD Fleet Mix	0	0
Anaheim TPSS_CTF8	20	0.0	18.50	LD Fleet Mix	0	0
Anaheim TPSS_CTF9	22	0.0	18.50	LD Fleet Mix	0	0
Paralleling Station #2_FD	262	40.0	18.50	LD Fleet Mix	193,880	6,310
Paralleling Station #2_CTF1	23	0.0	18.50	LD Fleet Mix	0	0
Paralleling Station #2_CTF2	108	0.0	18.50	LD Fleet Mix	0	0
Paralleling Station #2_CTF3	261	0.0	18.50	LD Fleet Mix	0	0
Paralleling Station #2_CTF4	22	0.0	18.50	LD Fleet Mix	0	0
Paralleling Station #2_CTF5	20	0.0	18.50	LD Fleet Mix	0	0
Paralleling Station #2_CTF6	22	0.0	18.50	LD Fleet Mix	0	0
Paralleling Station #4_FD	261	40.0	18.50	LD Fleet Mix	193,140	6,286
Paralleling Station #4_CTF1	23	0.0	18.50	LD Fleet Mix	0	0
Paralleling Station #4_CTF2	108	0.0	18.50	LD Fleet Mix	0	0
Paralleling Station #4_CTF3	261	0.0	18.50	LD Fleet Mix	0	0
Paralleling Station #4_CTF4	22	0.0	18.50	LD Fleet Mix	0	0
Paralleling Station #4_CTF5	20	0.0	18.50	LD Fleet Mix	0	0
Paralleling Station #4_CTF6	22	0.0	18.50	LD Fleet Mix	0	0
Switching Station_FD	129	40.0	18.50	LD Fleet Mix	95,460	3,107
Switching Station_CTF1	22	0.0	18.50	LD Fleet Mix	0	0
Switching Station_CTF2	129	0.0	18.50	LD Fleet Mix	0	0
Switching Station_CTF3	20	0.0	18.50	LD Fleet Mix	0	0
Switching Station_CTF4	44	0.0	18.50	LD Fleet Mix	0	0
Switching Station_CTF5	22	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #1_FD	66	40.0	18.50	LD Fleet Mix	48,840	1,589
Communciation Tower #1_CTF1	23	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #1_CTF2	66	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #1_CTF3	22	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #3_FD	64	40.0	18.50	LD Fleet Mix	47,360	1,541
Communciation Tower #3_CTF1	42	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #3_CTF2	64	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #3_CTF3	21	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #3_CTF4	22	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #5_FD	66	40.0	18.50	LD Fleet Mix	48,840	1,589
Communciation Tower #5_CTF1	22	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #5_CTF2	66	0.0	18.50	LD Fleet Mix	0	0

Phase	Days/year	Vehicle Trips per day (In/Out)	Trip Length (miles)	Vehicle Category	VMT	Onroad Travel Consumption (gal)
Communciation Tower #5_CTF3	23	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #5_CTF4	21	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #7_FD	86	40.0	18.50	LD Fleet Mix	63,640	2,071
Communciation Tower #7_CTF1	43	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #7_CTF2	66	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #7_CTF3	86	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #7_CTF4	65	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #7_CTF5	23	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #7_CTF6	20	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #9_FD	86	40.0	18.50	LD Fleet Mix	63,640	2,071
Communciation Tower #9_CTF1	43	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #9_CTF2	66	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #9_CTF3	86	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #9_CTF4	65	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #9_CTF5	23	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #9_CTF6	20	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #11_FD	66	40.0	18.50	LD Fleet Mix	48,840	1,589
Communciation Tower #11_CTF1	22	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #11_CTF2	66	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #11_CTF3	23	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #11_CTF4	21	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #13_FD	64	40.0	18.50	LD Fleet Mix	47,360	1,541
Communciation Tower #13_CTF1	42	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #13_CTF2	64	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #13_CTF3	21	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #13_CTF4	22	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #15_FD	66	40.0	18.50	LD Fleet Mix	48,840	1,589
Communciation Tower #15_CTF1	23	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #15_CTF2	66	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #15_CTF3	22	0.0	18.50	LD Fleet Mix	0	0
LMF Support Structures_FD	326	40.0	18.50	LD Fleet Mix	241,240	7,851
LMF Support Structures_CTF1	130	0.0	18.50	LD Fleet Mix	0	0
LMF Support Structures_CTF2	261	0.0	18.50	LD Fleet Mix	0	0
LMF Support Structures_CTF3	326	0.0	18.50	LD Fleet Mix	0	0
LMF Support Structures_CTF4	152	0.0	18.50	LD Fleet Mix	0	0

Phase	Days/year	Vehicle Trips per day (In/Out)	Trip Length (miles)	Vehicle Category	VMT	Onroad Travel Consumption (gal)
LMF Support Structures_CTF5	142	0.0	18.50	LD Fleet Mix	0	0
LMF Support Structures_CTF6	66	0.0	18.50	LD Fleet Mix	0	0
LMF Support Structures_CTF7	66	0.0	18.50	LD Fleet Mix	0	0
LMF Support Structures_CTF8	110	0.0	18.50	LD Fleet Mix	0	0
26th St HSR LMF_Utility Relocation	65	40.0	18.50	LD Fleet Mix	48,100	1,565
26th St HSR LMF_Ballast Installation	196	40.0	18.50	LD Fleet Mix	145,040	4,720
Hobart Yard Improvements_FD	861	60.0	18.50	LD Fleet Mix	955,710	31,103
Hobart Yard Improvements_CTF1	77	0.0	18.50	LD Fleet Mix	0	0
Hobart Yard Improvements_CTF2	103	0.0	18.50	LD Fleet Mix	0	0
Hobart Yard Improvements_CTF3	155	0.0	18.50	LD Fleet Mix	0	0
Hobart Yard Improvements_CTF4	861	0.0	18.50	LD Fleet Mix	0	0
Hobart Yard Improvements_CTF5	50	0.0	18.50	LD Fleet Mix	0	0
Hobart Yard Improvements_CTF6	262	0.0	18.50	LD Fleet Mix	0	0
Hobart Yard Improvements_CTF7	235	0.0	18.50	LD Fleet Mix	0	0
Hobart Yard Improvements_CTF8	208	0.0	18.50	LD Fleet Mix	0	0
Hobart Yard Improvements_CTF9	392	0.0	18.50	LD Fleet Mix	0	0
Hobart Yard Improvements_CTF10	103	0.0	18.50	LD Fleet Mix	0	0
Hobart Yard Improvements_CTF11	77	0.0	18.50	LD Fleet Mix	0	0
Hobart Yard Improvements_CTF12	208	0.0	18.50	LD Fleet Mix	0	0
Commerce Yard Improvements_Utility Relocation	367	60.0	18.50	LD Fleet Mix	407,370	13,258
Commerce Yard Improvements_CTF1	53	0.0	18.50	LD Fleet Mix	0	0
Commerce Yard Improvements_CTF2	158	0.0	18.50	LD Fleet Mix	0	0
Commerce Yard Improvements_CTF3	236	0.0	18.50	LD Fleet Mix	0	0
Commerce Yard Improvements_CTF4	314	0.0	18.50	LD Fleet Mix	0	0
Commerce Yard Improvements_CTF5	367	0.0	18.50	LD Fleet Mix	0	0
Commerce Yard Improvements_CTF6	314	0.0	18.50	LD Fleet Mix	0	0
Commerce Yard Improvements_CTF7	105	0.0	18.50	LD Fleet Mix	0	0
Commerce Metrolink Stn_FD	261	30.0	18.50	LD Fleet Mix	144,855	4,714
Commerce Metrolink Stn_CTF1	64	0.0	18.50	LD Fleet Mix	0	0
Commerce Metrolink Stn_CTF2	261	0.0	18.50	LD Fleet Mix	0	0
Commerce Metrolink Stn_CTF3	65	0.0	18.50	LD Fleet Mix	0	0
Commerce Metrolink Stn_CTF4	66	0.0	18.50	LD Fleet Mix	0	0
Commerce Metrolink Stn_CTF5	44	0.0	18.50	LD Fleet Mix	0	0
Norwalk-SFS Metrolink Stn_FD	651	30.0	18.50	LD Fleet Mix	361,305	11,759
Norwalk-SFS Metrolink Stn_CTF1	65	0.0	18.50	LD Fleet Mix	0	0

Phase	Days/year	Vehicle Trips per day (In/Out)	Trip Length (miles)	Vehicle Category	VMT	Onroad Travel Consumption (gal)
Norwalk-SFS Metrolink Stn_CTF2	390	0.0	18.50	LD Fleet Mix	0	0
Norwalk-SFS Metrolink Stn_CTF3	42	0.0	18.50	LD Fleet Mix	0	0
Norwalk-SFS Metrolink Stn_CTF4	22	0.0	18.50	LD Fleet Mix	0	0
Buena Park Metrolink Stn_FD	325	30.0	18.50	LD Fleet Mix	180,375	5,870
Buena Park Metrolink Stn_CTF1	65	0.0	18.50	LD Fleet Mix	0	0
Buena Park Metrolink Stn_CTF2	325	0.0	18.50	LD Fleet Mix	0	0
Buena Park Metrolink Stn_CTF3	66	0.0	18.50	LD Fleet Mix	0	0
Buena Park Metrolink Stn_CTF4	88	0.0	18.50	LD Fleet Mix	0	0
Buena Park Metrolink Stn_CTF5	23	0.0	18.50	LD Fleet Mix	0	0
ARTIC Station_FD	783	40.0	18.50	LD Fleet Mix	579,420	18,857
ARTIC Station_CTF1	151	0.0	18.50	LD Fleet Mix	0	0
ARTIC Station_CTF2	174	0.0	18.50	LD Fleet Mix	0	0
ARTIC Station_CTF3	413	0.0	18.50	LD Fleet Mix	0	0
ARTIC Station_CTF4	783	0.0	18.50	LD Fleet Mix	0	0
ARTIC Station_CTF5	107	0.0	18.50	LD Fleet Mix	0	0
ARTIC Station_CTF6	152	0.0	18.50	LD Fleet Mix	0	0
ARTIC Station_CTF7	368	0.0	18.50	LD Fleet Mix	0	0
ARTIC Station_CTF8	43	0.0	18.50	LD Fleet Mix	0	0
ARTIC Station_CTF9	66	0.0	18.50	LD Fleet Mix	0	0
ARTIC Station_CTF10	20	0.0	18.50	LD Fleet Mix	0	0
ARTIC Station_CTF11	151	0.0	18.50	LD Fleet Mix	0	0
Fullerton Metrolink Stn_FD	283	30.0	18.50	LD Fleet Mix	157,065	5,112
Fullerton Metrolink Stn_CTF1	87	0.0	18.50	LD Fleet Mix	0	0
Fullerton Metrolink Stn_CTF2	64	0.0	18.50	LD Fleet Mix	0	0
Fullerton Metrolink Stn_CTF3	44	0.0	18.50	LD Fleet Mix	0	0
Fullerton Metrolink Stn_CTF4	110	0.0	18.50	LD Fleet Mix	0	0
Fullerton Metrolink Stn_CTF5	65	0.0	19.50	LD Fleet Mix	0	0
Ballast Delivery_OutsideCA_2033	1	0.0	18.50	LD Fleet Mix	0	0
Ballast Delivery_OutsideCA_2034	1	0.0	18.50	LD Fleet Mix	0	0
Ballast Delivery_OutsideCA_2035	1	0.0	18.50	LD Fleet Mix	0	0
Ballast Delivery_OutsideCA_2036	1	0.0	18.50	LD Fleet Mix	0	0
Ballast Delivery_OutsideCA_2037	1	0.0	18.50	LD Fleet Mix	0	0
Ballast Delivery_MDAB_2033	1	0.0	18.50	LD Fleet Mix	0	0
Ballast Delivery_MDAB_2034	1	0.0	18.50	LD Fleet Mix	0	0
Ballast Delivery_MDAB_2035	1	0.0	18.50	LD Fleet Mix	0	0

Construction Energy Analysis
Alt A - No HSR Station

Phase	Days/year	Vehicle Trips per day (In/Out)	Trip Length (miles)	Vehicle Category	VMT	Onroad Travel Consumption (gal)
Ballast Delivery_MDAB_2036	1	0.0	18.50	LD Fleet Mix	0	0
Ballast Delivery_MDAB_2037	1	0.0	18.50	LD Fleet Mix	0	0
Ballast Delivery_SCAB_2033	1	0.0	18.50	LD Fleet Mix	0	0
Ballast Delivery_SCAB_2034	1	0.0	18.50	LD Fleet Mix	0	0
Ballast Delivery_SCAB_2035	1	0.0	18.50	LD Fleet Mix	0	0
Ballast Delivery_SCAB_2036	1	0.0	18.50	LD Fleet Mix	0	0
Ballast Delivery_SCAB_2037	1	0.0	18.50	LD Fleet Mix	0	0
Ballast Dumping_SCAB_2033	1	0.0	18.50	LD Fleet Mix	0	0
Ballast Dumping_SCAB_2034	1	0.0	18.50	LD Fleet Mix	0	0
Ballast Dumping_SCAB_2035	1	0.0	18.50	LD Fleet Mix	0	0
Ballast Dumping_SCAB_2036	1	0.0	18.50	LD Fleet Mix	0	0
Ballast Dumping_SCAB_2037	1	0.0	18.50	LD Fleet Mix	0	0
				Total VMT:	**25,980,142**	**845,514**

1. CARB, EMFAC2021 (SCAQMD; LDA/LDT1/LDT2; Annual; CY 2031; Aggregate MY; Aggregate Speed,GAS)
2. Department of Energy, Fact #861, 2015 Idle Fuel Consumption for Selected Gasoline and Diesel Vehicles, February 23, 2015.
https://www.energy.gov/eere/vehicles/fact-861-february-23-2015-idle-fuel-consumption-selected-gasoline-and-diesel-vehicles

Idling Fuel Consumption Factors

VEHICLE TYPE	FUEL TYPE	ENGINE SIZE	GROSS VEHICLE WEIGHT	IDLING FUEL USE
		(LITER)	(GVW) (LBS)	(GAL/HR WITH NO LOAD)
Compact Sedan	Gas	2	-	0.16
Large Sedan	Gas	4.6	-	0.39
Compact Sedan	Diesel	2	-	0.17
Medium Heavy Truck	Gas	7-May	19,700-26,000	0.84
Delivery Truck	Diesel	-	19,500	0.84
Tow Truck	Diesel	-	26,000	0.59
Medium Heavy Truck	Diesel	10-Jun	23,000-33,000	0.44
Transit Bus	Diesel	-	30,000	0.97
Combination Truck	Diesel	-	32,000	0.49
Bucket Truck	Diesel	-	37,000	0.9
Tractor-Semitrailer	Diesel	-	80,000	0.64

Department of Energy, Fact #861, 2015 Idle Fuel Consumption for Selected Gasoline and Diesel Vehicles, February 23, 2015.
https://www.energy.gov/eere/vehicles/fact-861-february-23-2015-idle-fuel-consumption-selected-gasoline-and-diesel-vehicles

This tool provides a quick estimation of the fuel use and emissions for your equipment in a specific year. The results may slightly differ from those from the official inventory model.

Instructions:

Enter the horsepwer, model year, and other details about your equipment in the Input box.

Make sure to update the ***load factor*** for your equipment using the lookup table.

The ***Output*** box gives a quick estimation of the fuel use, NOx, PM, and THC emission for your equipment.

Input	Input Engine Here
Horsepower (hp)	150
Model year	1985
Calendar year	2015
Activity (annual hours)	200
Accumulated hours on equipment (estimate using annual-hours*age if you only know the age of the equipment)	1000
Load factor (check the lookup table)	0.48

Intermediate steps

HPbin	175
NOx_EF0	11.00
NOx_DR	2.5E-04
NOx_FCF	0.930
PM_EF0	0.55
PM_DR	4.0E-05
PM_FCF	0.71
THC_EF0	0.88
THC_DR	4.1E-05
THC_FCF	0.90
NOx_EF (g/hp-hr)	10.47
PM_EF (g/hp-hr)	0.42
THC_EF (g/hp-hr)	0.83
CO2_EF (kg/gallon-diesel)*	10.21
BSFC (lb/hp-hr)	0.367
Unit conversion (lb/gallon)	7.109

*Reference: www.epa.gov/sites/production/files/2015-

Results	
Fuel Used (gallon)	743
NOx Emissions (kg)	150.7
PM Emissions (kg)	6.0
THC Emissions (kg)	11.9
CO2 Emissions (kg)	7590.2
NOx Emission Factor (including deterioration and fuel correction factor): gram/bhp-hr	10.47
PM Emission Factor (including deterioration and fuel correction factor): gram/bhp-hr	0.42
THC Emission Factor (including deterioration and fuel correction factor): gram/ bhp-hr	0.83

Load Factor Lookup Table

Equipment Category	Equipment Type	Details	Load Factor
Agriculture equipment	Agricultural tractors		0.48
	Combine harvesters		0.44
	Forage & silage harvesters		0.44
	Cotton pickers		0.44
	Nut harvester		0.44
	Other harvesters		0.44
	Balers (self propelled)		0.50
	Bale wagons (self propelled)		0.50
	Swathers/windrowers/hay conditioners		0.48
	Hay Squeeze/Stack retriever		0.42
	Sprayers/Spray rigs		0.42
	Construction equipment		0.40
	Other non-mobile		0.48
	Forklifts		0.40
	Atvs		0.40
	Others		0.40
Portable equipment	All portable equipment		0.31
Cargo Handling Equipment	Construction equipment		0.55
	Container handling equipment		0.59
	Forklift		0.30
	Other general industrial equipment		0.51
	Rtg crane		0.20
	Yard tractor		0.39
Transport Refrigeration Units (TRU)	TRU on trailers	25 HP and over, MY2012 and Older	0.46
	TRU on trailers	25 HP and over, MY2013 and Newer	0.38
	TRU on trailers	23 HP and Over, below 25 HP, All years	0.46
	TRU on trucks	Below 23 HP, All Model years	0.56
	TRU on railcars	25 HP and over, MY2012 and Older	0.33
	TRU on railcars	25 HP and over, MY2013 and Newer	0.27
	TRU on railcars	Below 25 HP, All Model years	0.33
	TRU with generators	25 HP and over, MY2012 and Older	0.46
	TRU with generators	25 HP and Over, MY2013 and Newer	0.38
	TRU with generators	23 HP and Over, below 25 HP, All Model Years	0.46

[redacted]

Equipment Category	Equipment Type	Details	Load Factor
Ground Support Equipment	Passenger Stand		0.40
	A/C Tug Narrow Body		0.54
	A/C Tug Wide Body		0.54
	Baggage Tug		0.37
	Belt Loader		0.34
	Bobtail		0.37
	Cargo Loader		0.34
	Cargo Tractor		0.36
	Forklift (GSE)		0.20
	Lift (GSE)		0.34
	Other GSE		0.34
Construction and Industrial Equipment	Cranes		0.29
	Crawler Tractors		0.43
	Excavators		0.38
	Graders		0.41
	Off-Highway Tractors		0.44
	Off-Highway Trucks		0.38
	Other Construction Equipment		0.42
	Pavers		0.42
	Paving Equipment		0.36
	Rollers		0.38
	Rough Terrain Forklifts		0.40
	Rubber Tired Dozers		0.40
	Rubber Tired Loaders		0.36
	Scrapers		0.48
	Skid Steer Loaders		0.37
	Surfacing Equipment		0.30
	Tractors/Loaders/Backhoes		0.37
	Trenchers		0.50
	Aerial Lifts		0.31
	Forklifts		0.20
	Other General Industrial Equipment		0.34
	Other Material Handling Equipment		0.40
	Sweepers/Scrubbers		0.46
Oil and Drill Rigs	Drill Rig (Mobile)		0.50
	Workover Rig (Mobile)		0.50
	Bore/Drill Rigs		0.50

Worker Fuel Consumption Factor **Year: 2031**

Vehicle Category	VMT (mi/day)	Fuel Consumption (1000gal/day)	Fuel Consumption Factor (gal/mi)	Fuel Economy (mi/gal)	Fleet Mix	Fuel Consumption Factor (gal/mi)
LDA	202073957.9	6073.25	0.030	33.27	60%	0.033
LDT1	16644309.53	603.52	0.036	27.58	5%	
LDT2	116261058.6	4225.02	0.036	27.52	35%	

Source: EMFAC2021, **Output:** Onroad Emissions, **Model Version:** EMFAC2021 v1.0.2, **Air District:** SCAQMD, **Vehicle Categories:** EMFAC2007, **Model Year:** Aggregate, **Speed:** Aggregate, **Fuel:** All, **Output Unit:** tons/operation day

2031

Vehicle Category	VMT (miles/day)	Fuel Consumption (1000 gal/day)	Fuel Consumption Factor (gal/mi)	Fuel Economy (mi/gal)	Fleet Mix	Fuel Consumption Factor (gal/mi)
HHDT	14849543.74	2206.9	0.149	6.73	75%	0.139
MHDT	4888756.779	529.9	0.108	9.23	25%	

Source: EMFAC2021, **Output:** Onroad Emissions, **Model Version:** EMFAC2021 v1.0.2, **Air District:** SCAQMD, **Vehicle Categories:** EMFAC2007, **Model Year:** Aggregate, **Speed:** Aggregate, **Fuel:** All, **Output Unit:** tons/operation day

California High-Speed Rail: Los Angeles to Anaheim Project

Construction Energy Analysis
Alt A - No HSR Station

	Start	End	Days	Total Duration
Construction Duration (years)	1/1/2031	12/31/2037	2,556	7.00

HSR LA-A Project: Construction Fuel Consumption Summary - Alt B No HSR Station (15th Street LMF)

Source Category	Fuel Consumption (gal)		Million btu (MMBTU)
	Diesel	Gasoline	Combined
Offroad Equipment	2,586,479	--	355,333
Haul Trucks[1]	2,922,250	--	401,462
Vendor Trucks	858,158	--	117,895
Concrete Trucks	162,779	--	22,363
Water Trucks	35,925	--	4,935
Worker Trips	--	867,478	104,283
Total Fuel Consumption	**6,565,591**	**867,478**	
		Total MMBTU	**1,006,271**

Construction Duration (years):	7.0
Average Annual Diesel (gal):	937,575
Average Annual Gasoline (gal):	867,478
Average Annual MMBTU:	143,697

Offroad Equipment

Fuel Consumption: Equipment ≤ 100HP	Value
Brake Specific Fuel Consumption Factor (lb/hp-hr)[1]	0.408
Fuel Density (lb/gal)[1]	7.11
Consumption Factor (gal/hp-hr)	0.0574
Total HP-HR <100	27,144,504
Total Diesel Fuel (gal)	**1,557,878**

Fuel Consumption: Equipment > 100HP	Value
Brake Specific Fuel Consumption Factor (lb/hp-hr)[1]	0.367
Fuel Density (lb/gal)[1]	7.11
Consumption Factor (gal/hp-hr)	0.0516
Total HP-HR >100	19,924,587
Total Diesel Fuel (gal)	**1,028,601**

Total diesel gallons (off-road equipment): 2,586,479

Phase Name	Equipment	# of Equipment	Hours/Day	HP	Load Factor	Days	Total HP-HR
At-Grade Rail-Ballasted Track-2033_Utilities	Trenchers	2	0.35	40	0.50	260	3640
At-Grade Rail-Ballasted Track-2033_Utilities	Rubber Tired Loaders	3	1.05	150	0.36	260	44226
At-Grade Rail-Ballasted Track-2033_Utilities	Other Construction Equipment	3	2.80	82	0.42	260	75216.96
At-Grade Rail-Ballasted Track-2033_Track Install	Crawler Tractors	1	0.60	87	0.43	313	7025.598
At-Grade Rail-Ballasted Track-2033_Track Install	Other Construction Equipment	4	0.90	82	0.42	313	38806.992
At-Grade Rail-Ballasted Track-2034_Utilities	Trenchers	2	0.35	40	0.50	260	3640
At-Grade Rail-Ballasted Track-2034_Utilities	Rubber Tired Loaders	3	1.05	150	0.36	260	44226
At-Grade Rail-Ballasted Track-2034_Utilities	Other Construction Equipment	3	2.80	82	0.42	260	75216.96
At-Grade Rail-Ballasted Track-2034_Track Install	Crawler Tractors	1	0.60	87	0.43	312	7003.152
At-Grade Rail-Ballasted Track-2034_Track Install	Other Construction Equipment	4	0.90	82	0.42	312	38683.008
At-Grade Rail-Ballasted Track-2035_Utilities	Trenchers	1	0.35	40	0.50	66	462
At-Grade Rail-Ballasted Track-2035_Utilities	Rubber Tired Loaders	3	1.05	150	0.36	66	11226.6
At-Grade Rail-Ballasted Track-2035_Utilities	Other Construction Equipment	3	2.80	82	0.42	66	19093.536
At-Grade Rail-Ballasted Track-2035_Track Install	Crawler Tractors	1	0.60	87	0.43	79	1773.234
At-Grade Rail-Ballasted Track-2035_Track Install	Other Construction Equipment	4	0.90	82	0.42	79	9794.736
At-Grade Rail-Ballasted Track-2036_Utilities	Trenchers	2	0.35	40	0.50	130	1820
At-Grade Rail-Ballasted Track-2036_Utilities	Rubber Tired Loaders	3	1.05	150	0.36	130	22113
At-Grade Rail-Ballasted Track-2036_Utilities	Other Construction Equipment	3	2.80	82	0.42	130	37608.48
At-Grade Rail-Ballasted Track-2036_Track Install	Crawler Tractors	1	0.60	87	0.43	156	3501.576
At-Grade Rail-Ballasted Track-2036_Track Install	Other Construction Equipment	4	0.90	82	0.42	156	19341.504

Phase Name	Equipment	# of Equipment	Hours/Day	HP	Load Factor	Days	Total HP-HR
At-Grade Rail-Ballasted Track-2037_Utilities	Trenchers	2	0.35	40	0.50	86	1204
At-Grade Rail-Ballasted Track-2037_Utilities	Rubber Tired Loaders	3	1.05	150	0.36	86	14628.6
At-Grade Rail-Ballasted Track-2037_Utilities	Other Construction Equipment	3	2.80	82	0.42	86	24879.456
At-Grade Rail-Ballasted Track-2037_Track Install	Crawler Tractors	1	0.60	87	0.43	103	2311.938
At-Grade Rail-Ballasted Track-2037_Track Install	Other Construction Equipment	4	0.90	82	0.42	103	12770.352
South of Fullerton-Ballasted Track_FD	Trenchers	2	0.35	40	0.50	197	2758
South of Fullerton-Ballasted Track_FD	Rubber Tired Loaders	3	1.05	150	0.36	197	33509.7
South of Fullerton-Ballasted Track_FD	Other Construction Equipment	3	2.80	82	0.42	197	56991.312
South of Fullerton-Ballasted Track_FD	Crawler Tractors	1	0.60	87	0.43	197	4421.862
South of Fullerton-Ballasted Track_FD	Other Construction Equipment	4	0.90	82	0.42	197	24424.848
Rail Direct Fixation_CTF1	Pumps	2	4.20	11	0.74	130	8888.88
Rail Direct Fixation_CTF1	Cranes	2	2.40	367	0.29	130	66412.32
Rail Direct Fixation_CTF1	Other Construction Equipment	10	4.20	82	0.42	130	188042.4
Rail Direct Fixation_CTF2	Pumps	2	4.20	11	0.74	261	17846.136
Rail Direct Fixation_CTF2	Cranes	2	2.40	367	0.29	261	133335.504
Rail Direct Fixation_CTF2	Other Construction Equipment	10	4.20	82	0.42	261	377531.28
Rail Direct Fixation_CTF3	Pumps	2	4.20	11	0.74	262	17914.512
Rail Direct Fixation_CTF3	Cranes	2	2.40	367	0.29	262	133846.368
Rail Direct Fixation_CTF3	Other Construction Equipment	10	4.20	82	0.42	262	378977.76
Commerce Viaduct_CTF1	Rubber Tired Loaders	1	4.55	150	0.36	217	53316.9
Commerce Viaduct_CTF1	Trenchers	1	1.40	40	0.50	217	6076
Commerce Viaduct_CTF1	Other Material Handling Equipment	4	2.80	93	0.40	217	90410.88
Commerce Viaduct_CTF2	Other Construction Equipment	3	3.15	82	0.42	652	212198.616
Commerce Viaduct_CTF3	Forklifts	2	4.55	82	0.20	261	38951.64
Commerce Viaduct_CTF4	Rollers	3	0.70	36	0.38	107	3073.896
Commerce Viaduct_CTF5	Cranes	3	5.25	367	0.29	695	1165009.388
Commerce Viaduct_CTF5	Other Construction Equipment	2	5.25	82	0.42	695	251325.9
Commerce Viaduct_CTF5	Other Material Handling Equipment	6	4.90	93	0.40	695	760107.6
Commerce Viaduct_CTF6	Rubber Tired Dozers	2	3.90	367	0.40	436	499237.44
Commerce Viaduct_CTF6	Excavators	1	2.10	36	0.38	436	12525.408
Commerce Viaduct_CTF7	Rubber Tired Loaders	4	3.92	150	0.36	522	441987.84
Commerce Viaduct_CTF7	Rough Terrain Forklifts	6	3.15	100	0.40	522	394632
Commerce Viaduct_CTF7	Cranes	3	2.45	367	0.29	522	408339.981
Commerce Viaduct_CTF7	Bore/Drill Rigs	4	4.20	83	0.50	522	363938.4
Commerce Viaduct_CTF7	Pumps	6	5.60	11	0.74	522	142769.088

Phase Name	Equipment	# of Equipment	Hours/Day	HP	Load Factor	Days	Total HP-HR
Norwalk-SFS Viaduct_CTF1	Other Construction Equipment	3	3.15	82	0.42	782	254508.156
Norwalk-SFS Viaduct_CTF2	Forklifts	2	4.55	82	0.20	261	38951.64
Norwalk-SFS Viaduct_CTF3	Rollers	3	0.70	36	0.38	107	3073.896
Norwalk-SFS Viaduct_CTF4	Rubber Tired Loaders	4	3.92	150	0.36	522	441987.84
Norwalk-SFS Viaduct_CTF4	Rough Terrain Forklifts	6	3.15	100	0.40	522	394632
Norwalk-SFS Viaduct_CTF4	Cranes	3	2.45	367	0.29	522	408339.981
Norwalk-SFS Viaduct_CTF4	Bore/Drill Rigs	4	4.20	83	0.50	522	363938.4
Norwalk-SFS Viaduct_CTF4	Pumps	6	5.60	11	0.74	522	142769.088
Norwalk-SFS Viaduct_CTF4	Rubber Tired Dozers	2	3.90	367	0.40	522	597710.88
Norwalk-SFS Viaduct_CTF4	Excavators	1	2.10	36	0.38	522	14996.016
Norwalk-SFS Viaduct_CTF5	Cranes	3	5.25	367	0.29	653	1094605.943
Norwalk-SFS Viaduct_CTF5	Other Construction Equipment	2	5.25	82	0.42	653	236137.86
Norwalk-SFS Viaduct_CTF5	Other Material Handling Equipment	6	4.90	93	0.40	653	714173.04
Norwalk-SFS Viaduct_CTF6	Rubber Tired Loaders	1	4.55	150	0.36	261	64127.7
Norwalk-SFS Viaduct_CTF6	Trenchers	1	1.40	40	0.50	261	7308
Norwalk-SFS Viaduct_CTF6	Other Material Handling Equipment	4	2.80	93	0.40	261	108743.04
Fullerton Trench_CTF1	Trenchers	1	1.75	40	0.50	653	22855
Fullerton Trench_CTF1	Rubber Tired Loaders	1	4.20	150	0.36	653	148100.4
Fullerton Trench_CTF1	Other Construction Equipment	3	3.00	82	0.42	653	202403.88
Fullerton Trench_CTF2	Other Construction Equipment	5	2.70	82	0.42	912	424025.28
Fullerton Trench_CTF3	Crawler Tractors	2	3.50	87	0.43	175	45827.25
Fullerton Trench_CTF3	Rubber Tired Loaders	6	3.50	150	0.36	175	198450
Fullerton Trench_CTF3	Rubber Tired Dozers	2	2.45	367	0.40	175	125881
Fullerton Trench_CTF4	Bore/Drill Rigs	2	1.75	83	0.50	131	19027.75
Fullerton Trench_CTF4	Cranes	2	4.76	367	0.29	131	132730.9816
Fullerton Trench_CTF5	Other Material Handling Equipment	3	3.50	93	0.40	717	280060.2
Fullerton Trench_CTF6	Pumps	3	2.45	11	0.74	132	7897.428
Fullerton Trench_CTF7	Graders	2	3.85	148	0.41	260	121481.36
Fullerton Trench_CTF7	Excavators	2	4.90	36	0.38	260	34856.64
Fullerton Trench_CTF7	Rubber Tired Loaders	4	3.85	150	0.36	260	216216
Fullerton Trench_CTF8	Pumps	4	2.45	11	0.74	175	13960.1
Fullerton Trench_CTF9	Forklifts	1	3.25	82	0.20	261	13911.3
Fullerton Trench_CTF10	Rollers	1	3.15	36	0.38	86	3705.912
Fullerton Trench_CTF11	Rubber Tired Loaders	2	4.55	150	0.36	42	20638.8
I-10-L1 Grade Separation_FD	Rough Terrain Forklifts	2	4.55	100	0.40	155	56420
South Downey Rd-L1 Grade Separation_CTF1	Rough Terrain Forklifts	1	1.40	100	0.40	326	18256

Phase Name	Equipment	# of Equipment	Hours/Day	HP	Load Factor	Days	Total HP-HR
South Downey Rd-L1 Grade Separation_CTF1	Other Construction Equipment	5	1.40	82	0.42	326	78592.08
South Downey Rd-L1 Grade Separation_CTF2	Pumps	2	3.50	11	0.74	240	13675.2
South Downey Rd-L1 Grade Separation_CTF2	Air Compressors	2	2.00	37	0.48	240	17049.6
South Downey Rd-L1 Grade Separation_CTF3	Cranes	1	2.10	367	0.29	390	87166.17
South Downey Rd-L1 Grade Separation_CTF3	Bore/Drill Rigs	1	3.50	83	0.50	390	56647.5
South Downey Rd-L1 Grade Separation_CTF3	Rubber Tired Loaders	2	4.20	150	0.36	390	176904
I-710-L1 Grade Separation_FD	Rough Terrain Forklifts	2	5.60	100	0.40	53	23744
I-5-L1 Grade Separation_FD	Rough Terrain Forklifts	2	5.60	100	0.40	52	23296
Greenwood Ave-L1 Grade Separation_FD	Rough Terrain Forklifts	2	5.60	100	0.40	53	23744
Paramount Blvd-L1 Grade Separation_FD	Rubber Tired Loaders	1	4.20	150	0.36	51	11566.8
Paramount Blvd-L1 Grade Separation_FD	Rough Terrain Forklifts	1	4.20	100	0.40	51	8568
Paramount Blvd-L1 Grade Separation_FD	Other Construction Equipment	2	4.50	82	0.42	51	15807.96
SR-91-L1 Grade Separation_FD	Rough Terrain Forklifts	2	5.60	100	0.40	42	18816
Lincoln Ave-L1 Grade Separation_FD	Rough Terrain Forklifts	1	2.20	100	0.40	44	3872
Eastern Ave-L2 Grade Separation_CTF2	Other Construction Equipment	6	3.30	82	0.42	457	311633.784
Eastern Ave-L2 Grade Separation_CTF3	Excavators	2	2.40	36	0.38	43	2823.552
Eastern Ave-L2 Grade Separation_CTF4	Rubber Tired Loaders	2	4.20	150	0.36	108	48988.8
Eastern Ave-L2 Grade Separation_CTF4	Bore/Drill Rigs	1	2.25	83	0.50	108	10084.5
Eastern Ave-L2 Grade Separation_CTF5	Pumps	2	4.55	11	0.74	131	9703.694
Eastern Ave-L2 Grade Separation_CTF8	Cranes	1	3.85	367	0.29	45	18438.9975
Eastern Ave-L2 Grade Separation_CTF9	Rough Terrain Forklifts	1	4.20	100	0.40	85	14280
Passons Blvd-L2 Grade Separation_CTF1	Rough Terrain Forklifts	1	4.20	100	0.40	42	7056
Passons Blvd-L2 Grade Separation_CTF2	Excavators	2	2.40	36	0.38	87	5712.768
Passons Blvd-L2 Grade Separation_CTF3	Rubber Tired Loaders	3	4.20	150	0.36	130	88452
Passons Blvd-L2 Grade Separation_CTF4	Other Construction Equipment	6	3.30	82	0.42	326	222303.312
Passons Blvd-L2 Grade Separation_CTF5	Bore/Drill Rigs	1	2.25	83	0.50	65	6069.375
Passons Blvd-L2 Grade Separation_CTF6	Pumps	2	4.55	11	0.74	65	4814.81
Passons Blvd-L2 Grade Separation_CTF7	Cranes	1	3.85	367	0.29	87	35648.7285
Sante Fe Springs-L2 Grade Separation_CTF2	Other Construction Equipment	6	3.00	82	0.42	326	202093.92
Sante Fe Springs-L2 Grade Separation_CTF3	Rubber Tired Loaders	3	4.90	150	0.36	110	87318
Sante Fe Springs-L2 Grade Separation_CTF4	Excavators	2	1.80	36	0.38	132	6500.736
Sante Fe Springs-L2 Grade Separation_CTF4	Rough Terrain Forklifts	1	3.15	100	0.40	132	16632
Sante Fe Springs-L2 Grade Separation_CTF5	Bore/Drill Rigs	2	3.50	83	0.50	43	12491.5
Sante Fe Springs-L2 Grade Separation_CTF6	Cranes	1	4.90	367	0.29	87	45371.109
Sante Fe Springs-L2 Grade Separation_CTF7	Pumps	2	4.90	11	0.74	107	8535.604
Telegraph Road-L2 Grade Separation_CTF1	Excavators	2	1.20	36	0.38	64	2101.248
Telegraph Road-L2 Grade Separation_CTF2	Rubber Tired Loaders	3	2.45	150	0.36	85	33736.5
Telegraph Road-L2 Grade Separation_CTF3	Rough Terrain Forklifts	1	2.10	100	0.40	390	32760

Phase Name	Equipment	# of Equipment	Hours/Day	HP	Load Factor	Days	Total HP-HR
Telegraph Road-L2 Grade Separation_CTF3	Other Construction Equipment	6	1.80	82	0.42	390	145061.28
Telegraph Road-L2 Grade Separation_CTF4	Bore/Drill Rigs	2	3.00	83	0.50	43	10707
Telegraph Road-L2 Grade Separation_CTF5	Pumps	2	3.50	11	0.74	88	5014.24
Telegraph Road-L2 Grade Separation_CTF6	Cranes	1	3.50	367	0.29	217	80833.585
Valley View Ave-L2 Grade Separation_CTF1	Excavators	2	3.30	36	0.38	44	3972.672
Valley View Ave-L2 Grade Separation_CTF2	Other Construction Equipment	6	3.30	82	0.42	326	222303.312
Valley View Ave-L2 Grade Separation_CTF3	Bore/Drill Rigs	2	3.25	83	0.50	43	11599.25
Valley View Ave-L2 Grade Separation_CTF5	Rubber Tired Loaders	3	5.60	150	0.36	64	58060.8
Valley View Ave-L2 Grade Separation_CTF6	Pumps	2	3.85	11	0.74	107	6706.546
Valley View Ave-L2 Grade Separation_CTF9	Cranes	1	2.10	367	0.29	43	9610.629
Valley View Ave-L2 Grade Separation_CTF10	Rough Terrain Forklifts	1	3.15	100	0.40	66	8316
Beach Blvd-L2 Grade Separation_CTF1	Pumps	2	4.55	11	0.74	43	3185.182
Beach Blvd-L2 Grade Separation_CTF1	Bore/Drill Rigs	1	2.25	83	0.50	43	4015.125
Beach Blvd-L2 Grade Separation_CTF1	Cranes	1	3.85	367	0.29	43	17619.4865
Beach Blvd-L2 Grade Separation_CTF2	Excavators	2	2.40	36	0.38	87	5712.768
Beach Blvd-L2 Grade Separation_CTF3	Rubber Tired Loaders	3	4.20	150	0.36	109	74163.6
Beach Blvd-L2 Grade Separation_CTF4	Other Construction Equipment	6	3.30	82	0.42	261	177979.032
Beach Blvd-L2 Grade Separation_CTF5	Rough Terrain Forklifts	1	4.20	100	0.40	109	18312
Gilbert St-L2 Grade Separation_CTF1	Rubber Tired Loaders	3	2.45	150	0.36	43	17066.7
Gilbert St-L2 Grade Separation_CTF2	Excavators	2	1.20	36	0.38	86	2823.552
Gilbert St-L2 Grade Separation_CTF2	Bore/Drill Rigs	2	3.00	83	0.50	86	21414
Gilbert St-L2 Grade Separation_CTF3	Cranes	1	3.50	367	0.29	130	48425.65
Gilbert St-L2 Grade Separation_CTF4	Other Construction Equipment	6	4.20	82	0.42	390	338476.32
Gilbert St-L2 Grade Separation_CTF5	Rough Terrain Forklifts	1	2.10	100	0.40	216	18144
Gilbert St-L2 Grade Separation_CTF6	Pumps	2	3.50	11	0.74	132	7521.36
Euclid St-L2 Grade Separation_CTF2	Rubber Tired Loaders	3	3.50	150	0.36	283	160461
Euclid St-L2 Grade Separation_CTF3	Rough Terrain Forklifts	1	4.20	100	0.40	326	54768
Euclid St-L2 Grade Separation_CTF4	Other Construction Equipment	6	2.40	82	0.42	391	193910.976
Euclid St-L2 Grade Separation_CTF5	Excavators	2	4.20	36	0.38	43	4941.216
Euclid St-L2 Grade Separation_CTF6	Bore/Drill Rigs	2	2.25	83	0.50	88	16434
Euclid St-L2 Grade Separation_CTF7	Cranes	1	1.75	367	0.29	43	8008.8575
Euclid St-L2 Grade Separation_CTF8	Pumps	2	3.50	11	0.74	154	8774.92
Lemon St-L2 Grade Separation_CTF2	Other Construction Equipment	4	3.20	82	0.42	650	286540.8
Lemon St-L2 Grade Separation_CTF3	Excavators	1	4.20	36	0.38	79	4539.024
Lemon St-L2 Grade Separation_CTF4	Rubber Tired Loaders	2	3.50	150	0.36	261	98658
Lemon St-L2 Grade Separation_CTF5	Bore/Drill Rigs	2	2.25	83	0.50	109	20355.75
Lemon St-L2 Grade Separation_CTF6	Rough Terrain Forklifts	1	4.20	100	0.40	132	22176
Lemon St-L2 Grade Separation_CTF7	Pumps	2	3.50	11	0.74	305	17378.9

Phase Name	Equipment	# of Equipment	Hours/Day	HP	Load Factor	Days	Total HP-HR
Lemon St-L2 Grade Separation_CTF7	Cranes	1	1.75	367	0.29	305	56807.0125
Atlantic Blvd-L3 Grade Separation_CTF1	Bore/Drill Rigs	2	3.00	83	0.50	132	32868
Atlantic Blvd-L3 Grade Separation_CTF2	Rubber Tired Loaders	3	2.45	150	0.36	154	61122.6
Atlantic Blvd-L3 Grade Separation_CTF4	Other Construction Equipment	6	1.20	82	0.42	328	81333.504
Atlantic Blvd-L3 Grade Separation_CTF5	Excavators	2	1.20	36	0.38	66	2166.912
Atlantic Blvd-L3 Grade Separation_CTF6	Rough Terrain Forklifts	1	2.10	100	0.40	86	7224
Atlantic Blvd-L3 Grade Separation_CTF7	Cranes	1	3.50	367	0.29	131	48798.155
Atlantic Blvd-L3 Grade Separation_CTF9	Pumps	2	3.50	11	0.74	261	14871.78
Rosemead Blvd-L3 Grade Separation_CTF2	Other Construction Equipment	6	0.90	82	0.42	521	96893.496
Rosemead Blvd-L3 Grade Separation_CTF3	Excavators	2	4.50	36	0.38	63	7756.56
Rosemead Blvd-L3 Grade Separation_CTF4	Rubber Tired Loaders	3	3.15	150	0.36	108	55112.4
Rosemead Blvd-L3 Grade Separation_CTF6	Bore/Drill Rigs	2	3.25	83	0.50	66	17803.5
Rosemead Blvd-L3 Grade Separation_CTF7	Pumps	2	3.85	11	0.74	86	5390.308
Rosemead Blvd-L3 Grade Separation_CTF8	Cranes	1	3.15	367	0.29	413	138460.1085
Rosemead Blvd-L3 Grade Separation_CTF10	Rough Terrain Forklifts	1	2.45	100	0.40	260	25480
Rosemead Blvd-L3 Grade Separation_CTF11	Crawler Tractors	1	1.75	87	0.43	109	7135.9575
Rosemead Blvd-L3 Grade Separation_CTF13	Rollers	1	4.55	36	0.38	109	6784.596
Rosemead Blvd-L3 Grade Separation_CTF14	Surfacing Equipment	1	4.20	399	0.30	43	21617.82
Rosemead Blvd-L3 Grade Separation_CTF15	Skid Steer Loaders	6	4.90	71	0.37	86	66421.068
Rosemead Blvd-L3 Grade Separation_CTF16	Sweepers/Scrubbers	1	4.20	36	0.46	66	4590.432
Slauson Ave-L3 Grade Separation_CTF2	Rough Terrain Forklifts	1	4.90	100	0.40	347	68012
Slauson Ave-L3 Grade Separation_CTF2	Other Construction Equipment	6	3.00	82	0.42	347	215112.24
Slauson Ave-L3 Grade Separation_CTF3	Excavators	1	2.10	36	0.38	65	1867.32
Slauson Ave-L3 Grade Separation_CTF4	Bore/Drill Rigs	1	3.50	83	0.50	87	12636.75
Slauson Ave-L3 Grade Separation_CTF5	Rubber Tired Loaders	3	4.90	150	0.36	109	86524.2
Slauson Ave-L3 Grade Separation_CTF6	Pumps	2	4.90	11	0.74	109	8695.148
Slauson Ave-L3 Grade Separation_CTF7	Cranes	1	2.10	367	0.29	173	38666.019
Carmenita Rd-L3 Grade Separation_CTF1	Excavators	2	2.10	36	0.38	109	6262.704
Carmenita Rd-L3 Grade Separation_CTF1	Bore/Drill Rigs	2	2.00	83	0.50	109	18094
Carmenita Rd-L3 Grade Separation_CTF2	Rubber Tired Loaders	3	4.20	150	0.36	196	133358.4
Carmenita Rd-L3 Grade Separation_CTF4	Rough Terrain Forklifts	1	4.55	100	0.40	521	94822
Carmenita Rd-L3 Grade Separation_CTF4	Other Construction Equipment	6	4.50	82	0.42	521	484467.48
Carmenita Rd-L3 Grade Separation_CTF5	Pumps	2	4.90	11	0.74	195	15555.54
Carmenita Rd-L3 Grade Separation_CTF6	Cranes	1	3.85	367	0.29	304	124565.672
Carmenita Rd-L3 Grade Separation_CTF7	Crawler Tractors	1	4.90	87	0.43	66	12098.394
Carmenita Rd-L3 Grade Separation_CTF8	Graders	2	5.25	148	0.41	87	55431.18
Carmenita Rd-L3 Grade Separation_CTF9	Rollers	1	2.45	36	0.38	368	12333.888
Carmenita Rd-L3 Grade Separation_CTF10	Surfacing Equipment	1	2.80	399	0.30	108	36197.28

Phase Name	Equipment	# of Equipment	Hours/Day	HP	Load Factor	Days	Total HP-HR
Carmenita Rd-L3 Grade Separation_CTF11	Sweepers/Scrubbers	1	2.80	36	0.46	195	9041.76
Alondra Blvd-L3 Grade Separation_CTF1	Excavators	2	3.30	36	0.38	153	13814.064
Alondra Blvd-L3 Grade Separation_CTF2	Cranes	1	2.80	367	0.29	217	64666.868
Alondra Blvd-L3 Grade Separation_CTF4	Rough Terrain Forklifts	1	4.20	100	0.40	327	54936
Alondra Blvd-L3 Grade Separation_CTF5	Rubber Tired Loaders	3	4.55	150	0.36	587	432677.7
Alondra Blvd-L3 Grade Separation_CTF6	Other Construction Equipment	6	3.90	82	0.42	652	525444.192
Alondra Blvd-L3 Grade Separation_CTF7	Tractors/Loaders/Backhoes	1	3.15	84	0.37	44	4307.688
Alondra Blvd-L3 Grade Separation_CTF7	Plate Compactors	6	2.80	8	0.43	44	2542.848
Alondra Blvd-L3 Grade Separation_CTF8	Bore/Drill Rigs	2	1.50	83	0.50	174	21663
Alondra Blvd-L3 Grade Separation_CTF9	Pumps	2	5.25	11	0.74	217	18546.99
Alondra Blvd-L3 Grade Separation_CTF10	Sweepers/Scrubbers	1	1.00	36	0.46	478	7915.68
Alondra Blvd-L3 Grade Separation_CTF12	Rollers	2	2.80	36	0.38	43	3294.144
Alondra Blvd-L3 Grade Separation_CTF12	Surfacing Equipment	2	3.00	399	0.30	43	30882.6
Dale St-L3 Grade Separation_CTF1	Graders	1	6.80	148	0.41	21	8665.104
Dale St-L3 Grade Separation_CTF1	Rollers	1	6.80	36	0.38	21	1953.504
Dale St-L3 Grade Separation_CTF1	Surfacing Equipment	1	6.00	399	0.30	21	15082.2
Dale St-L3 Grade Separation_CTF1	Sweepers/Scrubbers	1	2.40	36	0.46	21	834.624
Dale St-L3 Grade Separation_CTF2	Excavators	2	6.00	36	0.38	43	7058.88
Dale St-L3 Grade Separation_CTF2	Other Construction Equipment	6	2.40	82	0.42	43	21325.248
Dale St-L3 Grade Separation_CTF3	Pumps	2	2.80	11	0.74	86	3920.224
Dale St-L3 Grade Separation_CTF4	Bore/Drill Rigs	2	4.40	83	0.50	109	39806.8
Dale St-L3 Grade Separation_CTF6	Rubber Tired Loaders	3	3.60	150	0.36	218	127137.6
Dale St-L3 Grade Separation_CTF8	Cranes	1	3.60	367	0.29	110	42146.28
Dale St-L3 Grade Separation_CTF9	Rough Terrain Forklifts	1	3.20	100	0.40	77	9856
Commonwealth Ave-L3 Grade Separation_CTF1	Excavators	2	3.20	36	0.38	132	11556.864
Commonwealth Ave-L3 Grade Separation_CTF2	Rubber Tired Loaders	2	3.20	150	0.36	261	90201.6
Commonwealth Ave-L3 Grade Separation_CTF3	Rough Terrain Forklifts	1	4.00	100	0.40	522	83520
Commonwealth Ave-L3 Grade Separation_CTF3	Other Construction Equipment	6	2.00	82	0.42	522	215732.16
Commonwealth Ave-L3 Grade Separation_CTF4	Pumps	2	4.00	11	0.74	260	16931.2
Commonwealth Ave-L3 Grade Separation_CTF5	Bore/Drill Rigs	2	3.20	83	0.50	152	40371.2
Commonwealth Ave-L3 Grade Separation_CTF6	Plate Compactors	6	6.40	8	0.43	43	5680.128
Commonwealth Ave-L3 Grade Separation_CTF7	Rubber Tired Loaders	3	3.20	150	0.36	195	101088
Commonwealth Ave-L3 Grade Separation_CTF8	Cranes	1	3.20	367	0.29	86	29289.536
Commonwealth Ave-L3 Grade Separation_CTF9	Graders	1	4.00	148	0.41	85	20631.2
Commonwealth Ave-L3 Grade Separation_CTF9	Rollers	2	1.60	36	0.38	85	3720.96
Commonwealth Ave-L3 Grade Separation_CTF9	Sweepers/Scrubbers	1	1.60	36	0.46	85	2252.16
Commonwealth Ave-L3 Grade Separation_CTF10	Skid Steer Loaders	6	6.00	71	0.37	870	822776.4
Commonwealth Ave-L3 Grade Separation_CTF11	Surfacing Equipment	1	5.20	399	0.30	43	26764.92
Commonwealth Ave-L3 Grade Separation_CTF11	Rollers	2	2.40	36	0.38	43	2823.552

Phase Name	Equipment	# of Equipment	Hours/Day	HP	Load Factor	Days	Total HP-HR
Highland Ave-L3 Grade Separation_CTF1	Bore/Drill Rigs	2	1.50	83	0.50	152	18924
Highland Ave-L3 Grade Separation_CTF2	Excavators	2	2.10	36	0.38	130	7469.28
Highland Ave-L3 Grade Separation_CTF3	Rubber Tired Loaders	2	4.55	150	0.36	260	127764
Highland Ave-L3 Grade Separation_CTF4	Other Construction Equipment	6	3.90	82	0.42	651	524638.296
Highland Ave-L3 Grade Separation_CTF6	Rough Terrain Forklifts	1	4.20	100	0.40	66	11088
Highland Ave-L3 Grade Separation_CTF7	Cranes	1	2.80	367	0.29	132	39336.528
Highland Ave-L3 Grade Separation_CTF8	Pumps	2	5.25	11	0.74	154	13162.38
Highland Ave-L3 Grade Separation_CTF10	Graders	1	3.85	148	0.41	130	30370.34
Highland Ave-L3 Grade Separation_CTF12	Sweepers/Scrubbers	1	1.40	36	0.46	217	5030.928
Highland Ave-L3 Grade Separation_CTF13	Rollers	1	3.15	36	0.38	174	7498.008
Highland Ave-L3 Grade Separation_CTF13	Surfacing Equipment	2	2.40	399	0.30	174	99973.44
Harbor Blvd-L3 Grade Separation_CTF1	Excavators	2	1.20	36	0.38	217	7124.544
Harbor Blvd-L3 Grade Separation_CTF1	Rubber Tired Loaders	3	5.25	150	0.36	217	184558.5
Harbor Blvd-L3 Grade Separation_CTF2	Rough Terrain Forklifts	1	1.40	100	0.40	522	29232
Harbor Blvd-L3 Grade Separation_CTF2	Other Construction Equipment	6	1.80	82	0.42	522	194158.944
Harbor Blvd-L3 Grade Separation_CTF3	Bore/Drill Rigs	1	2.50	83	0.50	173	17948.75
Harbor Blvd-L3 Grade Separation_CTF4	Cranes	1	3.50	367	0.29	217	80833.585
Harbor Blvd-L3 Grade Separation_CTF5	Pumps	2	3.50	11	0.74	173	9857.54
Douglass Rd-L3 Grade Separation_CTF1	Excavators	2	2.10	36	0.38	131	7526.736
Douglass Rd-L3 Grade Separation_CTF3	Rough Terrain Forklifts	1	4.55	100	0.40	262	47684
Douglass Rd-L3 Grade Separation_CTF4	Other Construction Equipment	6	4.50	82	0.42	392	364512.96
Douglass Rd-L3 Grade Separation_CTF5	Rubber Tired Loaders	2	4.20	150	0.36	434	196862.4
Douglass Rd-L3 Grade Separation_CTF6	Graders	1	4.90	148	0.41	43	12785.276
Douglass Rd-L3 Grade Separation_CTF7	Pumps	1	4.90	11	0.74	174	6940.164
Douglass Rd-L3 Grade Separation_CTF7	Cranes	1	3.85	367	0.29	174	71297.457
Douglass Rd-L3 Grade Separation_CTF8	Bore/Drill Rigs	1	2.00	83	0.50	130	10790
Douglass Rd-L3 Grade Separation_CTF9	Crawler Tractors	1	4.90	87	0.43	175	32079.075
Douglass Rd-L3 Grade Separation_CTF10	Sweepers/Scrubbers	1	2.80	36	0.46	196	9088.128
Douglass Rd-L3 Grade Separation_CTF11	Rollers	1	3.50	36	0.38	64	3064.32
Douglass Rd-L3 Grade Separation_CTF11	Surfacing Equipment	1	2.80	399	0.30	64	21450.24
Pioneer Blvd-L4 Grade Separation_CTF2	Rough Terrain Forklifts	1	3.50	100	0.40	349	48860
Pioneer Blvd-L4 Grade Separation_CTF3	Other Construction Equipment	6	1.50	82	0.42	654	202713.84
Pioneer Blvd-L4 Grade Separation_CTF4	Excavators	1	2.40	36	0.38	132	4333.824
Pioneer Blvd-L4 Grade Separation_CTF5	Bore/Drill Rigs	2	2.00	83	0.50	153	25398
Pioneer Blvd-L4 Grade Separation_CTF6	Rubber Tired Loaders	2	2.80	150	0.36	262	79228.8
Pioneer Blvd-L4 Grade Separation_CTF7	Pumps	2	3.50	11	0.74	131	7464.38
Pioneer Blvd-L4 Grade Separation_CTF8	Cranes	1	2.80	367	0.29	174	51852.696
Pioneer Blvd-L4 Grade Separation_CTF9	Trenchers	1	2.10	40	0.50	479	20118
Pioneer Blvd-L4 Grade Separation_CTF10	Sweepers/Scrubbers	1	0.80	36	0.46	457	6054.336

Phase Name	Equipment	# of Equipment	Hours/Day	HP	Load Factor	Days	Total HP-HR
Pioneer Blvd-L4 Grade Separation_CTF11	Graders	1	3.50	148	0.41	130	27609.4
Pioneer Blvd-L4 Grade Separation_CTF12	Rubber Tired Loaders	2	2.80	150	0.36	349	105537.6
Pioneer Blvd-L4 Grade Separation_CTF13	Rollers	1	1.40	36	0.38	175	3351.6
Pioneer Blvd-L4 Grade Separation_CTF14	Surfacing Equipment	2	3.90	399	0.30	107	99901.62
Pioneer Blvd-L4 Grade Separation_CTF15	Plate Compactors	6	5.60	8	0.43	44	5085.696
Pioneer Blvd-L4 Grade Separation_CTF16	Skid Steer Loaders	3	5.25	71	0.37	66	27307.665
Norwalk Blvd-L4 Grade Separation_CTF1	Excavators	2	4.20	36	0.38	131	15053.472
Norwalk Blvd-L4 Grade Separation_CTF4	Rubber Tired Loaders	3	3.85	150	0.36	542	338045.4
Norwalk Blvd-L4 Grade Separation_CTF5	Other Construction Equipment	6	2.70	82	0.42	782	436299.696
Norwalk Blvd-L4 Grade Separation_CTF6	Trenchers	1	2.45	40	0.50	131	6419
Norwalk Blvd-L4 Grade Separation_CTF6	Plate Compactors	6	4.55	8	0.43	131	12302.472
Norwalk Blvd-L4 Grade Separation_CTF7	Bore/Drill Rigs	2	2.50	83	0.50	107	22202.5
Norwalk Blvd-L4 Grade Separation_CTF8	Pumps	2	4.55	11	0.74	130	9629.62
Norwalk Blvd-L4 Grade Separation_CTF8	Cranes	1	3.15	367	0.29	130	43583.085
Norwalk Blvd-L4 Grade Separation_CTF9	Rough Terrain Forklifts	1	4.20	100	0.40	390	65520
Norwalk Blvd-L4 Grade Separation_CTF10	Graders	1	3.15	148	0.41	130	24848.46
Norwalk Blvd-L4 Grade Separation_CTF10	Rollers	2	2.45	36	0.38	130	8714.16
Norwalk Blvd-L4 Grade Separation_CTF10	Surfacing Equipment	2	2.70	399	0.30	130	84029.4
Norwalk Blvd-L4 Grade Separation_CTF11	Sweepers/Scrubbers	1	1.40	36	0.46	218	5054.112
Los Nietos Rd-L4 Grade Separation_CTF1	Excavators	2	4.20	36	0.38	131	15053.472
Los Nietos Rd-L4 Grade Separation_CTF4	Rubber Tired Loaders	3	3.85	150	0.36	542	338045.4
Los Nietos Rd-L4 Grade Separation_CTF5	Other Construction Equipment	6	2.70	82	0.42	782	436299.696
Los Nietos Rd-L4 Grade Separation_CTF6	Trenchers	1	2.45	40	0.50	131	6419
Los Nietos Rd-L4 Grade Separation_CTF6	Plate Compactors	6	4.55	8	0.43	131	12302.472
Los Nietos Rd-L4 Grade Separation_CTF7	Bore/Drill Rigs	2	2.50	83	0.50	107	22202.5
Los Nietos Rd-L4 Grade Separation_CTF8	Pumps	2	4.55	11	0.74	130	9629.62
Los Nietos Rd-L4 Grade Separation_CTF8	Cranes	1	3.15	367	0.29	130	43583.085
Los Nietos Rd-L4 Grade Separation_CTF9	Rough Terrain Forklifts	2	4.20	100	0.40	390	131040
Los Nietos Rd-L4 Grade Separation_CTF10	Graders	1	3.15	148	0.41	130	24848.46
Los Nietos Rd-L4 Grade Separation_CTF10	Rollers	2	2.45	36	0.38	130	8714.16
Los Nietos Rd-L4 Grade Separation_CTF10	Surfacing Equipment	2	2.70	399	0.30	130	84029.4
Los Nietos Rd-L4 Grade Separation_CTF11	Sweepers/Scrubbers	1	1.40	36	0.46	218	5054.112
Cerritos Ave-L4 Grade Separation_CTF1	Bore/Drill Rigs	2	2.50	83	0.50	130	26975
Cerritos Ave-L4 Grade Separation_CTF2	Excavators	2	3.60	36	0.38	130	12804.48
Cerritos Ave-L4 Grade Separation_CTF4	Rubber Tired Loaders	3	3.85	150	0.36	391	243866.7
Cerritos Ave-L4 Grade Separation_CTF6	Other Construction Equipment	6	3.90	82	0.42	783	631016.568
Cerritos Ave-L4 Grade Separation_CTF7	Graders	1	3.15	148	0.41	129	24657.318
Cerritos Ave-L4 Grade Separation_CTF9	Cranes	1	3.50	367	0.29	129	48053.145
Cerritos Ave-L4 Grade Separation_CTF10	Rough Terrain Forklifts	1	4.20	100	0.40	172	28896

Phase Name	Equipment	# of Equipment	Hours/Day	HP	Load Factor	Days	Total HP-HR
Cerritos Ave-L4 Grade Separation_CTF11	Pumps	2	4.55	11	0.74	238	17629.612
Cerritos Ave-L4 Grade Separation_CTF13	Rollers	2	3.15	36	0.38	196	16892.064
Cerritos Ave-L4 Grade Separation_CTF14	Plate Compactors	6	4.55	8	0.43	89	8358.168
Cerritos Ave-L4 Grade Separation_CTF15	Trenchers	1	2.45	40	0.50	132	6468
Cerritos Ave-L4 Grade Separation_CTF16	Surfacing Equipment	2	2.70	399	0.30	87	56235.06
Cerritos Ave-L4 Grade Separation_CTF17	Sweepers/Scrubbers	1	0.80	36	0.46	218	2888.064
Cerritos Ave-L4 Grade Separation_CTF18	Skid Steer Loaders	3	4.20	71	0.37	131	43361.262
Lewis St-L4 Grade Separation_CTF1	Excavators	2	3.90	36	0.38	41	4374.864
Lewis St-L4 Grade Separation_CTF3	Graders	1	5.25	148	0.41	65	20707.05
Lewis St-L4 Grade Separation_CTF5	Rollers	2	5.95	36	0.38	21	3418.632
Lewis St-L4 Grade Separation_CTF6	Trenchers	1	3.85	40	0.50	44	3388
Lewis St-L4 Grade Separation_CTF6	Plate Compactors	6	5.60	8	0.43	44	5085.696
Lewis St-L4 Grade Separation_CTF7	Bore/Drill Rigs	2	2.50	83	0.50	109	22617.5
Lewis St-L4 Grade Separation_CTF8	Rubber Tired Loaders	2	3.85	150	0.36	261	108523.8
Lewis St-L4 Grade Separation_CTF8	Other Construction Equipment	6	4.20	82	0.42	261	226518.768
Lewis St-L4 Grade Separation_CTF9	Pumps	2	5.25	11	0.74	131	11196.57
Lewis St-L4 Grade Separation_CTF11	Cranes	1	3.85	367	0.29	88	36058.484
Lewis St-L4 Grade Separation_CTF12	Rollers	1	4.90	36	0.38	240	16087.68
Lewis St-L4 Grade Separation_CTF13	Surfacing Equipment	2	4.50	399	0.30	65	70024.5
Lewis St-L4 Grade Separation_CTF14	Sweepers/Scrubbers	1	1.40	36	0.46	195	4520.88
Lewis St-L4 Grade Separation_CTF15	Rough Terrain Forklifts	1	4.55	100	0.40	87	15834
State College Blvd-L4 Grade Separation_CTF1	Excavators	2	3.60	36	0.38	173	17039.808
State College Blvd-L4 Grade Separation_CTF2	Rubber Tired Loaders	3	3.85	150	0.36	523	326195.1
State College Blvd-L4 Grade Separation_CTF3	Other Construction Equipment	6	2.70	82	0.42	783	436857.624
State College Blvd-L4 Grade Separation_CTF4	Rough Terrain Forklifts	1	4.20	100	0.40	412	69216
State College Blvd-L4 Grade Separation_CTF5	Pumps	2	4.55	11	0.74	197	14592.578
State College Blvd-L4 Grade Separation_CTF7	Bore/Drill Rigs	2	2.50	83	0.50	153	31747.5
State College Blvd-L4 Grade Separation_CTF8	Cranes	1	3.50	367	0.29	108	40230.54
State College Blvd-L4 Grade Separation_CTF9	Graders	1	3.15	148	0.41	217	41477.814
State College Blvd-L4 Grade Separation_CTF11	Sweepers/Scrubbers	1	0.60	36	0.46	261	2593.296
State College Blvd-L4 Grade Separation_CTF12	Trenchers	1	2.45	40	0.50	129	6321
State College Blvd-L4 Grade Separation_CTF12	Plate Compactors	6	4.55	8	0.43	129	12114.648
State College Blvd-L4 Grade Separation_CTF13	Surfacing Equipment	2	2.70	399	0.30	129	83383.02
State College Blvd-L4 Grade Separation_CTF14	Rollers	2	1.40	36	0.38	239	9154.656
State College Blvd-L4 Grade Separation_CTF15	Skid Steer Loaders	4	4.20	71	0.37	87	38396.232
Katella Ave-L4 Grade Separation_CTF1	Excavators	2	2.10	36	0.38	85	4883.76
Katella Ave-L4 Grade Separation_CTF3	Rubber Tired Loaders	3	4.55	150	0.36	390	287469
Katella Ave-L4 Grade Separation_CTF4	Rough Terrain Forklifts	1	4.20	100	0.40	651	109368
Katella Ave-L4 Grade Separation_CTF4	Other Construction Equipment	6	3.90	82	0.42	651	524638.296

Phase Name	Equipment	# of Equipment	Hours/Day	HP	Load Factor	Days	Total HP-HR
Katella Ave-L4 Grade Separation_CTF4	Tractors/Loaders/Backhoes	2	3.15	84	0.37	651	127468.404
Katella Ave-L4 Grade Separation_CTF5	Bore/Drill Rigs	2	1.50	83	0.50	175	21787.5
Katella Ave-L4 Grade Separation_CTF6	Pumps	2	5.25	11	0.74	130	11111.1
Katella Ave-L4 Grade Separation_CTF7	Cranes	2	2.80	367	0.29	195	116221.56
Katella Ave-L4 Grade Separation_CTF8	Rollers	1	2.80	36	0.38	65	2489.76
Katella Ave-L4 Grade Separation_CTF9	Surfacing Equipment	1	3.00	399	0.30	87	31241.7
Katella Ave-L4 Grade Separation_CTF10	Sweepers/Scrubbers	1	1.75	36	0.46	65	1883.7
Redondo Junction-L1 Water Crossing_CTF1	Rough Terrain Forklifts	1	5.25	100	0.40	87	18270
Redondo Junction-L1 Water Crossing_CTF1	Welders	4	5.60	46	0.45	87	40340.16
Redondo Junction-L1 Water Crossing_CTF1	Forklifts	2	3.50	82	0.20	87	9987.6
Redondo Junction-L1 Water Crossing_CTF1	Other Construction Equipment	4	5.25	82	0.42	87	62921.88
Redondo Junction-L1 Water Crossing_CTF1	Other Material Handling Equipment	4	4.20	93	0.40	87	54371.52
Coyote Creek-L1Water Crossing_CTF1	Pumps	1	4.20	11	0.74	66	2256.408
Coyote Creek-L1Water Crossing_CTF2	Rough Terrain Forklifts	1	2.80	100	0.40	131	14672
Coyote Creek-L1Water Crossing_CTF2	Forklifts	2	3.50	82	0.20	131	15038.8
Coyote Creek-L1Water Crossing_CTF2	Plate Compactors	2	1.40	8	0.43	131	1261.792
Coyote Creek-L1Water Crossing_CTF3	Tractors/Loaders/Backhoes	2	2.45	84	0.37	21	3198.132
Carbon Creek-L1 Water Crossing_CTF1	Rough Terrain Forklifts	1	2.70	100	0.40	89	9612
Carbon Creek-L1 Water Crossing_CTF1	Forklifts	1	2.70	82	0.20	89	3940.92
Carbon Creek-L1 Water Crossing_CTF1	Pumps	1	4.20	11	0.74	89	3042.732
Carbon Creek-L1 Water Crossing_CTF1	Tractors/Loaders/Backhoes	2	2.40	84	0.37	89	13277.376
Carbon Creek-L1 Water Crossing_CTF1	Plate Compactors	2	4.20	8	0.43	89	2571.744
Carbon Creek-L1 Water Crossing_CTF1	Other Construction Equipment	4	4.20	82	0.42	89	51494.688
San Gabriel River-L2 Water Crossing_CTF1	Excavators	2	2.70	36	0.38	65	4801.68
San Gabriel River-L2 Water Crossing_CTF3	Bore/Drill Rigs	2	3.75	83	0.50	108	33615
San Gabriel River-L2 Water Crossing_CTF4	Rubber Tired Loaders	3	5.25	150	0.36	152	129276
San Gabriel River-L2 Water Crossing_CTF5	Rough Terrain Forklifts	1	3.50	100	0.40	347	48580
San Gabriel River-L2 Water Crossing_CTF6	Bore/Drill Rigs	2	4.50	83	0.50	435	162472.5
San Gabriel River-L2 Water Crossing_CTF7	Other Construction Equipment	3	2.70	82	0.42	457	127486.548
San Gabriel River-L2 Water Crossing_CTF8	Cranes	1	3.15	367	0.29	110	36877.995
San Gabriel River-L2 Water Crossing_CTF9	Pumps	2	5.25	11	0.74	175	14957.25
Rio Hondo SG-L3 Water Crossing_CTF1	Excavators	2	3.50	36	0.38	150	14364
Rio Hondo SG-L3 Water Crossing_CTF2	Rough Terrain Forklifts	1	2.80	100	0.40	216	24192
Rio Hondo SG-L3 Water Crossing_CTF3	Rubber Tired Loaders	3	4.90	150	0.36	325	257985
Rio Hondo SG-L3 Water Crossing_CTF3	Other Construction Equipment	4	3.50	82	0.42	325	156702
Rio Hondo River-L3 Water Crossing_CTF1	Excavators	2	3.50	36	0.38	150	14364
Rio Hondo River-L3 Water Crossing_CTF2	Rubber Tired Loaders	3	4.90	150	0.36	325	257985

Phase Name	Equipment	# of Equipment	Hours/Day	HP	Load Factor	Days	Total HP-HR
Rio Hondo River-L3 Water Crossing_CTF2	Rough Terrain Forklifts	1	2.80	100	0.40	325	36400
Rio Hondo River-L3 Water Crossing_CTF2	Other Construction Equipment	4	3.50	82	0.42	325	156702
Rio Hondo River-L3 Water Crossing_CTF3	Bore/Drill Rigs	2	5.60	83	0.50	65	30212
Rio Hondo River-L3 Water Crossing_CTF5	Pumps	2	3.85	11	0.74	108	6769.224
Rio Hondo River-L3 Water Crossing_CTF6	Cranes	1	3.85	367	0.29	173	70887.7015
Coyote Creek-N Fork-L3 Water Crossing_CTF1	Excavators	2	2.70	36	0.38	85	6279.12
Coyote Creek-N Fork-L3 Water Crossing_CTF2	Rubber Tired Loaders	3	5.25	150	0.36	108	91854
Coyote Creek-N Fork-L3 Water Crossing_CTF3	Other Construction Equipment	6	2.70	82	0.42	260	145061.28
Coyote Creek-N Fork-L3 Water Crossing_CTF4	Rough Terrain Forklifts	1	3.50	100	0.40	455	63700
Coyote Creek-N Fork-L3 Water Crossing_CTF5	Bore/Drill Rigs	2	3.75	83	0.50	63	19608.75
Coyote Creek-N Fork-L3 Water Crossing_CTF6	Pumps	2	5.25	11	0.74	173	14786.31
Coyote Creek-N Fork-L3 Water Crossing_CTF6	Cranes	1	3.15	367	0.29	173	57999.0285
Coyote Creek-N Fork-L3 Water Crossing_CTF7	Bore/Drill Rigs	2	4.50	83	0.50	218	81423
La Mirada Creek-L3 Water Crossing_CTF1	Rubber Tired Loaders	3	3.85	150	0.36	87	54261.9
La Mirada Creek-L3 Water Crossing_CTF2	Cranes	1	2.45	367	0.29	130	33897.955
La Mirada Creek-L3 Water Crossing_CTF2	Bore/Drill Rigs	1	4.20	83	0.50	130	22659
La Mirada Creek-L3 Water Crossing_CTF3	Rough Terrain Forklifts	1	2.80	100	0.40	260	29120
La Mirada Creek-L3 Water Crossing_CTF3	Other Construction Equipment	6	3.60	82	0.42	260	193415.04
La Mirada Creek-L3 Water Crossing_CTF4	Pumps	2	4.20	11	0.74	43	2940.168
Brea Creek-L3 Water Crossing_CTF1	Excavators	1	5.60	36	0.38	42	3217.536
Brea Creek-L3 Water Crossing_CTF3	Rubber Tired Loaders	3	4.90	150	0.36	130	103194
Brea Creek-L3 Water Crossing_CTF4	Other Construction Equipment	6	3.30	82	0.42	217	147974.904
Brea Creek-L3 Water Crossing_CTF4	Bore/Drill Rigs	1	4.50	83	0.50	217	40524.75
Brea Creek-L3 Water Crossing_CTF5	Pumps	2	4.55	11	0.74	43	3185.182
Brea Creek-L3 Water Crossing_CTF7	Bore/Drill Rigs	1	4.55	83	0.50	175	33044.375
Brea Creek-L3 Water Crossing_CTF7	Cranes	1	4.20	367	0.29	175	78226.05
Brea Creek-L3 Water Crossing_CTF8	Rough Terrain Forklifts	1	3.15	100	0.40	392	49392
Redondo Jct TPSS_CTF1	Rubber Tired Loaders	2	4.80	150	0.36	216	111974.4
Redondo Jct TPSS_CTF2	Excavators	2	4.40	36	0.38	44	5296.896
Redondo Jct TPSS_CTF2	Pumps	1	6.40	11	0.74	44	2292.224
Redondo Jct TPSS_CTF3	Other Construction Equipment	6	6.00	82	0.42	261	323598.24
Redondo Jct TPSS_CTF4	Rough Terrain Forklifts	1	3.20	100	0.40	132	16896
Redondo Jct TPSS_CTF5	Sweepers/Scrubbers	1	2.40	36	0.46	20	794.88
Redondo Jct TPSS_CTF6	Rollers	1	3.20	36	0.38	22	963.072
Redondo Jct TPSS_CTF6	Surfacing Equipment	1	6.00	399	0.30	22	15800.4
Anaheim TPSS_CTF1	Rubber Tired Loaders	2	4.80	150	0.36	216	111974.4
Anaheim TPSS_CTF4	Pumps	1	6.40	11	0.74	22	1146.112
Anaheim TPSS_CTF5	Excavators	2	4.40	36	0.38	43	5176.512

Phase Name	Equipment	# of Equipment	Hours/Day	HP	Load Factor	Days	Total HP-HR
Anaheim TPSS_CTF6	Rough Terrain Forklifts	1	3.20	100	0.40	132	16896
Anaheim TPSS_CTF7	Other Construction Equipment	6	6.00	82	0.42	239	296321.76
Anaheim TPSS_CTF8	Sweepers/Scrubbers	1	2.40	36	0.46	20	794.88
Anaheim TPSS_CTF8	Rollers	1	3.20	36	0.38	20	875.52
Anaheim TPSS_CTF8	Surfacing Equipment	1	6.00	399	0.30	20	14364
Paralleling Station #2_CTF1	Rubber Tired Loaders	1	4.00	150	0.36	23	4968
Paralleling Station #2_CTF3	Other Construction Equipment	3	4.80	82	0.42	261	129439.296
Paralleling Station #2_CTF4	Pumps	1	6.40	11	0.74	22	1146.112
Paralleling Station #2_CTF5	Rough Terrain Forklifts	1	4.00	100	0.40	20	3200
Paralleling Station #2_CTF6	Sweepers/Scrubbers	1	1.60	36	0.46	22	582.912
Paralleling Station #2_CTF6	Rollers	1	2.80	36	0.38	22	842.688
Paralleling Station #2_CTF6	Surfacing Equipment	1	6.40	399	0.30	22	16853.76
Paralleling Station #4_CTF1	Rubber Tired Loaders	1	4.00	150	0.36	23	4968
Paralleling Station #4_CTF3	Other Construction Equipment	3	4.80	82	0.42	261	129439.296
Paralleling Station #4_CTF4	Pumps	1	6.40	11	0.74	22	1146.112
Paralleling Station #4_CTF5	Rough Terrain Forklifts	1	4.00	100	0.40	20	3200
Paralleling Station #4_CTF6	Sweepers/Scrubbers	1	1.60	36	0.46	22	582.912
Paralleling Station #4_CTF6	Rollers	1	2.80	36	0.38	22	842.688
Paralleling Station #4_CTF6	Surfacing Equipment	1	6.40	399	0.30	22	16853.76
Switching Station_CTF1	Excavators	1	4.00	36	0.38	22	1203.84
Switching Station_CTF1	Rubber Tired Loaders	1	4.00	150	0.36	22	4752
Switching Station_CTF2	Other Construction Equipment	3	4.80	82	0.42	129	63975.744
Switching Station_CTF3	Pumps	1	6.40	11	0.74	20	1041.92
Switching Station_CTF4	Rough Terrain Forklifts	1	4.00	100	0.40	44	7040
Switching Station_CTF5	Sweepers/Scrubbers	1	1.60	36	0.46	22	582.912
Switching Station_CTF5	Rollers	1	2.80	36	0.38	22	842.688
Switching Station_CTF5	Surfacing Equipment	1	6.40	399	0.30	22	16853.76
Communciation Tower #1_CTF1	Rubber Tired Loaders	1	5.20	150	0.36	23	6458.4
Communciation Tower #1_CTF1	Rough Terrain Forklifts	1	4.80	100	0.40	23	4416
Communciation Tower #1_CTF2	Other Construction Equipment	3	5.60	82	0.42	66	38187.072
Communciation Tower #1_CTF2	Sweepers/Scrubbers	1	1.60	36	0.46	66	1748.736
Communciation Tower #1_CTF2	Rollers	1	1.60	36	0.38	66	1444.608
Communciation Tower #1_CTF2	Surfacing Equipment	1	4.80	399	0.30	66	37920.96
Communciation Tower #1_CTF3	Pumps	1	6.00	11	0.74	22	1074.48
Communciation Tower #3_CTF1	Rubber Tired Loaders	1	5.20	150	0.36	42	11793.6
Communciation Tower #3_CTF2	Rough Terrain Forklifts	1	4.80	100	0.40	64	12288
Communciation Tower #3_CTF2	Other Construction Equipment	3	5.60	82	0.42	64	37029.888
Communciation Tower #3_CTF4	Pumps	1	6.00	11	0.74	22	1074.48

Phase Name	Equipment	# of Equipment	Hours/Day	HP	Load Factor	Days	Total HP-HR
Communciation Tower #3_CTF4	Sweepers/Scrubbers	1	1.60	36	0.46	22	582.912
Communciation Tower #3_CTF4	Rollers	1	1.60	36	0.38	22	481.536
Communciation Tower #3_CTF4	Surfacing Equipment	1	4.80	399	0.30	22	12640.32
Communciation Tower #5_CTF1	Rubber Tired Loaders	1	5.20	150	0.36	22	6177.6
Communciation Tower #5_CTF2	Rough Terrain Forklifts	1	4.80	100	0.40	66	12672
Communciation Tower #5_CTF2	Other Construction Equipment	3	5.60	82	0.42	66	38187.072
Communciation Tower #5_CTF3	Sweepers/Scrubbers	1	1.60	36	0.46	23	609.408
Communciation Tower #5_CTF3	Rollers	1	1.60	36	0.38	23	503.424
Communciation Tower #5_CTF3	Surfacing Equipment	1	4.80	399	0.30	23	13214.88
Communciation Tower #5_CTF4	Pumps	1	6.00	11	0.74	21	1025.64
Communciation Tower #7_CTF1	Rubber Tired Loaders	1	5.20	150	0.36	43	12074.4
Communciation Tower #7_CTF3	Other Construction Equipment	3	5.60	82	0.42	86	49758.912
Communciation Tower #7_CTF4	Rough Terrain Forklifts	1	4.80	100	0.40	65	12480
Communciation Tower #7_CTF5	Pumps	1	6.00	11	0.74	23	1123.32
Communciation Tower #7_CTF6	Sweepers/Scrubbers	1	1.60	36	0.46	20	529.92
Communciation Tower #7_CTF6	Rollers	1	1.60	36	0.38	20	437.76
Communciation Tower #7_CTF6	Surfacing Equipment	1	4.80	399	0.30	20	11491.2
Communciation Tower #9_CTF1	Rubber Tired Loaders	1	5.20	150	0.36	43	12074.4
Communciation Tower #9_CTF3	Other Construction Equipment	3	5.60	82	0.42	86	49758.912
Communciation Tower #9_CTF4	Rough Terrain Forklifts	1	4.80	100	0.40	65	12480
Communciation Tower #9_CTF5	Pumps	1	6.00	11	0.74	23	1123.32
Communciation Tower #9_CTF6	Sweepers/Scrubbers	1	1.60	36	0.46	20	529.92
Communciation Tower #9_CTF6	Rollers	1	1.60	36	0.38	20	437.76
Communciation Tower #9_CTF6	Surfacing Equipment	1	4.80	399	0.30	20	11491.2
Communciation Tower #11_CTF1	Rubber Tired Loaders	1	5.20	150	0.36	22	6177.6
Communciation Tower #11_CTF2	Rough Terrain Forklifts	1	4.80	100	0.40	66	12672
Communciation Tower #11_CTF2	Other Construction Equipment	3	5.60	82	0.42	66	38187.072
Communciation Tower #11_CTF3	Sweepers/Scrubbers	1	1.60	36	0.46	23	609.408
Communciation Tower #11_CTF3	Rollers	1	1.60	36	0.38	23	503.424
Communciation Tower #11_CTF3	Surfacing Equipment	1	4.80	399	0.30	23	13214.88
Communciation Tower #11_CTF4	Pumps	1	6.00	11	0.74	21	1025.64
Communciation Tower #13_CTF1	Rubber Tired Loaders	1	5.20	150	0.36	42	11793.6
Communciation Tower #13_CTF2	Rough Terrain Forklifts	1	4.80	100	0.40	64	12288
Communciation Tower #13_CTF2	Other Construction Equipment	3	5.60	82	0.42	64	37029.888
Communciation Tower #13_CTF4	Pumps	1	6.00	11	0.74	22	1074.48
Communciation Tower #13_CTF4	Sweepers/Scrubbers	1	1.60	36	0.46	22	582.912
Communciation Tower #13_CTF4	Rollers	1	1.60	36	0.38	22	481.536
Communciation Tower #13_CTF4	Surfacing Equipment	1	4.80	399	0.30	22	12640.32

Phase Name	Equipment	# of Equipment	Hours/Day	HP	Load Factor	Days	Total HP-HR
Communciation Tower #15_CTF1	Rubber Tired Loaders	1	5.20	150	0.36	23	6458.4
Communciation Tower #15_CTF1	Rough Terrain Forklifts	1	4.80	100	0.40	23	4416
Communciation Tower #15_CTF2	Other Construction Equipment	3	5.60	82	0.42	66	38187.072
Communciation Tower #15_CTF2	Sweepers/Scrubbers	1	1.60	36	0.46	66	1748.736
Communciation Tower #15_CTF2	Rollers	1	1.60	36	0.38	66	1444.608
Communciation Tower #15_CTF2	Surfacing Equipment	1	4.80	399	0.30	66	37920.96
Communciation Tower #15_CTF3	Pumps	1	6.00	11	0.74	22	1074.48
LMF Support Structures_CTF1	Excavators	2	3.60	36	0.38	130	12804.48
LMF Support Structures_CTF2	Rubber Tired Loaders	4	2.80	150	0.36	261	157852.8
LMF Support Structures_CTF2	Other Construction Equipment	6	0.90	82	0.42	261	48539.736
LMF Support Structures_CTF2	Tractors/Loaders/Backhoes	1	5.25	84	0.37	261	42587.37
LMF Support Structures_CTF2	Plate Compactors	3	4.20	8	0.43	261	11312.784
LMF Support Structures_CTF4	Cranes	2	4.20	367	0.29	152	135889.824
LMF Support Structures_CTF4	Pumps	4	1.05	11	0.74	152	5196.576
LMF Support Structures_CTF5	Rough Terrain Forklifts	3	3.50	100	0.40	142	59640
LMF Support Structures_CTF5	Bore/Drill Rigs	2	4.55	83	0.50	142	53626.3
LMF Support Structures_CTF6	Graders	1	5.25	148	0.41	66	21025.62
LMF Support Structures_CTF6	Rollers	2	2.45	36	0.38	66	4424.112
LMF Support Structures_CTF7	Pavers	1	2.40	81	0.42	66	5388.768
Hobart Yard Improvements_CTF1	Trenchers	2	2.80	40	0.50	77	8624
Hobart Yard Improvements_CTF2	Rubber Tired Loaders	5	4.00	150	0.36	103	111240
Hobart Yard Improvements_CTF3	Crawler Tractors	3	2.00	87	0.43	155	34791.3
Hobart Yard Improvements_CTF4	Other Construction Equipment	10	4.40	82	0.42	861	1304724.96
Hobart Yard Improvements_CTF4	Tractors/Loaders/Backhoes	4	5.20	84	0.37	861	556605.504
Hobart Yard Improvements_CTF4	Rubber Tired Loaders	2	5.60	150	0.36	861	520732.8
Hobart Yard Improvements_CTF6	Tractors/Loaders/Backhoes	5	5.20	84	0.37	262	211716.96
Hobart Yard Improvements_CTF7	Graders	3	3.20	148	0.41	235	136894.08
Hobart Yard Improvements_CTF7	Cranes	3	3.20	367	0.29	235	240106.08
Hobart Yard Improvements_CTF7	Crawler Tractors	3	2.00	87	0.43	235	52748.1
Hobart Yard Improvements_CTF7	Graders	3	3.60	148	0.41	235	154005.84
Hobart Yard Improvements_CTF8	Crawler Tractors	1	4.80	87	0.43	208	37350.144
Hobart Yard Improvements_CTF9	Rubber Tired Loaders	4	4.00	150	0.36	392	338688
Hobart Yard Improvements_CTF9	Rubber Tired Dozers	4	3.60	367	0.40	392	828656.64
Hobart Yard Improvements_CTF9	Forklifts	6	2.40	82	0.20	392	92574.72
Hobart Yard Improvements_CTF9	Tractors/Loaders/Backhoes	6	2.80	84	0.37	392	204680.448
Hobart Yard Improvements_CTF9	Crawler Tractors	2	2.00	87	0.43	392	58658.88
Hobart Yard Improvements_CTF9	Other Construction Equipment	6	4.80	82	0.42	392	388813.824
Hobart Yard Improvements_CTF10	Rollers	3	2.00	36	0.38	103	8454.24
Hobart Yard Improvements_CTF11	Forklifts	3	4.80	82	0.20	77	18184.32

Phase Name	Equipment	# of Equipment	Hours/Day	HP	Load Factor	Days	Total HP-HR
Hobart Yard Improvements_CTF11	Rubber Tired Loaders	6	5.60	150	0.36	77	139708.8
Hobart Yard Improvements_CTF12	Paving Equipment	2	5.20	89	0.36	208	69308.928
Hobart Yard Improvements_CTF12	Rollers	2	2.40	36	0.38	208	13658.112
Commerce Yard Improvements_CTF1	Trenchers	1	5.60	40	0.50	53	5936
Commerce Yard Improvements_CTF3	Rubber Tired Loaders	4	4.40	150	0.36	236	224294.4
Commerce Yard Improvements_CTF3	Tractors/Loaders/Backhoes	3	4.40	84	0.37	236	96820.416
Commerce Yard Improvements_CTF3	Rough Terrain Forklifts	3	3.60	100	0.40	236	101952
Commerce Yard Improvements_CTF3	Graders	3	3.60	148	0.41	236	154661.184
Commerce Yard Improvements_CTF3	Rollers	3	3.60	36	0.38	236	34867.584
Commerce Yard Improvements_CTF4	Forklifts	3	3.20	82	0.20	314	49436.16
Commerce Yard Improvements_CTF5	Other Construction Equipment	10	4.00	82	0.42	367	505579.2
Commerce Yard Improvements_CTF6	Air Compressors	2	4.40	37	0.48	314	49074.432
Commerce Yard Improvements_CTF6	Generator Sets	2	3.60	14	0.74	314	23421.888
Commerce Yard Improvements_CTF6	Plate Compactors	4	3.20	8	0.43	314	13826.048
Commerce Yard Improvements_CTF7	Paving Equipment	2	5.60	89	0.36	105	37679.04
Commerce Yard Improvements_CTF7	Rollers	2	2.00	36	0.38	105	5745.6
15th St HSR LMF_CTF1	Trenchers	1	0.16	40	0.50	262	838.4
15th St HSR LMF_CTF1	Rubber Tired Loaders	2	1.05	150	0.36	262	29710.8
15th St HSR LMF_CTF1	Other Construction Equipment	4	4.90	82	0.42	262	176856.288
15th St HSR LMF_CTF2	Crawler Tractors	10	3.50	87	0.43	652	853696.2
15th St HSR LMF_CTF3	Other Material Handling Equipment	3	1.75	93	0.40	912	178113.6
15th St HSR LMF_CTF4	Other Construction Equipment	5	2.70	82	0.42	912	424025.28
15th St HSR LMF_CTF5	Rubber Tired Loaders	6	3.50	150	0.36	390	442260
15th St HSR LMF_CTF5	Excavators	2	2.45	36	0.38	390	26142.48
15th St HSR LMF_CTF6	Rubber Tired Dozers	2	1.75	367	0.40	175	89915
15th St HSR LMF_CTF7	Bore/Drill Rigs	2	4.76	83	0.50	131	51755.48
15th St HSR LMF_CTF7	Cranes	1	0.90	367	0.29	131	12548.097
15th St HSR LMF_CTF8	Crawler Tractors	2	1.35	87	0.43	196	19797.372
15th St HSR LMF_CTF8	Rubber Tired Loaders	4	6.75	150	0.36	196	285768
15th St HSR LMF_CTF9	Pumps	3	2.45	11	0.74	132	7897.428
15th St HSR LMF_CTF10	Graders	2	3.85	148	0.41	260	121481.36
15th St HSR LMF_CTF10	Rubber Tired Loaders	4	2.45	150	0.36	260	137592
15th St HSR LMF_CTF11	Pumps	6	2.40	11	0.74	175	20512.8
15th St HSR LMF_CTF12	Forklifts	1	3.25	82	0.20	262	13964.6
15th St HSR LMF_CTF13	Rollers	2	1.75	36	0.38	86	4117.68
15th St HSR LMF_CTF14	Rubber Tired Loaders	2	4.55	150	0.36	42	20638.8
Commerce Metrolink Stn_CTF1	Excavators	1	3.60	36	0.38	64	3151.872
Commerce Metrolink Stn_CTF1	Rubber Tired Loaders	2	5.60	150	0.36	64	38707.2
Commerce Metrolink Stn_CTF2	Other Construction Equipment	6	6.00	82	0.42	261	323598.24

Phase Name	Equipment	# of Equipment	Hours/Day	HP	Load Factor	Days	Total HP-HR
Commerce Metrolink Stn_CTF3	Tractors/Loaders/Backhoes	1	4.00	84	0.37	65	8080.8
Commerce Metrolink Stn_CTF3	Plate Compactors	2	4.00	8	0.43	65	1788.8
Commerce Metrolink Stn_CTF4	Graders	1	2.40	148	0.41	66	9611.712
Commerce Metrolink Stn_CTF5	Rollers	2	1.60	36	0.38	44	1926.144
Norwalk-SFS Metrolink Stn_CTF1	Excavators	1	2.70	36	0.38	65	2400.84
Norwalk-SFS Metrolink Stn_CTF1	Rubber Tired Loaders	2	4.55	150	0.36	65	31941
Norwalk-SFS Metrolink Stn_CTF2	Tractors/Loaders/Backhoes	2	4.55	84	0.37	390	110302.92
Norwalk-SFS Metrolink Stn_CTF2	Other Construction Equipment	4	3.90	82	0.42	390	209532.96
Norwalk-SFS Metrolink Stn_CTF3	Rollers	2	2.80	36	0.38	42	3217.536
Norwalk-SFS Metrolink Stn_CTF4	Pavers	2	4.55	81	0.42	22	6810.804
Norwalk-SFS Metrolink Stn_CTF4	Graders	1	5.25	148	0.41	22	7008.54
Buena Park Metrolink Stn_CTF1	Excavators	1	4.40	36	0.38	65	3912.48
Buena Park Metrolink Stn_CTF2	Other Construction Equipment	6	4.80	82	0.42	325	322358.4
Buena Park Metrolink Stn_CTF3	Graders	1	2.40	148	0.41	66	9611.712
Buena Park Metrolink Stn_CTF4	Rubber Tired Loaders	2	5.60	150	0.36	88	53222.4
Buena Park Metrolink Stn_CTF5	Rollers	2	1.60	36	0.38	23	1006.848
Buena Park Metrolink Stn_CTF5	Tractors/Loaders/Backhoes	1	4.00	84	0.37	23	2859.36
Buena Park Metrolink Stn_CTF5	Plate Compactors	2	4.00	8	0.43	23	632.96
ARTIC Station_CTF1	Excavators	2	3.90	36	0.38	151	16112.304
ARTIC Station_CTF2	Rubber Tired Loaders	3	5.60	150	0.36	174	157852.8
ARTIC Station_CTF2	Rough Terrain Forklifts	1	2.10	100	0.40	174	14616
ARTIC Station_CTF4	Other Construction Equipment	6	3.00	82	0.42	783	485397.36
ARTIC Station_CTF5	Bore/Drill Rigs	1	1.50	83	0.50	107	6660.75
ARTIC Station_CTF6	Cranes	1	1.40	367	0.29	152	22648.304
ARTIC Station_CTF7	Pumps	2	1.40	11	0.74	368	8387.456
ARTIC Station_CTF8	Graders	1	5.60	148	0.41	43	14611.744
ARTIC Station_CTF9	Rollers	1	3.85	36	0.38	66	3476.088
ARTIC Station_CTF9	Plate Compactors	4	1.80	8	0.43	66	1634.688
ARTIC Station_CTF10	Pavers	1	5.95	81	0.42	20	4048.38
ARTIC Station_CTF11	Tractors/Loaders/Backhoes	3	4.20	84	0.37	151	59132.808
Fullerton Metrolink Stn_FD	Other Construction Equipment	4	1	82	0.42	283	35087.472
Fullerton Metrolink Stn_CTF1	Excavators	2	4	36	0.38	87	8569.152
Fullerton Metrolink Stn_CTF1	Rough Terrain Forklifts	1	2	100	0.40	87	7308
Fullerton Metrolink Stn_CTF1	Rubber Tired Loaders	4	4	150	0.36	87	78926.4
Fullerton Metrolink Stn_CTF2	Air Compressors	1	1	37	0.48	64	1193.472
Fullerton Metrolink Stn_CTF2	Cranes	2	2	367	0.29	64	28608.384
Fullerton Metrolink Stn_CTF3	Graders	1	5	148	0.41	44	14017.08
Fullerton Metrolink Stn_CTF3	Plate Compactors	3	1	8	0.43	44	635.712
Fullerton Metrolink Stn_CTF3	Rollers	2	1	36	0.38	44	1685.376

Phase Name	Equipment	# of Equipment	Hours/Day	HP	Load Factor	Days	Total HP-HR
Fullerton Metrolink Stn_CTF3	Rough Terrain Forklifts	1	2	100	0.40	44	3696
Fullerton Metrolink Stn_CTF4	Rough Terrain Forklifts	1	2	100	0.40	110	9240
Fullerton Metrolink Stn_CTF4	Pumps	4	1	11	0.74	110	3760.68
Fullerton Metrolink Stn_CTF5	Pavers	1	2	81	0.42	65	3980.34
Fullerton Metrolink Stn_CTF5	Air Compressors	1	5	37	0.48	65	5252.52

Total >100HP	19,924,586.99
Total <100HP	27,144,504.10

Notes:

1. CARB, 2017 Off-road Diesel Emission Factors
https://ww2.arb.ca.gov/resources/documents/2017-road-diesel-propane-gasoline-emission-factors

Haul Trucks

Onroad Travel Consumption	Value
EMFAC2021 Diesel Fuel Consumption Factor (gal/mi):[1]	0.149
Total VMT (mi):	15,041,924
Total diesel gallons	**2,235,507**
Idling Consumption	**Value**
Idling Fuel Consumption Factor (gal/hr):[2]	0.6400
Total Idle-Hours per Year:	9,935
Total diesel gallons	**6,359**

Total diesel gallons: 2,241,866

Phase	Days	Truck Trips per Day (In/Out)	Total Truck Trips	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
At-Grade Rail-Ballasted Track-2033_Utilities	260	2	520	0.1	50	HHDT	26052	21.66666667	3871.81	13.87	3885.67
At-Grade Rail-Ballasted Track-2033_Track Install	313	0	0	0	50	HHDT	0	26.08333333	0.00	16.69	16.69
At-Grade Rail-Ballasted Track-2034_Utilities	260	2	520	0.1	50	HHDT	26052	21.66666667	3871.81	13.87	3885.67
At-Grade Rail-Ballasted Track-2034_Track Install	312	0	0	0	50	HHDT	0	26	0.00	16.64	16.64
At-Grade Rail-Ballasted Track-2035_Utilities	66	2	132	0.1	50	HHDT	6613.2	5.5	982.84	3.52	986.36
At-Grade Rail-Ballasted Track-2035_Track Install	79	0	0	0	50	HHDT	0	6.583333333	0.00	4.21	4.21
At-Grade Rail-Ballasted Track-2036_Utilities	130	2	260	0.1	50	HHDT	13026	10.83333333	1935.90	6.93	1942.84
At-Grade Rail-Ballasted Track-2036_Track Install	156	0	0	0	50	HHDT	0	13	0.00	8.32	8.32
At-Grade Rail-Ballasted Track-2037_Utilities	86	2	172	0.1	50	HHDT	8617.2	7.166666667	1280.67	4.59	1285.26
At-Grade Rail-Ballasted Track-2037_Track Install	103	0	0	0	50	HHDT	0	8.583333333	0.00	5.49	5.49
South of Fullerton-Ballasted Track_FD	197	2	394	0.1	50	HHDT	19739.4	16.41666667	2933.64	10.51	2944.15
Rail Direct Fixation_CTF1	130	0	0	0	50	HHDT	0	10.83333333	0.00	6.93	6.93
Rail Direct Fixation_CTF2	261	0	0	0	50	HHDT	0	21.75	0.00	13.92	13.92
Rail Direct Fixation_CTF3	262	0	0	0	50	HHDT	0	21.83333333	0.00	13.97	13.97
Commerce Viaduct_FD	652	10	6520	0.1	50	HHDT	326652	54.33333333	48546.51	34.77	48581.29
Commerce Viaduct_Box Girders	695	0	0	0	50	HHDT	0	57.91666667	0.00	37.07	37.07
Commerce Viaduct_CTF1	217	0	0	0	50	HHDT	0	18.08333333	0.00	11.57	11.57
Commerce Viaduct_CTF2	652	0	0	0	50	HHDT	0	54.33333333	0.00	34.77	34.77
Commerce Viaduct_CTF3	261	0	0	0	50	HHDT	0	21.75	0.00	13.92	13.92
Commerce Viaduct_CTF4	107	0	0	0	50	HHDT	0	8.916666667	0.00	5.71	5.71
Commerce Viaduct_CTF5	695	0	0	0	50	HHDT	0	57.91666667	0.00	37.07	37.07
Commerce Viaduct_CTF6	436	0	0	0	50	HHDT	0	36.33333333	0.00	23.25	23.25
Commerce Viaduct_CTF7	522	0	0	0	50	HHDT	0	43.5	0.00	27.84	27.84
Norwalk-SFS Viaduct_FD	782	8	6256	0.1	50	HHDT	313425.6	65.16666667	46580.83	41.71	46622.53
Norwalk-SFS Viaduct_Box Girders	653	0	0	0	50	HHDT	0	54.41666667	0.00	34.83	34.83
Norwalk-SFS Viaduct_CTF1	782	0	0	0	50	HHDT	0	65.16666667	0.00	41.71	41.71
Norwalk-SFS Viaduct_CTF2	261	0	0	0	50	HHDT	0	21.75	0.00	13.92	13.92
Norwalk-SFS Viaduct_CTF3	107	0	0	0	50	HHDT	0	8.916666667	0.00	5.71	5.71
Norwalk-SFS Viaduct_CTF4	522	0	0	0	50	HHDT	0	43.5	0.00	27.84	27.84
Norwalk-SFS Viaduct_CTF5	653	0	0	0	50	HHDT	0	54.41666667	0.00	34.83	34.83
Norwalk-SFS Viaduct_CTF6	261	0	0	0	50	HHDT	0	21.75	0.00	13.92	13.92
Fullerton Trench_FD	912	42	38304	0.1	50	HHDT	1919030.4	76	285203.32	48.64	285251.96
Fullerton Trench_CTF1	653	0	0	0	50	HHDT	0	54.41666667	0.00	34.83	34.83
Fullerton Trench_CTF2	912	0	0	0	50	HHDT	0	76	0.00	48.64	48.64
Fullerton Trench_CTF3	175	0	0	0	50	HHDT	0	14.58333333	0.00	9.33	9.33
Fullerton Trench_CTF4	131	0	0	0	50	HHDT	0	10.91666667	0.00	6.99	6.99
Fullerton Trench_CTF5	717	0	0	0	50	HHDT	0	59.75	0.00	38.24	38.24
Fullerton Trench_CTF6	132	0	0	0	50	HHDT	0	11	0.00	7.04	7.04
Fullerton Trench_CTF7	260	0	0	0	50	HHDT	0	21.66666667	0.00	13.87	13.87
Fullerton Trench_CTF8	175	0	0	0	50	HHDT	0	14.58333333	0.00	9.33	9.33
Fullerton Trench_CTF9	261	0	0	0	50	HHDT	0	21.75	0.00	13.92	13.92

Phase	Days	Truck Trips per Day (In/Out)	Total Truck Trips	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Fullerton Trench_CTF10	86	0	0	0	50	HHDT	0	7.166666667	0.00	4.59	4.59
Fullerton Trench_CTF11	42	0	0	0	50	HHDT	0	3.5	0.00	2.24	2.24
I-10-L1 Grade Separation_FD	155	0	0	0	50	HHDT	0	12.91666667	0.00	8.27	8.27
South Downey Rd-L1 Grade Separation_FD	326	0	0	0	50	HHDT	0	27.16666667	0.00	17.39	17.39
South Downey Rd-L1 Grade Separation_CTF1	326	0	0	0	50	HHDT	0	27.16666667	0.00	17.39	17.39
South Downey Rd-L1 Grade Separation_CTF2	240	0	0	0	50	HHDT	0	20	0.00	12.80	12.80
South Downey Rd-L1 Grade Separation_CTF3	390	0	0	0	50	HHDT	0	32.5	0.00	20.80	20.80
I-710-L1 Grade Separation_FD	53	0	0	0	50	HHDT	0	4.416666667	0.00	2.83	2.83
I-5-L1 Grade Separation_FD	52	0	0	0	50	HHDT	0	4.333333333	0.00	2.77	2.77
Greenwood Ave-L1 Grade Separation_FD	53	0	0	0	50	HHDT	0	4.416666667	0.00	2.83	2.83
Paramount Blvd-L1 Grade Separation_FD	51	0	0	0	50	HHDT	0	4.25	0.00	2.72	2.72
SR-91-L1 Grade Separation_FD	42	0	0	0	50	HHDT	0	3.5	0.00	2.24	2.24
Lincoln Ave-L1 Grade Separation_FD	44	0	0	0	50	HHDT	0	3.666666667	0.00	2.35	2.35
Eastern Ave-L2 Grade Separation_FD	457	2	914	0.1	50	HHDT	45791.4	38.08333333	6805.45	24.37	6829.82
Eastern Ave-L2 Grade Separation_CTF1	108	0	0	0	50	HHDT	0	9	0.00	5.76	5.76
Eastern Ave-L2 Grade Separation_CTF2	457	0	0	0	50	HHDT	0	38.08333333	0.00	24.37	24.37
Eastern Ave-L2 Grade Separation_CTF3	43	0	0	0	50	HHDT	0	3.583333333	0.00	2.29	2.29
Eastern Ave-L2 Grade Separation_CTF4	108	0	0	0	50	HHDT	0	9	0.00	5.76	5.76
Eastern Ave-L2 Grade Separation_CTF5	131	0	0	0	50	HHDT	0	10.91666667	0.00	6.99	6.99
Eastern Ave-L2 Grade Separation_CTF6	195	0	0	0	50	HHDT	0	16.25	0.00	10.40	10.40
Eastern Ave-L2 Grade Separation_CTF7	261	0	0	0	50	HHDT	0	21.75	0.00	13.92	13.92
Eastern Ave-L2 Grade Separation_CTF8	45	0	0	0	50	HHDT	0	3.75	0.00	2.40	2.40
Eastern Ave-L2 Grade Separation_CTF9	85	0	0	0	50	HHDT	0	7.083333333	0.00	4.53	4.53
Passons Blvd-L2 Grade Separation_FD	326	2	652	0.1	50	HHDT	32665.2	27.16666667	4854.65	17.39	4872.04
Passons Blvd-L2 Grade Separation_CTF1	42	0	0	0	50	HHDT	0	3.5	0.00	2.24	2.24
Passons Blvd-L2 Grade Separation_CTF2	87	0	0	0	50	HHDT	0	7.25	0.00	4.64	4.64
Passons Blvd-L2 Grade Separation_CTF3	130	0	0	0	50	HHDT	0	10.83333333	0.00	6.93	6.93
Passons Blvd-L2 Grade Separation_CTF4	326	0	0	0	50	HHDT	0	27.16666667	0.00	17.39	17.39
Passons Blvd-L2 Grade Separation_CTF5	65	0	0	0	50	HHDT	0	5.416666667	0.00	3.47	3.47
Passons Blvd-L2 Grade Separation_CTF6	65	0	0	0	50	HHDT	0	5.416666667	0.00	3.47	3.47
Passons Blvd-L2 Grade Separation_CTF7	87	0	0	0	50	HHDT	0	7.25	0.00	4.64	4.64
Sante Fe Springs-L2 Grade Separation_FD	326	2	652	0.1	50	HHDT	32665.2	27.16666667	4854.65	17.39	4872.04
Sante Fe Springs-L2 Grade Separation_CTF1	87	0	0	0	50	HHDT	0	7.25	0.00	4.64	4.64
Sante Fe Springs-L2 Grade Separation_CTF2	326	0	0	0	50	HHDT	0	27.16666667	0.00	17.39	17.39
Sante Fe Springs-L2 Grade Separation_CTF3	110	0	0	0	50	HHDT	0	9.166666667	0.00	5.87	5.87
Sante Fe Springs-L2 Grade Separation_CTF4	132	0	0	0	50	HHDT	0	11	0.00	7.04	7.04
Sante Fe Springs-L2 Grade Separation_CTF5	43	0	0	0	50	HHDT	0	3.583333333	0.00	2.29	2.29
Sante Fe Springs-L2 Grade Separation_CTF6	87	0	0	0	50	HHDT	0	7.25	0.00	4.64	4.64
Sante Fe Springs-L2 Grade Separation_CTF7	107	0	0	0	50	HHDT	0	8.916666667	0.00	5.71	5.71
Telegraph Road-L2 Grade Separation_FD	390	2	780	0.1	50	HHDT	39078	32.5	5807.71	20.80	5828.51
Telegraph Road-L2 Grade Separation_CTF1	64	0	0	0	50	HHDT	0	5.333333333	0.00	3.41	3.41
Telegraph Road-L2 Grade Separation_CTF2	85	0	0	0	50	HHDT	0	7.083333333	0.00	4.53	4.53
Telegraph Road-L2 Grade Separation_CTF3	390	0	0	0	50	HHDT	0	32.5	0.00	20.80	20.80
Telegraph Road-L2 Grade Separation_CTF4	43	0	0	0	50	HHDT	0	3.583333333	0.00	2.29	2.29
Telegraph Road-L2 Grade Separation_CTF5	88	0	0	0	50	HHDT	0	7.333333333	0.00	4.69	4.69
Telegraph Road-L2 Grade Separation_CTF6	217	0	0	0	50	HHDT	0	18.08333333	0.00	11.57	11.57
Valley View Ave-L2 Grade Separation_FD	326	2	652	0.1	50	HHDT	32665.2	27.16666667	4854.65	17.39	4872.04
Valley View Ave-L2 Grade Separation_CTF1	44	0	0	0	50	HHDT	0	3.666666667	0.00	2.35	2.35
Valley View Ave-L2 Grade Separation_CTF2	326	0	0	0	50	HHDT	0	27.16666667	0.00	17.39	17.39
Valley View Ave-L2 Grade Separation_CTF3	43	0	0	0	50	HHDT	0	3.583333333	0.00	2.29	2.29
Valley View Ave-L2 Grade Separation_CTF4	66	0	0	0	50	HHDT	0	5.5	0.00	3.52	3.52
Valley View Ave-L2 Grade Separation_CTF5	64	0	0	0	50	HHDT	0	5.333333333	0.00	3.41	3.41
Valley View Ave-L2 Grade Separation_CTF6	107	0	0	0	50	HHDT	0	8.916666667	0.00	5.71	5.71
Valley View Ave-L2 Grade Separation_CTF7	151	0	0	0	50	HHDT	0	12.58333333	0.00	8.05	8.05

Phase	Days	Truck Trips per Day (In/Out)	Total Truck Trips	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Valley View Ave-L2 Grade Separation_CTF8	216	0	0	0	50	HHDT	0	18	0.00	11.52	11.52
Valley View Ave-L2 Grade Separation_CTF9	43	0	0	0	50	HHDT	0	3.583333333	0.00	2.29	2.29
Valley View Ave-L2 Grade Separation_CTF10	66	0	0	0	50	HHDT	0	5.5	0.00	3.52	3.52
Beach Blvd-L2 Grade Separation_FD	261	2	522	0.1	50	HHDT	26152.2	21.75	3886.70	13.92	3900.62
Beach Blvd-L2 Grade Separation_CTF1	43	0	0	0	50	HHDT	0	3.583333333	0.00	2.29	2.29
Beach Blvd-L2 Grade Separation_CTF2	87	0	0	0	50	HHDT	0	7.25	0.00	4.64	4.64
Beach Blvd-L2 Grade Separation_CTF3	109	0	0	0	50	HHDT	0	9.083333333	0.00	5.81	5.81
Beach Blvd-L2 Grade Separation_CTF4	261	0	0	0	50	HHDT	0	21.75	0.00	13.92	13.92
Beach Blvd-L2 Grade Separation_CTF5	109	0	0	0	50	HHDT	0	9.083333333	0.00	5.81	5.81
Beach Blvd-L2 Grade Separation_CTF6	109	0	0	0	50	HHDT	0	9.083333333	0.00	5.81	5.81
Gilbert St-L2 Grade Separation_FD	390	2	780	0.1	50	HHDT	39078	32.5	5807.71	20.80	5828.51
Gilbert St-L2 Grade Separation_CTF1	43	0	0	0	50	HHDT	0	3.583333333	0.00	2.29	2.29
Gilbert St-L2 Grade Separation_CTF2	86	0	0	0	50	HHDT	0	7.166666667	0.00	4.59	4.59
Gilbert St-L2 Grade Separation_CTF3	130	0	0	0	50	HHDT	0	10.83333333	0.00	6.93	6.93
Gilbert St-L2 Grade Separation_CTF4	390	0	0	0	50	HHDT	0	32.5	0.00	20.80	20.80
Gilbert St-L2 Grade Separation_CTF5	216	0	0	0	50	HHDT	0	18	0.00	11.52	11.52
Gilbert St-L2 Grade Separation_CTF6	132	0	0	0	50	HHDT	0	11	0.00	7.04	7.04
Gilbert St-L2 Grade Separation_CTF7	218	0	0	0	50	HHDT	0	18.16666667	0.00	11.63	11.63
Euclid St-L2 Grade Separation_FD	391	2	782	0.1	50	HHDT	39178.2	32.58333333	5822.60	20.85	5843.46
Euclid St-L2 Grade Separation_CTF1	262	0	0	0	50	HHDT	0	21.83333333	0.00	13.97	13.97
Euclid St-L2 Grade Separation_CTF2	283	0	0	0	50	HHDT	0	23.58333333	0.00	15.09	15.09
Euclid St-L2 Grade Separation_CTF3	326	0	0	0	50	HHDT	0	27.16666667	0.00	17.39	17.39
Euclid St-L2 Grade Separation_CTF4	391	0	0	0	50	HHDT	0	32.58333333	0.00	20.85	20.85
Euclid St-L2 Grade Separation_CTF5	43	0	0	0	50	HHDT	0	3.583333333	0.00	2.29	2.29
Euclid St-L2 Grade Separation_CTF6	88	0	0	0	50	HHDT	0	7.333333333	0.00	4.69	4.69
Euclid St-L2 Grade Separation_CTF7	43	0	0	0	50	HHDT	0	3.583333333	0.00	2.29	2.29
Euclid St-L2 Grade Separation_CTF8	154	0	0	0	50	HHDT	0	12.83333333	0.00	8.21	8.21
Lemon St-L2 Grade Separation_FD	650	0	0	0	50	HHDT	0	54.16666667	0.00	34.67	34.67
Lemon St-L2 Grade Separation_CTF1	238	0	0	0	50	HHDT	0	19.83333333	0.00	12.69	12.69
Lemon St-L2 Grade Separation_CTF2	650	0	0	0	50	HHDT	0	54.16666667	0.00	34.67	34.67
Lemon St-L2 Grade Separation_CTF3	79	0	0	0	50	HHDT	0	6.583333333	0.00	4.21	4.21
Lemon St-L2 Grade Separation_CTF4	261	0	0	0	50	HHDT	0	21.75	0.00	13.92	13.92
Lemon St-L2 Grade Separation_CTF5	109	0	0	0	50	HHDT	0	9.083333333	0.00	5.81	5.81
Lemon St-L2 Grade Separation_CTF6	132	0	0	0	50	HHDT	0	11	0.00	7.04	7.04
Lemon St-L2 Grade Separation_CTF7	305	0	0	0	50	HHDT	0	25.41666667	0.00	16.27	16.27
Atlantic Blvd-L3 Grade Separation_FD	328	2	656	0.1	50	HHDT	32865.6	27.33333333	4884.43	17.49	4901.93
Atlantic Blvd-L3 Grade Separation_CTF1	132	0	0	0	50	HHDT	0	11	0.00	7.04	7.04
Atlantic Blvd-L3 Grade Separation_CTF2	154	0	0	0	50	HHDT	0	12.83333333	0.00	8.21	8.21
Atlantic Blvd-L3 Grade Separation_CTF3	219	0	0	0	50	HHDT	0	18.25	0.00	11.68	11.68
Atlantic Blvd-L3 Grade Separation_CTF4	328	0	0	0	50	HHDT	0	27.33333333	0.00	17.49	17.49
Atlantic Blvd-L3 Grade Separation_CTF5	66	0	0	0	50	HHDT	0	5.5	0.00	3.52	3.52
Atlantic Blvd-L3 Grade Separation_CTF6	86	0	0	0	50	HHDT	0	7.166666667	0.00	4.59	4.59
Atlantic Blvd-L3 Grade Separation_CTF7	131	0	0	0	50	HHDT	0	10.91666667	0.00	6.99	6.99
Atlantic Blvd-L3 Grade Separation_CTF8	174	0	0	0	50	HHDT	0	14.5	0.00	9.28	9.28
Atlantic Blvd-L3 Grade Separation_CTF9	261	0	0	0	50	HHDT	0	21.75	0.00	13.92	13.92
Rosemead Blvd-L3 Grade Separation_FD	521	6	3126	0.1	50	HHDT	156612.6	43.41666667	23275.52	27.79	23303.31
Rosemead Blvd-L3 Grade Separation_CTF1	108	0	0	0	50	HHDT	0	9	0.00	5.76	5.76
Rosemead Blvd-L3 Grade Separation_CTF2	521	0	0	0	50	HHDT	0	43.41666667	0.00	27.79	27.79
Rosemead Blvd-L3 Grade Separation_CTF3	63	0	0	0	50	HHDT	0	5.25	0.00	3.36	3.36
Rosemead Blvd-L3 Grade Separation_CTF4	108	0	0	0	50	HHDT	0	9	0.00	5.76	5.76
Rosemead Blvd-L3 Grade Separation_CTF5	433	0	0	0	50	HHDT	0	36.08333333	0.00	23.09	23.09
Rosemead Blvd-L3 Grade Separation_CTF6	66	0	0	0	50	HHDT	0	5.5	0.00	3.52	3.52
Rosemead Blvd-L3 Grade Separation_CTF7	86	0	0	0	50	HHDT	0	7.166666667	0.00	4.59	4.59
Rosemead Blvd-L3 Grade Separation_CTF8	413	0	0	0	50	HHDT	0	34.41666667	0.00	22.03	22.03

Phase	Days	Truck Trips per Day (In/Out)	Total Truck Trips	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Rosemead Blvd-L3 Grade Separation_CTF9	45	0	0	0	50	HHDT	0	3.75	0.00	2.40	2.40
Rosemead Blvd-L3 Grade Separation_CTF10	260	0	0	0	50	HHDT	0	21.66666667	0.00	13.87	13.87
Rosemead Blvd-L3 Grade Separation_CTF11	109	0	0	0	50	HHDT	0	9.083333333	0.00	5.81	5.81
Rosemead Blvd-L3 Grade Separation_CTF12	22	0	0	0	50	HHDT	0	1.833333333	0.00	1.17	1.17
Rosemead Blvd-L3 Grade Separation_CTF13	109	0	0	0	50	HHDT	0	9.083333333	0.00	5.81	5.81
Rosemead Blvd-L3 Grade Separation_CTF14	43	0	0	0	50	HHDT	0	3.583333333	0.00	2.29	2.29
Rosemead Blvd-L3 Grade Separation_CTF15	86	0	0	0	50	HHDT	0	7.166666667	0.00	4.59	4.59
Rosemead Blvd-L3 Grade Separation_CTF16	66	0	0	0	50	HHDT	0	5.5	0.00	3.52	3.52
Slauson Ave-L3 Grade Separation_FD	347	2	694	0.1	50	HHDT	34769.4	28.91666667	5167.37	18.51	5185.88
Slauson Ave-L3 Grade Separation_CTF1	109	0	0	0	50	HHDT	0	9.083333333	0.00	5.81	5.81
Slauson Ave-L3 Grade Separation_CTF2	347	0	0	0	50	HHDT	0	28.91666667	0.00	18.51	18.51
Slauson Ave-L3 Grade Separation_CTF3	65	0	0	0	50	HHDT	0	5.416666667	0.00	3.47	3.47
Slauson Ave-L3 Grade Separation_CTF4	87	0	0	0	50	HHDT	0	7.25	0.00	4.64	4.64
Slauson Ave-L3 Grade Separation_CTF5	109	0	0	0	50	HHDT	0	9.083333333	0.00	5.81	5.81
Slauson Ave-L3 Grade Separation_CTF6	109	0	0	0	50	HHDT	0	9.083333333	0.00	5.81	5.81
Slauson Ave-L3 Grade Separation_CTF7	173	0	0	0	50	HHDT	0	14.41666667	0.00	9.23	9.23
Carmenita Rd-L3 Grade Separation_FD	521	4	2084	0.1	50	HHDT	104408.4	43.41666667	15517.01	27.79	15544.80
Carmenita Rd-L3 Grade Separation_CTF1	109	0	0	0	50	HHDT	0	9.083333333	0.00	5.81	5.81
Carmenita Rd-L3 Grade Separation_CTF2	196	0	0	0	50	HHDT	0	16.33333333	0.00	10.45	10.45
Carmenita Rd-L3 Grade Separation_CTF3	218	0	0	0	50	HHDT	0	18.16666667	0.00	11.63	11.63
Carmenita Rd-L3 Grade Separation_CTF4	521	0	0	0	50	HHDT	0	43.41666667	0.00	27.79	27.79
Carmenita Rd-L3 Grade Separation_CTF5	195	0	0	0	50	HHDT	0	16.25	0.00	10.40	10.40
Carmenita Rd-L3 Grade Separation_CTF6	304	0	0	0	50	HHDT	0	25.33333333	0.00	16.21	16.21
Carmenita Rd-L3 Grade Separation_CTF7	66	0	0	0	50	HHDT	0	5.5	0.00	3.52	3.52
Carmenita Rd-L3 Grade Separation_CTF8	87	0	0	0	50	HHDT	0	7.25	0.00	4.64	4.64
Carmenita Rd-L3 Grade Separation_CTF9	368	0	0	0	50	HHDT	0	30.66666667	0.00	19.63	19.63
Carmenita Rd-L3 Grade Separation_CTF10	108	0	0	0	50	HHDT	0	9	0.00	5.76	5.76
Carmenita Rd-L3 Grade Separation_CTF11	195	0	0	0	50	HHDT	0	16.25	0.00	10.40	10.40
Alondra Blvd-L3 Grade Separation_FD	652	10	6520	0.1	50	HHDT	326652	54.33333333	48546.51	34.77	48581.29
Alondra Blvd-L3 Grade Separation_CTF1	153	0	0	0	50	HHDT	0	12.75	0.00	8.16	8.16
Alondra Blvd-L3 Grade Separation_CTF2	217	0	0	0	50	HHDT	0	18.08333333	0.00	11.57	11.57
Alondra Blvd-L3 Grade Separation_CTF3	261	0	0	0	50	HHDT	0	21.75	0.00	13.92	13.92
Alondra Blvd-L3 Grade Separation_CTF4	327	0	0	0	50	HHDT	0	27.25	0.00	17.44	17.44
Alondra Blvd-L3 Grade Separation_CTF5	587	0	0	0	50	HHDT	0	48.91666667	0.00	31.31	31.31
Alondra Blvd-L3 Grade Separation_CTF6	652	0	0	0	50	HHDT	0	54.33333333	0.00	34.77	34.77
Alondra Blvd-L3 Grade Separation_CTF7	44	0	0	0	50	HHDT	0	3.666666667	0.00	2.35	2.35
Alondra Blvd-L3 Grade Separation_CTF8	174	0	0	0	50	HHDT	0	14.5	0.00	9.28	9.28
Alondra Blvd-L3 Grade Separation_CTF9	217	0	0	0	50	HHDT	0	18.08333333	0.00	11.57	11.57
Alondra Blvd-L3 Grade Separation_CTF10	478	0	0	0	50	HHDT	0	39.83333333	0.00	25.49	25.49
Alondra Blvd-L3 Grade Separation_CTF11	565	0	0	0	50	HHDT	0	47.08333333	0.00	30.13	30.13
Alondra Blvd-L3 Grade Separation_CTF12	43	0	0	0	50	HHDT	0	3.583333333	0.00	2.29	2.29
Dale St-L3 Grade Separation_FD	326	4	1304	0.1	50	HHDT	65330.4	27.16666667	9709.30	17.39	9726.69
Dale St-L3 Grade Separation_CTF1	21	0	0	0	50	HHDT	0	1.75	0.00	1.12	1.12
Dale St-L3 Grade Separation_CTF2	43	0	0	0	50	HHDT	0	3.583333333	0.00	2.29	2.29
Dale St-L3 Grade Separation_CTF3	86	0	0	0	50	HHDT	0	7.166666667	0.00	4.59	4.59
Dale St-L3 Grade Separation_CTF4	109	0	0	0	50	HHDT	0	9.083333333	0.00	5.81	5.81
Dale St-L3 Grade Separation_CTF5	174	0	0	0	50	HHDT	0	14.5	0.00	9.28	9.28
Dale St-L3 Grade Separation_CTF6	218	0	0	0	50	HHDT	0	18.16666667	0.00	11.63	11.63
Dale St-L3 Grade Separation_CTF7	217	0	0	0	50	HHDT	0	18.08333333	0.00	11.57	11.57
Dale St-L3 Grade Separation_CTF8	110	0	0	0	50	HHDT	0	9.166666667	0.00	5.87	5.87
Dale St-L3 Grade Separation_CTF9	77	0	0	0	50	HHDT	0	6.416666667	0.00	4.11	4.11
Commonwealth Ave-L3 Grade Separation_FD	522	10	5220	0.1	50	HHDT	261522	43.5	38866.99	27.84	38894.83
Commonwealth Ave-L3 Grade Separation_CTF1	132	0	0	0	50	HHDT	0	11	0.00	7.04	7.04
Commonwealth Ave-L3 Grade Separation_CTF2	261	0	0	0	50	HHDT	0	21.75	0.00	13.92	13.92

Phase	Days	Truck Trips per Day (In/Out)	Total Truck Trips	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Commonwealth Ave-L3 Grade Separation_CTF3	522	0	0	0	50	HHDT	0	43.5	0.00	27.84	27.84
Commonwealth Ave-L3 Grade Separation_CTF4	260	0	0	0	50	HHDT	0	21.66666667	0.00	13.87	13.87
Commonwealth Ave-L3 Grade Separation_CTF5	152	0	0	0	50	HHDT	0	12.66666667	0.00	8.11	8.11
Commonwealth Ave-L3 Grade Separation_CTF6	43	0	0	0	50	HHDT	0	3.583333333	0.00	2.29	2.29
Commonwealth Ave-L3 Grade Separation_CTF7	195	0	0	0	50	HHDT	0	16.25	0.00	10.40	10.40
Commonwealth Ave-L3 Grade Separation_CTF8	86	0	0	0	50	HHDT	0	7.166666667	0.00	4.59	4.59
Commonwealth Ave-L3 Grade Separation_CTF9	85	0	0	0	50	HHDT	0	7.083333333	0.00	4.53	4.53
Commonwealth Ave-L3 Grade Separation_CTF10	870	0	0	0	50	HHDT	0	72.5	0.00	46.40	46.40
Commonwealth Ave-L3 Grade Separation_CTF11	43	0	0	0	50	HHDT	0	3.583333333	0.00	2.29	2.29
Highland Ave-L3 Grade Separation_FD	651	4	2604	0.1	50	HHDT	130460.4	54.25	19388.82	34.72	19423.54
Highland Ave-L3 Grade Separation_CTF1	152	0	0	0	50	HHDT	0	12.66666667	0.00	8.11	8.11
Highland Ave-L3 Grade Separation_CTF2	130	0	0	0	50	HHDT	0	10.83333333	0.00	6.93	6.93
Highland Ave-L3 Grade Separation_CTF3	260	0	0	0	50	HHDT	0	21.66666667	0.00	13.87	13.87
Highland Ave-L3 Grade Separation_CTF4	651	0	0	0	50	HHDT	0	54.25	0.00	34.72	34.72
Highland Ave-L3 Grade Separation_CTF5	630	0	0	0	50	HHDT	0	52.5	0.00	33.60	33.60
Highland Ave-L3 Grade Separation_CTF6	66	0	0	0	50	HHDT	0	5.5	0.00	3.52	3.52
Highland Ave-L3 Grade Separation_CTF7	132	0	0	0	50	HHDT	0	11	0.00	7.04	7.04
Highland Ave-L3 Grade Separation_CTF8	154	0	0	0	50	HHDT	0	12.83333333	0.00	8.21	8.21
Highland Ave-L3 Grade Separation_CTF9	174	0	0	0	50	HHDT	0	14.5	0.00	9.28	9.28
Highland Ave-L3 Grade Separation_CTF10	130	0	0	0	50	HHDT	0	10.83333333	0.00	6.93	6.93
Highland Ave-L3 Grade Separation_CTF11	261	0	0	0	50	HHDT	0	21.75	0.00	13.92	13.92
Highland Ave-L3 Grade Separation_CTF12	217	0	0	0	50	HHDT	0	18.08333333	0.00	11.57	11.57
Highland Ave-L3 Grade Separation_CTF13	174	0	0	0	50	HHDT	0	14.5	0.00	9.28	9.28
Harbor Blvd-L3 Grade Separation_FD	522	2	1044	0.1	50	HHDT	52304.4	43.5	7773.40	27.84	7801.24
Harbor Blvd-L3 Grade Separation_CTF1	217	0	0	0	50	HHDT	0	18.08333333	0.00	11.57	11.57
Harbor Blvd-L3 Grade Separation_CTF2	522	0	0	0	50	HHDT	0	43.5	0.00	27.84	27.84
Harbor Blvd-L3 Grade Separation_CTF3	173	0	0	0	50	HHDT	0	14.41666667	0.00	9.23	9.23
Harbor Blvd-L3 Grade Separation_CTF4	217	0	0	0	50	HHDT	0	18.08333333	0.00	11.57	11.57
Harbor Blvd-L3 Grade Separation_CTF5	173	0	0	0	50	HHDT	0	14.41666667	0.00	9.23	9.23
Douglass Rd-L3 Grade Separation_FD	392	6	2352	0.1	50	HHDT	117835.2	32.66666667	17512.48	20.91	17533.39
Douglass Rd-L3 Grade Separation_CTF1	131	0	0	0	50	HHDT	0	10.91666667	0.00	6.99	6.99
Douglass Rd-L3 Grade Separation_CTF2	218	0	0	0	50	HHDT	0	18.16666667	0.00	11.63	11.63
Douglass Rd-L3 Grade Separation_CTF3	262	0	0	0	50	HHDT	0	21.83333333	0.00	13.97	13.97
Douglass Rd-L3 Grade Separation_CTF4	392	0	0	0	50	HHDT	0	32.66666667	0.00	20.91	20.91
Douglass Rd-L3 Grade Separation_CTF5	434	0	0	0	50	HHDT	0	36.16666667	0.00	23.15	23.15
Douglass Rd-L3 Grade Separation_CTF6	43	0	0	0	50	HHDT	0	3.583333333	0.00	2.29	2.29
Douglass Rd-L3 Grade Separation_CTF7	174	0	0	0	50	HHDT	0	14.5	0.00	9.28	9.28
Douglass Rd-L3 Grade Separation_CTF8	130	0	0	0	50	HHDT	0	10.83333333	0.00	6.93	6.93
Douglass Rd-L3 Grade Separation_CTF9	175	0	0	0	50	HHDT	0	14.58333333	0.00	9.33	9.33
Douglass Rd-L3 Grade Separation_CTF10	196	0	0	0	50	HHDT	0	16.33333333	0.00	10.45	10.45
Douglass Rd-L3 Grade Separation_CTF11	64	0	0	0	50	HHDT	0	5.333333333	0.00	3.41	3.41
Pioneer Blvd-L4 Grade Separation_FD	654	4	2616	0.1	50	HHDT	131061.6	54.5	19478.17	34.88	19513.05
Pioneer Blvd-L4 Grade Separation_CTF1	262	0	0	0	50	HHDT	0	21.83333333	0.00	13.97	13.97
Pioneer Blvd-L4 Grade Separation_CTF2	349	0	0	0	50	HHDT	0	29.08333333	0.00	18.61	18.61
Pioneer Blvd-L4 Grade Separation_CTF3	654	0	0	0	50	HHDT	0	54.5	0.00	34.88	34.88
Pioneer Blvd-L4 Grade Separation_CTF4	132	0	0	0	50	HHDT	0	11	0.00	7.04	7.04
Pioneer Blvd-L4 Grade Separation_CTF5	153	0	0	0	50	HHDT	0	12.75	0.00	8.16	8.16
Pioneer Blvd-L4 Grade Separation_CTF6	262	0	0	0	50	HHDT	0	21.83333333	0.00	13.97	13.97
Pioneer Blvd-L4 Grade Separation_CTF7	131	0	0	0	50	HHDT	0	10.91666667	0.00	6.99	6.99
Pioneer Blvd-L4 Grade Separation_CTF8	174	0	0	0	50	HHDT	0	14.5	0.00	9.28	9.28
Pioneer Blvd-L4 Grade Separation_CTF9	479	0	0	0	50	HHDT	0	39.91666667	0.00	25.55	25.55
Pioneer Blvd-L4 Grade Separation_CTF10	457	0	0	0	50	HHDT	0	38.08333333	0.00	24.37	24.37
Pioneer Blvd-L4 Grade Separation_CTF11	130	0	0	0	50	HHDT	0	10.83333333	0.00	6.93	6.93
Pioneer Blvd-L4 Grade Separation_CTF12	349	0	0	0	50	HHDT	0	29.08333333	0.00	18.61	18.61

Phase	Days	Truck Trips per Day (In/Out)	Total Truck Trips	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Pioneer Blvd-L4 Grade Separation_CTF13	175	0	0	0	50	HHDT	0	14.58333333	0.00	9.33	9.33
Pioneer Blvd-L4 Grade Separation_CTF14	107	0	0	0	50	HHDT	0	8.916666667	0.00	5.71	5.71
Pioneer Blvd-L4 Grade Separation_CTF15	44	0	0	0	50	HHDT	0	3.666666667	0.00	2.35	2.35
Pioneer Blvd-L4 Grade Separation_CTF16	66	0	0	0	50	HHDT	0	5.5	0.00	3.52	3.52
Norwalk Blvd-L4 Grade Separation_FD	782	4	3128	0.1	50	HHDT	156712.8	65.16666667	23290.41	41.71	23332.12
Norwalk Blvd-L4 Grade Separation_CTF1	131	0	0	0	50	HHDT	0	10.91666667	0.00	6.99	6.99
Norwalk Blvd-L4 Grade Separation_CTF2	152	0	0	0	50	HHDT	0	12.66666667	0.00	8.11	8.11
Norwalk Blvd-L4 Grade Separation_CTF3	391	0	0	0	50	HHDT	0	32.58333333	0.00	20.85	20.85
Norwalk Blvd-L4 Grade Separation_CTF4	542	0	0	0	50	HHDT	0	45.16666667	0.00	28.91	28.91
Norwalk Blvd-L4 Grade Separation_CTF5	782	0	0	0	50	HHDT	0	65.16666667	0.00	41.71	41.71
Norwalk Blvd-L4 Grade Separation_CTF6	131	0	0	0	50	HHDT	0	10.91666667	0.00	6.99	6.99
Norwalk Blvd-L4 Grade Separation_CTF7	107	0	0	0	50	HHDT	0	8.916666667	0.00	5.71	5.71
Norwalk Blvd-L4 Grade Separation_CTF8	130	0	0	0	50	HHDT	0	10.83333333	0.00	6.93	6.93
Norwalk Blvd-L4 Grade Separation_CTF9	390	0	0	0	50	HHDT	0	32.5	0.00	20.80	20.80
Norwalk Blvd-L4 Grade Separation_CTF10	130	0	0	0	50	HHDT	0	10.83333333	0.00	6.93	6.93
Norwalk Blvd-L4 Grade Separation_CTF11	218	0	0	0	50	HHDT	0	18.16666667	0.00	11.63	11.63
Los Nietos Rd-L4 Grade Separation_FD	782	4	3128	0.1	50	HHDT	156712.8	65.16666667	23290.41	41.71	23332.12
Los Nietos Rd-L4 Grade Separation_CTF1	131	0	0	0	50	HHDT	0	10.91666667	0.00	6.99	6.99
Los Nietos Rd-L4 Grade Separation_CTF2	152	0	0	0	50	HHDT	0	12.66666667	0.00	8.11	8.11
Los Nietos Rd-L4 Grade Separation_CTF3	391	0	0	0	50	HHDT	0	32.58333333	0.00	20.85	20.85
Los Nietos Rd-L4 Grade Separation_CTF4	542	0	0	0	50	HHDT	0	45.16666667	0.00	28.91	28.91
Los Nietos Rd-L4 Grade Separation_CTF5	782	0	0	0	50	HHDT	0	65.16666667	0.00	41.71	41.71
Los Nietos Rd-L4 Grade Separation_CTF6	131	0	0	0	50	HHDT	0	10.91666667	0.00	6.99	6.99
Los Nietos Rd-L4 Grade Separation_CTF7	107	0	0	0	50	HHDT	0	8.916666667	0.00	5.71	5.71
Los Nietos Rd-L4 Grade Separation_CTF8	130	0	0	0	50	HHDT	0	10.83333333	0.00	6.93	6.93
Los Nietos Rd-L4 Grade Separation_CTF9	390	0	0	0	50	HHDT	0	32.5	0.00	20.80	20.80
Los Nietos Rd-L4 Grade Separation_CTF10	130	0	0	0	50	HHDT	0	10.83333333	0.00	6.93	6.93
Los Nietos Rd-L4 Grade Separation_CTF11	218	0	0	0	50	HHDT	0	18.16666667	0.00	11.63	11.63
Cerritos Ave-L4 Grade Separation_FD	783	28	21924	0.1	50	HHDT	1098392.4	65.25	163241.37	41.76	163283.13
Cerritos Ave-L4 Grade Separation_CTF1	130	0	0	0	50	HHDT	0	10.83333333	0.00	6.93	6.93
Cerritos Ave-L4 Grade Separation_CTF2	130	0	0	0	50	HHDT	0	10.83333333	0.00	6.93	6.93
Cerritos Ave-L4 Grade Separation_CTF3	283	0	0	0	50	HHDT	0	23.58333333	0.00	15.09	15.09
Cerritos Ave-L4 Grade Separation_CTF4	391	0	0	0	50	HHDT	0	32.58333333	0.00	20.85	20.85
Cerritos Ave-L4 Grade Separation_CTF5	500	0	0	0	50	HHDT	0	41.66666667	0.00	26.67	26.67
Cerritos Ave-L4 Grade Separation_CTF6	783	0	0	0	50	HHDT	0	65.25	0.00	41.76	41.76
Cerritos Ave-L4 Grade Separation_CTF7	129	0	0	0	50	HHDT	0	10.75	0.00	6.88	6.88
Cerritos Ave-L4 Grade Separation_CTF8	434	0	0	0	50	HHDT	0	36.16666667	0.00	23.15	23.15
Cerritos Ave-L4 Grade Separation_CTF9	129	0	0	0	50	HHDT	0	10.75	0.00	6.88	6.88
Cerritos Ave-L4 Grade Separation_CTF10	172	0	0	0	50	HHDT	0	14.33333333	0.00	9.17	9.17
Cerritos Ave-L4 Grade Separation_CTF11	238	0	0	0	50	HHDT	0	19.83333333	0.00	12.69	12.69
Cerritos Ave-L4 Grade Separation_CTF12	261	0	0	0	50	HHDT	0	21.75	0.00	13.92	13.92
Cerritos Ave-L4 Grade Separation_CTF13	196	0	0	0	50	HHDT	0	16.33333333	0.00	10.45	10.45
Cerritos Ave-L4 Grade Separation_CTF14	89	0	0	0	50	HHDT	0	7.416666667	0.00	4.75	4.75
Cerritos Ave-L4 Grade Separation_CTF15	132	0	0	0	50	HHDT	0	11	0.00	7.04	7.04
Cerritos Ave-L4 Grade Separation_CTF16	87	0	0	0	50	HHDT	0	7.25	0.00	4.64	4.64
Cerritos Ave-L4 Grade Separation_CTF17	218	0	0	0	50	HHDT	0	18.16666667	0.00	11.63	11.63
Cerritos Ave-L4 Grade Separation_CTF18	131	0	0	0	50	HHDT	0	10.91666667	0.00	6.99	6.99
Lewis St-L4 Grade Separation_FD	390	20	7800	0.1	50	HHDT	390780	32.5	58077.12	20.80	58097.92
Lewis St-L4 Grade Separation_CTF1	41	0	0	0	50	HHDT	0	3.416666667	0.00	2.19	2.19
Lewis St-L4 Grade Separation_CTF2	260	0	0	0	50	HHDT	0	21.66666667	0.00	13.87	13.87
Lewis St-L4 Grade Separation_CTF3	65	0	0	0	50	HHDT	0	5.416666667	0.00	3.47	3.47
Lewis St-L4 Grade Separation_CTF4	175	0	0	0	50	HHDT	0	14.58333333	0.00	9.33	9.33
Lewis St-L4 Grade Separation_CTF5	21	0	0	0	50	HHDT	0	1.75	0.00	1.12	1.12
Lewis St-L4 Grade Separation_CTF6	44	0	0	0	50	HHDT	0	3.666666667	0.00	2.35	2.35

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Lewis St-L4 Grade Separation_CTF7	109	0	0	0	50	HHDT	0	9.083333333	0.00	5.81	5.81
Lewis St-L4 Grade Separation_CTF8	261	0	0	0	50	HHDT	0	21.75	0.00	13.92	13.92
Lewis St-L4 Grade Separation_CTF9	131	0	0	0	50	HHDT	0	10.91666667	0.00	6.99	6.99
Lewis St-L4 Grade Separation_CTF10	163	0	0	0	50	HHDT	0	13.58333333	0.00	8.69	8.69
Lewis St-L4 Grade Separation_CTF11	88	0	0	0	50	HHDT	0	7.333333333	0.00	4.69	4.69
Lewis St-L4 Grade Separation_CTF12	240	0	0	0	50	HHDT	0	20	0.00	12.80	12.80
Lewis St-L4 Grade Separation_CTF13	65	0	0	0	50	HHDT	0	5.416666667	0.00	3.47	3.47
Lewis St-L4 Grade Separation_CTF14	195	0	0	0	50	HHDT	0	16.25	0.00	10.40	10.40
Lewis St-L4 Grade Separation_CTF15	87	0	0	0	50	HHDT	0	7.25	0.00	4.64	4.64
State College Blvd-L4 Grade Separation_FD	783	16	12528	0.1	50	HHDT	627652.8	65.25	93280.78	41.76	93322.54
State College Blvd-L4 Grade Separation_CTF1	173	0	0	0	50	HHDT	0	14.41666667	0.00	9.23	9.23
State College Blvd-L4 Grade Separation_CTF2	523	0	0	0	50	HHDT	0	43.58333333	0.00	27.89	27.89
State College Blvd-L4 Grade Separation_CTF3	783	0	0	0	50	HHDT	0	65.25	0.00	41.76	41.76
State College Blvd-L4 Grade Separation_CTF4	412	0	0	0	50	HHDT	0	34.33333333	0.00	21.97	21.97
State College Blvd-L4 Grade Separation_CTF5	197	0	0	0	50	HHDT	0	16.41666667	0.00	10.51	10.51
State College Blvd-L4 Grade Separation_CTF6	219	0	0	0	50	HHDT	0	18.25	0.00	11.68	11.68
State College Blvd-L4 Grade Separation_CTF7	153	0	0	0	50	HHDT	0	12.75	0.00	8.16	8.16
State College Blvd-L4 Grade Separation_CTF8	108	0	0	0	50	HHDT	0	9	0.00	5.76	5.76
State College Blvd-L4 Grade Separation_CTF9	217	0	0	0	50	HHDT	0	18.08333333	0.00	11.57	11.57
State College Blvd-L4 Grade Separation_CTF10	304	0	0	0	50	HHDT	0	25.33333333	0.00	16.21	16.21
State College Blvd-L4 Grade Separation_CTF11	261	0	0	0	50	HHDT	0	21.75	0.00	13.92	13.92
State College Blvd-L4 Grade Separation_CTF12	129	0	0	0	50	HHDT	0	10.75	0.00	6.88	6.88
State College Blvd-L4 Grade Separation_CTF13	129	0	0	0	50	HHDT	0	10.75	0.00	6.88	6.88
State College Blvd-L4 Grade Separation_CTF14	239	0	0	0	50	HHDT	0	19.91666667	0.00	12.75	12.75
State College Blvd-L4 Grade Separation_CTF15	87	0	0	0	50	HHDT	0	7.25	0.00	4.64	4.64
Katella Ave-L4 Grade Separation_FD	651	8	5208	0.1	50	HHDT	260920.8	54.25	38777.64	34.72	38812.36
Katella Ave-L4 Grade Separation_CTF1	85	0	0	0	50	HHDT	0	7.083333333	0.00	4.53	4.53
Katella Ave-L4 Grade Separation_CTF2	260	0	0	0	50	HHDT	0	21.66666667	0.00	13.87	13.87
Katella Ave-L4 Grade Separation_CTF3	390	0	0	0	50	HHDT	0	32.5	0.00	20.80	20.80
Katella Ave-L4 Grade Separation_CTF4	651	0	0	0	50	HHDT	0	54.25	0.00	34.72	34.72
Katella Ave-L4 Grade Separation_CTF5	175	0	0	0	50	HHDT	0	14.58333333	0.00	9.33	9.33
Katella Ave-L4 Grade Separation_CTF6	130	0	0	0	50	HHDT	0	10.83333333	0.00	6.93	6.93
Katella Ave-L4 Grade Separation_CTF7	195	0	0	0	50	HHDT	0	16.25	0.00	10.40	10.40
Katella Ave-L4 Grade Separation_CTF8	65	0	0	0	50	HHDT	0	5.416666667	0.00	3.47	3.47
Katella Ave-L4 Grade Separation_CTF9	87	0	0	0	50	HHDT	0	7.25	0.00	4.64	4.64
Katella Ave-L4 Grade Separation_CTF10	65	0	0	0	50	HHDT	0	5.416666667	0.00	3.47	3.47
Redondo Junction-L1 Water Crossing_FD	87	0	0	0	50	HHDT	0	7.25	0.00	4.64	4.64
Redondo Junction-L1 Water Crossing_CTF1	87	0	0	0	50	HHDT	0	7.25	0.00	4.64	4.64
Coyote Creek-L1Water Crossing_FD	131	2	262	0.1	50	HHDT	13126.2	10.91666667	1950.80	6.99	1957.78
Coyote Creek-L1Water Crossing_CTF1	66	0	0	0	50	HHDT	0	5.5	0.00	3.52	3.52
Coyote Creek-L1Water Crossing_CTF2	131	0	0	0	50	HHDT	0	10.91666667	0.00	6.99	6.99
Coyote Creek-L1Water Crossing_CTF3	21	0	0	0	50	HHDT	0	1.75	0.00	1.12	1.12
Carbon Creek-L1 Water Crossing_FD	89	0	0	0	50	HHDT	0	7.416666667	0.00	4.75	4.75
Carbon Creek-L1 Water Crossing_CTF1	89	0	0	0	50	HHDT	0	7.416666667	0.00	4.75	4.75
San Gabriel River-L2 Water Crossing_FD	457	2	914	0.1	50	HHDT	45791.4	38.08333333	6805.45	24.37	6829.82
San Gabriel River-L2 Water Crossing_CTF1	65	0	0	0	50	HHDT	0	5.416666667	0.00	3.47	3.47
San Gabriel River-L2 Water Crossing_CTF2	87	0	0	0	50	HHDT	0	7.25	0.00	4.64	4.64
San Gabriel River-L2 Water Crossing_CTF3	108	0	0	0	50	HHDT	0	9	0.00	5.76	5.76
San Gabriel River-L2 Water Crossing_CTF4	152	0	0	0	50	HHDT	0	12.66666667	0.00	8.11	8.11
San Gabriel River-L2 Water Crossing_CTF5	347	0	0	0	50	HHDT	0	28.91666667	0.00	18.51	18.51
San Gabriel River-L2 Water Crossing_CTF6	435	0	0	0	50	HHDT	0	36.25	0.00	23.20	23.20
San Gabriel River-L2 Water Crossing_CTF7	457	0	0	0	50	HHDT	0	38.08333333	0.00	24.37	24.37
San Gabriel River-L2 Water Crossing_CTF8	110	0	0	0	50	HHDT	0	9.166666667	0.00	5.87	5.87
San Gabriel River-L2 Water Crossing_CTF9	175	0	0	0	50	HHDT	0	14.58333333	0.00	9.33	9.33

Phase	Days	Truck Trips per Day (In/Out)	Total Truck Trips	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Rio Hondo SG-L3 Water Crossing_FD	325	2	650	0.1	50	HHDT	32565	27.08333333	4839.76	17.33	4857.09
Rio Hondo SG-L3 Water Crossing_CTF1	150	0	0	0	50	HHDT	0	12.5	0.00	8.00	8.00
Rio Hondo SG-L3 Water Crossing_CTF2	216	0	0	0	50	HHDT	0	18	0.00	11.52	11.52
Rio Hondo SG-L3 Water Crossing_CTF3	325	0	0	0	50	HHDT	0	27.08333333	0.00	17.33	17.33
Rio Hondo River-L3 Water Crossing_FD	325	2	650	0.1	50	HHDT	32565	27.08333333	4839.76	17.33	4857.09
Rio Hondo River-L3 Water Crossing_CTF1	150	0	0	0	50	HHDT	0	12.5	0.00	8.00	8.00
Rio Hondo River-L3 Water Crossing_CTF2	325	0	0	0	50	HHDT	0	27.08333333	0.00	17.33	17.33
Rio Hondo River-L3 Water Crossing_CTF3	65	0	0	0	50	HHDT	0	5.416666667	0.00	3.47	3.47
Rio Hondo River-L3 Water Crossing_CTF4	86	0	0	0	50	HHDT	0	7.166666667	0.00	4.59	4.59
Rio Hondo River-L3 Water Crossing_CTF5	108	0	0	0	50	HHDT	0	9	0.00	5.76	5.76
Rio Hondo River-L3 Water Crossing_CTF6	173	0	0	0	50	HHDT	0	14.41666667	0.00	9.23	9.23
Coyote Creek-N Fork-L3 Water Crossing_FD	260	2	520	0.1	50	HHDT	26052	21.66666667	3871.81	13.87	3885.67
Coyote Creek-N Fork-L3 Water Crossing_CTF1	85	0	0	0	50	HHDT	0	7.083333333	0.00	4.53	4.53
Coyote Creek-N Fork-L3 Water Crossing_CTF2	108	0	0	0	50	HHDT	0	9	0.00	5.76	5.76
Coyote Creek-N Fork-L3 Water Crossing_CTF3	260	0	0	0	50	HHDT	0	21.66666667	0.00	13.87	13.87
Coyote Creek-N Fork-L3 Water Crossing_CTF4	455	0	0	0	50	HHDT	0	37.91666667	0.00	24.27	24.27
Coyote Creek-N Fork-L3 Water Crossing_CTF5	63	0	0	0	50	HHDT	0	5.25	0.00	3.36	3.36
Coyote Creek-N Fork-L3 Water Crossing_CTF6	173	0	0	0	50	HHDT	0	14.41666667	0.00	9.23	9.23
Coyote Creek-N Fork-L3 Water Crossing_CTF7	218	0	0	0	50	HHDT	0	18.16666667	0.00	11.63	11.63
La Mirada Creek-L3 Water Crossing_FD	260	2	520	0.1	50	HHDT	26052	21.66666667	3871.81	13.87	3885.67
La Mirada Creek-L3 Water Crossing_CTF1	87	0	0	0	50	HHDT	0	7.25	0.00	4.64	4.64
La Mirada Creek-L3 Water Crossing_CTF2	130	0	0	0	50	HHDT	0	10.83333333	0.00	6.93	6.93
La Mirada Creek-L3 Water Crossing_CTF3	260	0	0	0	50	HHDT	0	21.66666667	0.00	13.87	13.87
La Mirada Creek-L3 Water Crossing_CTF4	43	0	0	0	50	HHDT	0	3.583333333	0.00	2.29	2.29
Brea Creek-L3 Water Crossing_FD	325	2	650	0.1	50	HHDT	32565	27.08333333	4839.76	17.33	4857.09
Brea Creek-L3 Water Crossing_CTF1	42	0	0	0	50	HHDT	0	3.5	0.00	2.24	2.24
Brea Creek-L3 Water Crossing_CTF2	108	0	0	0	50	HHDT	0	9	0.00	5.76	5.76
Brea Creek-L3 Water Crossing_CTF3	130	0	0	0	50	HHDT	0	10.83333333	0.00	6.93	6.93
Brea Creek-L3 Water Crossing_CTF4	217	0	0	0	50	HHDT	0	18.08333333	0.00	11.57	11.57
Brea Creek-L3 Water Crossing_CTF5	43	0	0	0	50	HHDT	0	3.583333333	0.00	2.29	2.29
Brea Creek-L3 Water Crossing_CTF6	43	0	0	0	50	HHDT	0	3.583333333	0.00	2.29	2.29
Brea Creek-L3 Water Crossing_CTF7	175	0	0	0	50	HHDT	0	14.58333333	0.00	9.33	9.33
Brea Creek-L3 Water Crossing_CTF8	392	0	0	0	50	HHDT	0	32.66666667	0.00	20.91	20.91
Redondo Jct TPSS_FD	261	0	0	0	50	HHDT	0	21.75	0.00	13.92	13.92
Redondo Jct TPSS_CTF1	216	0	0	0	50	HHDT	0	18	0.00	11.52	11.52
Redondo Jct TPSS_CTF2	44	0	0	0	50	HHDT	0	3.666666667	0.00	2.35	2.35
Redondo Jct TPSS_CTF3	261	0	0	0	50	HHDT	0	21.75	0.00	13.92	13.92
Redondo Jct TPSS_CTF4	132	0	0	0	50	HHDT	0	11	0.00	7.04	7.04
Redondo Jct TPSS_CTF5	20	0	0	0	50	HHDT	0	1.666666667	0.00	1.07	1.07
Redondo Jct TPSS_CTF6	22	0	0	0	50	HHDT	0	1.833333333	0.00	1.17	1.17
Anaheim TPSS_FD	239	0	0	0	50	HHDT	0	19.91666667	0.00	12.75	12.75
Anaheim TPSS_CTF1	216	0	0	0	50	HHDT	0	18	0.00	11.52	11.52
Anaheim TPSS_CTF2	44	0	0	0	50	HHDT	0	3.666666667	0.00	2.35	2.35
Anaheim TPSS_CTF3	261	0	0	0	50	HHDT	0	21.75	0.00	13.92	13.92
Anaheim TPSS_CTF4	22	0	0	0	50	HHDT	0	1.833333333	0.00	1.17	1.17
Anaheim TPSS_CTF5	43	0	0	0	50	HHDT	0	3.583333333	0.00	2.29	2.29
Anaheim TPSS_CTF6	132	0	0	0	50	HHDT	0	11	0.00	7.04	7.04
Anaheim TPSS_CTF7	239	0	0	0	50	HHDT	0	19.91666667	0.00	12.75	12.75
Anaheim TPSS_CTF8	20	0	0	0	50	HHDT	0	1.666666667	0.00	1.07	1.07
Anaheim TPSS_CTF9	22	0	0	0	50	HHDT	0	1.833333333	0.00	1.17	1.17
Paralleling Station #2_FD	262	0	0	0	50	HHDT	0	21.83333333	0.00	13.97	13.97
Paralleling Station #2_CTF1	23	0	0	0	50	HHDT	0	1.916666667	0.00	1.23	1.23
Paralleling Station #2_CTF2	108	0	0	0	50	HHDT	0	9	0.00	5.76	5.76
Paralleling Station #2_CTF3	261	0	0	0	50	HHDT	0	21.75	0.00	13.92	13.92

Phase	Days	Truck Trips per Day (In/Out)	Total Truck Trips	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Paralleling Station #2_CTF4	22	0	0	0	50	HHDT	0	1.833333333	0.00	1.17	1.17
Paralleling Station #2_CTF5	20	0	0	0	50	HHDT	0	1.666666667	0.00	1.07	1.07
Paralleling Station #2_CTF6	22	0	0	0	50	HHDT	0	1.833333333	0.00	1.17	1.17
Paralleling Station #4_FD	261	0	0	0	50	HHDT	0	21.75	0.00	13.92	13.92
Paralleling Station #4_CTF1	23	0	0	0	50	HHDT	0	1.916666667	0.00	1.23	1.23
Paralleling Station #4_CTF2	108	0	0	0	50	HHDT	0	9	0.00	5.76	5.76
Paralleling Station #4_CTF3	261	0	0	0	50	HHDT	0	21.75	0.00	13.92	13.92
Paralleling Station #4_CTF4	22	0	0	0	50	HHDT	0	1.833333333	0.00	1.17	1.17
Paralleling Station #4_CTF5	20	0	0	0	50	HHDT	0	1.666666667	0.00	1.07	1.07
Paralleling Station #4_CTF6	22	0	0	0	50	HHDT	0	1.833333333	0.00	1.17	1.17
Switching Station_FD	129	0	0	0	50	HHDT	0	10.75	0.00	6.88	6.88
Switching Station_CTF1	22	0	0	0	50	HHDT	0	1.833333333	0.00	1.17	1.17
Switching Station_CTF2	129	0	0	0	50	HHDT	0	10.75	0.00	6.88	6.88
Switching Station_CTF3	20	0	0	0	50	HHDT	0	1.666666667	0.00	1.07	1.07
Switching Station_CTF4	44	0	0	0	50	HHDT	0	3.666666667	0.00	2.35	2.35
Switching Station_CTF5	22	0	0	0	50	HHDT	0	1.833333333	0.00	1.17	1.17
Communciation Tower #1_FD	66	0	0	0	50	HHDT	0	5.5	0.00	3.52	3.52
Communciation Tower #1_CTF1	23	0	0	0	50	HHDT	0	1.916666667	0.00	1.23	1.23
Communciation Tower #1_CTF2	66	0	0	0	50	HHDT	0	5.5	0.00	3.52	3.52
Communciation Tower #1_CTF3	22	0	0	0	50	HHDT	0	1.833333333	0.00	1.17	1.17
Communciation Tower #3_FD	64	0	0	0	50	HHDT	0	5.333333333	0.00	3.41	3.41
Communciation Tower #3_CTF1	42	0	0	0	50	HHDT	0	3.5	0.00	2.24	2.24
Communciation Tower #3_CTF2	64	0	0	0	50	HHDT	0	5.333333333	0.00	3.41	3.41
Communciation Tower #3_CTF3	21	0	0	0	50	HHDT	0	1.75	0.00	1.12	1.12
Communciation Tower #3_CTF4	22	0	0	0	50	HHDT	0	1.833333333	0.00	1.17	1.17
Communciation Tower #5_FD	66	0	0	0	50	HHDT	0	5.5	0.00	3.52	3.52
Communciation Tower #5_CTF1	22	0	0	0	50	HHDT	0	1.833333333	0.00	1.17	1.17
Communciation Tower #5_CTF2	66	0	0	0	50	HHDT	0	5.5	0.00	3.52	3.52
Communciation Tower #5_CTF3	23	0	0	0	50	HHDT	0	1.916666667	0.00	1.23	1.23
Communciation Tower #5_CTF4	21	0	0	0	50	HHDT	0	1.75	0.00	1.12	1.12
Communciation Tower #7_FD	86	0	0	0	50	HHDT	0	7.166666667	0.00	4.59	4.59
Communciation Tower #7_CTF1	43	0	0	0	50	HHDT	0	3.583333333	0.00	2.29	2.29
Communciation Tower #7_CTF2	66	0	0	0	50	HHDT	0	5.5	0.00	3.52	3.52
Communciation Tower #7_CTF3	86	0	0	0	50	HHDT	0	7.166666667	0.00	4.59	4.59
Communciation Tower #7_CTF4	65	0	0	0	50	HHDT	0	5.416666667	0.00	3.47	3.47
Communciation Tower #7_CTF5	23	0	0	0	50	HHDT	0	1.916666667	0.00	1.23	1.23
Communciation Tower #7_CTF6	20	0	0	0	50	HHDT	0	1.666666667	0.00	1.07	1.07
Communciation Tower #9_FD	86	0	0	0	50	HHDT	0	7.166666667	0.00	4.59	4.59
Communciation Tower #9_CTF1	43	0	0	0	50	HHDT	0	3.583333333	0.00	2.29	2.29
Communciation Tower #9_CTF2	66	0	0	0	50	HHDT	0	5.5	0.00	3.52	3.52
Communciation Tower #9_CTF3	86	0	0	0	50	HHDT	0	7.166666667	0.00	4.59	4.59
Communciation Tower #9_CTF4	65	0	0	0	50	HHDT	0	5.416666667	0.00	3.47	3.47
Communciation Tower #9_CTF5	23	0	0	0	50	HHDT	0	1.916666667	0.00	1.23	1.23
Communciation Tower #9_CTF6	20	0	0	0	50	HHDT	0	1.666666667	0.00	1.07	1.07
Communciation Tower #11_FD	66	0	0	0	50	HHDT	0	5.5	0.00	3.52	3.52
Communciation Tower #11_CTF1	22	0	0	0	50	HHDT	0	1.833333333	0.00	1.17	1.17
Communciation Tower #11_CTF2	66	0	0	0	50	HHDT	0	5.5	0.00	3.52	3.52
Communciation Tower #11_CTF3	23	0	0	0	50	HHDT	0	1.916666667	0.00	1.23	1.23
Communciation Tower #11_CTF4	21	0	0	0	50	HHDT	0	1.75	0.00	1.12	1.12
Communciation Tower #13_FD	64	0	0	0	50	HHDT	0	5.333333333	0.00	3.41	3.41
Communciation Tower #13_CTF1	42	0	0	0	50	HHDT	0	3.5	0.00	2.24	2.24
Communciation Tower #13_CTF2	64	0	0	0	50	HHDT	0	5.333333333	0.00	3.41	3.41
Communciation Tower #13_CTF3	21	0	0	0	50	HHDT	0	1.75	0.00	1.12	1.12
Communciation Tower #13_CTF4	22	0	0	0	50	HHDT	0	1.833333333	0.00	1.17	1.17

Phase	Days	Truck Trips per Day (In/Out)	Total Truck Trips	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Communciation Tower #15_FD	66	0	0	0	50	HHDT	0	5.5	0.00	3.52	3.52
Communciation Tower #15_CTF1	23	0	0	0	50	HHDT	0	1.916666667	0.00	1.23	1.23
Communciation Tower #15_CTF2	66	0	0	0	50	HHDT	0	5.5	0.00	3.52	3.52
Communciation Tower #15_CTF3	22	0	0	0	50	HHDT	0	1.833333333	0.00	1.17	1.17
LMF Support Structures_FD	326	72	23472	0.1	50	HHDT	1175947.2	27.16666667	174767.45	17.39	174784.83
LMF Support Structures_CTF1	130	0	0	0	50	HHDT	0	10.83333333	0.00	6.93	6.93
LMF Support Structures_CTF2	261	0	0	0	50	HHDT	0	21.75	0.00	13.92	13.92
LMF Support Structures_CTF3	326	0	0	0	50	HHDT	0	27.16666667	0.00	17.39	17.39
LMF Support Structures_CTF4	152	0	0	0	50	HHDT	0	12.66666667	0.00	8.11	8.11
LMF Support Structures_CTF5	142	0	0	0	50	HHDT	0	11.83333333	0.00	7.57	7.57
LMF Support Structures_CTF6	66	0	0	0	50	HHDT	0	5.5	0.00	3.52	3.52
LMF Support Structures_CTF7	66	0	0	0	50	HHDT	0	5.5	0.00	3.52	3.52
LMF Support Structures_CTF8	110	0	0	0	50	HHDT	0	9.166666667	0.00	5.87	5.87
Hobart Yard Improvements_FD	861	58	49938	0.1	50	HHDT	2501893.8	71.75	371827.57	45.92	371873.49
Hobart Yard Improvements_CTF1	77	0	0	0	50	HHDT	0	6.416666667	0.00	4.11	4.11
Hobart Yard Improvements_CTF2	103	0	0	0	50	HHDT	0	8.583333333	0.00	5.49	5.49
Hobart Yard Improvements_CTF3	155	0	0	0	50	HHDT	0	12.91666667	0.00	8.27	8.27
Hobart Yard Improvements_CTF4	861	0	0	0	50	HHDT	0	71.75	0.00	45.92	45.92
Hobart Yard Improvements_CTF5	50	0	0	0	50	HHDT	0	4.166666667	0.00	2.67	2.67
Hobart Yard Improvements_CTF6	262	0	0	0	50	HHDT	0	21.83333333	0.00	13.97	13.97
Hobart Yard Improvements_CTF7	235	0	0	0	50	HHDT	0	19.58333333	0.00	12.53	12.53
Hobart Yard Improvements_CTF8	208	0	0	0	50	HHDT	0	17.33333333	0.00	11.09	11.09
Hobart Yard Improvements_CTF9	392	0	0	0	50	HHDT	0	32.66666667	0.00	20.91	20.91
Hobart Yard Improvements_CTF10	103	0	0	0	50	HHDT	0	8.583333333	0.00	5.49	5.49
Hobart Yard Improvements_CTF11	77	0	0	0	50	HHDT	0	6.416666667	0.00	4.11	4.11
Hobart Yard Improvements_CTF12	208	0	0	0	50	HHDT	0	17.33333333	0.00	11.09	11.09
Commerce Yard Improvements_Utility Relocation	367	28	10276	0.1	50	HHDT	514827.6	30.58333333	76512.88	19.57	76532.45
Commerce Yard Improvements_CTF1	53	0	0	0	50	HHDT	0	4.416666667	0.00	2.83	2.83
Commerce Yard Improvements_CTF2	158	0	0	0	50	HHDT	0	13.16666667	0.00	8.43	8.43
Commerce Yard Improvements_CTF3	236	0	0	0	50	HHDT	0	19.66666667	0.00	12.59	12.59
Commerce Yard Improvements_CTF4	314	0	0	0	50	HHDT	0	26.16666667	0.00	16.75	16.75
Commerce Yard Improvements_CTF5	367	0	0	0	50	HHDT	0	30.58333333	0.00	19.57	19.57
Commerce Yard Improvements_CTF6	314	0	0	0	50	HHDT	0	26.16666667	0.00	16.75	16.75
Commerce Yard Improvements_CTF7	105	0	0	0	50	HHDT	0	8.75	0.00	5.60	5.60
15th St HSR LMF_Utility Relocation	262	2	524	0.1	50	HHDT	26252.4	21.83333333	3901.59	13.97	3915.56
15th St HSR LMF_Site Preparation	195	172	33540	0.1	50	HHDT	1680354	16.25	249731.60	10.40	249742.00
15th St HSR LMF_Track, Tie and Ballast Installation	521	0	0	0	50	HHDT	0	43.41666667	0.00	27.79	27.79
15th St HSR LMF_CTF1	262	0	0	0	50	HHDT	0	21.83333333	0.00	13.97	13.97
15th St HSR LMF_CTF2	652	0	0	0	50	HHDT	0	54.33333333	0.00	34.77	34.77
15th St HSR LMF_CTF3	912	0	0	0	50	HHDT	0	76	0.00	48.64	48.64
15th St HSR LMF_CTF4	912	0	0	0	50	HHDT	0	76	0.00	48.64	48.64
15th St HSR LMF_CTF5	390	0	0	0	50	HHDT	0	32.5	0.00	20.80	20.80
15th St HSR LMF_CTF6	175	0	0	0	50	HHDT	0	14.58333333	0.00	9.33	9.33
15th St HSR LMF_CTF7	131	0	0	0	50	HHDT	0	10.91666667	0.00	6.99	6.99
15th St HSR LMF_CTF8	196	0	0	0	50	HHDT	0	16.33333333	0.00	10.45	10.45
15th St HSR LMF_CTF9	132	0	0	0	50	HHDT	0	11	0.00	7.04	7.04
15th St HSR LMF_CTF10	260	0	0	0	50	HHDT	0	21.66666667	0.00	13.87	13.87
15th St HSR LMF_CTF11	175	0	0	0	50	HHDT	0	14.58333333	0.00	9.33	9.33
15th St HSR LMF_CTF12	262	0	0	0	50	HHDT	0	21.83333333	0.00	13.97	13.97
15th St HSR LMF_CTF13	86	0	0	0	50	HHDT	0	7.166666667	0.00	4.59	4.59
15th St HSR LMF_CTF14	42	0	0	0	50	HHDT	0	3.5	0.00	2.24	2.24
Commerce Metrolink Stn_FD	261	8	2088	0.1	50	HHDT	104608.8	21.75	15546.80	13.92	15560.72
Commerce Metrolink Stn_CTF1	64	0	0	0	50	HHDT	0	5.333333333	0.00	3.41	3.41
Commerce Metrolink Stn_CTF2	261	0	0	0	50	HHDT	0	21.75	0.00	13.92	13.92

Phase	Days	Truck Trips per Day (In/Out)	Total Truck Trips	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Commerce Metrolink Stn_CTF3	65	0	0	0	50	HHDT	0	5.416666667	0.00	3.47	3.47
Commerce Metrolink Stn_CTF4	66	0	0	0	50	HHDT	0	5.5	0.00	3.52	3.52
Commerce Metrolink Stn_CTF5	44	0	0	0	50	HHDT	0	3.666666667	0.00	2.35	2.35
Norwalk-SFS Metrolink Stn_FD	651	30	19530	0.1	50	HHDT	978453	54.25	145416.16	34.72	145450.88
Norwalk-SFS Metrolink Stn_CTF1	65	0	0	0	50	HHDT	0	5.416666667	0.00	3.47	3.47
Norwalk-SFS Metrolink Stn_CTF2	390	0	0	0	50	HHDT	0	32.5	0.00	20.80	20.80
Norwalk-SFS Metrolink Stn_CTF3	42	0	0	0	50	HHDT	0	3.5	0.00	2.24	2.24
Norwalk-SFS Metrolink Stn_CTF4	22	0	0	0	50	HHDT	0	1.833333333	0.00	1.17	1.17
Buena Park Metrolink Stn_FD	325	12	3900	0.1	50	HHDT	195390	27.08333333	29038.56	17.33	29055.89
Buena Park Metrolink Stn_CTF1	65	0	0	0	50	HHDT	0	5.416666667	0.00	3.47	3.47
Buena Park Metrolink Stn_CTF2	325	0	0	0	50	HHDT	0	27.08333333	0.00	17.33	17.33
Buena Park Metrolink Stn_CTF3	66	0	0	0	50	HHDT	0	5.5	0.00	3.52	3.52
Buena Park Metrolink Stn_CTF4	88	0	0	0	50	HHDT	0	7.333333333	0.00	4.69	4.69
Buena Park Metrolink Stn_CTF5	23	0	0	0	50	HHDT	0	1.916666667	0.00	1.23	1.23
ARTIC Station_FD	783	6	4698	0.1	50	HHDT	235369.8	65.25	34980.29	41.76	35022.05
ARTIC Station_CTF1	151	0	0	0	50	HHDT	0	12.58333333	0.00	8.05	8.05
ARTIC Station_CTF2	174	0	0	0	50	HHDT	0	14.5	0.00	9.28	9.28
ARTIC Station_CTF3	413	0	0	0	50	HHDT	0	34.41666667	0.00	22.03	22.03
ARTIC Station_CTF4	783	0	0	0	50	HHDT	0	65.25	0.00	41.76	41.76
ARTIC Station_CTF5	107	0	0	0	50	HHDT	0	8.916666667	0.00	5.71	5.71
ARTIC Station_CTF6	152	0	0	0	50	HHDT	0	12.66666667	0.00	8.11	8.11
ARTIC Station_CTF7	368	0	0	0	50	HHDT	0	30.66666667	0.00	19.63	19.63
ARTIC Station_CTF8	43	0	0	0	50	HHDT	0	3.583333333	0.00	2.29	2.29
ARTIC Station_CTF9	66	0	0	0	50	HHDT	0	5.5	0.00	3.52	3.52
ARTIC Station_CTF10	20	0	0	0	50	HHDT	0	1.666666667	0.00	1.07	1.07
ARTIC Station_CTF11	151	0	0	0	50	HHDT	0	12.58333333	0.00	8.05	8.05
Fullerton Metrolink Stn_FD	283	26	7358	0.1	50	HHDT	368635.8	23.58333333	54786.08	15.09	54801.17
Fullerton Metrolink Stn_CTF1	87	0	0	0	50	HHDT	0	7.25	0.00	4.64	4.64
Fullerton Metrolink Stn_CTF2	64	0	0	0	50	HHDT	0	5.333333333	0.00	3.41	3.41
Fullerton Metrolink Stn_CTF3	44	0	0	0	50	HHDT	0	3.666666667	0.00	2.35	2.35
Fullerton Metrolink Stn_CTF4	110	0	0	0	50	HHDT	0	9.166666667	0.00	5.87	5.87
Fullerton Metrolink Stn_CTF5	65	0	0	0	50	HHDT	0	5.416666667	0.00	3.47	3.47
Ballast Delivery_OutsideCA_2033	1	0	0	0	50	HHDT	0	0.083333333	0.00	0.05	0.05
Ballast Delivery_OutsideCA_2034	1	0	0	0	50	HHDT	0	0.083333333	0.00	0.05	0.05
Ballast Delivery_OutsideCA_2035	1	0	0	0	50	HHDT	0	0.083333333	0.00	0.05	0.05
Ballast Delivery_OutsideCA_2036	1	0	0	0	50	HHDT	0	0.083333333	0.00	0.05	0.05
Ballast Delivery_OutsideCA_2037	1	0	0	0	50	HHDT	0	0.083333333	0.00	0.05	0.05
Ballast Delivery_MDAB_2033	1	0	0	0	50	HHDT	0	0.083333333	0.00	0.05	0.05
Ballast Delivery_MDAB_2034	1	0	0	0	50	HHDT	0	0.083333333	0.00	0.05	0.05
Ballast Delivery_MDAB_2035	1	0	0	0	50	HHDT	0	0.083333333	0.00	0.05	0.05
Ballast Delivery_MDAB_2036	1	0	0	0	50	HHDT	0	0.083333333	0.00	0.05	0.05
Ballast Delivery_MDAB_2037	1	0	0	0	50	HHDT	0	0.083333333	0.00	0.05	0.05
Ballast Delivery_SCAB_2033	1	0	0	0	50	HHDT	0	0.083333333	0.00	0.05	0.05
Ballast Delivery_SCAB_2034	1	0	0	0	50	HHDT	0	0.083333333	0.00	0.05	0.05
Ballast Delivery_SCAB_2035	1	0	0	0	50	HHDT	0	0.083333333	0.00	0.05	0.05
Ballast Delivery_SCAB_2036	1	0	0	0	50	HHDT	0	0.083333333	0.00	0.05	0.05
Ballast Delivery_SCAB_2037	1	0	0	0	50	HHDT	0	0.083333333	0.00	0.05	0.05
Ballast Dumping_SCAB_2033	1	0	0	0	50	HHDT	0	0.083333333	0.00	0.05	0.05
Ballast Dumping_SCAB_2034	1	0	0	0	50	HHDT	0	0.083333333	0.00	0.05	0.05
Ballast Dumping_SCAB_2035	1	0	0	0	50	HHDT	0	0.083333333	0.00	0.05	0.05
Ballast Dumping_SCAB_2036	1	0	0	0	50	HHDT	0	0.083333333	0.00	0.05	0.05
Ballast Dumping_SCAB_2037	1	0	0	0	50	HHDT	0	0.083333333	0.00	0.05	0.05
						Total VMT:	**15,041,923.80**		**2,235,507.34**	**6,358.56**	**2,241,865.90**
						Total Idle-Hours:		**9,935**			

Phase	Days	Truck Trips per Day (In/Out)	Total Truck Trips	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)

1. CARB, EMFAC2021 (SCAQMD; HHDT; Annual; CY 2031; Aggregate MY; Aggregate Speed,DSL)
2. Department of Energy, Fact #861, 2015 Idle Fuel Consumption for Selected Gasoline and Diesel Vehicles, February 23, 2015.
https://www.energy.gov/eere/vehicles/fact-861-february-23-2015-idle-fuel-consumption-selected-gasoline-and-diesel-vehicles

Haul Trucks - Class I/II Waste in SJVAB

Onroad Travel Consumption	Value
EMFAC2021 Diesel Fuel Consumption Factor (gal/mi):[1]	0.149
Total VMT (mi):	4,535,280
Total diesel gallons	**674,026**
Idling Consumption	**Value**
Idling Fuel Consumption Factor (gal/hr):[2]	0.6400
Total Idle-Hours per Year:	9,934
Total diesel gallons	**6,357**

Total diesel gallons: **680,384**

Phase	Days	Truck Trips per Day (In/Out)	Total Truck Trips	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
At-Grade Rail-Ballasted Track-2033_Utilities	260	0	0	0	120	HHDT	0	21.66666667	0.00	13.87	13.87
At-Grade Rail-Ballasted Track-2033_Track Install	313	0	0	0	120	HHDT	0	26.08333333	0.00	16.69	16.69
At-Grade Rail-Ballasted Track-2034_Utilities	260	0	0	0	120	HHDT	0	21.66666667	0.00	13.87	13.87
At-Grade Rail-Ballasted Track-2034_Track Install	312	0	0	0	120	HHDT	0	26	0.00	16.64	16.64
At-Grade Rail-Ballasted Track-2035_Utilities	66	0	0	0	120	HHDT	0	5.5	0.00	3.52	3.52
At-Grade Rail-Ballasted Track-2035_Track Install	79	0	0	0	120	HHDT	0	6.583333333	0.00	4.21	4.21
At-Grade Rail-Ballasted Track-2036_Utilities	130	0	0	0	120	HHDT	0	10.83333333	0.00	6.93	6.93
At-Grade Rail-Ballasted Track-2036_Track Install	156	0	0	0	120	HHDT	0	13	0.00	8.32	8.32
At-Grade Rail-Ballasted Track-2037_Utilities	86	0	0	0	120	HHDT	0	7.166666667	0.00	4.59	4.59
At-Grade Rail-Ballasted Track-2037_Track Install	103	0	0	0	120	HHDT	0	8.583333333	0.00	5.49	5.49
South of Fullerton-Ballasted Track_FD	197	0	0	0	120	HHDT	0	16.41666667	0.00	10.51	10.51
Rail Direct Fixation_CTF1	130	0	0	0	120	HHDT	0	10.83333333	0.00	6.93	6.93
Rail Direct Fixation_CTF2	261	0	0	0	120	HHDT	0	21.75	0.00	13.92	13.92
Rail Direct Fixation_CTF3	262	0	0	0	120	HHDT	0	21.83333333	0.00	13.97	13.97
Commerce Viaduct_FD	652	0	0	0	120	HHDT	0	54.33333333	0.00	34.77	34.77
Commerce Viaduct_Box Girders	695	0	0	0	120	HHDT	0	57.91666667	0.00	37.07	37.07
Commerce Viaduct_CTF1	217	0	0	0	120	HHDT	0	18.08333333	0.00	11.57	11.57
Commerce Viaduct_CTF2	652	0	0	0	120	HHDT	0	54.33333333	0.00	34.77	34.77
Commerce Viaduct_CTF3	261	0	0	0	120	HHDT	0	21.75	0.00	13.92	13.92
Commerce Viaduct_CTF4	107	0	0	0	120	HHDT	0	8.916666667	0.00	5.71	5.71
Commerce Viaduct_CTF5	695	0	0	0	120	HHDT	0	57.91666667	0.00	37.07	37.07
Commerce Viaduct_CTF6	436	0	0	0	120	HHDT	0	36.33333333	0.00	23.25	23.25
Commerce Viaduct_CTF7	522	0	0	0	120	HHDT	0	43.5	0.00	27.84	27.84
Norwalk-SFS Viaduct_FD	782	0	0	0	120	HHDT	0	65.16666667	0.00	41.71	41.71
Norwalk-SFS Viaduct_Box Girders	653	0	0	0	120	HHDT	0	54.41666667	0.00	34.83	34.83
Norwalk-SFS Viaduct_CTF1	782	0	0	0	120	HHDT	0	65.16666667	0.00	41.71	41.71
Norwalk-SFS Viaduct_CTF2	261	0	0	0	120	HHDT	0	21.75	0.00	13.92	13.92
Norwalk-SFS Viaduct_CTF3	107	0	0	0	120	HHDT	0	8.916666667	0.00	5.71	5.71
Norwalk-SFS Viaduct_CTF4	522	0	0	0	120	HHDT	0	43.5	0.00	27.84	27.84
Norwalk-SFS Viaduct_CTF5	653	0	0	0	120	HHDT	0	54.41666667	0.00	34.83	34.83
Norwalk-SFS Viaduct_CTF6	261	0	0	0	120	HHDT	0	21.75	0.00	13.92	13.92
Fullerton Trench_FD	912	8	7296	0	120	HHDT	875520	76	130118.42	48.64	130167.06
Fullerton Trench_CTF1	653	0	0	0	120	HHDT	0	54.41666667	0.00	34.83	34.83
Fullerton Trench_CTF2	912	0	0	0	120	HHDT	0	76	0.00	48.64	48.64
Fullerton Trench_CTF3	175	0	0	0	120	HHDT	0	14.58333333	0.00	9.33	9.33
Fullerton Trench_CTF4	131	0	0	0	120	HHDT	0	10.91666667	0.00	6.99	6.99
Fullerton Trench_CTF5	717	0	0	0	120	HHDT	0	59.75	0.00	38.24	38.24
Fullerton Trench_CTF6	132	0	0	0	120	HHDT	0	11	0.00	7.04	7.04
Fullerton Trench_CTF7	260	0	0	0	120	HHDT	0	21.66666667	0.00	13.87	13.87
Fullerton Trench_CTF8	175	0	0	0	120	HHDT	0	14.58333333	0.00	9.33	9.33
Fullerton Trench_CTF9	261	0	0	0	120	HHDT	0	21.75	0.00	13.92	13.92

Phase	Days	Truck Trips per Day (In/Out)	Total Truck Trips	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Fullerton Trench_CTF10	86	0	0	0	120	HHDT	0	7.166666667	0.00	4.59	4.59
Fullerton Trench_CTF11	42	0	0	0	120	HHDT	0	3.5	0.00	2.24	2.24
I-10-L1 Grade Separation_FD	155	0	0	0	120	HHDT	0	12.91666667	0.00	8.27	8.27
South Downey Rd-L1 Grade Separation_FD	326	0	0	0	120	HHDT	0	27.16666667	0.00	17.39	17.39
South Downey Rd-L1 Grade Separation_CTF1	326	0	0	0	120	HHDT	0	27.16666667	0.00	17.39	17.39
South Downey Rd-L1 Grade Separation_CTF2	240	0	0	0	120	HHDT	0	20	0.00	12.80	12.80
South Downey Rd-L1 Grade Separation_CTF3	390	0	0	0	120	HHDT	0	32.5	0.00	20.80	20.80
I-710-L1 Grade Separation_FD	53	0	0	0	120	HHDT	0	4.416666667	0.00	2.83	2.83
I-5-L1 Grade Separation_FD	52	0	0	0	120	HHDT	0	4.333333333	0.00	2.77	2.77
Greenwood Ave-L1 Grade Separation_FD	53	0	0	0	120	HHDT	0	4.416666667	0.00	2.83	2.83
Paramount Blvd-L1 Grade Separation_FD	51	0	0	0	120	HHDT	0	4.25	0.00	2.72	2.72
SR-91-L1 Grade Separation_FD	42	0	0	0	120	HHDT	0	3.5	0.00	2.24	2.24
Lincoln Ave-L1 Grade Separation_FD	44	0	0	0	120	HHDT	0	3.666666667	0.00	2.35	2.35
Eastern Ave-L2 Grade Separation_FD	457	2	914	0	120	HHDT	109680	38.08333333	16300.47	24.37	16324.84
Eastern Ave-L2 Grade Separation_CTF1	108	0	0	0	120	HHDT	0	9	0.00	5.76	5.76
Eastern Ave-L2 Grade Separation_CTF2	457	0	0	0	120	HHDT	0	38.08333333	0.00	24.37	24.37
Eastern Ave-L2 Grade Separation_CTF3	43	0	0	0	120	HHDT	0	3.583333333	0.00	2.29	2.29
Eastern Ave-L2 Grade Separation_CTF4	108	0	0	0	120	HHDT	0	9	0.00	5.76	5.76
Eastern Ave-L2 Grade Separation_CTF5	131	0	0	0	120	HHDT	0	10.91666667	0.00	6.99	6.99
Eastern Ave-L2 Grade Separation_CTF6	195	0	0	0	120	HHDT	0	16.25	0.00	10.40	10.40
Eastern Ave-L2 Grade Separation_CTF7	261	0	0	0	120	HHDT	0	21.75	0.00	13.92	13.92
Eastern Ave-L2 Grade Separation_CTF8	45	0	0	0	120	HHDT	0	3.75	0.00	2.40	2.40
Eastern Ave-L2 Grade Separation_CTF9	85	0	0	0	120	HHDT	0	7.083333333	0.00	4.53	4.53
Passons Blvd-L2 Grade Separation_FD	326	2	652	0	120	HHDT	78240	27.16666667	11627.91	17.39	11645.29
Passons Blvd-L2 Grade Separation_CTF1	42	0	0	0	120	HHDT	0	3.5	0.00	2.24	2.24
Passons Blvd-L2 Grade Separation_CTF2	87	0	0	0	120	HHDT	0	7.25	0.00	4.64	4.64
Passons Blvd-L2 Grade Separation_CTF3	130	0	0	0	120	HHDT	0	10.83333333	0.00	6.93	6.93
Passons Blvd-L2 Grade Separation_CTF4	326	0	0	0	120	HHDT	0	27.16666667	0.00	17.39	17.39
Passons Blvd-L2 Grade Separation_CTF5	65	0	0	0	120	HHDT	0	5.416666667	0.00	3.47	3.47
Passons Blvd-L2 Grade Separation_CTF6	65	0	0	0	120	HHDT	0	5.416666667	0.00	3.47	3.47
Passons Blvd-L2 Grade Separation_CTF7	87	0	0	0	120	HHDT	0	7.25	0.00	4.64	4.64
Sante Fe Springs-L2 Grade Separation_FD	326	0	0	0	120	HHDT	0	27.16666667	0.00	17.39	17.39
Sante Fe Springs-L2 Grade Separation_CTF1	87	0	0	0	120	HHDT	0	7.25	0.00	4.64	4.64
Sante Fe Springs-L2 Grade Separation_CTF2	326	0	0	0	120	HHDT	0	27.16666667	0.00	17.39	17.39
Sante Fe Springs-L2 Grade Separation_CTF3	110	0	0	0	120	HHDT	0	9.166666667	0.00	5.87	5.87
Sante Fe Springs-L2 Grade Separation_CTF4	132	0	0	0	120	HHDT	0	11	0.00	7.04	7.04
Sante Fe Springs-L2 Grade Separation_CTF5	43	0	0	0	120	HHDT	0	3.583333333	0.00	2.29	2.29
Sante Fe Springs-L2 Grade Separation_CTF6	87	0	0	0	120	HHDT	0	7.25	0.00	4.64	4.64
Sante Fe Springs-L2 Grade Separation_CTF7	107	0	0	0	120	HHDT	0	8.916666667	0.00	5.71	5.71
Telegraph Road-L2 Grade Separation_FD	390	0	0	0	120	HHDT	0	32.5	0.00	20.80	20.80
Telegraph Road-L2 Grade Separation_CTF1	64	0	0	0	120	HHDT	0	5.333333333	0.00	3.41	3.41
Telegraph Road-L2 Grade Separation_CTF2	85	0	0	0	120	HHDT	0	7.083333333	0.00	4.53	4.53
Telegraph Road-L2 Grade Separation_CTF3	390	0	0	0	120	HHDT	0	32.5	0.00	20.80	20.80
Telegraph Road-L2 Grade Separation_CTF4	43	0	0	0	120	HHDT	0	3.583333333	0.00	2.29	2.29
Telegraph Road-L2 Grade Separation_CTF5	88	0	0	0	120	HHDT	0	7.333333333	0.00	4.69	4.69
Telegraph Road-L2 Grade Separation_CTF6	217	0	0	0	120	HHDT	0	18.08333333	0.00	11.57	11.57
Valley View Ave-L2 Grade Separation_FD	326	0	0	0	120	HHDT	0	27.16666667	0.00	17.39	17.39
Valley View Ave-L2 Grade Separation_CTF1	44	0	0	0	120	HHDT	0	3.666666667	0.00	2.35	2.35
Valley View Ave-L2 Grade Separation_CTF2	326	0	0	0	120	HHDT	0	27.16666667	0.00	17.39	17.39
Valley View Ave-L2 Grade Separation_CTF3	43	0	0	0	120	HHDT	0	3.583333333	0.00	2.29	2.29
Valley View Ave-L2 Grade Separation_CTF4	66	0	0	0	120	HHDT	0	5.5	0.00	3.52	3.52
Valley View Ave-L2 Grade Separation_CTF5	64	0	0	0	120	HHDT	0	5.333333333	0.00	3.41	3.41
Valley View Ave-L2 Grade Separation_CTF6	107	0	0	0	120	HHDT	0	8.916666667	0.00	5.71	5.71
Valley View Ave-L2 Grade Separation_CTF7	151	0	0	0	120	HHDT	0	12.58333333	0.00	8.05	8.05

Phase	Days	Truck Trips per Day (In/Out)	Total Truck Trips	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Valley View Ave-L2 Grade Separation_CTF8	216	0	0	0	120	HHDT	0	18	0.00	11.52	11.52
Valley View Ave-L2 Grade Separation_CTF9	43	0	0	0	120	HHDT	0	3.583333333	0.00	2.29	2.29
Valley View Ave-L2 Grade Separation_CTF10	66	0	0	0	120	HHDT	0	5.5	0.00	3.52	3.52
Beach Blvd-L2 Grade Separation_FD	261	0	0	0	120	HHDT	0	21.75	0.00	13.92	13.92
Beach Blvd-L2 Grade Separation_CTF1	43	0	0	0	120	HHDT	0	3.583333333	0.00	2.29	2.29
Beach Blvd-L2 Grade Separation_CTF2	87	0	0	0	120	HHDT	0	7.25	0.00	4.64	4.64
Beach Blvd-L2 Grade Separation_CTF3	109	0	0	0	120	HHDT	0	9.083333333	0.00	5.81	5.81
Beach Blvd-L2 Grade Separation_CTF4	261	0	0	0	120	HHDT	0	21.75	0.00	13.92	13.92
Beach Blvd-L2 Grade Separation_CTF5	109	0	0	0	120	HHDT	0	9.083333333	0.00	5.81	5.81
Beach Blvd-L2 Grade Separation_CTF6	109	0	0	0	120	HHDT	0	9.083333333	0.00	5.81	5.81
Gilbert St-L2 Grade Separation_FD	390	0	0	0	120	HHDT	0	32.5	0.00	20.80	20.80
Gilbert St-L2 Grade Separation_CTF1	43	0	0	0	120	HHDT	0	3.583333333	0.00	2.29	2.29
Gilbert St-L2 Grade Separation_CTF2	86	0	0	0	120	HHDT	0	7.166666667	0.00	4.59	4.59
Gilbert St-L2 Grade Separation_CTF3	130	0	0	0	120	HHDT	0	10.83333333	0.00	6.93	6.93
Gilbert St-L2 Grade Separation_CTF4	390	0	0	0	120	HHDT	0	32.5	0.00	20.80	20.80
Gilbert St-L2 Grade Separation_CTF5	216	0	0	0	120	HHDT	0	18	0.00	11.52	11.52
Gilbert St-L2 Grade Separation_CTF6	132	0	0	0	120	HHDT	0	11	0.00	7.04	7.04
Gilbert St-L2 Grade Separation_CTF7	218	0	0	0	120	HHDT	0	18.16666667	0.00	11.63	11.63
Euclid St-L2 Grade Separation_FD	391	0	0	0	120	HHDT	0	32.58333333	0.00	20.85	20.85
Euclid St-L2 Grade Separation_CTF1	262	0	0	0	120	HHDT	0	21.83333333	0.00	13.97	13.97
Euclid St-L2 Grade Separation_CTF2	283	0	0	0	120	HHDT	0	23.58333333	0.00	15.09	15.09
Euclid St-L2 Grade Separation_CTF3	326	0	0	0	120	HHDT	0	27.16666667	0.00	17.39	17.39
Euclid St-L2 Grade Separation_CTF4	391	0	0	0	120	HHDT	0	32.58333333	0.00	20.85	20.85
Euclid St-L2 Grade Separation_CTF5	43	0	0	0	120	HHDT	0	3.583333333	0.00	2.29	2.29
Euclid St-L2 Grade Separation_CTF6	88	0	0	0	120	HHDT	0	7.333333333	0.00	4.69	4.69
Euclid St-L2 Grade Separation_CTF7	43	0	0	0	120	HHDT	0	3.583333333	0.00	2.29	2.29
Euclid St-L2 Grade Separation_CTF8	154	0	0	0	120	HHDT	0	12.83333333	0.00	8.21	8.21
Lemon St-L2 Grade Separation_FD	650	0	0	0	120	HHDT	0	54.16666667	0.00	34.67	34.67
Lemon St-L2 Grade Separation_CTF1	238	0	0	0	120	HHDT	0	19.83333333	0.00	12.69	12.69
Lemon St-L2 Grade Separation_CTF2	650	0	0	0	120	HHDT	0	54.16666667	0.00	34.67	34.67
Lemon St-L2 Grade Separation_CTF3	79	0	0	0	120	HHDT	0	6.583333333	0.00	4.21	4.21
Lemon St-L2 Grade Separation_CTF4	261	0	0	0	120	HHDT	0	21.75	0.00	13.92	13.92
Lemon St-L2 Grade Separation_CTF5	109	0	0	0	120	HHDT	0	9.083333333	0.00	5.81	5.81
Lemon St-L2 Grade Separation_CTF6	132	0	0	0	120	HHDT	0	11	0.00	7.04	7.04
Lemon St-L2 Grade Separation_CTF7	305	0	0	0	120	HHDT	0	25.41666667	0.00	16.27	16.27
Atlantic Blvd-L3 Grade Separation_FD	328	0	0	0	120	HHDT	0	27.33333333	0.00	17.49	17.49
Atlantic Blvd-L3 Grade Separation_CTF1	132	0	0	0	120	HHDT	0	11	0.00	7.04	7.04
Atlantic Blvd-L3 Grade Separation_CTF2	154	0	0	0	120	HHDT	0	12.83333333	0.00	8.21	8.21
Atlantic Blvd-L3 Grade Separation_CTF3	219	0	0	0	120	HHDT	0	18.25	0.00	11.68	11.68
Atlantic Blvd-L3 Grade Separation_CTF4	328	0	0	0	120	HHDT	0	27.33333333	0.00	17.49	17.49
Atlantic Blvd-L3 Grade Separation_CTF5	66	0	0	0	120	HHDT	0	5.5	0.00	3.52	3.52
Atlantic Blvd-L3 Grade Separation_CTF6	86	0	0	0	120	HHDT	0	7.166666667	0.00	4.59	4.59
Atlantic Blvd-L3 Grade Separation_CTF7	131	0	0	0	120	HHDT	0	10.91666667	0.00	6.99	6.99
Atlantic Blvd-L3 Grade Separation_CTF8	174	0	0	0	120	HHDT	0	14.5	0.00	9.28	9.28
Atlantic Blvd-L3 Grade Separation_CTF9	261	0	0	0	120	HHDT	0	21.75	0.00	13.92	13.92
Rosemead Blvd-L3 Grade Separation_FD	521	0	0	0	120	HHDT	0	43.41666667	0.00	27.79	27.79
Rosemead Blvd-L3 Grade Separation_CTF1	108	0	0	0	120	HHDT	0	9	0.00	5.76	5.76
Rosemead Blvd-L3 Grade Separation_CTF2	521	0	0	0	120	HHDT	0	43.41666667	0.00	27.79	27.79
Rosemead Blvd-L3 Grade Separation_CTF3	63	0	0	0	120	HHDT	0	5.25	0.00	3.36	3.36
Rosemead Blvd-L3 Grade Separation_CTF4	108	0	0	0	120	HHDT	0	9	0.00	5.76	5.76
Rosemead Blvd-L3 Grade Separation_CTF5	433	0	0	0	120	HHDT	0	36.08333333	0.00	23.09	23.09
Rosemead Blvd-L3 Grade Separation_CTF6	66	0	0	0	120	HHDT	0	5.5	0.00	3.52	3.52
Rosemead Blvd-L3 Grade Separation_CTF7	86	0	0	0	120	HHDT	0	7.166666667	0.00	4.59	4.59
Rosemead Blvd-L3 Grade Separation_CTF8	413	0	0	0	120	HHDT	0	34.41666667	0.00	22.03	22.03

Phase	Days	Truck Trips per Day (In/Out)	Total Truck Trips	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Rosemead Blvd-L3 Grade Separation_CTF9	45	0	0	0	120	HHDT	0	3.75	0.00	2.40	2.40
Rosemead Blvd-L3 Grade Separation_CTF10	260	0	0	0	120	HHDT	0	21.66666667	0.00	13.87	13.87
Rosemead Blvd-L3 Grade Separation_CTF11	109	0	0	0	120	HHDT	0	9.083333333	0.00	5.81	5.81
Rosemead Blvd-L3 Grade Separation_CTF12	22	0	0	0	120	HHDT	0	1.833333333	0.00	1.17	1.17
Rosemead Blvd-L3 Grade Separation_CTF13	109	0	0	0	120	HHDT	0	9.083333333	0.00	5.81	5.81
Rosemead Blvd-L3 Grade Separation_CTF14	43	0	0	0	120	HHDT	0	3.583333333	0.00	2.29	2.29
Rosemead Blvd-L3 Grade Separation_CTF15	86	0	0	0	120	HHDT	0	7.166666667	0.00	4.59	4.59
Rosemead Blvd-L3 Grade Separation_CTF16	66	0	0	0	120	HHDT	0	5.5	0.00	3.52	3.52
Slauson Ave-L3 Grade Separation_FD	347	0	0	0	120	HHDT	0	28.91666667	0.00	18.51	18.51
Slauson Ave-L3 Grade Separation_CTF1	109	0	0	0	120	HHDT	0	9.083333333	0.00	5.81	5.81
Slauson Ave-L3 Grade Separation_CTF2	347	0	0	0	120	HHDT	0	28.91666667	0.00	18.51	18.51
Slauson Ave-L3 Grade Separation_CTF3	65	0	0	0	120	HHDT	0	5.416666667	0.00	3.47	3.47
Slauson Ave-L3 Grade Separation_CTF4	87	0	0	0	120	HHDT	0	7.25	0.00	4.64	4.64
Slauson Ave-L3 Grade Separation_CTF5	109	0	0	0	120	HHDT	0	9.083333333	0.00	5.81	5.81
Slauson Ave-L3 Grade Separation_CTF6	109	0	0	0	120	HHDT	0	9.083333333	0.00	5.81	5.81
Slauson Ave-L3 Grade Separation_CTF7	173	0	0	0	120	HHDT	0	14.41666667	0.00	9.23	9.23
Carmenita Rd-L3 Grade Separation_FD	521	0	0	0	120	HHDT	0	43.41666667	0.00	27.79	27.79
Carmenita Rd-L3 Grade Separation_CTF1	109	0	0	0	120	HHDT	0	9.083333333	0.00	5.81	5.81
Carmenita Rd-L3 Grade Separation_CTF2	196	0	0	0	120	HHDT	0	16.33333333	0.00	10.45	10.45
Carmenita Rd-L3 Grade Separation_CTF3	218	0	0	0	120	HHDT	0	18.16666667	0.00	11.63	11.63
Carmenita Rd-L3 Grade Separation_CTF4	521	0	0	0	120	HHDT	0	43.41666667	0.00	27.79	27.79
Carmenita Rd-L3 Grade Separation_CTF5	195	0	0	0	120	HHDT	0	16.25	0.00	10.40	10.40
Carmenita Rd-L3 Grade Separation_CTF6	304	0	0	0	120	HHDT	0	25.33333333	0.00	16.21	16.21
Carmenita Rd-L3 Grade Separation_CTF7	66	0	0	0	120	HHDT	0	5.5	0.00	3.52	3.52
Carmenita Rd-L3 Grade Separation_CTF8	87	0	0	0	120	HHDT	0	7.25	0.00	4.64	4.64
Carmenita Rd-L3 Grade Separation_CTF9	368	0	0	0	120	HHDT	0	30.66666667	0.00	19.63	19.63
Carmenita Rd-L3 Grade Separation_CTF10	108	0	0	0	120	HHDT	0	9	0.00	5.76	5.76
Carmenita Rd-L3 Grade Separation_CTF11	195	0	0	0	120	HHDT	0	16.25	0.00	10.40	10.40
Alondra Blvd-L3 Grade Separation_FD	652	0	0	0	120	HHDT	0	54.33333333	0.00	34.77	34.77
Alondra Blvd-L3 Grade Separation_CTF1	153	0	0	0	120	HHDT	0	12.75	0.00	8.16	8.16
Alondra Blvd-L3 Grade Separation_CTF2	217	0	0	0	120	HHDT	0	18.08333333	0.00	11.57	11.57
Alondra Blvd-L3 Grade Separation_CTF3	261	0	0	0	120	HHDT	0	21.75	0.00	13.92	13.92
Alondra Blvd-L3 Grade Separation_CTF4	327	0	0	0	120	HHDT	0	27.25	0.00	17.44	17.44
Alondra Blvd-L3 Grade Separation_CTF5	587	0	0	0	120	HHDT	0	48.91666667	0.00	31.31	31.31
Alondra Blvd-L3 Grade Separation_CTF6	652	0	0	0	120	HHDT	0	54.33333333	0.00	34.77	34.77
Alondra Blvd-L3 Grade Separation_CTF7	44	0	0	0	120	HHDT	0	3.666666667	0.00	2.35	2.35
Alondra Blvd-L3 Grade Separation_CTF8	174	0	0	0	120	HHDT	0	14.5	0.00	9.28	9.28
Alondra Blvd-L3 Grade Separation_CTF9	217	0	0	0	120	HHDT	0	18.08333333	0.00	11.57	11.57
Alondra Blvd-L3 Grade Separation_CTF10	478	0	0	0	120	HHDT	0	39.83333333	0.00	25.49	25.49
Alondra Blvd-L3 Grade Separation_CTF11	565	0	0	0	120	HHDT	0	47.08333333	0.00	30.13	30.13
Alondra Blvd-L3 Grade Separation_CTF12	43	0	0	0	120	HHDT	0	3.583333333	0.00	2.29	2.29
Dale St-L3 Grade Separation_FD	326	0	0	0	120	HHDT	0	27.16666667	0.00	17.39	17.39
Dale St-L3 Grade Separation_CTF1	21	0	0	0	120	HHDT	0	1.75	0.00	1.12	1.12
Dale St-L3 Grade Separation_CTF2	43	0	0	0	120	HHDT	0	3.583333333	0.00	2.29	2.29
Dale St-L3 Grade Separation_CTF3	86	0	0	0	120	HHDT	0	7.166666667	0.00	4.59	4.59
Dale St-L3 Grade Separation_CTF4	109	0	0	0	120	HHDT	0	9.083333333	0.00	5.81	5.81
Dale St-L3 Grade Separation_CTF5	174	0	0	0	120	HHDT	0	14.5	0.00	9.28	9.28
Dale St-L3 Grade Separation_CTF6	218	0	0	0	120	HHDT	0	18.16666667	0.00	11.63	11.63
Dale St-L3 Grade Separation_CTF7	217	0	0	0	120	HHDT	0	18.08333333	0.00	11.57	11.57
Dale St-L3 Grade Separation_CTF8	110	0	0	0	120	HHDT	0	9.166666667	0.00	5.87	5.87
Dale St-L3 Grade Separation_CTF9	77	0	0	0	120	HHDT	0	6.416666667	0.00	4.11	4.11
Commonwealth Ave-L3 Grade Separation_FD	522	0	0	0	120	HHDT	0	43.5	0.00	27.84	27.84
Commonwealth Ave-L3 Grade Separation_CTF1	132	0	0	0	120	HHDT	0	11	0.00	7.04	7.04
Commonwealth Ave-L3 Grade Separation_CTF2	261	0	0	0	120	HHDT	0	21.75	0.00	13.92	13.92

Phase	Days	Truck Trips per Day (In/Out)	Total Truck Trips	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Commonwealth Ave-L3 Grade Separation_CTF3	522	0	0	0	120	HHDT	0	43.5	0.00	27.84	27.84
Commonwealth Ave-L3 Grade Separation_CTF4	260	0	0	0	120	HHDT	0	21.66666667	0.00	13.87	13.87
Commonwealth Ave-L3 Grade Separation_CTF5	152	0	0	0	120	HHDT	0	12.66666667	0.00	8.11	8.11
Commonwealth Ave-L3 Grade Separation_CTF6	43	0	0	0	120	HHDT	0	3.583333333	0.00	2.29	2.29
Commonwealth Ave-L3 Grade Separation_CTF7	195	0	0	0	120	HHDT	0	16.25	0.00	10.40	10.40
Commonwealth Ave-L3 Grade Separation_CTF8	86	0	0	0	120	HHDT	0	7.166666667	0.00	4.59	4.59
Commonwealth Ave-L3 Grade Separation_CTF9	85	0	0	0	120	HHDT	0	7.083333333	0.00	4.53	4.53
Commonwealth Ave-L3 Grade Separation_CTF10	870	0	0	0	120	HHDT	0	72.5	0.00	46.40	46.40
Commonwealth Ave-L3 Grade Separation_CTF11	43	0	0	0	120	HHDT	0	3.583333333	0.00	2.29	2.29
Highland Ave-L3 Grade Separation_FD	651	0	0	0	120	HHDT	0	54.25	0.00	34.72	34.72
Highland Ave-L3 Grade Separation_CTF1	152	0	0	0	120	HHDT	0	12.66666667	0.00	8.11	8.11
Highland Ave-L3 Grade Separation_CTF2	130	0	0	0	120	HHDT	0	10.83333333	0.00	6.93	6.93
Highland Ave-L3 Grade Separation_CTF3	260	0	0	0	120	HHDT	0	21.66666667	0.00	13.87	13.87
Highland Ave-L3 Grade Separation_CTF4	651	0	0	0	120	HHDT	0	54.25	0.00	34.72	34.72
Highland Ave-L3 Grade Separation_CTF5	630	0	0	0	120	HHDT	0	52.5	0.00	33.60	33.60
Highland Ave-L3 Grade Separation_CTF6	66	0	0	0	120	HHDT	0	5.5	0.00	3.52	3.52
Highland Ave-L3 Grade Separation_CTF7	132	0	0	0	120	HHDT	0	11	0.00	7.04	7.04
Highland Ave-L3 Grade Separation_CTF8	154	0	0	0	120	HHDT	0	12.83333333	0.00	8.21	8.21
Highland Ave-L3 Grade Separation_CTF9	174	0	0	0	120	HHDT	0	14.5	0.00	9.28	9.28
Highland Ave-L3 Grade Separation_CTF10	130	0	0	0	120	HHDT	0	10.83333333	0.00	6.93	6.93
Highland Ave-L3 Grade Separation_CTF11	261	0	0	0	120	HHDT	0	21.75	0.00	13.92	13.92
Highland Ave-L3 Grade Separation_CTF12	217	0	0	0	120	HHDT	0	18.08333333	0.00	11.57	11.57
Highland Ave-L3 Grade Separation_CTF13	174	0	0	0	120	HHDT	0	14.5	0.00	9.28	9.28
Harbor Blvd-L3 Grade Separation_FD	522	0	0	0	120	HHDT	0	43.5	0.00	27.84	27.84
Harbor Blvd-L3 Grade Separation_CTF1	217	0	0	0	120	HHDT	0	18.08333333	0.00	11.57	11.57
Harbor Blvd-L3 Grade Separation_CTF2	522	0	0	0	120	HHDT	0	43.5	0.00	27.84	27.84
Harbor Blvd-L3 Grade Separation_CTF3	173	0	0	0	120	HHDT	0	14.41666667	0.00	9.23	9.23
Harbor Blvd-L3 Grade Separation_CTF4	217	0	0	0	120	HHDT	0	18.08333333	0.00	11.57	11.57
Harbor Blvd-L3 Grade Separation_CTF5	173	0	0	0	120	HHDT	0	14.41666667	0.00	9.23	9.23
Douglass Rd-L3 Grade Separation_FD	392	0	0	0	120	HHDT	0	32.66666667	0.00	20.91	20.91
Douglass Rd-L3 Grade Separation_CTF1	131	0	0	0	120	HHDT	0	10.91666667	0.00	6.99	6.99
Douglass Rd-L3 Grade Separation_CTF2	218	0	0	0	120	HHDT	0	18.16666667	0.00	11.63	11.63
Douglass Rd-L3 Grade Separation_CTF3	262	0	0	0	120	HHDT	0	21.83333333	0.00	13.97	13.97
Douglass Rd-L3 Grade Separation_CTF4	392	0	0	0	120	HHDT	0	32.66666667	0.00	20.91	20.91
Douglass Rd-L3 Grade Separation_CTF5	434	0	0	0	120	HHDT	0	36.16666667	0.00	23.15	23.15
Douglass Rd-L3 Grade Separation_CTF6	43	0	0	0	120	HHDT	0	3.583333333	0.00	2.29	2.29
Douglass Rd-L3 Grade Separation_CTF7	174	0	0	0	120	HHDT	0	14.5	0.00	9.28	9.28
Douglass Rd-L3 Grade Separation_CTF8	130	0	0	0	120	HHDT	0	10.83333333	0.00	6.93	6.93
Douglass Rd-L3 Grade Separation_CTF9	175	0	0	0	120	HHDT	0	14.58333333	0.00	9.33	9.33
Douglass Rd-L3 Grade Separation_CTF10	196	0	0	0	120	HHDT	0	16.33333333	0.00	10.45	10.45
Douglass Rd-L3 Grade Separation_CTF11	64	0	0	0	120	HHDT	0	5.333333333	0.00	3.41	3.41
Pioneer Blvd-L4 Grade Separation_FD	654	0	0	0	120	HHDT	0	54.5	0.00	34.88	34.88
Pioneer Blvd-L4 Grade Separation_CTF1	262	0	0	0	120	HHDT	0	21.83333333	0.00	13.97	13.97
Pioneer Blvd-L4 Grade Separation_CTF2	349	0	0	0	120	HHDT	0	29.08333333	0.00	18.61	18.61
Pioneer Blvd-L4 Grade Separation_CTF3	654	0	0	0	120	HHDT	0	54.5	0.00	34.88	34.88
Pioneer Blvd-L4 Grade Separation_CTF4	132	0	0	0	120	HHDT	0	11	0.00	7.04	7.04
Pioneer Blvd-L4 Grade Separation_CTF5	153	0	0	0	120	HHDT	0	12.75	0.00	8.16	8.16
Pioneer Blvd-L4 Grade Separation_CTF6	262	0	0	0	120	HHDT	0	21.83333333	0.00	13.97	13.97
Pioneer Blvd-L4 Grade Separation_CTF7	131	0	0	0	120	HHDT	0	10.91666667	0.00	6.99	6.99
Pioneer Blvd-L4 Grade Separation_CTF8	174	0	0	0	120	HHDT	0	14.5	0.00	9.28	9.28
Pioneer Blvd-L4 Grade Separation_CTF9	479	0	0	0	120	HHDT	0	39.91666667	0.00	25.55	25.55
Pioneer Blvd-L4 Grade Separation_CTF10	457	0	0	0	120	HHDT	0	38.08333333	0.00	24.37	24.37
Pioneer Blvd-L4 Grade Separation_CTF11	130	0	0	0	120	HHDT	0	10.83333333	0.00	6.93	6.93
Pioneer Blvd-L4 Grade Separation_CTF12	349	0	0	0	120	HHDT	0	29.08333333	0.00	18.61	18.61

Phase	Days	Truck Trips per Day (In/Out)	Total Truck Trips	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Pioneer Blvd-L4 Grade Separation_CTF13	175	0	0	0	120	HHDT	0	14.58333333	0.00	9.33	9.33
Pioneer Blvd-L4 Grade Separation_CTF14	107	0	0	0	120	HHDT	0	8.916666667	0.00	5.71	5.71
Pioneer Blvd-L4 Grade Separation_CTF15	44	0	0	0	120	HHDT	0	3.666666667	0.00	2.35	2.35
Pioneer Blvd-L4 Grade Separation_CTF16	66	0	0	0	120	HHDT	0	5.5	0.00	3.52	3.52
Norwalk Blvd-L4 Grade Separation_FD	782	0	0	0	120	HHDT	0	65.16666667	0.00	41.71	41.71
Norwalk Blvd-L4 Grade Separation_CTF1	131	0	0	0	120	HHDT	0	10.91666667	0.00	6.99	6.99
Norwalk Blvd-L4 Grade Separation_CTF2	152	0	0	0	120	HHDT	0	12.66666667	0.00	8.11	8.11
Norwalk Blvd-L4 Grade Separation_CTF3	391	0	0	0	120	HHDT	0	32.58333333	0.00	20.85	20.85
Norwalk Blvd-L4 Grade Separation_CTF4	542	0	0	0	120	HHDT	0	45.16666667	0.00	28.91	28.91
Norwalk Blvd-L4 Grade Separation_CTF5	782	0	0	0	120	HHDT	0	65.16666667	0.00	41.71	41.71
Norwalk Blvd-L4 Grade Separation_CTF6	131	0	0	0	120	HHDT	0	10.91666667	0.00	6.99	6.99
Norwalk Blvd-L4 Grade Separation_CTF7	107	0	0	0	120	HHDT	0	8.916666667	0.00	5.71	5.71
Norwalk Blvd-L4 Grade Separation_CTF8	130	0	0	0	120	HHDT	0	10.83333333	0.00	6.93	6.93
Norwalk Blvd-L4 Grade Separation_CTF9	390	0	0	0	120	HHDT	0	32.5	0.00	20.80	20.80
Norwalk Blvd-L4 Grade Separation_CTF10	130	0	0	0	120	HHDT	0	10.83333333	0.00	6.93	6.93
Norwalk Blvd-L4 Grade Separation_CTF11	218	0	0	0	120	HHDT	0	18.16666667	0.00	11.63	11.63
Los Nietos Rd-L4 Grade Separation_FD	782	0	0	0	120	HHDT	0	65.16666667	0.00	41.71	41.71
Los Nietos Rd-L4 Grade Separation_CTF1	131	0	0	0	120	HHDT	0	10.91666667	0.00	6.99	6.99
Los Nietos Rd-L4 Grade Separation_CTF2	152	0	0	0	120	HHDT	0	12.66666667	0.00	8.11	8.11
Los Nietos Rd-L4 Grade Separation_CTF3	391	0	0	0	120	HHDT	0	32.58333333	0.00	20.85	20.85
Los Nietos Rd-L4 Grade Separation_CTF4	542	0	0	0	120	HHDT	0	45.16666667	0.00	28.91	28.91
Los Nietos Rd-L4 Grade Separation_CTF5	782	0	0	0	120	HHDT	0	65.16666667	0.00	41.71	41.71
Los Nietos Rd-L4 Grade Separation_CTF6	131	0	0	0	120	HHDT	0	10.91666667	0.00	6.99	6.99
Los Nietos Rd-L4 Grade Separation_CTF7	107	0	0	0	120	HHDT	0	8.916666667	0.00	5.71	5.71
Los Nietos Rd-L4 Grade Separation_CTF8	130	0	0	0	120	HHDT	0	10.83333333	0.00	6.93	6.93
Los Nietos Rd-L4 Grade Separation_CTF9	390	0	0	0	120	HHDT	0	32.5	0.00	20.80	20.80
Los Nietos Rd-L4 Grade Separation_CTF10	130	0	0	0	120	HHDT	0	10.83333333	0.00	6.93	6.93
Los Nietos Rd-L4 Grade Separation_CTF11	218	0	0	0	120	HHDT	0	18.16666667	0.00	11.63	11.63
Cerritos Ave-L4 Grade Separation_FD	783	0	0	0	120	HHDT	0	65.25	0.00	41.76	41.76
Cerritos Ave-L4 Grade Separation_CTF1	130	0	0	0	120	HHDT	0	10.83333333	0.00	6.93	6.93
Cerritos Ave-L4 Grade Separation_CTF2	130	0	0	0	120	HHDT	0	10.83333333	0.00	6.93	6.93
Cerritos Ave-L4 Grade Separation_CTF3	283	0	0	0	120	HHDT	0	23.58333333	0.00	15.09	15.09
Cerritos Ave-L4 Grade Separation_CTF4	391	0	0	0	120	HHDT	0	32.58333333	0.00	20.85	20.85
Cerritos Ave-L4 Grade Separation_CTF5	500	0	0	0	120	HHDT	0	41.66666667	0.00	26.67	26.67
Cerritos Ave-L4 Grade Separation_CTF6	783	0	0	0	120	HHDT	0	65.25	0.00	41.76	41.76
Cerritos Ave-L4 Grade Separation_CTF7	129	0	0	0	120	HHDT	0	10.75	0.00	6.88	6.88
Cerritos Ave-L4 Grade Separation_CTF8	434	0	0	0	120	HHDT	0	36.16666667	0.00	23.15	23.15
Cerritos Ave-L4 Grade Separation_CTF9	129	0	0	0	120	HHDT	0	10.75	0.00	6.88	6.88
Cerritos Ave-L4 Grade Separation_CTF10	172	0	0	0	120	HHDT	0	14.33333333	0.00	9.17	9.17
Cerritos Ave-L4 Grade Separation_CTF11	238	0	0	0	120	HHDT	0	19.83333333	0.00	12.69	12.69
Cerritos Ave-L4 Grade Separation_CTF12	261	0	0	0	120	HHDT	0	21.75	0.00	13.92	13.92
Cerritos Ave-L4 Grade Separation_CTF13	196	0	0	0	120	HHDT	0	16.33333333	0.00	10.45	10.45
Cerritos Ave-L4 Grade Separation_CTF14	89	0	0	0	120	HHDT	0	7.416666667	0.00	4.75	4.75
Cerritos Ave-L4 Grade Separation_CTF15	132	0	0	0	120	HHDT	0	11	0.00	7.04	7.04
Cerritos Ave-L4 Grade Separation_CTF16	87	0	0	0	120	HHDT	0	7.25	0.00	4.64	4.64
Cerritos Ave-L4 Grade Separation_CTF17	218	0	0	0	120	HHDT	0	18.16666667	0.00	11.63	11.63
Cerritos Ave-L4 Grade Separation_CTF18	131	0	0	0	120	HHDT	0	10.91666667	0.00	6.99	6.99
Lewis St-L4 Grade Separation_FD	390	0	0	0	120	HHDT	0	32.5	0.00	20.80	20.80
Lewis St-L4 Grade Separation_CTF1	41	0	0	0	120	HHDT	0	3.416666667	0.00	2.19	2.19
Lewis St-L4 Grade Separation_CTF2	260	0	0	0	120	HHDT	0	21.66666667	0.00	13.87	13.87
Lewis St-L4 Grade Separation_CTF3	65	0	0	0	120	HHDT	0	5.416666667	0.00	3.47	3.47
Lewis St-L4 Grade Separation_CTF4	175	0	0	0	120	HHDT	0	14.58333333	0.00	9.33	9.33
Lewis St-L4 Grade Separation_CTF5	21	0	0	0	120	HHDT	0	1.75	0.00	1.12	1.12
Lewis St-L4 Grade Separation_CTF6	44	0	0	0	120	HHDT	0	3.666666667	0.00	2.35	2.35

Phase	Days	Truck Trips per Day (In/Out)	Total Truck Trips	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Lewis St-L4 Grade Separation_CTF7	109	0	0	0	120	HHDT	0	9.083333333	0.00	5.81	5.81
Lewis St-L4 Grade Separation_CTF8	261	0	0	0	120	HHDT	0	21.75	0.00	13.92	13.92
Lewis St-L4 Grade Separation_CTF9	131	0	0	0	120	HHDT	0	10.91666667	0.00	6.99	6.99
Lewis St-L4 Grade Separation_CTF10	163	0	0	0	120	HHDT	0	13.58333333	0.00	8.69	8.69
Lewis St-L4 Grade Separation_CTF11	88	0	0	0	120	HHDT	0	7.333333333	0.00	4.69	4.69
Lewis St-L4 Grade Separation_CTF12	240	0	0	0	120	HHDT	0	20	0.00	12.80	12.80
Lewis St-L4 Grade Separation_CTF13	65	0	0	0	120	HHDT	0	5.416666667	0.00	3.47	3.47
Lewis St-L4 Grade Separation_CTF14	195	0	0	0	120	HHDT	0	16.25	0.00	10.40	10.40
Lewis St-L4 Grade Separation_CTF15	87	0	0	0	120	HHDT	0	7.25	0.00	4.64	4.64
State College Blvd-L4 Grade Separation_FD	783	0	0	0	120	HHDT	0	65.25	0.00	41.76	41.76
State College Blvd-L4 Grade Separation_CTF1	173	0	0	0	120	HHDT	0	14.41666667	0.00	9.23	9.23
State College Blvd-L4 Grade Separation_CTF2	523	0	0	0	120	HHDT	0	43.58333333	0.00	27.89	27.89
State College Blvd-L4 Grade Separation_CTF3	783	0	0	0	120	HHDT	0	65.25	0.00	41.76	41.76
State College Blvd-L4 Grade Separation_CTF4	412	0	0	0	120	HHDT	0	34.33333333	0.00	21.97	21.97
State College Blvd-L4 Grade Separation_CTF5	197	0	0	0	120	HHDT	0	16.41666667	0.00	10.51	10.51
State College Blvd-L4 Grade Separation_CTF6	219	0	0	0	120	HHDT	0	18.25	0.00	11.68	11.68
State College Blvd-L4 Grade Separation_CTF7	153	0	0	0	120	HHDT	0	12.75	0.00	8.16	8.16
State College Blvd-L4 Grade Separation_CTF8	108	0	0	0	120	HHDT	0	9	0.00	5.76	5.76
State College Blvd-L4 Grade Separation_CTF9	217	0	0	0	120	HHDT	0	18.08333333	0.00	11.57	11.57
State College Blvd-L4 Grade Separation_CTF10	304	0	0	0	120	HHDT	0	25.33333333	0.00	16.21	16.21
State College Blvd-L4 Grade Separation_CTF11	261	0	0	0	120	HHDT	0	21.75	0.00	13.92	13.92
State College Blvd-L4 Grade Separation_CTF12	129	0	0	0	120	HHDT	0	10.75	0.00	6.88	6.88
State College Blvd-L4 Grade Separation_CTF13	129	0	0	0	120	HHDT	0	10.75	0.00	6.88	6.88
State College Blvd-L4 Grade Separation_CTF14	239	0	0	0	120	HHDT	0	19.91666667	0.00	12.75	12.75
State College Blvd-L4 Grade Separation_CTF15	87	0	0	0	120	HHDT	0	7.25	0.00	4.64	4.64
Katella Ave-L4 Grade Separation_FD	651	0	0	0	120	HHDT	0	54.25	0.00	34.72	34.72
Katella Ave-L4 Grade Separation_CTF1	85	0	0	0	120	HHDT	0	7.083333333	0.00	4.53	4.53
Katella Ave-L4 Grade Separation_CTF2	260	0	0	0	120	HHDT	0	21.66666667	0.00	13.87	13.87
Katella Ave-L4 Grade Separation_CTF3	390	0	0	0	120	HHDT	0	32.5	0.00	20.80	20.80
Katella Ave-L4 Grade Separation_CTF4	651	0	0	0	120	HHDT	0	54.25	0.00	34.72	34.72
Katella Ave-L4 Grade Separation_CTF5	175	0	0	0	120	HHDT	0	14.58333333	0.00	9.33	9.33
Katella Ave-L4 Grade Separation_CTF6	130	0	0	0	120	HHDT	0	10.83333333	0.00	6.93	6.93
Katella Ave-L4 Grade Separation_CTF7	195	0	0	0	120	HHDT	0	16.25	0.00	10.40	10.40
Katella Ave-L4 Grade Separation_CTF8	65	0	0	0	120	HHDT	0	5.416666667	0.00	3.47	3.47
Katella Ave-L4 Grade Separation_CTF9	87	0	0	0	120	HHDT	0	7.25	0.00	4.64	4.64
Katella Ave-L4 Grade Separation_CTF10	65	0	0	0	120	HHDT	0	5.416666667	0.00	3.47	3.47
Redondo Junction-L1 Water Crossing_FD	87	0	0	0	120	HHDT	0	7.25	0.00	4.64	4.64
Redondo Junction-L1 Water Crossing_CTF1	87	0	0	0	120	HHDT	0	7.25	0.00	4.64	4.64
Coyote Creek-L1Water Crossing_FD	131	0	0	0	120	HHDT	0	10.91666667	0.00	6.99	6.99
Coyote Creek-L1Water Crossing_CTF1	66	0	0	0	120	HHDT	0	5.5	0.00	3.52	3.52
Coyote Creek-L1Water Crossing_CTF2	131	0	0	0	120	HHDT	0	10.91666667	0.00	6.99	6.99
Coyote Creek-L1Water Crossing_CTF3	21	0	0	0	120	HHDT	0	1.75	0.00	1.12	1.12
Carbon Creek-L1 Water Crossing_FD	89	0	0	0	120	HHDT	0	7.416666667	0.00	4.75	4.75
Carbon Creek-L1 Water Crossing_CTF1	89	0	0	0	120	HHDT	0	7.416666667	0.00	4.75	4.75
San Gabriel River-L2 Water Crossing_FD	457	0	0	0	120	HHDT	0	38.08333333	0.00	24.37	24.37
San Gabriel River-L2 Water Crossing_CTF1	65	0	0	0	120	HHDT	0	5.416666667	0.00	3.47	3.47
San Gabriel River-L2 Water Crossing_CTF2	87	0	0	0	120	HHDT	0	7.25	0.00	4.64	4.64
San Gabriel River-L2 Water Crossing_CTF3	108	0	0	0	120	HHDT	0	9	0.00	5.76	5.76
San Gabriel River-L2 Water Crossing_CTF4	152	0	0	0	120	HHDT	0	12.66666667	0.00	8.11	8.11
San Gabriel River-L2 Water Crossing_CTF5	347	0	0	0	120	HHDT	0	28.91666667	0.00	18.51	18.51
San Gabriel River-L2 Water Crossing_CTF6	435	0	0	0	120	HHDT	0	36.25	0.00	23.20	23.20
San Gabriel River-L2 Water Crossing_CTF7	457	0	0	0	120	HHDT	0	38.08333333	0.00	24.37	24.37
San Gabriel River-L2 Water Crossing_CTF8	110	0	0	0	120	HHDT	0	9.166666667	0.00	5.87	5.87
San Gabriel River-L2 Water Crossing_CTF9	175	0	0	0	120	HHDT	0	14.58333333	0.00	9.33	9.33

Phase	Days	Truck Trips per Day (In/Out)	Total Truck Trips	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Rio Hondo SG-L3 Water Crossing_FD	325	0	0	0	120	HHDT	0	27.08333333	0.00	17.33	17.33
Rio Hondo SG-L3 Water Crossing_CTF1	150	0	0	0	120	HHDT	0	12.5	0.00	8.00	8.00
Rio Hondo SG-L3 Water Crossing_CTF2	216	0	0	0	120	HHDT	0	18	0.00	11.52	11.52
Rio Hondo SG-L3 Water Crossing_CTF3	325	0	0	0	120	HHDT	0	27.08333333	0.00	17.33	17.33
Rio Hondo River-L3 Water Crossing_FD	325	0	0	0	120	HHDT	0	27.08333333	0.00	17.33	17.33
Rio Hondo River-L3 Water Crossing_CTF1	150	0	0	0	120	HHDT	0	12.5	0.00	8.00	8.00
Rio Hondo River-L3 Water Crossing_CTF2	325	0	0	0	120	HHDT	0	27.08333333	0.00	17.33	17.33
Rio Hondo River-L3 Water Crossing_CTF3	65	0	0	0	120	HHDT	0	5.416666667	0.00	3.47	3.47
Rio Hondo River-L3 Water Crossing_CTF4	86	0	0	0	120	HHDT	0	7.166666667	0.00	4.59	4.59
Rio Hondo River-L3 Water Crossing_CTF5	108	0	0	0	120	HHDT	0	9	0.00	5.76	5.76
Rio Hondo River-L3 Water Crossing_CTF6	173	0	0	0	120	HHDT	0	14.41666667	0.00	9.23	9.23
Coyote Creek-N Fork-L3 Water Crossing_FD	260	0	0	0	120	HHDT	0	21.66666667	0.00	13.87	13.87
Coyote Creek-N Fork-L3 Water Crossing_CTF1	85	0	0	0	120	HHDT	0	7.083333333	0.00	4.53	4.53
Coyote Creek-N Fork-L3 Water Crossing_CTF2	108	0	0	0	120	HHDT	0	9	0.00	5.76	5.76
Coyote Creek-N Fork-L3 Water Crossing_CTF3	260	0	0	0	120	HHDT	0	21.66666667	0.00	13.87	13.87
Coyote Creek-N Fork-L3 Water Crossing_CTF4	455	0	0	0	120	HHDT	0	37.91666667	0.00	24.27	24.27
Coyote Creek-N Fork-L3 Water Crossing_CTF5	63	0	0	0	120	HHDT	0	5.25	0.00	3.36	3.36
Coyote Creek-N Fork-L3 Water Crossing_CTF6	173	0	0	0	120	HHDT	0	14.41666667	0.00	9.23	9.23
Coyote Creek-N Fork-L3 Water Crossing_CTF7	218	0	0	0	120	HHDT	0	18.16666667	0.00	11.63	11.63
La Mirada Creek-L3 Water Crossing_FD	260	0	0	0	120	HHDT	0	21.66666667	0.00	13.87	13.87
La Mirada Creek-L3 Water Crossing_CTF1	87	0	0	0	120	HHDT	0	7.25	0.00	4.64	4.64
La Mirada Creek-L3 Water Crossing_CTF2	130	0	0	0	120	HHDT	0	10.83333333	0.00	6.93	6.93
La Mirada Creek-L3 Water Crossing_CTF3	260	0	0	0	120	HHDT	0	21.66666667	0.00	13.87	13.87
La Mirada Creek-L3 Water Crossing_CTF4	43	0	0	0	120	HHDT	0	3.583333333	0.00	2.29	2.29
Brea Creek-L3 Water Crossing_FD	325	0	0	0	120	HHDT	0	27.08333333	0.00	17.33	17.33
Brea Creek-L3 Water Crossing_CTF1	42	0	0	0	120	HHDT	0	3.5	0.00	2.24	2.24
Brea Creek-L3 Water Crossing_CTF2	108	0	0	0	120	HHDT	0	9	0.00	5.76	5.76
Brea Creek-L3 Water Crossing_CTF3	130	0	0	0	120	HHDT	0	10.83333333	0.00	6.93	6.93
Brea Creek-L3 Water Crossing_CTF4	217	0	0	0	120	HHDT	0	18.08333333	0.00	11.57	11.57
Brea Creek-L3 Water Crossing_CTF5	43	0	0	0	120	HHDT	0	3.583333333	0.00	2.29	2.29
Brea Creek-L3 Water Crossing_CTF6	43	0	0	0	120	HHDT	0	3.583333333	0.00	2.29	2.29
Brea Creek-L3 Water Crossing_CTF7	175	0	0	0	120	HHDT	0	14.58333333	0.00	9.33	9.33
Brea Creek-L3 Water Crossing_CTF8	392	0	0	0	120	HHDT	0	32.66666667	0.00	20.91	20.91
Redondo Jct TPSS_FD	261	0	0	0	120	HHDT	0	21.75	0.00	13.92	13.92
Redondo Jct TPSS_CTF1	216	0	0	0	120	HHDT	0	18	0.00	11.52	11.52
Redondo Jct TPSS_CTF2	44	0	0	0	120	HHDT	0	3.666666667	0.00	2.35	2.35
Redondo Jct TPSS_CTF3	261	0	0	0	120	HHDT	0	21.75	0.00	13.92	13.92
Redondo Jct TPSS_CTF4	132	0	0	0	120	HHDT	0	11	0.00	7.04	7.04
Redondo Jct TPSS_CTF5	20	0	0	0	120	HHDT	0	1.666666667	0.00	1.07	1.07
Redondo Jct TPSS_CTF6	22	0	0	0	120	HHDT	0	1.833333333	0.00	1.17	1.17
Anaheim TPSS_FD	239	0	0	0	120	HHDT	0	19.91666667	0.00	12.75	12.75
Anaheim TPSS_CTF1	216	0	0	0	120	HHDT	0	18	0.00	11.52	11.52
Anaheim TPSS_CTF2	44	0	0	0	120	HHDT	0	3.666666667	0.00	2.35	2.35
Anaheim TPSS_CTF3	261	0	0	0	120	HHDT	0	21.75	0.00	13.92	13.92
Anaheim TPSS_CTF4	22	0	0	0	120	HHDT	0	1.833333333	0.00	1.17	1.17
Anaheim TPSS_CTF5	43	0	0	0	120	HHDT	0	3.583333333	0.00	2.29	2.29
Anaheim TPSS_CTF6	132	0	0	0	120	HHDT	0	11	0.00	7.04	7.04
Anaheim TPSS_CTF7	239	0	0	0	120	HHDT	0	19.91666667	0.00	12.75	12.75
Anaheim TPSS_CTF8	20	0	0	0	120	HHDT	0	1.666666667	0.00	1.07	1.07
Anaheim TPSS_CTF9	22	0	0	0	120	HHDT	0	1.833333333	0.00	1.17	1.17
Paralleling Station #2_FD	262	0	0	0	120	HHDT	0	21.83333333	0.00	13.97	13.97
Paralleling Station #2_CTF1	23	0	0	0	120	HHDT	0	1.916666667	0.00	1.23	1.23
Paralleling Station #2_CTF2	108	0	0	0	120	HHDT	0	9	0.00	5.76	5.76
Paralleling Station #2_CTF3	261	0	0	0	120	HHDT	0	21.75	0.00	13.92	13.92

Phase	Days	Truck Trips per Day (In/Out)	Total Truck Trips	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Paralleling Station #2_CTF4	22	0	0	0	120	HHDT	0	1.833333333	0.00	1.17	1.17
Paralleling Station #2_CTF5	20	0	0	0	120	HHDT	0	1.666666667	0.00	1.07	1.07
Paralleling Station #2_CTF6	22	0	0	0	120	HHDT	0	1.833333333	0.00	1.17	1.17
Paralleling Station #4_FD	261	0	0	0	120	HHDT	0	21.75	0.00	13.92	13.92
Paralleling Station #4_CTF1	23	0	0	0	120	HHDT	0	1.916666667	0.00	1.23	1.23
Paralleling Station #4_CTF2	108	0	0	0	120	HHDT	0	9	0.00	5.76	5.76
Paralleling Station #4_CTF3	261	0	0	0	120	HHDT	0	21.75	0.00	13.92	13.92
Paralleling Station #4_CTF4	22	0	0	0	120	HHDT	0	1.833333333	0.00	1.17	1.17
Paralleling Station #4_CTF5	20	0	0	0	120	HHDT	0	1.666666667	0.00	1.07	1.07
Paralleling Station #4_CTF6	22	0	0	0	120	HHDT	0	1.833333333	0.00	1.17	1.17
Switching Station_FD	129	0	0	0	120	HHDT	0	10.75	0.00	6.88	6.88
Switching Station_CTF1	22	0	0	0	120	HHDT	0	1.833333333	0.00	1.17	1.17
Switching Station_CTF2	129	0	0	0	120	HHDT	0	10.75	0.00	6.88	6.88
Switching Station_CTF3	20	0	0	0	120	HHDT	0	1.666666667	0.00	1.07	1.07
Switching Station_CTF4	44	0	0	0	120	HHDT	0	3.666666667	0.00	2.35	2.35
Switching Station_CTF5	22	0	0	0	120	HHDT	0	1.833333333	0.00	1.17	1.17
Communciation Tower #1_FD	66	0	0	0	120	HHDT	0	5.5	0.00	3.52	3.52
Communciation Tower #1_CTF1	23	0	0	0	120	HHDT	0	1.916666667	0.00	1.23	1.23
Communciation Tower #1_CTF2	66	0	0	0	120	HHDT	0	5.5	0.00	3.52	3.52
Communciation Tower #1_CTF3	22	0	0	0	120	HHDT	0	1.833333333	0.00	1.17	1.17
Communciation Tower #3_FD	64	0	0	0	120	HHDT	0	5.333333333	0.00	3.41	3.41
Communciation Tower #3_CTF1	42	0	0	0	120	HHDT	0	3.5	0.00	2.24	2.24
Communciation Tower #3_CTF2	64	0	0	0	120	HHDT	0	5.333333333	0.00	3.41	3.41
Communciation Tower #3_CTF3	21	0	0	0	120	HHDT	0	1.75	0.00	1.12	1.12
Communciation Tower #3_CTF4	22	0	0	0	120	HHDT	0	1.833333333	0.00	1.17	1.17
Communciation Tower #5_FD	66	0	0	0	120	HHDT	0	5.5	0.00	3.52	3.52
Communciation Tower #5_CTF1	22	0	0	0	120	HHDT	0	1.833333333	0.00	1.17	1.17
Communciation Tower #5_CTF2	66	0	0	0	120	HHDT	0	5.5	0.00	3.52	3.52
Communciation Tower #5_CTF3	23	0	0	0	120	HHDT	0	1.916666667	0.00	1.23	1.23
Communciation Tower #5_CTF4	21	0	0	0	120	HHDT	0	1.75	0.00	1.12	1.12
Communciation Tower #7_FD	86	0	0	0	120	HHDT	0	7.166666667	0.00	4.59	4.59
Communciation Tower #7_CTF1	43	0	0	0	120	HHDT	0	3.583333333	0.00	2.29	2.29
Communciation Tower #7_CTF2	66	0	0	0	120	HHDT	0	5.5	0.00	3.52	3.52
Communciation Tower #7_CTF3	86	0	0	0	120	HHDT	0	7.166666667	0.00	4.59	4.59
Communciation Tower #7_CTF4	65	0	0	0	120	HHDT	0	5.416666667	0.00	3.47	3.47
Communciation Tower #7_CTF5	23	0	0	0	120	HHDT	0	1.916666667	0.00	1.23	1.23
Communciation Tower #7_CTF6	20	0	0	0	120	HHDT	0	1.666666667	0.00	1.07	1.07
Communciation Tower #9_FD	86	0	0	0	120	HHDT	0	7.166666667	0.00	4.59	4.59
Communciation Tower #9_CTF1	43	0	0	0	120	HHDT	0	3.583333333	0.00	2.29	2.29
Communciation Tower #9_CTF2	66	0	0	0	120	HHDT	0	5.5	0.00	3.52	3.52
Communciation Tower #9_CTF3	86	0	0	0	120	HHDT	0	7.166666667	0.00	4.59	4.59
Communciation Tower #9_CTF4	65	0	0	0	120	HHDT	0	5.416666667	0.00	3.47	3.47
Communciation Tower #9_CTF5	23	0	0	0	120	HHDT	0	1.916666667	0.00	1.23	1.23
Communciation Tower #9_CTF6	20	0	0	0	120	HHDT	0	1.666666667	0.00	1.07	1.07
Communciation Tower #11_FD	66	0	0	0	120	HHDT	0	5.5	0.00	3.52	3.52
Communciation Tower #11_CTF1	22	0	0	0	120	HHDT	0	1.833333333	0.00	1.17	1.17
Communciation Tower #11_CTF2	66	0	0	0	120	HHDT	0	5.5	0.00	3.52	3.52
Communciation Tower #11_CTF3	23	0	0	0	120	HHDT	0	1.916666667	0.00	1.23	1.23
Communciation Tower #11_CTF4	21	0	0	0	120	HHDT	0	1.75	0.00	1.12	1.12
Communciation Tower #13_FD	64	0	0	0	120	HHDT	0	5.333333333	0.00	3.41	3.41
Communciation Tower #13_CTF1	42	0	0	0	120	HHDT	0	3.5	0.00	2.24	2.24
Communciation Tower #13_CTF2	64	0	0	0	120	HHDT	0	5.333333333	0.00	3.41	3.41
Communciation Tower #13_CTF3	21	0	0	0	120	HHDT	0	1.75	0.00	1.12	1.12
Communciation Tower #13_CTF4	22	0	0	0	120	HHDT	0	1.833333333	0.00	1.17	1.17

Phase	Days	Truck Trips per Day (In/Out)	Total Truck Trips	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Communciation Tower #15_FD	66	0	0	0	120	HHDT	0	5.5	0.00	3.52	3.52
Communciation Tower #15_CTF1	23	0	0	0	120	HHDT	0	1.916666667	0.00	1.23	1.23
Communciation Tower #15_CTF2	66	0	0	0	120	HHDT	0	5.5	0.00	3.52	3.52
Communciation Tower #15_CTF3	22	0	0	0	120	HHDT	0	1.833333333	0.00	1.17	1.17
LMF Support Structures_FD	326	12	3912	0	120	HHDT	469440	27.16666667	69767.44	17.39	69784.83
LMF Support Structures_CTF1	130	0	0	0	120	HHDT	0	10.83333333	0.00	6.93	6.93
LMF Support Structures_CTF2	261	0	0	0	120	HHDT	0	21.75	0.00	13.92	13.92
LMF Support Structures_CTF3	326	0	0	0	120	HHDT	0	27.16666667	0.00	17.39	17.39
LMF Support Structures_CTF4	152	0	0	0	120	HHDT	0	12.66666667	0.00	8.11	8.11
LMF Support Structures_CTF5	142	0	0	0	120	HHDT	0	11.83333333	0.00	7.57	7.57
LMF Support Structures_CTF6	66	0	0	0	120	HHDT	0	5.5	0.00	3.52	3.52
LMF Support Structures_CTF7	66	0	0	0	120	HHDT	0	5.5	0.00	3.52	3.52
LMF Support Structures_CTF8	110	0	0	0	120	HHDT	0	9.166666667	0.00	5.87	5.87
Hobart Yard Improvements_FD	861	8	6888	0	120	HHDT	826560	71.75	122842.06	45.92	122887.98
Hobart Yard Improvements_CTF1	77	0	0	0	120	HHDT	0	6.416666667	0.00	4.11	4.11
Hobart Yard Improvements_CTF2	103	0	0	0	120	HHDT	0	8.583333333	0.00	5.49	5.49
Hobart Yard Improvements_CTF3	155	0	0	0	120	HHDT	0	12.91666667	0.00	8.27	8.27
Hobart Yard Improvements_CTF4	861	0	0	0	120	HHDT	0	71.75	0.00	45.92	45.92
Hobart Yard Improvements_CTF5	50	0	0	0	120	HHDT	0	4.166666667	0.00	2.67	2.67
Hobart Yard Improvements_CTF6	262	0	0	0	120	HHDT	0	21.83333333	0.00	13.97	13.97
Hobart Yard Improvements_CTF7	235	0	0	0	120	HHDT	0	19.58333333	0.00	12.53	12.53
Hobart Yard Improvements_CTF8	208	0	0	0	120	HHDT	0	17.33333333	0.00	11.09	11.09
Hobart Yard Improvements_CTF9	392	0	0	0	120	HHDT	0	32.66666667	0.00	20.91	20.91
Hobart Yard Improvements_CTF10	103	0	0	0	120	HHDT	0	8.583333333	0.00	5.49	5.49
Hobart Yard Improvements_CTF11	77	0	0	0	120	HHDT	0	6.416666667	0.00	4.11	4.11
Hobart Yard Improvements_CTF12	208	0	0	0	120	HHDT	0	17.33333333	0.00	11.09	11.09
Commerce Yard Improvements_Utility Relocation	367	0	0	0	120	HHDT	0	30.58333333	0.00	19.57	19.57
Commerce Yard Improvements_CTF1	53	0	0	0	120	HHDT	0	4.416666667	0.00	2.83	2.83
Commerce Yard Improvements_CTF2	158	0	0	0	120	HHDT	0	13.16666667	0.00	8.43	8.43
Commerce Yard Improvements_CTF3	236	0	0	0	120	HHDT	0	19.66666667	0.00	12.59	12.59
Commerce Yard Improvements_CTF4	314	0	0	0	120	HHDT	0	26.16666667	0.00	16.75	16.75
Commerce Yard Improvements_CTF5	367	0	0	0	120	HHDT	0	30.58333333	0.00	19.57	19.57
Commerce Yard Improvements_CTF6	314	0	0	0	120	HHDT	0	26.16666667	0.00	16.75	16.75
Commerce Yard Improvements_CTF7	105	0	0	0	120	HHDT	0	8.75	0.00	5.60	5.60
15th St HSR LMF_Utility Relocation	262	0	0	0	120	HHDT	0	21.83333333	0.00	13.97	13.97
15th St HSR LMF_Site Preparation	195	46	8970	0	120	HHDT	1076400	16.25	159972.90	10.40	159983.30
15th St HSR LMF_Track, Tie and Ballast Installation	521	0	0	0	120	HHDT	0	43.41666667	0.00	27.79	27.79
15th St HSR LMF_CTF1	262	0	0	0	120	HHDT	0	21.83333333	0.00	13.97	13.97
15th St HSR LMF_CTF2	652	0	0	0	120	HHDT	0	54.33333333	0.00	34.77	34.77
15th St HSR LMF_CTF3	912	0	0	0	120	HHDT	0	76	0.00	48.64	48.64
15th St HSR LMF_CTF4	912	0	0	0	120	HHDT	0	76	0.00	48.64	48.64
15th St HSR LMF_CTF5	390	0	0	0	120	HHDT	0	32.5	0.00	20.80	20.80
15th St HSR LMF_CTF6	175	0	0	0	120	HHDT	0	14.58333333	0.00	9.33	9.33
15th St HSR LMF_CTF7	131	0	0	0	120	HHDT	0	10.91666667	0.00	6.99	6.99
15th St HSR LMF_CTF8	196	0	0	0	120	HHDT	0	16.33333333	0.00	10.45	10.45
15th St HSR LMF_CTF9	132	0	0	0	120	HHDT	0	11	0.00	7.04	7.04
15th St HSR LMF_CTF10	260	0	0	0	120	HHDT	0	21.66666667	0.00	13.87	13.87
15th St HSR LMF_CTF11	175	0	0	0	120	HHDT	0	14.58333333	0.00	9.33	9.33
15th St HSR LMF_CTF12	262	0	0	0	120	HHDT	0	21.83333333	0.00	13.97	13.97
15th St HSR LMF_CTF13	86	0	0	0	120	HHDT	0	7.166666667	0.00	4.59	4.59
15th St HSR LMF_CTF14	42	0	0	0	120	HHDT	0	3.5	0.00	2.24	2.24
Commerce Metrolink Stn_FD	261	2	522	0	120	HHDT	62640	21.75	9309.46	13.92	9323.38

Phase	Days	Truck Trips per Day (In/Out)	Total Truck Trips	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Commerce Metrolink Stn_CTF1	64	0	0	0	120	HHDT	0	5.333333333	0.00	3.41	3.41
Commerce Metrolink Stn_CTF2	261	0	0	0	120	HHDT	0	21.75	0.00	13.92	13.92
Commerce Metrolink Stn_CTF3	65	0	0	0	120	HHDT	0	5.416666667	0.00	3.47	3.47
Commerce Metrolink Stn_CTF4	66	0	0	0	120	HHDT	0	5.5	0.00	3.52	3.52
Commerce Metrolink Stn_CTF5	44	0	0	0	120	HHDT	0	3.666666667	0.00	2.35	2.35
Norwalk-SFS Metrolink Stn_FD	651	8	5208	0	120	HHDT	624960	54.25	92880.58	34.72	92915.30
Norwalk-SFS Metrolink Stn_CTF1	65	0	0	0	120	HHDT	0	5.416666667	0.00	3.47	3.47
Norwalk-SFS Metrolink Stn_CTF2	390	0	0	0	120	HHDT	0	32.5	0.00	20.80	20.80
Norwalk-SFS Metrolink Stn_CTF3	42	0	0	0	120	HHDT	0	3.5	0.00	2.24	2.24
Norwalk-SFS Metrolink Stn_CTF4	22	0	0	0	120	HHDT	0	1.833333333	0.00	1.17	1.17
Buena Park Metrolink Stn_FD	325	4	1300	0	120	HHDT	156000	27.08333333	23184.48	17.33	23201.81
Buena Park Metrolink Stn_CTF1	65	0	0	0	120	HHDT	0	5.416666667	0.00	3.47	3.47
Buena Park Metrolink Stn_CTF2	325	0	0	0	120	HHDT	0	27.08333333	0.00	17.33	17.33
Buena Park Metrolink Stn_CTF3	66	0	0	0	120	HHDT	0	5.5	0.00	3.52	3.52
Buena Park Metrolink Stn_CTF4	88	0	0	0	120	HHDT	0	7.333333333	0.00	4.69	4.69
Buena Park Metrolink Stn_CTF5	23	0	0	0	120	HHDT	0	1.916666667	0.00	1.23	1.23
ARTIC Station_FD	783	2	1566	0	120	HHDT	187920	65.25	27928.38	41.76	27970.14
ARTIC Station_CTF1	151	0	0	0	120	HHDT	0	12.58333333	0.00	8.05	8.05
ARTIC Station_CTF2	174	0	0	0	120	HHDT	0	14.5	0.00	9.28	9.28
ARTIC Station_CTF3	413	0	0	0	120	HHDT	0	34.41666667	0.00	22.03	22.03
ARTIC Station_CTF4	783	0	0	0	120	HHDT	0	65.25	0.00	41.76	41.76
ARTIC Station_CTF5	107	0	0	0	120	HHDT	0	8.916666667	0.00	5.71	5.71
ARTIC Station_CTF6	152	0	0	0	120	HHDT	0	12.66666667	0.00	8.11	8.11
ARTIC Station_CTF7	368	0	0	0	120	HHDT	0	30.66666667	0.00	19.63	19.63
ARTIC Station_CTF8	43	0	0	0	120	HHDT	0	3.583333333	0.00	2.29	2.29
ARTIC Station_CTF9	66	0	0	0	120	HHDT	0	5.5	0.00	3.52	3.52
ARTIC Station_CTF10	20	0	0	0	120	HHDT	0	1.666666667	0.00	1.07	1.07
ARTIC Station_CTF11	151	0	0	0	120	HHDT	0	12.58333333	0.00	8.05	8.05
Fullerton Metrolink Stn_FD	283	2	566	0	120	HHDT	67920	23.58333333	10094.16	15.09	10109.26
Fullerton Metrolink Stn_CTF1	87	0	0	0	120	HHDT	0	7.25	0.00	4.64	4.64
Fullerton Metrolink Stn_CTF2	64	0	0	0	120	HHDT	0	5.333333333	0.00	3.41	3.41
Fullerton Metrolink Stn_CTF3	44	0	0	0	120	HHDT	0	3.666666667	0.00	2.35	2.35
Fullerton Metrolink Stn_CTF4	110	0	0	0	120	HHDT	0	9.166666667	0.00	5.87	5.87
Fullerton Metrolink Stn_CTF5	65	0	0	0	120	HHDT	0	5.416666667	0.00	3.47	3.47
Ballast Delivery_OutsideCA_2033	0	0	0	0	120	HHDT	0	0	0.00	0.00	0.00
Ballast Delivery_OutsideCA_2034	0	0	0	0	120	HHDT	0	0	0.00	0.00	0.00
Ballast Delivery_OutsideCA_2035	0	0	0	0	120	HHDT	0	0	0.00	0.00	0.00
Ballast Delivery_OutsideCA_2036	0	0	0	0	120	HHDT	0	0	0.00	0.00	0.00
Ballast Delivery_OutsideCA_2037	0	0	0	0	120	HHDT	0	0	0.00	0.00	0.00
Ballast Delivery_MDAB_2033	0	0	0	0	120	HHDT	0	0	0.00	0.00	0.00
Ballast Delivery_MDAB_2034	0	0	0	0	120	HHDT	0	0	0.00	0.00	0.00
Ballast Delivery_MDAB_2035	0	0	0	0	120	HHDT	0	0	0.00	0.00	0.00
Ballast Delivery_MDAB_2036	0	0	0	0	120	HHDT	0	0	0.00	0.00	0.00
Ballast Delivery_MDAB_2037	0	0	0	0	120	HHDT	0	0	0.00	0.00	0.00
Ballast Delivery_SCAB_2033	0	0	0	0	120	HHDT	0	0	0.00	0.00	0.00
Ballast Delivery_SCAB_2034	0	0	0	0	120	HHDT	0	0	0.00	0.00	0.00
Ballast Delivery_SCAB_2035	0	0	0	0	120	HHDT	0	0	0.00	0.00	0.00
Ballast Delivery_SCAB_2036	0	0	0	0	120	HHDT	0	0	0.00	0.00	0.00
Ballast Delivery_SCAB_2037	0	0	0	0	120	HHDT	0	0	0.00	0.00	0.00
Ballast Dumping_SCAB_2033	0	0	0	0	120	HHDT	0	0	0.00	0.00	0.00
Ballast Dumping_SCAB_2034	0	0	0	0	120	HHDT	0	0	0.00	0.00	0.00
Ballast Dumping_SCAB_2035	0	0	0	0	120	HHDT	0	0	0.00	0.00	0.00
Ballast Dumping_SCAB_2036	0	0	0	0	120	HHDT	0	0	0.00	0.00	0.00
Ballast Dumping_SCAB_2037	0	0	0	0	120	HHDT	0	0	0.00	0.00	0.00

Phase	Days	Truck Trips per Day (In/Out)	Total Truck Trips	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
						Total VMT:	**4,535,280.00**		**674026.27**	**6357.49**	**680,383.76**
						Total Idle-Hours:		**9,934**			

1. CARB, EMFAC2021 (SCAQMD; HHDT; Annual; CY 2031; Aggregate MY; Aggregate Speed,DSL)
2. Department of Energy, Fact #861, 2015 Idle Fuel Consumption for Selected Gasoline and Diesel Vehicles, February 23, 2015.
https://www.energy.gov/eere/vehicles/fact-861-february-23-2015-idle-fuel-consumption-selected-gasoline-and-diesel-vehicles

Vendor Trucks

Onroad Travel Consumption	Value
EMFAC2021 Diesel Fuel Consumption Factor (gal/mi):[1]	0.139
Total VMT (mi):	6,080,840
Total diesel gallons	**843,151**
Idling Consumption	**Value**
Idling Fuel Consumption Factor (gal/hr):[2]	0.6400
Total Idle-Hours per Year:	23,449
Total diesel gallons	**15,007**

Total diesel gallons: 858,158

Phase	Days/year	Truck Trips per Day (In/Out)	Onsite Trip Length (Miles)	Offsite Trip Length (Miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
At-Grade Rail-Ballasted Track-2033_Utilities	260	4	0.1	15	HHDT/MHDT	15704	86.66666667	2177.468934	55.46666667	2232.9356
At-Grade Rail-Ballasted Track-2033_Track Install	313	0	0	10.2	HHDT/MHDT	0	0	0	0	0
At-Grade Rail-Ballasted Track-2034_Utilities	260	4	0.1	15	HHDT/MHDT	15704	86.66666667	2177.468934	55.46666667	2232.9356
At-Grade Rail-Ballasted Track-2034_Track Install	312	0	0	10.2	HHDT/MHDT	0	0	0	0	0
At-Grade Rail-Ballasted Track-2035_Utilities	66	4	0.1	15	HHDT/MHDT	3986.4	22	552.7421139	14.08	566.8221139
At-Grade Rail-Ballasted Track-2035_Track Install	79	0	0	10.2	HHDT/MHDT	0	0	0	0	0
At-Grade Rail-Ballasted Track-2036_Utilities	130	4	0.1	15	HHDT/MHDT	7852	43.33333333	1088.734467	27.73333333	1116.4678
At-Grade Rail-Ballasted Track-2036_Track Install	156	0	0	10.2	HHDT/MHDT	0	0	0	0	0
At-Grade Rail-Ballasted Track-2037_Utilities	86	4	0.1	15	HHDT/MHDT	5194.4	28.66666667	720.2397242	18.34666667	738.5863909
At-Grade Rail-Ballasted Track-2037_Track Install	103	0	0	10.2	HHDT/MHDT	0	0	0	0	0
South of Fullerton-Ballasted Track_FD	197	4	0.1	15	HHDT/MHDT	11898.8	65.66666667	1649.851461	42.02666667	1691.878128
Rail Direct Fixation_CTF1	130	8	0.1	3	HHDT/MHDT	3224	86.66666667	447.030046	55.46666667	502.4967127
Rail Direct Fixation_CTF2	261	8	0.1	3	HHDT/MHDT	6472.8	174	897.4987846	111.36	1008.858785
Rail Direct Fixation_CTF3	262	8	0.1	3	HHDT/MHDT	6497.6	174.6666667	900.9374773	111.7866667	1012.724144
Commerce Viaduct_FD	652	20	0.1	30	HHDT/MHDT	392504	1086.666667	54423.41227	695.4666667	55118.87894
Commerce Viaduct_Box Girders	695	12	0.1	40	HHDT/MHDT	334434	695	46371.60248	444.8	46816.40248
Commerce Viaduct_CTF1	217	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commerce Viaduct_CTF2	652	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commerce Viaduct_CTF3	261	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commerce Viaduct_CTF4	107	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commerce Viaduct_CTF5	695	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commerce Viaduct_CTF6	436	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commerce Viaduct_CTF7	522	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Norwalk-SFS Viaduct_FD	782	20	0.1	30	HHDT/MHDT	470764	1303.333333	65274.70613	834.1333333	66108.83947
Norwalk-SFS Viaduct_Box Girders	653	12	0.1	40	HHDT/MHDT	314223.6	653	43569.28981	417.92	43987.20981
Norwalk-SFS Viaduct_CTF1	782	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Norwalk-SFS Viaduct_CTF2	261	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Norwalk-SFS Viaduct_CTF3	107	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Norwalk-SFS Viaduct_CTF4	522	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Norwalk-SFS Viaduct_CTF5	653	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Norwalk-SFS Viaduct_CTF6	261	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Fullerton Trench_FD	912	10	0.1	25	HHDT/MHDT	228912	760	31740.24252	486.4	32226.64252
Fullerton Trench_CTF1	653	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Fullerton Trench_CTF2	912	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Fullerton Trench_CTF3	175	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Fullerton Trench_CTF4	131	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Fullerton Trench_CTF5	717	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Fullerton Trench_CTF6	132	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Fullerton Trench_CTF7	260	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Fullerton Trench_CTF8	175	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Fullerton Trench_CTF9	261	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Fullerton Trench_CTF10	86	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Fullerton Trench_CTF11	42	0	0	10.2	HHDT/MHDT	0	0	0	0	0
I-10-L1 Grade Separation_FD	155	0	0	10.2	HHDT/MHDT	0	0	0	0	0
South Downey Rd-L1 Grade Separation_FD	326	0	0	10.2	HHDT/MHDT	0	0	0	0	0
South Downey Rd-L1 Grade Separation_CTF1	326	0	0	10.2	HHDT/MHDT	0	0	0	0	0
South Downey Rd-L1 Grade Separation_CTF2	240	0	0	10.2	HHDT/MHDT	0	0	0	0	0
South Downey Rd-L1 Grade Separation_CTF3	390	0	0	10.2	HHDT/MHDT	0	0	0	0	0
I-710-L1 Grade Separation_FD	53	0	0	10.2	HHDT/MHDT	0	0	0	0	0
I-5-L1 Grade Separation_FD	52	0	0	10.2	HHDT/MHDT	0	0	0	0	0

Phase	Days/year	Truck Trips per Day (In/Out)	Onsite Trip Length (Miles)	Offsite Trip Length (Miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Greenwood Ave-L1 Grade Separation_FD	53	0	0	20	HHDT/MHDT	0	0	0	0	0
Paramount Blvd-L1 Grade Separation_FD	51	20	0.1	20	HHDT/MHDT	20502	85	2842.745038	54.4	2897.145038
SR-91-L1 Grade Separation_FD	42	0	0	20	HHDT/MHDT	0	0	0	0	0
Lincoln Ave-L1 Grade Separation_FD	44	10	0.1	20	HHDT/MHDT	8844	36.66666667	1226.282173	23.46666667	1249.74884
Eastern Ave-L2 Grade Separation_FD	457	20	0.1	20	HHDT/MHDT	183714	761.6666667	25473.22515	487.4666667	25960.69181
Eastern Ave-L2 Grade Separation_CTF1	108	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Eastern Ave-L2 Grade Separation_CTF2	457	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Eastern Ave-L2 Grade Separation_CTF3	43	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Eastern Ave-L2 Grade Separation_CTF4	108	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Eastern Ave-L2 Grade Separation_CTF5	131	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Eastern Ave-L2 Grade Separation_CTF6	195	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Eastern Ave-L2 Grade Separation_CTF7	261	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Eastern Ave-L2 Grade Separation_CTF8	45	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Eastern Ave-L2 Grade Separation_CTF9	85	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Passons Blvd-L2 Grade Separation_FD	326	16	0.1	20	HHDT/MHDT	104841.6	434.6666667	14537.01776	278.1866667	14815.20443
Passons Blvd-L2 Grade Separation_CTF1	42	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Passons Blvd-L2 Grade Separation_CTF2	87	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Passons Blvd-L2 Grade Separation_CTF3	130	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Passons Blvd-L2 Grade Separation_CTF4	326	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Passons Blvd-L2 Grade Separation_CTF5	65	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Passons Blvd-L2 Grade Separation_CTF6	65	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Passons Blvd-L2 Grade Separation_CTF7	87	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Sante Fe Springs-L2 Grade Separation_FD	326	10	0.1	20	HHDT/MHDT	65526	271.6666667	9085.636102	173.8666667	9259.502769
Sante Fe Springs-L2 Grade Separation_CTF1	87	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Sante Fe Springs-L2 Grade Separation_CTF2	326	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Sante Fe Springs-L2 Grade Separation_CTF3	110	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Sante Fe Springs-L2 Grade Separation_CTF4	132	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Sante Fe Springs-L2 Grade Separation_CTF5	43	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Sante Fe Springs-L2 Grade Separation_CTF6	87	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Sante Fe Springs-L2 Grade Separation_CTF7	107	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Telegraph Road-L2 Grade Separation_FD	390	10	0.1	20	HHDT/MHDT	78390	325	10869.31926	208	11077.31926
Telegraph Road-L2 Grade Separation_CTF1	64	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Telegraph Road-L2 Grade Separation_CTF2	85	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Telegraph Road-L2 Grade Separation_CTF3	390	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Telegraph Road-L2 Grade Separation_CTF4	43	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Telegraph Road-L2 Grade Separation_CTF5	88	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Telegraph Road-L2 Grade Separation_CTF6	217	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Valley View Ave-L2 Grade Separation_FD	326	16	0.1	20	HHDT/MHDT	104841.6	434.6666667	14537.01776	278.1866667	14815.20443
Valley View Ave-L2 Grade Separation_CTF1	44	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Valley View Ave-L2 Grade Separation_CTF2	326	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Valley View Ave-L2 Grade Separation_CTF3	43	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Valley View Ave-L2 Grade Separation_CTF4	66	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Valley View Ave-L2 Grade Separation_CTF5	64	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Valley View Ave-L2 Grade Separation_CTF6	107	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Valley View Ave-L2 Grade Separation_CTF7	151	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Valley View Ave-L2 Grade Separation_CTF8	216	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Valley View Ave-L2 Grade Separation_CTF9	43	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Valley View Ave-L2 Grade Separation_CTF10	66	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Beach Blvd-L2 Grade Separation_FD	261	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Beach Blvd-L2 Grade Separation_CTF1	43	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Beach Blvd-L2 Grade Separation_CTF2	87	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Beach Blvd-L2 Grade Separation_CTF3	109	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Beach Blvd-L2 Grade Separation_CTF4	261	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Beach Blvd-L2 Grade Separation_CTF5	109	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Beach Blvd-L2 Grade Separation_CTF6	109	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Gilbert St-L2 Grade Separation_FD	390	10	0.1	20	HHDT/MHDT	78390	325	10869.31926	208	11077.31926
Gilbert St-L2 Grade Separation_CTF1	43	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Gilbert St-L2 Grade Separation_CTF2	86	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Gilbert St-L2 Grade Separation_CTF3	130	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Gilbert St-L2 Grade Separation_CTF4	390	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Gilbert St-L2 Grade Separation_CTF5	216	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Gilbert St-L2 Grade Separation_CTF6	132	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Gilbert St-L2 Grade Separation_CTF7	218	0	0	10.2	HHDT/MHDT	0	0	0	0	0

Phase	Days/year	Truck Trips per Day (In/Out)	Onsite Trip Length (Miles)	Offsite Trip Length (Miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Euclid St-L2 Grade Separation_FD	391	10	0.1	20	HHDT/MHDT	78591	325.8333333	10897.18931	208.5333333	11105.72265
Euclid St-L2 Grade Separation_CTF1	262	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Euclid St-L2 Grade Separation_CTF2	283	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Euclid St-L2 Grade Separation_CTF3	326	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Euclid St-L2 Grade Separation_CTF4	391	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Euclid St-L2 Grade Separation_CTF5	43	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Euclid St-L2 Grade Separation_CTF6	88	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Euclid St-L2 Grade Separation_CTF7	43	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Euclid St-L2 Grade Separation_CTF8	154	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Lemon St-L2 Grade Separation_FD	650	16	0.1	20	HHDT/MHDT	209040	866.6666667	28984.85137	554.6666667	29539.51804
Lemon St-L2 Grade Separation_CTF1	238	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Lemon St-L2 Grade Separation_CTF2	650	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Lemon St-L2 Grade Separation_CTF3	79	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Lemon St-L2 Grade Separation_CTF4	261	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Lemon St-L2 Grade Separation_CTF5	109	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Lemon St-L2 Grade Separation_CTF6	132	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Lemon St-L2 Grade Separation_CTF7	305	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Atlantic Blvd-L3 Grade Separation_FD	328	20	0.1	20	HHDT/MHDT	131856	546.6666667	18282.7524	349.8666667	18632.61907
Atlantic Blvd-L3 Grade Separation_CTF1	132	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Atlantic Blvd-L3 Grade Separation_CTF2	154	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Atlantic Blvd-L3 Grade Separation_CTF3	219	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Atlantic Blvd-L3 Grade Separation_CTF4	328	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Atlantic Blvd-L3 Grade Separation_CTF5	66	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Atlantic Blvd-L3 Grade Separation_CTF6	86	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Atlantic Blvd-L3 Grade Separation_CTF7	131	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Atlantic Blvd-L3 Grade Separation_CTF8	174	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Atlantic Blvd-L3 Grade Separation_CTF9	261	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Rosemead Blvd-L3 Grade Separation_FD	521	12	0.1	20	HHDT/MHDT	125665.2	521	17424.35488	333.44	17757.79488
Rosemead Blvd-L3 Grade Separation_CTF1	108	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Rosemead Blvd-L3 Grade Separation_CTF2	521	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Rosemead Blvd-L3 Grade Separation_CTF3	63	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Rosemead Blvd-L3 Grade Separation_CTF4	108	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Rosemead Blvd-L3 Grade Separation_CTF5	433	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Rosemead Blvd-L3 Grade Separation_CTF6	66	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Rosemead Blvd-L3 Grade Separation_CTF7	86	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Rosemead Blvd-L3 Grade Separation_CTF8	413	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Rosemead Blvd-L3 Grade Separation_CTF9	45	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Rosemead Blvd-L3 Grade Separation_CTF10	260	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Rosemead Blvd-L3 Grade Separation_CTF11	109	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Rosemead Blvd-L3 Grade Separation_CTF12	22	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Rosemead Blvd-L3 Grade Separation_CTF13	109	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Rosemead Blvd-L3 Grade Separation_CTF14	43	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Rosemead Blvd-L3 Grade Separation_CTF15	86	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Rosemead Blvd-L3 Grade Separation_CTF16	66	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Slauson Ave-L3 Grade Separation_FD	347	6	0.1	20	HHDT/MHDT	41848.2	173.5	5802.544284	111.04	5913.584284
Slauson Ave-L3 Grade Separation_CTF1	109	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Slauson Ave-L3 Grade Separation_CTF2	347	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Slauson Ave-L3 Grade Separation_CTF3	65	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Slauson Ave-L3 Grade Separation_CTF4	87	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Slauson Ave-L3 Grade Separation_CTF5	109	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Slauson Ave-L3 Grade Separation_CTF6	109	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Slauson Ave-L3 Grade Separation_CTF7	173	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Carmenita Rd-L3 Grade Separation_FD	521	10	0.1	20	HHDT/MHDT	104721	434.1666667	14520.29573	277.8666667	14798.1624
Carmenita Rd-L3 Grade Separation_CTF1	109	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Carmenita Rd-L3 Grade Separation_CTF2	196	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Carmenita Rd-L3 Grade Separation_CTF3	218	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Carmenita Rd-L3 Grade Separation_CTF4	521	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Carmenita Rd-L3 Grade Separation_CTF5	195	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Carmenita Rd-L3 Grade Separation_CTF6	304	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Carmenita Rd-L3 Grade Separation_CTF7	66	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Carmenita Rd-L3 Grade Separation_CTF8	87	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Carmenita Rd-L3 Grade Separation_CTF9	368	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Carmenita Rd-L3 Grade Separation_CTF10	108	0	0	10.2	HHDT/MHDT	0	0	0	0	0

Phase	Days/year	Truck Trips per Day (In/Out)	Onsite Trip Length (Miles)	Offsite Trip Length (Miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Carmenita Rd-L3 Grade Separation_CTF11	195	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Alondra Blvd-L3 Grade Separation_FD	652	16	0.1	20	HHDT/MHDT	209683.2	869.3333333	29074.03553	556.3733333	29630.40886
Alondra Blvd-L3 Grade Separation_CTF1	153	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Alondra Blvd-L3 Grade Separation_CTF2	217	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Alondra Blvd-L3 Grade Separation_CTF3	261	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Alondra Blvd-L3 Grade Separation_CTF4	327	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Alondra Blvd-L3 Grade Separation_CTF5	587	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Alondra Blvd-L3 Grade Separation_CTF6	652	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Alondra Blvd-L3 Grade Separation_CTF7	44	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Alondra Blvd-L3 Grade Separation_CTF8	174	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Alondra Blvd-L3 Grade Separation_CTF9	217	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Alondra Blvd-L3 Grade Separation_CTF10	478	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Alondra Blvd-L3 Grade Separation_CTF11	565	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Alondra Blvd-L3 Grade Separation_CTF12	43	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Dale St-L3 Grade Separation_FD	326	6	0.1	20	HHDT/MHDT	39315.6	163	5451.381661	104.32	5555.701661
Dale St-L3 Grade Separation_CTF1	21	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Dale St-L3 Grade Separation_CTF2	43	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Dale St-L3 Grade Separation_CTF3	86	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Dale St-L3 Grade Separation_CTF4	109	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Dale St-L3 Grade Separation_CTF5	174	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Dale St-L3 Grade Separation_CTF6	218	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Dale St-L3 Grade Separation_CTF7	217	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Dale St-L3 Grade Separation_CTF8	110	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Dale St-L3 Grade Separation_CTF9	77	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commonwealth Ave-L3 Grade Separation_FD	522	14	0.1	20	HHDT/MHDT	146890.8	609	20367.4321	389.76	20757.1921
Commonwealth Ave-L3 Grade Separation_CTF1	132	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commonwealth Ave-L3 Grade Separation_CTF2	261	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commonwealth Ave-L3 Grade Separation_CTF3	522	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commonwealth Ave-L3 Grade Separation_CTF4	260	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commonwealth Ave-L3 Grade Separation_CTF5	152	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commonwealth Ave-L3 Grade Separation_CTF6	43	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commonwealth Ave-L3 Grade Separation_CTF7	195	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commonwealth Ave-L3 Grade Separation_CTF8	86	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commonwealth Ave-L3 Grade Separation_CTF9	85	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commonwealth Ave-L3 Grade Separation_CTF10	870	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commonwealth Ave-L3 Grade Separation_CTF11	43	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Highland Ave-L3 Grade Separation_FD	651	10	0.1	20	HHDT/MHDT	130851	542.5	18143.40216	347.2	18490.60216
Highland Ave-L3 Grade Separation_CTF1	152	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Highland Ave-L3 Grade Separation_CTF2	130	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Highland Ave-L3 Grade Separation_CTF3	260	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Highland Ave-L3 Grade Separation_CTF4	651	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Highland Ave-L3 Grade Separation_CTF5	630	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Highland Ave-L3 Grade Separation_CTF6	66	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Highland Ave-L3 Grade Separation_CTF7	132	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Highland Ave-L3 Grade Separation_CTF8	154	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Highland Ave-L3 Grade Separation_CTF9	174	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Highland Ave-L3 Grade Separation_CTF10	130	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Highland Ave-L3 Grade Separation_CTF11	261	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Highland Ave-L3 Grade Separation_CTF12	217	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Highland Ave-L3 Grade Separation_CTF13	174	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Harbor Blvd-L3 Grade Separation_FD	522	20	0.1	20	HHDT/MHDT	209844	870	29096.33157	556.8	29653.13157
Harbor Blvd-L3 Grade Separation_CTF1	217	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Harbor Blvd-L3 Grade Separation_CTF2	522	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Harbor Blvd-L3 Grade Separation_CTF3	173	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Harbor Blvd-L3 Grade Separation_CTF4	217	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Harbor Blvd-L3 Grade Separation_CTF5	173	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Douglass Rd-L3 Grade Separation_FD	392	12	0.1	20	HHDT/MHDT	94550.4	392	13110.07123	250.88	13360.95123
Douglass Rd-L3 Grade Separation_CTF1	131	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Douglass Rd-L3 Grade Separation_CTF2	218	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Douglass Rd-L3 Grade Separation_CTF3	262	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Douglass Rd-L3 Grade Separation_CTF4	392	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Douglass Rd-L3 Grade Separation_CTF5	434	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Douglass Rd-L3 Grade Separation_CTF6	43	0	0	10.2	HHDT/MHDT	0	0	0	0	0

Phase	Days/year	Truck Trips per Day (In/Out)	Onsite Trip Length (Miles)	Offsite Trip Length (Miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Douglass Rd-L3 Grade Separation_CTF7	174	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Douglass Rd-L3 Grade Separation_CTF8	130	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Douglass Rd-L3 Grade Separation_CTF9	175	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Douglass Rd-L3 Grade Separation_CTF10	196	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Douglass Rd-L3 Grade Separation_CTF11	64	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Pioneer Blvd-L4 Grade Separation_FD	654	10	0.1	20	HHDT/MHDT	131454	545	18227.0123	348.8	18575.8123
Pioneer Blvd-L4 Grade Separation_CTF1	262	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Pioneer Blvd-L4 Grade Separation_CTF2	349	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Pioneer Blvd-L4 Grade Separation_CTF3	654	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Pioneer Blvd-L4 Grade Separation_CTF4	132	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Pioneer Blvd-L4 Grade Separation_CTF5	153	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Pioneer Blvd-L4 Grade Separation_CTF6	262	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Pioneer Blvd-L4 Grade Separation_CTF7	131	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Pioneer Blvd-L4 Grade Separation_CTF8	174	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Pioneer Blvd-L4 Grade Separation_CTF9	479	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Pioneer Blvd-L4 Grade Separation_CTF10	457	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Pioneer Blvd-L4 Grade Separation_CTF11	130	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Pioneer Blvd-L4 Grade Separation_CTF12	349	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Pioneer Blvd-L4 Grade Separation_CTF13	175	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Pioneer Blvd-L4 Grade Separation_CTF14	107	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Pioneer Blvd-L4 Grade Separation_CTF15	44	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Pioneer Blvd-L4 Grade Separation_CTF16	66	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Norwalk Blvd-L4 Grade Separation_FD	782	10	0.1	20	HHDT/MHDT	157182	651.6666667	21794.37863	417.0666667	22211.44529
Norwalk Blvd-L4 Grade Separation_CTF1	131	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Norwalk Blvd-L4 Grade Separation_CTF2	152	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Norwalk Blvd-L4 Grade Separation_CTF3	391	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Norwalk Blvd-L4 Grade Separation_CTF4	542	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Norwalk Blvd-L4 Grade Separation_CTF5	782	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Norwalk Blvd-L4 Grade Separation_CTF6	131	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Norwalk Blvd-L4 Grade Separation_CTF7	107	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Norwalk Blvd-L4 Grade Separation_CTF8	130	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Norwalk Blvd-L4 Grade Separation_CTF9	390	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Norwalk Blvd-L4 Grade Separation_CTF10	130	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Norwalk Blvd-L4 Grade Separation_CTF11	218	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Los Nietos Rd-L4 Grade Separation_FD	782	10	0.1	20	HHDT/MHDT	157182	651.6666667	21794.37863	417.0666667	22211.44529
Los Nietos Rd-L4 Grade Separation_CTF1	131	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Los Nietos Rd-L4 Grade Separation_CTF2	152	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Los Nietos Rd-L4 Grade Separation_CTF3	391	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Los Nietos Rd-L4 Grade Separation_CTF4	542	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Los Nietos Rd-L4 Grade Separation_CTF5	782	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Los Nietos Rd-L4 Grade Separation_CTF6	131	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Los Nietos Rd-L4 Grade Separation_CTF7	107	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Los Nietos Rd-L4 Grade Separation_CTF8	130	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Los Nietos Rd-L4 Grade Separation_CTF9	390	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Los Nietos Rd-L4 Grade Separation_CTF10	130	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Los Nietos Rd-L4 Grade Separation_CTF11	218	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Cerritos Ave-L4 Grade Separation_FD	783	20	0.1	20	HHDT/MHDT	314766	1305	43644.49735	835.2	44479.69735
Cerritos Ave-L4 Grade Separation_CTF1	130	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Cerritos Ave-L4 Grade Separation_CTF2	130	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Cerritos Ave-L4 Grade Separation_CTF3	283	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Cerritos Ave-L4 Grade Separation_CTF4	391	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Cerritos Ave-L4 Grade Separation_CTF5	500	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Cerritos Ave-L4 Grade Separation_CTF6	783	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Cerritos Ave-L4 Grade Separation_CTF7	129	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Cerritos Ave-L4 Grade Separation_CTF8	434	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Cerritos Ave-L4 Grade Separation_CTF9	129	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Cerritos Ave-L4 Grade Separation_CTF10	172	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Cerritos Ave-L4 Grade Separation_CTF11	238	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Cerritos Ave-L4 Grade Separation_CTF12	261	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Cerritos Ave-L4 Grade Separation_CTF13	196	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Cerritos Ave-L4 Grade Separation_CTF14	89	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Cerritos Ave-L4 Grade Separation_CTF15	132	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Cerritos Ave-L4 Grade Separation_CTF16	87	0	0	10.2	HHDT/MHDT	0	0	0	0	0

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Cerritos Ave-L4 Grade Separation_CTF17	218	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Cerritos Ave-L4 Grade Separation_CTF18	131	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Lewis St-L4 Grade Separation_FD	390	16	0.1	20	HHDT/MHDT	125424	520	17390.91082	332.8	17723.71082
Lewis St-L4 Grade Separation_CTF1	41	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Lewis St-L4 Grade Separation_CTF2	260	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Lewis St-L4 Grade Separation_CTF3	65	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Lewis St-L4 Grade Separation_CTF4	175	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Lewis St-L4 Grade Separation_CTF5	21	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Lewis St-L4 Grade Separation_CTF6	44	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Lewis St-L4 Grade Separation_CTF7	109	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Lewis St-L4 Grade Separation_CTF8	261	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Lewis St-L4 Grade Separation_CTF9	131	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Lewis St-L4 Grade Separation_CTF10	163	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Lewis St-L4 Grade Separation_CTF11	88	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Lewis St-L4 Grade Separation_CTF12	240	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Lewis St-L4 Grade Separation_CTF13	65	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Lewis St-L4 Grade Separation_CTF14	195	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Lewis St-L4 Grade Separation_CTF15	87	0	0	10.2	HHDT/MHDT	0	0	0	0	0
State College Blvd-L4 Grade Separation_FD	783	10	0.1	20	HHDT/MHDT	157383	652.5	21822.24868	417.6	22239.84868
State College Blvd-L4 Grade Separation_CTF1	173	0	0	10.2	HHDT/MHDT	0	0	0	0	0
State College Blvd-L4 Grade Separation_CTF2	523	0	0	10.2	HHDT/MHDT	0	0	0	0	0
State College Blvd-L4 Grade Separation_CTF3	783	0	0	10.2	HHDT/MHDT	0	0	0	0	0
State College Blvd-L4 Grade Separation_CTF4	412	0	0	10.2	HHDT/MHDT	0	0	0	0	0
State College Blvd-L4 Grade Separation_CTF5	197	0	0	10.2	HHDT/MHDT	0	0	0	0	0
State College Blvd-L4 Grade Separation_CTF6	219	0	0	10.2	HHDT/MHDT	0	0	0	0	0
State College Blvd-L4 Grade Separation_CTF7	153	0	0	10.2	HHDT/MHDT	0	0	0	0	0
State College Blvd-L4 Grade Separation_CTF8	108	0	0	10.2	HHDT/MHDT	0	0	0	0	0
State College Blvd-L4 Grade Separation_CTF9	217	0	0	10.2	HHDT/MHDT	0	0	0	0	0
State College Blvd-L4 Grade Separation_CTF10	304	0	0	10.2	HHDT/MHDT	0	0	0	0	0
State College Blvd-L4 Grade Separation_CTF11	261	0	0	10.2	HHDT/MHDT	0	0	0	0	0
State College Blvd-L4 Grade Separation_CTF12	129	0	0	10.2	HHDT/MHDT	0	0	0	0	0
State College Blvd-L4 Grade Separation_CTF13	129	0	0	10.2	HHDT/MHDT	0	0	0	0	0
State College Blvd-L4 Grade Separation_CTF14	239	0	0	10.2	HHDT/MHDT	0	0	0	0	0
State College Blvd-L4 Grade Separation_CTF15	87	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Katella Ave-L4 Grade Separation_FD	651	10	0.1	20	HHDT/MHDT	130851	542.5	18143.40216	347.2	18490.60216
Katella Ave-L4 Grade Separation_CTF1	85	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Katella Ave-L4 Grade Separation_CTF2	260	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Katella Ave-L4 Grade Separation_CTF3	390	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Katella Ave-L4 Grade Separation_CTF4	651	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Katella Ave-L4 Grade Separation_CTF5	175	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Katella Ave-L4 Grade Separation_CTF6	130	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Katella Ave-L4 Grade Separation_CTF7	195	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Katella Ave-L4 Grade Separation_CTF8	65	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Katella Ave-L4 Grade Separation_CTF9	87	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Katella Ave-L4 Grade Separation_CTF10	65	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Redondo Junction-L1 Water Crossing_FD	87	6	0.1	20	HHDT/MHDT	10492.2	43.5	1454.816578	27.84	1482.656578
Redondo Junction-L1 Water Crossing_CTF1	87	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Coyote Creek-L1Water Crossing_FD	131	4	0.1	30	HHDT/MHDT	15772.4	43.66666667	2186.95307	27.94666667	2214.899737
Coyote Creek-L1Water Crossing_CTF1	66	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Coyote Creek-L1Water Crossing_CTF2	131	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Coyote Creek-L1Water Crossing_CTF3	21	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Carbon Creek-L1 Water Crossing_FD	89	4	0.1	20	HHDT/MHDT	7155.6	29.66666667	992.1737584	18.98666667	1011.160425
Carbon Creek-L1 Water Crossing_CTF1	89	0	0	10.2	HHDT/MHDT	0	0	0	0	0
San Gabriel River-L2 Water Crossing_FD	457	4	0.1	20	HHDT/MHDT	36742.8	152.3333333	5094.645029	97.49333333	5192.138362
San Gabriel River-L2 Water Crossing_CTF1	65	0	0	10.2	HHDT/MHDT	0	0	0	0	0
San Gabriel River-L2 Water Crossing_CTF2	87	0	0	10.2	HHDT/MHDT	0	0	0	0	0
San Gabriel River-L2 Water Crossing_CTF3	108	0	0	10.2	HHDT/MHDT	0	0	0	0	0
San Gabriel River-L2 Water Crossing_CTF4	152	0	0	10.2	HHDT/MHDT	0	0	0	0	0
San Gabriel River-L2 Water Crossing_CTF5	347	0	0	10.2	HHDT/MHDT	0	0	0	0	0
San Gabriel River-L2 Water Crossing_CTF6	435	0	0	10.2	HHDT/MHDT	0	0	0	0	0
San Gabriel River-L2 Water Crossing_CTF7	457	0	0	10.2	HHDT/MHDT	0	0	0	0	0
San Gabriel River-L2 Water Crossing_CTF8	110	0	0	10.2	HHDT/MHDT	0	0	0	0	0
San Gabriel River-L2 Water Crossing_CTF9	175	0	0	10.2	HHDT/MHDT	0	0	0	0	0

Phase	Days/year	Truck Trips per Day (In/Out)	Onsite Trip Length (Miles)	Offsite Trip Length (Miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Rio Hondo SG-L3 Water Crossing_FD	325	10	0.1	35	HHDT/MHDT	114075	270.8333333	15817.29296	173.3333333	15990.62629
Rio Hondo SG-L3 Water Crossing_CTF1	150	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Rio Hondo SG-L3 Water Crossing_CTF2	216	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Rio Hondo SG-L3 Water Crossing_CTF3	325	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Rio Hondo River-L3 Water Crossing_FD	325	4	0.1	20	HHDT/MHDT	26130	108.3333333	3623.106421	69.33333333	3692.439754
Rio Hondo River-L3 Water Crossing_CTF1	150	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Rio Hondo River-L3 Water Crossing_CTF2	325	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Rio Hondo River-L3 Water Crossing_CTF3	65	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Rio Hondo River-L3 Water Crossing_CTF4	86	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Rio Hondo River-L3 Water Crossing_CTF5	108	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Rio Hondo River-L3 Water Crossing_CTF6	173	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Coyote Creek-N Fork-L3 Water Crossing_FD	260	4	0.1	30	HHDT/MHDT	31304	86.66666667	4340.517543	55.46666667	4395.98421
Coyote Creek-N Fork-L3 Water Crossing_CTF1	85	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Coyote Creek-N Fork-L3 Water Crossing_CTF2	108	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Coyote Creek-N Fork-L3 Water Crossing_CTF3	260	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Coyote Creek-N Fork-L3 Water Crossing_CTF4	455	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Coyote Creek-N Fork-L3 Water Crossing_CTF5	63	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Coyote Creek-N Fork-L3 Water Crossing_CTF6	173	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Coyote Creek-N Fork-L3 Water Crossing_CTF7	218	0	0	10.2	HHDT/MHDT	0	0	0	0	0
La Mirada Creek-L3 Water Crossing_FD	260	6	0.1	20	HHDT/MHDT	31356	130	4347.727705	83.2	4430.927705
La Mirada Creek-L3 Water Crossing_CTF1	87	0	0	10.2	HHDT/MHDT	0	0	0	0	0
La Mirada Creek-L3 Water Crossing_CTF2	130	0	0	10.2	HHDT/MHDT	0	0	0	0	0
La Mirada Creek-L3 Water Crossing_CTF3	260	0	0	10.2	HHDT/MHDT	0	0	0	0	0
La Mirada Creek-L3 Water Crossing_CTF4	43	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Brea Creek-L3 Water Crossing_FD	325	6	0.1	30	HHDT/MHDT	58695	162.5	8138.470394	104	8242.470394
Brea Creek-L3 Water Crossing_CTF1	42	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Brea Creek-L3 Water Crossing_CTF2	108	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Brea Creek-L3 Water Crossing_CTF3	130	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Brea Creek-L3 Water Crossing_CTF4	217	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Brea Creek-L3 Water Crossing_CTF5	43	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Brea Creek-L3 Water Crossing_CTF6	43	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Brea Creek-L3 Water Crossing_CTF7	175	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Brea Creek-L3 Water Crossing_CTF8	392	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Redondo Jct TPSS_FD	261	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Redondo Jct TPSS_CTF1	216	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Redondo Jct TPSS_CTF2	44	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Redondo Jct TPSS_CTF3	261	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Redondo Jct TPSS_CTF4	132	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Redondo Jct TPSS_CTF5	20	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Redondo Jct TPSS_CTF6	22	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Anaheim TPSS_FD	239	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Anaheim TPSS_CTF1	216	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Anaheim TPSS_CTF2	44	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Anaheim TPSS_CTF3	261	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Anaheim TPSS_CTF4	22	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Anaheim TPSS_CTF5	43	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Anaheim TPSS_CTF6	132	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Anaheim TPSS_CTF7	239	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Anaheim TPSS_CTF8	20	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Anaheim TPSS_CTF9	22	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Paralleling Station #2_FD	262	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Paralleling Station #2_CTF1	23	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Paralleling Station #2_CTF2	108	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Paralleling Station #2_CTF3	261	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Paralleling Station #2_CTF4	22	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Paralleling Station #2_CTF5	20	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Paralleling Station #2_CTF6	22	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Paralleling Station #4_FD	261	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Paralleling Station #4_CTF1	23	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Paralleling Station #4_CTF2	108	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Paralleling Station #4_CTF3	261	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Paralleling Station #4_CTF4	22	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Paralleling Station #4_CTF5	20	0	0	10.2	HHDT/MHDT	0	0	0	0	0

Phase	Days/year	Truck Trips per Day (In/Out)	Onsite Trip Length (Miles)	Offsite Trip Length (Miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Paralleling Station #4_CTF6	22	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Switching Station_FD	129	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Switching Station_CTF1	22	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Switching Station_CTF2	129	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Switching Station_CTF3	20	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Switching Station_CTF4	44	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Switching Station_CTF5	22	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #1_FD	66	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #1_CTF1	23	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #1_CTF2	66	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #1_CTF3	22	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #3_FD	64	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #3_CTF1	42	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #3_CTF2	64	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #3_CTF3	21	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #3_CTF4	22	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #5_FD	66	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #5_CTF1	22	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #5_CTF2	66	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #5_CTF3	23	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #5_CTF4	21	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #7_FD	86	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #7_CTF1	43	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #7_CTF2	66	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #7_CTF3	86	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #7_CTF4	65	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #7_CTF5	23	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #7_CTF6	20	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #9_FD	86	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #9_CTF1	43	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #9_CTF2	66	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #9_CTF3	86	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #9_CTF4	65	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #9_CTF5	23	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #9_CTF6	20	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #11_FD	66	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #11_CTF1	22	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #11_CTF2	66	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #11_CTF3	23	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #11_CTF4	21	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #13_FD	64	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #13_CTF1	42	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #13_CTF2	64	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #13_CTF3	21	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #13_CTF4	22	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #15_FD	66	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #15_CTF1	23	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #15_CTF2	66	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Communciation Tower #15_CTF3	22	0	0	10.2	HHDT/MHDT	0	0	0	0	0
LMF Support Structures_FD	326	0	0	10.2	HHDT/MHDT	0	0	0	0	0
LMF Support Structures_CTF1	130	0	0	10.2	HHDT/MHDT	0	0	0	0	0
LMF Support Structures_CTF2	261	0	0	10.2	HHDT/MHDT	0	0	0	0	0
LMF Support Structures_CTF3	326	0	0	10.2	HHDT/MHDT	0	0	0	0	0
LMF Support Structures_CTF4	152	0	0	10.2	HHDT/MHDT	0	0	0	0	0
LMF Support Structures_CTF5	142	0	0	10.2	HHDT/MHDT	0	0	0	0	0
LMF Support Structures_CTF6	66	0	0	10.2	HHDT/MHDT	0	0	0	0	0
LMF Support Structures_CTF7	66	0	0	10.2	HHDT/MHDT	0	0	0	0	0
LMF Support Structures_CTF8	110	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Hobart Yard Improvements_FD	861	30	0.1	15	HHDT/MHDT	390033	2152.5	54080.79092	1377.6	55458.39092
Hobart Yard Improvements_CTF1	77	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Hobart Yard Improvements_CTF2	103	0	0	10.2	HHDT/MHDT	0	0	0	0	0

Phase	Days/year	Truck Trips per Day (In/Out)	Onsite Trip Length (Miles)	Offsite Trip Length (Miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Hobart Yard Improvements_CTF3	155	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Hobart Yard Improvements_CTF4	861	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Hobart Yard Improvements_CTF5	50	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Hobart Yard Improvements_CTF6	262	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Hobart Yard Improvements_CTF7	235	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Hobart Yard Improvements_CTF8	208	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Hobart Yard Improvements_CTF9	392	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Hobart Yard Improvements_CTF10	103	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Hobart Yard Improvements_CTF11	77	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Hobart Yard Improvements_CTF12	208	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commerce Yard Improvements_Utility Relocation	367	30	0.1	15	HHDT/MHDT	166251	917.5	23051.85862	587.2	23639.05862
Commerce Yard Improvements_CTF1	53	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commerce Yard Improvements_CTF2	158	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commerce Yard Improvements_CTF3	236	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commerce Yard Improvements_CTF4	314	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commerce Yard Improvements_CTF5	367	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commerce Yard Improvements_CTF6	314	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commerce Yard Improvements_CTF7	105	0	0	10.2	HHDT/MHDT	0	0	0	0	0
15th St HSR LMF_Utility Relocation	262	4	0.1	15	HHDT/MHDT	15824.8	87.33333333	2194.218695	55.89333333	2250.112028
15th St HSR LMF_Site Preparation	195	0	0	10.2	HHDT/MHDT	0	0	0	0	0
15th St HSR LMF_Track, Tie and Ballast Installation	521	0	0	10.2	HHDT/MHDT	0	0	0	0	0
15th St HSR LMF_CTF1	262	0	0	10.2	HHDT/MHDT	0	0	0	0	0
15th St HSR LMF_CTF2	652	0	0	10.2	HHDT/MHDT	0	0	0	0	0
15th St HSR LMF_CTF3	912	0	0	10.2	HHDT/MHDT	0	0	0	0	0
15th St HSR LMF_CTF4	912	0	0	10.2	HHDT/MHDT	0	0	0	0	0
15th St HSR LMF_CTF5	390	0	0	10.2	HHDT/MHDT	0	0	0	0	0
15th St HSR LMF_CTF6	175	0	0	10.2	HHDT/MHDT	0	0	0	0	0
15th St HSR LMF_CTF7	131	0	0	10.2	HHDT/MHDT	0	0	0	0	0
15th St HSR LMF_CTF8	196	0	0	10.2	HHDT/MHDT	0	0	0	0	0
15th St HSR LMF_CTF9	132	0	0	10.2	HHDT/MHDT	0	0	0	0	0
15th St HSR LMF_CTF10	260	0	0	10.2	HHDT/MHDT	0	0	0	0	0
15th St HSR LMF_CTF11	175	0	0	10.2	HHDT/MHDT	0	0	0	0	0
15th St HSR LMF_CTF12	262	0	0	10.2	HHDT/MHDT	0	0	0	0	0
15th St HSR LMF_CTF13	86	0	0	10.2	HHDT/MHDT	0	0	0	0	0
15th St HSR LMF_CTF14	42	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commerce Metrolink Stn_FD	261	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commerce Metrolink Stn_CTF1	64	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commerce Metrolink Stn_CTF2	261	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commerce Metrolink Stn_CTF3	65	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commerce Metrolink Stn_CTF4	66	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Commerce Metrolink Stn_CTF5	44	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Norwalk-SFS Metrolink Stn_FD	651	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Norwalk-SFS Metrolink Stn_CTF1	65	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Norwalk-SFS Metrolink Stn_CTF2	390	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Norwalk-SFS Metrolink Stn_CTF3	42	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Norwalk-SFS Metrolink Stn_CTF4	22	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Buena Park Metrolink Stn_FD	325	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Buena Park Metrolink Stn_CTF1	65	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Buena Park Metrolink Stn_CTF2	325	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Buena Park Metrolink Stn_CTF3	66	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Buena Park Metrolink Stn_CTF4	88	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Buena Park Metrolink Stn_CTF5	23	0	0	10.2	HHDT/MHDT	0	0	0	0	0
ARTIC Station_FD	783	0	0	10.2	HHDT/MHDT	0	0	0	0	0
ARTIC Station_CTF1	151	0	0	10.2	HHDT/MHDT	0	0	0	0	0
ARTIC Station_CTF2	174	0	0	10.2	HHDT/MHDT	0	0	0	0	0
ARTIC Station_CTF3	413	0	0	10.2	HHDT/MHDT	0	0	0	0	0
ARTIC Station_CTF4	783	0	0	10.2	HHDT/MHDT	0	0	0	0	0
ARTIC Station_CTF5	107	0	0	10.2	HHDT/MHDT	0	0	0	0	0
ARTIC Station_CTF6	152	0	0	10.2	HHDT/MHDT	0	0	0	0	0
ARTIC Station_CTF7	368	0	0	10.2	HHDT/MHDT	0	0	0	0	0
ARTIC Station_CTF8	43	0	0	10.2	HHDT/MHDT	0	0	0	0	0
ARTIC Station_CTF9	66	0	0	10.2	HHDT/MHDT	0	0	0	0	0
ARTIC Station_CTF10	20	0	0	10.2	HHDT/MHDT	0	0	0	0	0

Phase	Days/year	Truck Trips per Day (In/Out)	Onsite Trip Length (Miles)	Offsite Trip Length (Miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
ARTIC Station_CTF11	151	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Fullerton Metrolink Stn_FD	283	6	0.1	10.2	HHDT/MHDT	17489.4	141.5	2425.027074	90.56	2515.587074
Fullerton Metrolink Stn_CTF1	87	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Fullerton Metrolink Stn_CTF2	64	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Fullerton Metrolink Stn_CTF3	44	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Fullerton Metrolink Stn_CTF4	110	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Fullerton Metrolink Stn_CTF5	65	0	0	11.2	HHDT/MHDT	0	0	0	0	0
Ballast Delivery_OutsideCA_2033	1	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Ballast Delivery_OutsideCA_2034	1	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Ballast Delivery_OutsideCA_2035	1	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Ballast Delivery_OutsideCA_2036	1	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Ballast Delivery_OutsideCA_2037	1	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Ballast Delivery_MDAB_2033	1	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Ballast Delivery_MDAB_2034	1	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Ballast Delivery_MDAB_2035	1	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Ballast Delivery_MDAB_2036	1	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Ballast Delivery_MDAB_2037	1	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Ballast Delivery_SCAB_2033	1	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Ballast Delivery_SCAB_2034	1	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Ballast Delivery_SCAB_2035	1	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Ballast Delivery_SCAB_2036	1	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Ballast Delivery_SCAB_2037	1	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Ballast Dumping_SCAB_2033	1	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Ballast Dumping_SCAB_2034	1	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Ballast Dumping_SCAB_2035	1	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Ballast Dumping_SCAB_2036	1	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Ballast Dumping_SCAB_2037	1	0	0	10.2	HHDT/MHDT	0	0	0	0	0
					Total VMT:	**6,080,840**		**843,150.86**	**15,007.36**	**858,158.22**
					Total Idle-Hours:		**23,449**			

1. CARB, EMFAC2021 (SCAQMD; HHDT/MHDT; Annual; CY 2031; Aggregate MY; Aggregate Speed,DSL)
2. Department of Energy, Fact #861, 2015 Idle Fuel Consumption for Selected Gasoline and Diesel Vehicles, February 23, 2015. https://www.energy.gov/eere/vehicles/fact-861-february-23-2015-idle-fuel-consumption-selected-gasoline-and-diesel-vehicles

Vendor Trucks

Onroad Travel Consumption	Value
EMFAC2021 Diesel Fuel Consumption Factor (gal/mi):[1]	0.139
Total VMT (mi):	1,131,706
Total diesel gallons	**156,919**
Idling Consumption	**Value**
Idling Fuel Consumption Factor (gal/hr):[2]	0.6400
Total Idle-Hours per Year:	9,156
Total diesel gallons	**5,860**

Total diesel gallons: 162,779

Phase	Days/year	Truck Trips per Day (In/Out)	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
At-Grade Rail-Ballasted Track-2033_Utilities	260	10.2	0.1	10.20	HHDT/MHDT	27,316	221	3787.50	141.44	3928.94
At-Grade Rail-Ballasted Track-2034_Utilities	260	10.2	0.1	10.20	HHDT/MHDT	27,316	221	3787.50	141.44	3928.94
At-Grade Rail-Ballasted Track-2035_Utilities	66	10.2	0.1	10.20	HHDT/MHDT	6,934	56	961.44	35.90	997.35
At-Grade Rail-Ballasted Track-2036_Utilities	130	10.2	0.1	10.20	HHDT/MHDT	13,658	111	1893.75	70.72	1964.47
At-Grade Rail-Ballasted Track-2037_Utilities	86	10.2	0.1	10.20	HHDT/MHDT	9,035	73	1252.79	46.78	1299.57
South of Fullerton-Ballasted Track_FD	197	10.2	0.1	10.20	HHDT/MHDT	20,697	167	2869.76	107.17	2976.93
Rail Direct Fixation_CTF1	130	10.2	0.1	10.20	HHDT/MHDT	13,658	111	1893.75	70.72	1964.47
Rail Direct Fixation_CTF2	261	10.2	0.1	10.20	HHDT/MHDT	27,421	222	3802.07	141.98	3944.05
Rail Direct Fixation_CTF3	262	10.2	0.1	10.20	HHDT/MHDT	27,526	223	3816.63	142.53	3959.16
Commerce Viaduct_CTF1	217	10.2	0.1	10.20	HHDT/MHDT	22,798	184	3161.10	118.05	3279.15
Commerce Viaduct_CTF7	522	10.2	0.1	10.20	HHDT/MHDT	54,841	444	7604.13	283.97	7888.10
Norwalk-SFS Viaduct_CTF4	522	10.2	0.1	10.20	HHDT/MHDT	54,841	444	7604.13	283.97	7888.10
Norwalk-SFS Viaduct_CTF6	261	10.2	0.1	10.20	HHDT/MHDT	27,421	222	3802.07	141.98	3944.05
Fullerton Trench_CTF1	653	10.2	0.1	10.20	HHDT/MHDT	68,604	555	9512.45	355.23	9867.68
Fullerton Trench_CTF6	132	10.2	0.1	10.20	HHDT/MHDT	13,868	112	1922.88	71.81	1994.69
Fullerton Trench_CTF8	175	10.2	0.1	10.20	HHDT/MHDT	18,386	149	2549.28	95.20	2644.48
South Downey Rd-L1 Grade Separation_CTF2	240	10.2	0.1	10.20	HHDT/MHDT	25,214	204	3496.15	130.56	3626.71
Eastern Ave-L2 Grade Separation_CTF6	195	10.2	0.1	10.20	HHDT/MHDT	20,487	166	2840.62	106.08	2946.70
Passons Blvd-L2 Grade Separation_CTF6	65	10.2	0.1	10.20	HHDT/MHDT	6,829	55	946.87	35.36	982.23
Sante Fe Springs-L2 Grade Separation_CTF6	87	10.2	0.1	10.20	HHDT/MHDT	9,140	74	1267.36	47.33	1314.68
Telegraph Road-L2 Grade Separation_CTF5	88	10.2	0.1	10.20	HHDT/MHDT	9,245	75	1281.92	47.87	1329.79
Valley View Ave-L2 Grade Separation_CTF7	151	10.2	0.1	10.20	HHDT/MHDT	15,864	128	2199.66	82.14	2281.81
Beach Blvd-L2 Grade Separation_CTF1	43	10.2	0.1	10.20	HHDT/MHDT	4,518	37	626.39	23.39	649.79
Gilbert St-L2 Grade Separation_CTF7	218	10.2	0.1	10.20	HHDT/MHDT	22,903	185	3175.67	118.59	3294.26
Euclid St-L2 Grade Separation_CTF8	154	10.2	0.1	10.20	HHDT/MHDT	16,179	131	2243.36	83.78	2327.14
Lemon St-L2 Grade Separation_CTF7	305	10.2	0.1	10.20	HHDT/MHDT	32,043	259	4443.03	165.92	4608.95
Atlantic Blvd-L3 Grade Separation_CTF8	174	10.2	0.1	10.20	HHDT/MHDT	18,280	148	2534.71	94.66	2629.37
Rosemead Blvd-L3 Grade Separation_CTF7	86	10.2	0.1	10.20	HHDT/MHDT	9,035	73	1252.79	46.78	1299.57
Slauson Ave-L3 Grade Separation_CTF6	109	10.2	0.1	10.20	HHDT/MHDT	11,452	93	1587.84	59.30	1647.13
Carmenita Rd-L3 Grade Separation_CTF5	195	10.2	0.1	10.20	HHDT/MHDT	20,487	166	2840.62	106.08	2946.70
Alondra Blvd-L3 Grade Separation_CTF2	217	10.2	0.1	10.20	HHDT/MHDT	22,798	184	3161.10	118.05	3279.15
Dale St-L3 Grade Separation_CTF3	86	10.2	0.1	10.20	HHDT/MHDT	9,035	73	1252.79	46.78	1299.57
Commonwealth Ave-L3 Grade Separation_CTF4	260	10.2	0.1	10.20	HHDT/MHDT	27,316	221	3787.50	141.44	3928.94
Highland Ave-L3 Grade Separation_CTF8	154	10.2	0.1	10.20	HHDT/MHDT	16,179	131	2243.36	83.78	2327.14
Harbor Blvd-L3 Grade Separation_CTF5	173	10.2	0.1	10.20	HHDT/MHDT	18,175	147	2520.14	94.11	2614.25
Douglass Rd-L3 Grade Separation_CTF7	174	10.2	0.1	10.20	HHDT/MHDT	18,280	148	2534.71	94.66	2629.37
Pioneer Blvd-L4 Grade Separation_CTF7	131	10.2	0.1	10.20	HHDT/MHDT	13,763	111	1908.32	71.26	1979.58

Phase	Days/year	Truck Trips per Day (In/Out)	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Norwalk Blvd-L4 Grade Separation_CTF8	130	10.2	0.1	10.20	HHDT/MHDT	13,658	111	1893.75	70.72	1964.47
Los Nietos Rd-L4 Grade Separation_CTF8	130	10.2	0.1	10.20	HHDT/MHDT	13,658	111	1893.75	70.72	1964.47
Cerritos Ave-L4 Grade Separation_CTF12	261	10.2	0.1	10.20	HHDT/MHDT	27,421	222	3802.07	141.98	3944.05
Lewis St-L4 Grade Separation_CTF10	163	10.2	0.1	10.20	HHDT/MHDT	17,125	139	2374.47	88.67	2463.14
State College Blvd-L4 Grade Separation_CTF6	219	10.2	0.1	10.20	HHDT/MHDT	23,008	186	3190.24	119.14	3309.37
Katella Ave-L4 Grade Separation_CTF6	130	10.2	0.1	10.20	HHDT/MHDT	13,658	111	1893.75	70.72	1964.47
Coyote Creek-L1Water Crossing_CTF1	66	10.2	0.1	10.20	HHDT/MHDT	6,934	56	961.44	35.90	997.35
Carbon Creek-L1 Water Crossing_CTF1	89	10.2	0.1	10.20	HHDT/MHDT	9,350	76	1296.49	48.42	1344.91
San Gabriel River-L2 Water Crossing_CTF9	175	10.2	0.1	10.20	HHDT/MHDT	18,386	149	2549.28	95.20	2644.48
Rio Hondo River-L3 Water Crossing_CTF4	86	10.2	0.1	10.20	HHDT/MHDT	9,035	73	1252.79	46.78	1299.57
Coyote Creek-N Fork-L3 Water Crossing_CTF6	173	10.2	0.1	10.20	HHDT/MHDT	18,175	147	2520.14	94.11	2614.25
La Mirada Creek-L3 Water Crossing_CTF4	43	10.2	0.1	10.20	HHDT/MHDT	4,518	37	626.39	23.39	649.79
Brea Creek-L3 Water Crossing_CTF6	43	10.2	0.1	10.20	HHDT/MHDT	4,518	37	626.39	23.39	649.79
Redondo Jct TPSS_CTF2	44	10.2	0.1	10.20	HHDT/MHDT	4,623	37	640.96	23.94	664.90
Anaheim TPSS_CTF2	44	10.2	0.1	10.20	HHDT/MHDT	4,623	37	640.96	23.94	664.90
Paralleling Station #2_CTF4	22	10.2	0.1	10.20	HHDT/MHDT	2,311	19	320.48	11.97	332.45
Paralleling Station #4_CTF4	22	10.2	0.1	10.20	HHDT/MHDT	2,311	19	320.48	11.97	332.45
Switching Station_CTF3	20	10.2	0.1	10.20	HHDT/MHDT	2,101	17	291.35	10.88	302.23
Communciation Tower #1_CTF3	22	10.2	0.1	10.20	HHDT/MHDT	2,311	19	320.48	11.97	332.45
Communciation Tower #3_CTF4	22	10.2	0.1	10.20	HHDT/MHDT	2,311	19	320.48	11.97	332.45
Communciation Tower #5_CTF4	21	10.2	0.1	10.20	HHDT/MHDT	2,206	18	305.91	11.42	317.34
Communciation Tower #7_CTF5	23	10.2	0.1	10.20	HHDT/MHDT	2,416	20	335.05	12.51	347.56
Communciation Tower #9_CTF5	23	10.2	0.1	10.20	HHDT/MHDT	2,416	20	335.05	12.51	347.56
Communciation Tower #11_CTF4	21	10.2	0.1	10.20	HHDT/MHDT	2,206	18	305.91	11.42	317.34
Communciation Tower #13_CTF4	22	10.2	0.1	10.20	HHDT/MHDT	2,311	19	320.48	11.97	332.45
Communciation Tower #15_CTF3	22	10.2	0.1	10.20	HHDT/MHDT	2,311	19	320.48	11.97	332.45
LMF Support Structures_CTF4	152	10.2	0.1	10.20	HHDT/MHDT	15,969	129	2214.23	82.69	2296.92
Hobart Yard Improvements_CTF5	50	10.2	0.1	10.20	HHDT/MHDT	5,253	43	728.37	27.20	755.57
Commerce Yard Improvements_CTF2	158	10.2	0.1	10.20	HHDT/MHDT	16,599	134	2301.63	85.95	2387.59
15th St HSR LMF_CTF1	262	10.2	0.1	10.20	HHDT/MHDT	27,526	223	3816.63	142.53	3959.16
15th St HSR LMF_CTF9	132	10.2	0.1	10.20	HHDT/MHDT	13,868	112	1922.88	71.81	1994.69
15th St HSR LMF_CTF11	175	10.2	0.1	10.20	HHDT/MHDT	18,386	149	2549.28	95.20	2644.48
ARTIC Station_CTF7	368	10.2	0.1	10.20	HHDT/MHDT	38,662	313	5360.77	200.19	5560.96
Fullerton Metrolink Stn_CTF4	110	10.2	0.1	10.20	HHDT/MHDT	11,557	94	1602.40	59.84	1662.24
					Total VMT:	**1,131,706**		**158,521.36**	**5,919.81**	**164,441.17**
					Total Idle-Hours:		**9,156**			

1. CARB, EMFAC2021 (SCAQMD; HHDT/MHDT; Annual; CY 2031; Aggregate MY; Aggregate Speed,DSL)
2. Department of Energy, Fact #861, 2015 Idle Fuel Consumption for Selected Gasoline and Diesel Vehicles, February 23, 2015. https://www.energy.gov/eere/vehicles/fact-861-february-23-2015-idle-fuel-consumption-selected-gasoline-and-diesel-vehicles

Vendor Trucks

Onroad Travel Consumption	Value
EMFAC2021 Diesel Fuel Consumption Factor (gal/mi):[1]	0.139
Total VMT (mi):	191,968
Total diesel gallons	**26,618**
Idling Consumption	**Value**
Idling Fuel Consumption Factor (gal/hr):[2]	0.6400
Total Idle-Hours per Year:	14,543
Total diesel gallons	**9,308**

Total diesel gallons: 35,925

Phase	Days/year	Truck Trips per Day (In/Out)	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
At-Grade Rail-Ballasted Track-2033_Utilities	260	6.0	0.1	1.00	HHDT/MHDT	1,716	130	237.94	83.20	321.14
At-Grade Rail-Ballasted Track-2033_Track Install	313	6.0	0.1	1.00	HHDT/MHDT	2,066	157	286.44	100.16	386.60
At-Grade Rail-Ballasted Track-2034_Utilities	260	6.0	0.1	1.00	HHDT/MHDT	1,716	130	237.94	83.20	321.14
At-Grade Rail-Ballasted Track-2034_Track Install	312	6.0	0.1	1.00	HHDT/MHDT	2,059	156	285.52	99.84	385.36
At-Grade Rail-Ballasted Track-2035_Utilities	66	6.0	0.1	1.00	HHDT/MHDT	436	33	60.40	21.12	81.52
At-Grade Rail-Ballasted Track-2035_Track Install	79	6.0	0.1	1.00	HHDT/MHDT	521	40	72.30	25.28	97.58
At-Grade Rail-Ballasted Track-2036_Utilities	130	6.0	0.1	1.00	HHDT/MHDT	858	65	118.97	41.60	160.57
At-Grade Rail-Ballasted Track-2036_Track Install	156	6.0	0.1	1.00	HHDT/MHDT	1,030	78	142.76	49.92	192.68
At-Grade Rail-Ballasted Track-2037_Utilities	86	6.0	0.1	1.00	HHDT/MHDT	568	43	78.70	27.52	106.22
At-Grade Rail-Ballasted Track-2037_Track Install	103	6.0	0.1	1.00	HHDT/MHDT	680	52	94.26	32.96	127.22
South of Fullerton-Ballasted Track_FD	197	6.0	0.1	1.00	HHDT/MHDT	1,300	99	180.28	63.04	243.32
Rail Direct Fixation_CTF1	130	6.0	0.1	1.00	HHDT/MHDT	858	65	118.97	41.60	160.57
Rail Direct Fixation_CTF2	261	6.0	0.1	1.00	HHDT/MHDT	1,723	131	238.85	83.52	322.37
Rail Direct Fixation_CTF3	262	6.0	0.1	1.00	HHDT/MHDT	1,729	131	239.77	83.84	323.61
Commerce Viaduct_FD	652	6.0	0.1	1.00	HHDT/MHDT	4,303	326	596.67	208.64	805.31
Commerce Viaduct_Box Girders	695	6.0	0.1	1.00	HHDT/MHDT	4,587	348	636.02	222.40	858.42
Commerce Viaduct_CTF1	217	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commerce Viaduct_CTF2	652	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commerce Viaduct_CTF3	261	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commerce Viaduct_CTF4	107	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commerce Viaduct_CTF5	695	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commerce Viaduct_CTF6	436	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commerce Viaduct_CTF7	522	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk-SFS Viaduct_FD	782	6.0	0.1	1.00	HHDT/MHDT	5,161	391	715.64	250.24	965.88
Norwalk-SFS Viaduct_Box Girders	653	6.0	0.1	1.00	HHDT/MHDT	4,310	327	597.58	208.96	806.54
Norwalk-SFS Viaduct_CTF1	782	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk-SFS Viaduct_CTF2	261	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk-SFS Viaduct_CTF3	107	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk-SFS Viaduct_CTF4	522	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk-SFS Viaduct_CTF5	653	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk-SFS Viaduct_CTF6	261	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Fullerton Trench_FD	912	6.0	0.1	1.00	HHDT/MHDT	6,019	456	834.60	291.84	1126.44
Fullerton Trench_CTF1	653	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Fullerton Trench_CTF2	912	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Fullerton Trench_CTF3	175	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Fullerton Trench_CTF4	131	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Fullerton Trench_CTF5	717	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Fullerton Trench_CTF6	132	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Fullerton Trench_CTF7	260	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Fullerton Trench_CTF8	175	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Fullerton Trench_CTF9	261	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Fullerton Trench_CTF10	86	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Fullerton Trench_CTF11	42	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
I-10-L1 Grade Separation_FD	155	6.0	0.1	1.00	HHDT/MHDT	1,023	78	141.85	49.60	191.45
South Downey Rd-L1 Grade Separation_FD	326	6.0	0.1	1.00	HHDT/MHDT	2,152	163	298.33	104.32	402.65
South Downey Rd-L1 Grade Separation_CTF1	326	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
South Downey Rd-L1 Grade Separation_CTF2	240	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
South Downey Rd-L1 Grade Separation_CTF3	390	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-

Phase	Days/year	Truck Trips per Day (In/Out)	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
I-710-L1 Grade Separation_FD	53	6.0	0.1	1.00	HHDT/MHDT	350	27	48.50	16.96	65.46
I-5-L1 Grade Separation_FD	52	6.0	0.1	1.00	HHDT/MHDT	343	26	47.59	16.64	64.23
Greenwood Ave-L1 Grade Separation_FD	53	6.0	0.1	1.00	HHDT/MHDT	350	27	48.50	16.96	65.46
Paramount Blvd-L1 Grade Separation_FD	51	6.0	0.1	1.00	HHDT/MHDT	337	26	46.67	16.32	62.99
SR-91-L1 Grade Separation_FD	42	6.0	0.1	1.00	HHDT/MHDT	277	21	38.44	13.44	51.88
Lincoln Ave-L1 Grade Separation_FD	44	6.0	0.1	1.00	HHDT/MHDT	290	22	40.27	14.08	54.35
Eastern Ave-L2 Grade Separation_FD	457	6.0	0.1	1.00	HHDT/MHDT	3,016	229	418.22	146.24	564.46
Eastern Ave-L2 Grade Separation_CTF1	108	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Eastern Ave-L2 Grade Separation_CTF2	457	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Eastern Ave-L2 Grade Separation_CTF3	43	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Eastern Ave-L2 Grade Separation_CTF4	108	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Eastern Ave-L2 Grade Separation_CTF5	131	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Eastern Ave-L2 Grade Separation_CTF6	195	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Eastern Ave-L2 Grade Separation_CTF7	261	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Eastern Ave-L2 Grade Separation_CTF8	45	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Eastern Ave-L2 Grade Separation_CTF9	85	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Passons Blvd-L2 Grade Separation_FD	326	6.0	0.1	1.00	HHDT/MHDT	2,152	163	298.33	104.32	402.65
Passons Blvd-L2 Grade Separation_CTF1	42	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Passons Blvd-L2 Grade Separation_CTF2	87	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Passons Blvd-L2 Grade Separation_CTF3	130	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Passons Blvd-L2 Grade Separation_CTF4	326	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Passons Blvd-L2 Grade Separation_CTF5	65	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Passons Blvd-L2 Grade Separation_CTF6	65	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Passons Blvd-L2 Grade Separation_CTF7	87	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Sante Fe Springs-L2 Grade Separation_FD	326	6.0	0.1	1.00	HHDT/MHDT	2,152	163	298.33	104.32	402.65
Sante Fe Springs-L2 Grade Separation_CTF1	87	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Sante Fe Springs-L2 Grade Separation_CTF2	326	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Sante Fe Springs-L2 Grade Separation_CTF3	110	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Sante Fe Springs-L2 Grade Separation_CTF4	132	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Sante Fe Springs-L2 Grade Separation_CTF5	43	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Sante Fe Springs-L2 Grade Separation_CTF6	87	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Sante Fe Springs-L2 Grade Separation_CTF7	107	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Telegraph Road-L2 Grade Separation_FD	390	6.0	0.1	1.00	HHDT/MHDT	2,574	195	356.90	124.80	481.70
Telegraph Road-L2 Grade Separation_CTF1	64	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Telegraph Road-L2 Grade Separation_CTF2	85	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Telegraph Road-L2 Grade Separation_CTF3	390	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Telegraph Road-L2 Grade Separation_CTF4	43	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Telegraph Road-L2 Grade Separation_CTF5	88	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Telegraph Road-L2 Grade Separation_CTF6	217	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Valley View Ave-L2 Grade Separation_FD	326	6.0	0.1	1.00	HHDT/MHDT	2,152	163	298.33	104.32	402.65
Valley View Ave-L2 Grade Separation_CTF1	44	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Valley View Ave-L2 Grade Separation_CTF2	326	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Valley View Ave-L2 Grade Separation_CTF3	43	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Valley View Ave-L2 Grade Separation_CTF4	66	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Valley View Ave-L2 Grade Separation_CTF5	64	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Valley View Ave-L2 Grade Separation_CTF6	107	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Valley View Ave-L2 Grade Separation_CTF7	151	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Valley View Ave-L2 Grade Separation_CTF8	216	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Valley View Ave-L2 Grade Separation_CTF9	43	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Valley View Ave-L2 Grade Separation_CTF10	66	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Beach Blvd-L2 Grade Separation_FD	261	6.0	0.1	1.00	HHDT/MHDT	1,723	131	238.85	83.52	322.37
Beach Blvd-L2 Grade Separation_CTF1	43	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Beach Blvd-L2 Grade Separation_CTF2	87	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Beach Blvd-L2 Grade Separation_CTF3	109	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Beach Blvd-L2 Grade Separation_CTF4	261	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Beach Blvd-L2 Grade Separation_CTF5	109	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Beach Blvd-L2 Grade Separation_CTF6	109	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Gilbert St-L2 Grade Separation_FD	390	6.0	0.1	1.00	HHDT/MHDT	2,574	195	356.90	124.80	481.70
Gilbert St-L2 Grade Separation_CTF1	43	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Gilbert St-L2 Grade Separation_CTF2	86	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Gilbert St-L2 Grade Separation_CTF3	130	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-

Phase	Days/year	Truck Trips per Day (In/Out)	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Gilbert St-L2 Grade Separation_CTF4	390	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Gilbert St-L2 Grade Separation_CTF5	216	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Gilbert St-L2 Grade Separation_CTF6	132	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Gilbert St-L2 Grade Separation_CTF7	218	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Euclid St-L2 Grade Separation_FD	391	6.0	0.1	1.00	HHDT/MHDT	2,581	196	357.82	125.12	482.94
Euclid St-L2 Grade Separation_CTF1	262	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Euclid St-L2 Grade Separation_CTF2	283	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Euclid St-L2 Grade Separation_CTF3	326	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Euclid St-L2 Grade Separation_CTF4	391	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Euclid St-L2 Grade Separation_CTF5	43	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Euclid St-L2 Grade Separation_CTF6	88	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Euclid St-L2 Grade Separation_CTF7	43	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Euclid St-L2 Grade Separation_CTF8	154	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Lemon St-L2 Grade Separation_FD	650	6.0	0.1	1.00	HHDT/MHDT	4,290	325	594.84	208.00	802.84
Lemon St-L2 Grade Separation_CTF1	238	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Lemon St-L2 Grade Separation_CTF2	650	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Lemon St-L2 Grade Separation_CTF3	79	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Lemon St-L2 Grade Separation_CTF4	261	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Lemon St-L2 Grade Separation_CTF5	109	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Lemon St-L2 Grade Separation_CTF6	132	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Lemon St-L2 Grade Separation_CTF7	305	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Atlantic Blvd-L3 Grade Separation_FD	328	6.0	0.1	1.00	HHDT/MHDT	2,165	164	300.16	104.96	405.12
Atlantic Blvd-L3 Grade Separation_CTF1	132	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Atlantic Blvd-L3 Grade Separation_CTF2	154	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Atlantic Blvd-L3 Grade Separation_CTF3	219	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Atlantic Blvd-L3 Grade Separation_CTF4	328	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Atlantic Blvd-L3 Grade Separation_CTF5	66	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Atlantic Blvd-L3 Grade Separation_CTF6	86	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Atlantic Blvd-L3 Grade Separation_CTF7	131	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Atlantic Blvd-L3 Grade Separation_CTF8	174	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Atlantic Blvd-L3 Grade Separation_CTF9	261	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Rosemead Blvd-L3 Grade Separation_FD	521	6.0	0.1	1.00	HHDT/MHDT	3,439	261	476.79	166.72	643.51
Rosemead Blvd-L3 Grade Separation_CTF1	108	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Rosemead Blvd-L3 Grade Separation_CTF2	521	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Rosemead Blvd-L3 Grade Separation_CTF3	63	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Rosemead Blvd-L3 Grade Separation_CTF4	108	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Rosemead Blvd-L3 Grade Separation_CTF5	433	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Rosemead Blvd-L3 Grade Separation_CTF6	66	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Rosemead Blvd-L3 Grade Separation_CTF7	86	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Rosemead Blvd-L3 Grade Separation_CTF8	413	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Rosemead Blvd-L3 Grade Separation_CTF9	45	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Rosemead Blvd-L3 Grade Separation_CTF10	260	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Rosemead Blvd-L3 Grade Separation_CTF11	109	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Rosemead Blvd-L3 Grade Separation_CTF12	22	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Rosemead Blvd-L3 Grade Separation_CTF13	109	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Rosemead Blvd-L3 Grade Separation_CTF14	43	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Rosemead Blvd-L3 Grade Separation_CTF15	86	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Rosemead Blvd-L3 Grade Separation_CTF16	66	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Slauson Ave-L3 Grade Separation_FD	347	6.0	0.1	1.00	HHDT/MHDT	2,290	174	317.55	111.04	428.59
Slauson Ave-L3 Grade Separation_CTF1	109	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Slauson Ave-L3 Grade Separation_CTF2	347	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Slauson Ave-L3 Grade Separation_CTF3	65	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Slauson Ave-L3 Grade Separation_CTF4	87	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Slauson Ave-L3 Grade Separation_CTF5	109	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Slauson Ave-L3 Grade Separation_CTF6	109	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Slauson Ave-L3 Grade Separation_CTF7	173	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Carmenita Rd-L3 Grade Separation_FD	521	6.0	0.1	1.00	HHDT/MHDT	3,439	261	476.79	166.72	643.51
Carmenita Rd-L3 Grade Separation_CTF1	109	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Carmenita Rd-L3 Grade Separation_CTF2	196	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Carmenita Rd-L3 Grade Separation_CTF3	218	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Carmenita Rd-L3 Grade Separation_CTF4	521	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-

Phase	Days/year	Truck Trips per Day (In/Out)	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Carmenita Rd-L3 Grade Separation_CTF5	195	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Carmenita Rd-L3 Grade Separation_CTF6	304	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Carmenita Rd-L3 Grade Separation_CTF7	66	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Carmenita Rd-L3 Grade Separation_CTF8	87	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Carmenita Rd-L3 Grade Separation_CTF9	368	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Carmenita Rd-L3 Grade Separation_CTF10	108	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Carmenita Rd-L3 Grade Separation_CTF11	195	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Alondra Blvd-L3 Grade Separation_FD	652	6.0	0.1	1.00	HHDT/MHDT	4,303	326	596.67	208.64	805.31
Alondra Blvd-L3 Grade Separation_CTF1	153	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Alondra Blvd-L3 Grade Separation_CTF2	217	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Alondra Blvd-L3 Grade Separation_CTF3	261	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Alondra Blvd-L3 Grade Separation_CTF4	327	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Alondra Blvd-L3 Grade Separation_CTF5	587	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Alondra Blvd-L3 Grade Separation_CTF6	652	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Alondra Blvd-L3 Grade Separation_CTF7	44	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Alondra Blvd-L3 Grade Separation_CTF8	174	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Alondra Blvd-L3 Grade Separation_CTF9	217	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Alondra Blvd-L3 Grade Separation_CTF10	478	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Alondra Blvd-L3 Grade Separation_CTF11	565	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Alondra Blvd-L3 Grade Separation_CTF12	43	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Dale St-L3 Grade Separation_FD	326	6.0	0.1	1.00	HHDT/MHDT	2,152	163	298.33	104.32	402.65
Dale St-L3 Grade Separation_CTF1	21	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Dale St-L3 Grade Separation_CTF2	43	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Dale St-L3 Grade Separation_CTF3	86	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Dale St-L3 Grade Separation_CTF4	109	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Dale St-L3 Grade Separation_CTF5	174	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Dale St-L3 Grade Separation_CTF6	218	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Dale St-L3 Grade Separation_CTF7	217	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Dale St-L3 Grade Separation_CTF8	110	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Dale St-L3 Grade Separation_CTF9	77	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commonwealth Ave-L3 Grade Separation_FD	522	6.0	0.1	1.00	HHDT/MHDT	3,445	261	477.70	167.04	644.74
Commonwealth Ave-L3 Grade Separation_CTF1	132	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commonwealth Ave-L3 Grade Separation_CTF2	261	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commonwealth Ave-L3 Grade Separation_CTF3	522	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commonwealth Ave-L3 Grade Separation_CTF4	260	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commonwealth Ave-L3 Grade Separation_CTF5	152	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commonwealth Ave-L3 Grade Separation_CTF6	43	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commonwealth Ave-L3 Grade Separation_CTF7	195	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commonwealth Ave-L3 Grade Separation_CTF8	86	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commonwealth Ave-L3 Grade Separation_CTF9	85	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commonwealth Ave-L3 Grade Separation_CTF10	870	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commonwealth Ave-L3 Grade Separation_CTF11	43	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Highland Ave-L3 Grade Separation_FD	651	6.0	0.1	1.00	HHDT/MHDT	4,297	326	595.75	208.32	804.07
Highland Ave-L3 Grade Separation_CTF1	152	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Highland Ave-L3 Grade Separation_CTF2	130	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Highland Ave-L3 Grade Separation_CTF3	260	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Highland Ave-L3 Grade Separation_CTF4	651	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Highland Ave-L3 Grade Separation_CTF5	630	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Highland Ave-L3 Grade Separation_CTF6	66	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Highland Ave-L3 Grade Separation_CTF7	132	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Highland Ave-L3 Grade Separation_CTF8	154	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Highland Ave-L3 Grade Separation_CTF9	174	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Highland Ave-L3 Grade Separation_CTF10	130	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Highland Ave-L3 Grade Separation_CTF11	261	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Highland Ave-L3 Grade Separation_CTF12	217	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Highland Ave-L3 Grade Separation_CTF13	174	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Harbor Blvd-L3 Grade Separation_FD	522	6.0	0.1	1.00	HHDT/MHDT	3,445	261	477.70	167.04	644.74
Harbor Blvd-L3 Grade Separation_CTF1	217	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Harbor Blvd-L3 Grade Separation_CTF2	522	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Harbor Blvd-L3 Grade Separation_CTF3	173	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Harbor Blvd-L3 Grade Separation_CTF4	217	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-

Phase	Days/year	Truck Trips per Day (In/Out)	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Harbor Blvd-L3 Grade Separation_CTF5	173	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Douglass Rd-L3 Grade Separation_FD	392	6.0	0.1	1.00	HHDT/MHDT	2,587	196	358.73	125.44	484.17
Douglass Rd-L3 Grade Separation_CTF1	131	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Douglass Rd-L3 Grade Separation_CTF2	218	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Douglass Rd-L3 Grade Separation_CTF3	262	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Douglass Rd-L3 Grade Separation_CTF4	392	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Douglass Rd-L3 Grade Separation_CTF5	434	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Douglass Rd-L3 Grade Separation_CTF6	43	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Douglass Rd-L3 Grade Separation_CTF7	174	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Douglass Rd-L3 Grade Separation_CTF8	130	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Douglass Rd-L3 Grade Separation_CTF9	175	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Douglass Rd-L3 Grade Separation_CTF10	196	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Douglass Rd-L3 Grade Separation_CTF11	64	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Pioneer Blvd-L4 Grade Separation_FD	654	6.0	0.1	1.00	HHDT/MHDT	4,316	327	598.50	209.28	807.78
Pioneer Blvd-L4 Grade Separation_CTF1	262	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Pioneer Blvd-L4 Grade Separation_CTF2	349	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Pioneer Blvd-L4 Grade Separation_CTF3	654	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Pioneer Blvd-L4 Grade Separation_CTF4	132	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Pioneer Blvd-L4 Grade Separation_CTF5	153	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Pioneer Blvd-L4 Grade Separation_CTF6	262	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Pioneer Blvd-L4 Grade Separation_CTF7	131	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Pioneer Blvd-L4 Grade Separation_CTF8	174	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Pioneer Blvd-L4 Grade Separation_CTF9	479	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Pioneer Blvd-L4 Grade Separation_CTF10	457	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Pioneer Blvd-L4 Grade Separation_CTF11	130	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Pioneer Blvd-L4 Grade Separation_CTF12	349	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Pioneer Blvd-L4 Grade Separation_CTF13	175	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Pioneer Blvd-L4 Grade Separation_CTF14	107	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Pioneer Blvd-L4 Grade Separation_CTF15	44	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Pioneer Blvd-L4 Grade Separation_CTF16	66	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk Blvd-L4 Grade Separation_FD	782	6.0	0.1	1.00	HHDT/MHDT	5,161	391	715.64	250.24	965.88
Norwalk Blvd-L4 Grade Separation_CTF1	131	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk Blvd-L4 Grade Separation_CTF2	152	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk Blvd-L4 Grade Separation_CTF3	391	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk Blvd-L4 Grade Separation_CTF4	542	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk Blvd-L4 Grade Separation_CTF5	782	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk Blvd-L4 Grade Separation_CTF6	131	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk Blvd-L4 Grade Separation_CTF7	107	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk Blvd-L4 Grade Separation_CTF8	130	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk Blvd-L4 Grade Separation_CTF9	390	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk Blvd-L4 Grade Separation_CTF10	130	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk Blvd-L4 Grade Separation_CTF11	218	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Los Nietos Rd-L4 Grade Separation_FD	782	6.0	0.1	1.00	HHDT/MHDT	5,161	391	715.64	250.24	965.88
Los Nietos Rd-L4 Grade Separation_CTF1	131	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Los Nietos Rd-L4 Grade Separation_CTF2	152	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Los Nietos Rd-L4 Grade Separation_CTF3	391	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Los Nietos Rd-L4 Grade Separation_CTF4	542	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Los Nietos Rd-L4 Grade Separation_CTF5	782	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Los Nietos Rd-L4 Grade Separation_CTF6	131	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Los Nietos Rd-L4 Grade Separation_CTF7	107	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Los Nietos Rd-L4 Grade Separation_CTF8	130	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Los Nietos Rd-L4 Grade Separation_CTF9	390	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Los Nietos Rd-L4 Grade Separation_CTF10	130	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Los Nietos Rd-L4 Grade Separation_CTF11	218	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Cerritos Ave-L4 Grade Separation_FD	783	6.0	0.1	1.00	HHDT/MHDT	5,168	392	716.55	250.56	967.11
Cerritos Ave-L4 Grade Separation_CTF1	130	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Cerritos Ave-L4 Grade Separation_CTF2	130	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Cerritos Ave-L4 Grade Separation_CTF3	283	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Cerritos Ave-L4 Grade Separation_CTF4	391	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Cerritos Ave-L4 Grade Separation_CTF5	500	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Cerritos Ave-L4 Grade Separation_CTF6	783	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-

Phase	Days/year	Truck Trips per Day (In/Out)	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Cerritos Ave-L4 Grade Separation_CTF7	129	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Cerritos Ave-L4 Grade Separation_CTF8	434	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Cerritos Ave-L4 Grade Separation_CTF9	129	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Cerritos Ave-L4 Grade Separation_CTF10	172	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Cerritos Ave-L4 Grade Separation_CTF11	238	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Cerritos Ave-L4 Grade Separation_CTF12	261	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Cerritos Ave-L4 Grade Separation_CTF13	196	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Cerritos Ave-L4 Grade Separation_CTF14	89	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Cerritos Ave-L4 Grade Separation_CTF15	132	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Cerritos Ave-L4 Grade Separation_CTF16	87	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Cerritos Ave-L4 Grade Separation_CTF17	218	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Cerritos Ave-L4 Grade Separation_CTF18	131	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Lewis St-L4 Grade Separation_FD	390	6.0	0.1	1.00	HHDT/MHDT	2,574	195	356.90	124.80	481.70
Lewis St-L4 Grade Separation_CTF1	41	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Lewis St-L4 Grade Separation_CTF2	260	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Lewis St-L4 Grade Separation_CTF3	65	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Lewis St-L4 Grade Separation_CTF4	175	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Lewis St-L4 Grade Separation_CTF5	21	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Lewis St-L4 Grade Separation_CTF6	44	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Lewis St-L4 Grade Separation_CTF7	109	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Lewis St-L4 Grade Separation_CTF8	261	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Lewis St-L4 Grade Separation_CTF9	131	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Lewis St-L4 Grade Separation_CTF10	163	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Lewis St-L4 Grade Separation_CTF11	88	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Lewis St-L4 Grade Separation_CTF12	240	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Lewis St-L4 Grade Separation_CTF13	65	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Lewis St-L4 Grade Separation_CTF14	195	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Lewis St-L4 Grade Separation_CTF15	87	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
State College Blvd-L4 Grade Separation_FD	783	6.0	0.1	1.00	HHDT/MHDT	5,168	392	716.55	250.56	967.11
State College Blvd-L4 Grade Separation_CTF1	173	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
State College Blvd-L4 Grade Separation_CTF2	523	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
State College Blvd-L4 Grade Separation_CTF3	783	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
State College Blvd-L4 Grade Separation_CTF4	412	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
State College Blvd-L4 Grade Separation_CTF5	197	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
State College Blvd-L4 Grade Separation_CTF6	219	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
State College Blvd-L4 Grade Separation_CTF7	153	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
State College Blvd-L4 Grade Separation_CTF8	108	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
State College Blvd-L4 Grade Separation_CTF9	217	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
State College Blvd-L4 Grade Separation_CTF10	304	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
State College Blvd-L4 Grade Separation_CTF11	261	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
State College Blvd-L4 Grade Separation_CTF12	129	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
State College Blvd-L4 Grade Separation_CTF13	129	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
State College Blvd-L4 Grade Separation_CTF14	239	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
State College Blvd-L4 Grade Separation_CTF15	87	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Katella Ave-L4 Grade Separation_FD	651	6.0	0.1	1.00	HHDT/MHDT	4,297	326	595.75	208.32	804.07
Katella Ave-L4 Grade Separation_CTF1	85	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Katella Ave-L4 Grade Separation_CTF2	260	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Katella Ave-L4 Grade Separation_CTF3	390	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Katella Ave-L4 Grade Separation_CTF4	651	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Katella Ave-L4 Grade Separation_CTF5	175	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Katella Ave-L4 Grade Separation_CTF6	130	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Katella Ave-L4 Grade Separation_CTF7	195	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Katella Ave-L4 Grade Separation_CTF8	65	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Katella Ave-L4 Grade Separation_CTF9	87	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Katella Ave-L4 Grade Separation_CTF10	65	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Redondo Junction-L1 Water Crossing_FD	87	6.0	0.1	1.00	HHDT/MHDT	574	44	79.62	27.84	107.46
Redondo Junction-L1 Water Crossing_CTF1	87	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Coyote Creek-L1Water Crossing_FD	131	6.0	0.1	1.00	HHDT/MHDT	865	66	119.88	41.92	161.80
Coyote Creek-L1Water Crossing_CTF1	66	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Coyote Creek-L1Water Crossing_CTF2	131	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Coyote Creek-L1Water Crossing_CTF3	21	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-

Phase	Days/year	Truck Trips per Day (In/Out)	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Carbon Creek-L1 Water Crossing_FD	89	6.0	0.1	1.00	HHDT/MHDT	587	45	81.45	28.48	109.93
Carbon Creek-L1 Water Crossing_CTF1	89	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
San Gabriel River-L2 Water Crossing_FD	457	6.0	0.1	1.00	HHDT/MHDT	3,016	229	418.22	146.24	564.46
San Gabriel River-L2 Water Crossing_CTF1	65	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
San Gabriel River-L2 Water Crossing_CTF2	87	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
San Gabriel River-L2 Water Crossing_CTF3	108	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
San Gabriel River-L2 Water Crossing_CTF4	152	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
San Gabriel River-L2 Water Crossing_CTF5	347	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
San Gabriel River-L2 Water Crossing_CTF6	435	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
San Gabriel River-L2 Water Crossing_CTF7	457	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
San Gabriel River-L2 Water Crossing_CTF8	110	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
San Gabriel River-L2 Water Crossing_CTF9	175	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Rio Hondo SG-L3 Water Crossing_FD	325	6.0	0.1	1.00	HHDT/MHDT	2,145	163	297.42	104.00	401.42
Rio Hondo SG-L3 Water Crossing_CTF1	150	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Rio Hondo SG-L3 Water Crossing_CTF2	216	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Rio Hondo SG-L3 Water Crossing_CTF3	325	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Rio Hondo River-L3 Water Crossing_FD	325	6.0	0.1	1.00	HHDT/MHDT	2,145	163	297.42	104.00	401.42
Rio Hondo River-L3 Water Crossing_CTF1	150	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Rio Hondo River-L3 Water Crossing_CTF2	325	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Rio Hondo River-L3 Water Crossing_CTF3	65	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Rio Hondo River-L3 Water Crossing_CTF4	86	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Rio Hondo River-L3 Water Crossing_CTF5	108	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Rio Hondo River-L3 Water Crossing_CTF6	173	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Coyote Creek-N Fork-L3 Water Crossing_FD	260	6.0	0.1	1.00	HHDT/MHDT	1,716	130	237.94	83.20	321.14
Coyote Creek-N Fork-L3 Water Crossing_CTF1	85	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Coyote Creek-N Fork-L3 Water Crossing_CTF2	108	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Coyote Creek-N Fork-L3 Water Crossing_CTF3	260	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Coyote Creek-N Fork-L3 Water Crossing_CTF4	455	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Coyote Creek-N Fork-L3 Water Crossing_CTF5	63	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Coyote Creek-N Fork-L3 Water Crossing_CTF6	173	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Coyote Creek-N Fork-L3 Water Crossing_CTF7	218	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
La Mirada Creek-L3 Water Crossing_FD	260	6.0	0.1	1.00	HHDT/MHDT	1,716	130	237.94	83.20	321.14
La Mirada Creek-L3 Water Crossing_CTF1	87	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
La Mirada Creek-L3 Water Crossing_CTF2	130	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
La Mirada Creek-L3 Water Crossing_CTF3	260	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
La Mirada Creek-L3 Water Crossing_CTF4	43	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Brea Creek-L3 Water Crossing_FD	325	6.0	0.1	1.00	HHDT/MHDT	2,145	163	297.42	104.00	401.42
Brea Creek-L3 Water Crossing_CTF1	42	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Brea Creek-L3 Water Crossing_CTF2	108	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Brea Creek-L3 Water Crossing_CTF3	130	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Brea Creek-L3 Water Crossing_CTF4	217	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Brea Creek-L3 Water Crossing_CTF5	43	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Brea Creek-L3 Water Crossing_CTF6	43	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Brea Creek-L3 Water Crossing_CTF7	175	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Brea Creek-L3 Water Crossing_CTF8	392	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Redondo Jct TPSS_FD	261	6.0	0.1	1.00	HHDT/MHDT	1,723	131	238.85	83.52	322.37
Redondo Jct TPSS_CTF1	216	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Redondo Jct TPSS_CTF2	44	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Redondo Jct TPSS_CTF3	261	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Redondo Jct TPSS_CTF4	132	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Redondo Jct TPSS_CTF5	20	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Redondo Jct TPSS_CTF6	22	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Anaheim TPSS_FD	239	6.0	0.1	1.00	HHDT/MHDT	1,577	120	218.72	76.48	295.20
Anaheim TPSS_CTF1	216	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Anaheim TPSS_CTF2	44	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Anaheim TPSS_CTF3	261	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Anaheim TPSS_CTF4	22	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Anaheim TPSS_CTF5	43	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Anaheim TPSS_CTF6	132	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Anaheim TPSS_CTF7	239	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Anaheim TPSS_CTF8	20	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-

Phase	Days/year	Truck Trips per Day (In/Out)	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Anaheim TPSS_CTF9	22	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Paralleling Station #2_FD	262	6.0	0.1	1.00	HHDT/MHDT	1,729	131	239.77	83.84	323.61
Paralleling Station #2_CTF1	23	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Paralleling Station #2_CTF2	108	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Paralleling Station #2_CTF3	261	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Paralleling Station #2_CTF4	22	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Paralleling Station #2_CTF5	20	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Paralleling Station #2_CTF6	22	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Paralleling Station #4_FD	261	6.0	0.1	1.00	HHDT/MHDT	1,723	131	238.85	83.52	322.37
Paralleling Station #4_CTF1	23	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Paralleling Station #4_CTF2	108	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Paralleling Station #4_CTF3	261	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Paralleling Station #4_CTF4	22	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Paralleling Station #4_CTF5	20	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Paralleling Station #4_CTF6	22	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Switching Station_FD	129	6.0	0.1	1.00	HHDT/MHDT	851	65	118.05	41.28	159.33
Switching Station_CTF1	22	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Switching Station_CTF2	129	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Switching Station_CTF3	20	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Switching Station_CTF4	44	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Switching Station_CTF5	22	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #1_FD	66	6.0	0.1	1.00	HHDT/MHDT	436	33	60.40	21.12	81.52
Communciation Tower #1_CTF1	23	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #1_CTF2	66	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #1_CTF3	22	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #3_FD	64	6.0	0.1	1.00	HHDT/MHDT	422	32	58.57	20.48	79.05
Communciation Tower #3_CTF1	42	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #3_CTF2	64	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #3_CTF3	21	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #3_CTF4	22	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #5_FD	66	6.0	0.1	1.00	HHDT/MHDT	436	33	60.40	21.12	81.52
Communciation Tower #5_CTF1	22	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #5_CTF2	66	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #5_CTF3	23	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #5_CTF4	21	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #7_FD	86	6.0	0.1	1.00	HHDT/MHDT	568	43	78.70	27.52	106.22
Communciation Tower #7_CTF1	43	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #7_CTF2	66	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #7_CTF3	86	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #7_CTF4	65	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #7_CTF5	23	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #7_CTF6	20	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #9_FD	86	6.0	0.1	1.00	HHDT/MHDT	568	43	78.70	27.52	106.22
Communciation Tower #9_CTF1	43	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #9_CTF2	66	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #9_CTF3	86	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #9_CTF4	65	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #9_CTF5	23	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #9_CTF6	20	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #11_FD	66	6.0	0.1	1.00	HHDT/MHDT	436	33	60.40	21.12	81.52
Communciation Tower #11_CTF1	22	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #11_CTF2	66	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #11_CTF3	23	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #11_CTF4	21	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #13_FD	64	6.0	0.1	1.00	HHDT/MHDT	422	32	58.57	20.48	79.05
Communciation Tower #13_CTF1	42	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #13_CTF2	64	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #13_CTF3	21	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #13_CTF4	22	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #15_FD	66	6.0	0.1	1.00	HHDT/MHDT	436	33	60.40	21.12	81.52
Communciation Tower #15_CTF1	23	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-

Phase	Days/year	Truck Trips per Day (In/Out)	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Communciation Tower #15_CTF2	66	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Communciation Tower #15_CTF3	22	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
LMF Support Structures_FD	326	6.0	0.1	1.00	HHDT/MHDT	2,152	163	298.33	104.32	402.65
LMF Support Structures_CTF1	130	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
LMF Support Structures_CTF2	261	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
LMF Support Structures_CTF3	326	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
LMF Support Structures_CTF4	152	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
LMF Support Structures_CTF5	142	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
LMF Support Structures_CTF6	66	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
LMF Support Structures_CTF7	66	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
LMF Support Structures_CTF8	110	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Hobart Yard Improvements_FD	861	6.0	0.1	1.00	HHDT/MHDT	5,683	431	787.93	275.52	1063.45
Hobart Yard Improvements_CTF1	77	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Hobart Yard Improvements_CTF2	103	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Hobart Yard Improvements_CTF3	155	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Hobart Yard Improvements_CTF4	861	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Hobart Yard Improvements_CTF5	50	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Hobart Yard Improvements_CTF6	262	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Hobart Yard Improvements_CTF7	235	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Hobart Yard Improvements_CTF8	208	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Hobart Yard Improvements_CTF9	392	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Hobart Yard Improvements_CTF10	103	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Hobart Yard Improvements_CTF11	77	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Hobart Yard Improvements_CTF12	208	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commerce Yard Improvements_Utility Relocation	367	6.0	0.1	1.00	HHDT/MHDT	2,422	184	335.85	117.44	453.29
Commerce Yard Improvements_CTF1	53	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commerce Yard Improvements_CTF2	158	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commerce Yard Improvements_CTF3	236	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commerce Yard Improvements_CTF4	314	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commerce Yard Improvements_CTF5	367	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commerce Yard Improvements_CTF6	314	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commerce Yard Improvements_CTF7	105	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
15th St HSR LMF_Utility Relocation	262	6.0	0.1	1.00	HHDT/MHDT	1,729	131	239.77	83.84	323.61
15th St HSR LMF_Site Preparation	195	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
15th St HSR LMF_Track, Tie and Ballast Installation	521	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
15th St HSR LMF_CTF1	262	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
15th St HSR LMF_CTF2	652	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
15th St HSR LMF_CTF3	912	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
15th St HSR LMF_CTF4	912	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
15th St HSR LMF_CTF5	390	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
15th St HSR LMF_CTF6	175	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
15th St HSR LMF_CTF7	131	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
15th St HSR LMF_CTF8	196	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
15th St HSR LMF_CTF9	132	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
15th St HSR LMF_CTF10	260	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
15th St HSR LMF_CTF11	175	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
15th St HSR LMF_CTF12	262	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
15th St HSR LMF_CTF13	86	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
15th St HSR LMF_CTF14	42	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commerce Metrolink Stn_FD	261	6.0	0.1	1.00	HHDT/MHDT	1,723	131	238.85	83.52	322.37
Commerce Metrolink Stn_CTF1	64	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commerce Metrolink Stn_CTF2	261	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commerce Metrolink Stn_CTF3	65	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commerce Metrolink Stn_CTF4	66	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Commerce Metrolink Stn_CTF5	44	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk-SFS Metrolink Stn_FD	651	6.0	0.1	1.00	HHDT/MHDT	4,297	326	595.75	208.32	804.07
Norwalk-SFS Metrolink Stn_CTF1	65	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk-SFS Metrolink Stn_CTF2	390	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk-SFS Metrolink Stn_CTF3	42	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk-SFS Metrolink Stn_CTF4	22	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Buena Park Metrolink Stn_FD	325	6.0	0.1	1.00	HHDT/MHDT	2,145	163	297.42	104.00	401.42

Phase	Days/year	Truck Trips per Day (In/Out)	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Buena Park Metrolink Stn_CTF1	65	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Buena Park Metrolink Stn_CTF2	325	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Buena Park Metrolink Stn_CTF3	66	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Buena Park Metrolink Stn_CTF4	88	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Buena Park Metrolink Stn_CTF5	23	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
ARTIC Station_FD	783	6.0	0.1	1.00	HHDT/MHDT	5,168	392	716.55	250.56	967.11
ARTIC Station_CTF1	151	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
ARTIC Station_CTF2	174	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
ARTIC Station_CTF3	413	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
ARTIC Station_CTF4	783	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
ARTIC Station_CTF5	107	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
ARTIC Station_CTF6	152	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
ARTIC Station_CTF7	368	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
ARTIC Station_CTF8	43	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
ARTIC Station_CTF9	66	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
ARTIC Station_CTF10	20	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
ARTIC Station_CTF11	151	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk-SFS HSR Stn_FD	783	6.0	0.1	1.00	HHDT/MHDT	5,168	392	716.55	250.56	967.11
Norwalk-SFS HSR Stn_CTF1	65	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk-SFS HSR Stn_CTF2	85	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk-SFS HSR Stn_CTF3	151	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk-SFS HSR Stn_CTF4	783	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk-SFS HSR Stn_CTF5	86	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk-SFS HSR Stn_CTF6	89	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk-SFS HSR Stn_CTF7	21	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Fullerton Metrolink Stn_FD	283	6.0	0.1	1.00	HHDT/MHDT	1,868	142	258.98	90.56	349.54
Fullerton Metrolink Stn_CTF1	87	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Fullerton Metrolink Stn_CTF2	64	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Fullerton Metrolink Stn_CTF3	44	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Fullerton Metrolink Stn_CTF4	110	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Fullerton Metrolink Stn_CTF5	65	0.0	0.1	2.00	HHDT/MHDT	0	0	-	-	-
Ballast Delivery_OutsideCA_2033	1	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Ballast Delivery_OutsideCA_2034	1	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Ballast Delivery_OutsideCA_2035	1	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Ballast Delivery_OutsideCA_2036	1	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Ballast Delivery_OutsideCA_2037	1	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Ballast Delivery_MDAB_2033	1	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Ballast Delivery_MDAB_2034	1	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Ballast Delivery_MDAB_2035	1	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Ballast Delivery_MDAB_2036	1	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Ballast Delivery_MDAB_2037	1	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Ballast Delivery_SCAB_2033	1	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Ballast Delivery_SCAB_2034	1	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Ballast Delivery_SCAB_2035	1	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Ballast Delivery_SCAB_2036	1	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Ballast Delivery_SCAB_2037	1	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Ballast Dumping_SCAB_2033	1	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Ballast Dumping_SCAB_2034	1	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Ballast Dumping_SCAB_2035	1	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Ballast Dumping_SCAB_2036	1	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Ballast Dumping_SCAB_2037	1	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
					Total VMT:	**191,968**		**26,617.64**	**9,307.52**	**35,925.16**
					Total Idle-Hours:		**14,543**			

1. CARB, EMFAC2021 (SCAQMD; HHDT/MHDT; Annual; CY 2031; Aggregate MY; Aggregate Speed,DSL)
2. Department of Energy, Fact #861, 2015 Idle Fuel Consumption for Selected Gasoline and Diesel Vehicles, February 23, 2015. https://www.energy.gov/eere/vehicles/fact-861-february-23-2015-idle-fuel-consumption-selected-gasoline-and-diesel-vehicles

Worker Vehicles

Onroad Travel Consumption	Value
EMFAC2021 Gasoline Fuel Consumption Factor (gal/mi):[1]	0.033
Total VMT (mi):	26,655,022
Total gasoline gallons	**867,478**

Phase	Days/year	Vehicle Trips per day (In/Out)	Trip Length (miles)	Vehicle Category	VMT	Onroad Travel Consumption (gal)
At-Grade Rail-Ballasted Track-2033_Utilities	260	40.0	18.50	LD Fleet Mix	192,400	6,262
At-Grade Rail-Ballasted Track-2033_Track Install	313	30.0	18.50	LD Fleet Mix	173,715	5,653
At-Grade Rail-Ballasted Track-2034_Utilities	260	40.0	18.50	LD Fleet Mix	192,400	6,262
At-Grade Rail-Ballasted Track-2034_Track Install	312	30.0	18.50	LD Fleet Mix	173,160	5,635
At-Grade Rail-Ballasted Track-2035_Utilities	66	40.0	18.50	LD Fleet Mix	48,840	1,589
At-Grade Rail-Ballasted Track-2035_Track Install	79	30.0	18.50	LD Fleet Mix	43,845	1,427
At-Grade Rail-Ballasted Track-2036_Utilities	130	40.0	18.50	LD Fleet Mix	96,200	3,131
At-Grade Rail-Ballasted Track-2036_Track Install	156	30.0	18.50	LD Fleet Mix	86,580	2,818
At-Grade Rail-Ballasted Track-2037_Utilities	86	40.0	18.50	LD Fleet Mix	63,640	2,071
At-Grade Rail-Ballasted Track-2037_Track Install	103	30.0	18.50	LD Fleet Mix	57,165	1,860
South of Fullerton-Ballasted Track_FD	197	40.0	18.50	LD Fleet Mix	145,780	4,744
Rail Direct Fixation_CTF1	130	48.0	18.50	LD Fleet Mix	115,440	3,757
Rail Direct Fixation_CTF2	261	48.0	18.50	LD Fleet Mix	231,768	7,543
Rail Direct Fixation_CTF3	262	48.0	18.50	LD Fleet Mix	232,656	7,572
Commerce Viaduct_FD	652	90.0	18.50	LD Fleet Mix	1,085,580	35,330
Commerce Viaduct_Box Girders	695	50.0	18.50	LD Fleet Mix	642,875	20,922
Commerce Viaduct_CTF1	217	0.0	18.50	LD Fleet Mix	0	0
Commerce Viaduct_CTF2	652	0.0	18.50	LD Fleet Mix	0	0
Commerce Viaduct_CTF3	261	0.0	18.50	LD Fleet Mix	0	0
Commerce Viaduct_CTF4	107	0.0	18.50	LD Fleet Mix	0	0
Commerce Viaduct_CTF5	695	0.0	18.50	LD Fleet Mix	0	0
Commerce Viaduct_CTF6	436	0.0	18.50	LD Fleet Mix	0	0
Commerce Viaduct_CTF7	522	0.0	18.50	LD Fleet Mix	0	0
Norwalk-SFS Viaduct_FD	782	90.0	18.50	LD Fleet Mix	1,302,030	42,374
Norwalk-SFS Viaduct_Box Girders	653	50.0	18.50	LD Fleet Mix	604,025	19,658
Norwalk-SFS Viaduct_CTF1	782	0.0	18.50	LD Fleet Mix	0	0
Norwalk-SFS Viaduct_CTF2	261	0.0	18.50	LD Fleet Mix	0	0

Phase	Days/year	Vehicle Trips per day (In/Out)	Trip Length (miles)	Vehicle Category	VMT	Onroad Travel Consumption (gal)
Norwalk-SFS Viaduct_CTF3	107	0.0	18.50	LD Fleet Mix	0	0
Norwalk-SFS Viaduct_CTF4	522	0.0	18.50	LD Fleet Mix	0	0
Norwalk-SFS Viaduct_CTF5	653	0.0	18.50	LD Fleet Mix	0	0
Norwalk-SFS Viaduct_CTF6	261	0.0	18.50	LD Fleet Mix	0	0
Fullerton Trench_FD	912	80.0	18.50	LD Fleet Mix	1,349,760	43,927
Fullerton Trench_CTF1	653	0.0	18.50	LD Fleet Mix	0	0
Fullerton Trench_CTF2	912	0.0	18.50	LD Fleet Mix	0	0
Fullerton Trench_CTF3	175	0.0	18.50	LD Fleet Mix	0	0
Fullerton Trench_CTF4	131	0.0	18.50	LD Fleet Mix	0	0
Fullerton Trench_CTF5	717	0.0	18.50	LD Fleet Mix	0	0
Fullerton Trench_CTF6	132	0.0	18.50	LD Fleet Mix	0	0
Fullerton Trench_CTF7	260	0.0	18.50	LD Fleet Mix	0	0
Fullerton Trench_CTF8	175	0.0	18.50	LD Fleet Mix	0	0
Fullerton Trench_CTF9	261	0.0	18.50	LD Fleet Mix	0	0
Fullerton Trench_CTF10	86	0.0	18.50	LD Fleet Mix	0	0
Fullerton Trench_CTF11	42	0.0	18.50	LD Fleet Mix	0	0
I-10-L1 Grade Separation_FD	155	40.0	18.50	LD Fleet Mix	114,700	3,733
South Downey Rd-L1 Grade Separation_FD	326	40.0	18.50	LD Fleet Mix	241,240	7,851
South Downey Rd-L1 Grade Separation_CTF1	326	0.0	18.50	LD Fleet Mix	0	0
South Downey Rd-L1 Grade Separation_CTF2	240	0.0	18.50	LD Fleet Mix	0	0
South Downey Rd-L1 Grade Separation_CTF3	390	0.0	18.50	LD Fleet Mix	0	0
I-710-L1 Grade Separation_FD	53	40.0	18.50	LD Fleet Mix	39,220	1,276
I-5-L1 Grade Separation_FD	52	40.0	18.50	LD Fleet Mix	38,480	1,252
Greenwood Ave-L1 Grade Separation_FD	53	40.0	18.50	LD Fleet Mix	39,220	1,276
Paramount Blvd-L1 Grade Separation_FD	51	40.0	18.50	LD Fleet Mix	37,740	1,228
SR-91-L1 Grade Separation_FD	42	40.0	18.50	LD Fleet Mix	31,080	1,011
Lincoln Ave-L1 Grade Separation_FD	44	40.0	18.50	LD Fleet Mix	32,560	1,060
Eastern Ave-L2 Grade Separation_FD	457	40.0	18.50	LD Fleet Mix	338,180	11,006
Eastern Ave-L2 Grade Separation_CTF1	108	0.0	18.50	LD Fleet Mix	0	0
Eastern Ave-L2 Grade Separation_CTF2	457	0.0	18.50	LD Fleet Mix	0	0
Eastern Ave-L2 Grade Separation_CTF3	43	0.0	18.50	LD Fleet Mix	0	0
Eastern Ave-L2 Grade Separation_CTF4	108	0.0	18.50	LD Fleet Mix	0	0
Eastern Ave-L2 Grade Separation_CTF5	131	0.0	18.50	LD Fleet Mix	0	0
Eastern Ave-L2 Grade Separation_CTF6	195	0.0	18.50	LD Fleet Mix	0	0
Eastern Ave-L2 Grade Separation_CTF7	261	0.0	18.50	LD Fleet Mix	0	0

Phase	Days/year	Vehicle Trips per day (In/Out)	Trip Length (miles)	Vehicle Category	VMT	Onroad Travel Consumption (gal)
Eastern Ave-L2 Grade Separation_CTF8	45	0.0	18.50	LD Fleet Mix	0	0
Eastern Ave-L2 Grade Separation_CTF9	85	0.0	18.50	LD Fleet Mix	0	0
Passons Blvd-L2 Grade Separation_FD	326	30.0	18.50	LD Fleet Mix	180,930	5,888
Passons Blvd-L2 Grade Separation_CTF1	42	0.0	18.50	LD Fleet Mix	0	0
Passons Blvd-L2 Grade Separation_CTF2	87	0.0	18.50	LD Fleet Mix	0	0
Passons Blvd-L2 Grade Separation_CTF3	130	0.0	18.50	LD Fleet Mix	0	0
Passons Blvd-L2 Grade Separation_CTF4	326	0.0	18.50	LD Fleet Mix	0	0
Passons Blvd-L2 Grade Separation_CTF5	65	0.0	18.50	LD Fleet Mix	0	0
Passons Blvd-L2 Grade Separation_CTF6	65	0.0	18.50	LD Fleet Mix	0	0
Passons Blvd-L2 Grade Separation_CTF7	87	0.0	18.50	LD Fleet Mix	0	0
Sante Fe Springs-L2 Grade Separation_FD	326	30.0	18.50	LD Fleet Mix	180,930	5,888
Sante Fe Springs-L2 Grade Separation_CTF1	87	0.0	18.50	LD Fleet Mix	0	0
Sante Fe Springs-L2 Grade Separation_CTF2	326	0.0	18.50	LD Fleet Mix	0	0
Sante Fe Springs-L2 Grade Separation_CTF3	110	0.0	18.50	LD Fleet Mix	0	0
Sante Fe Springs-L2 Grade Separation_CTF4	132	0.0	18.50	LD Fleet Mix	0	0
Sante Fe Springs-L2 Grade Separation_CTF5	43	0.0	18.50	LD Fleet Mix	0	0
Sante Fe Springs-L2 Grade Separation_CTF6	87	0.0	18.50	LD Fleet Mix	0	0
Sante Fe Springs-L2 Grade Separation_CTF7	107	0.0	18.50	LD Fleet Mix	0	0
Telegraph Road-L2 Grade Separation_FD	390	30.0	18.50	LD Fleet Mix	216,450	7,044
Telegraph Road-L2 Grade Separation_CTF1	64	0.0	18.50	LD Fleet Mix	0	0
Telegraph Road-L2 Grade Separation_CTF2	85	0.0	18.50	LD Fleet Mix	0	0
Telegraph Road-L2 Grade Separation_CTF3	390	0.0	18.50	LD Fleet Mix	0	0
Telegraph Road-L2 Grade Separation_CTF4	43	0.0	18.50	LD Fleet Mix	0	0
Telegraph Road-L2 Grade Separation_CTF5	88	0.0	18.50	LD Fleet Mix	0	0
Telegraph Road-L2 Grade Separation_CTF6	217	0.0	18.50	LD Fleet Mix	0	0
Valley View Ave-L2 Grade Separation_FD	326	30.0	18.50	LD Fleet Mix	180,930	5,888
Valley View Ave-L2 Grade Separation_CTF1	44	0.0	18.50	LD Fleet Mix	0	0
Valley View Ave-L2 Grade Separation_CTF2	326	0.0	18.50	LD Fleet Mix	0	0
Valley View Ave-L2 Grade Separation_CTF3	43	0.0	18.50	LD Fleet Mix	0	0
Valley View Ave-L2 Grade Separation_CTF4	66	0.0	18.50	LD Fleet Mix	0	0
Valley View Ave-L2 Grade Separation_CTF5	64	0.0	18.50	LD Fleet Mix	0	0
Valley View Ave-L2 Grade Separation_CTF6	107	0.0	18.50	LD Fleet Mix	0	0
Valley View Ave-L2 Grade Separation_CTF7	151	0.0	18.50	LD Fleet Mix	0	0
Valley View Ave-L2 Grade Separation_CTF8	216	0.0	18.50	LD Fleet Mix	0	0
Valley View Ave-L2 Grade Separation_CTF9	43	0.0	18.50	LD Fleet Mix	0	0

Phase	Days/year	Vehicle Trips per day (In/Out)	Trip Length (miles)	Vehicle Category	VMT	Onroad Travel Consumption (gal)
Valley View Ave-L2 Grade Separation_CTF10	66	0.0	18.50	LD Fleet Mix	0	0
Beach Blvd-L2 Grade Separation_FD	261	30.0	18.50	LD Fleet Mix	144,855	4,714
Beach Blvd-L2 Grade Separation_CTF1	43	0.0	18.50	LD Fleet Mix	0	0
Beach Blvd-L2 Grade Separation_CTF2	87	0.0	18.50	LD Fleet Mix	0	0
Beach Blvd-L2 Grade Separation_CTF3	109	0.0	18.50	LD Fleet Mix	0	0
Beach Blvd-L2 Grade Separation_CTF4	261	0.0	18.50	LD Fleet Mix	0	0
Beach Blvd-L2 Grade Separation_CTF5	109	0.0	18.50	LD Fleet Mix	0	0
Beach Blvd-L2 Grade Separation_CTF6	109	0.0	18.50	LD Fleet Mix	0	0
Gilbert St-L2 Grade Separation_FD	390	30.0	18.50	LD Fleet Mix	216,450	7,044
Gilbert St-L2 Grade Separation_CTF1	43	0.0	18.50	LD Fleet Mix	0	0
Gilbert St-L2 Grade Separation_CTF2	86	0.0	18.50	LD Fleet Mix	0	0
Gilbert St-L2 Grade Separation_CTF3	130	0.0	18.50	LD Fleet Mix	0	0
Gilbert St-L2 Grade Separation_CTF4	390	0.0	18.50	LD Fleet Mix	0	0
Gilbert St-L2 Grade Separation_CTF5	216	0.0	18.50	LD Fleet Mix	0	0
Gilbert St-L2 Grade Separation_CTF6	132	0.0	18.50	LD Fleet Mix	0	0
Gilbert St-L2 Grade Separation_CTF7	218	0.0	19.50	LD Fleet Mix	0	0
Euclid St-L2 Grade Separation_FD	391	30.0	18.50	LD Fleet Mix	217,005	7,062
Euclid St-L2 Grade Separation_CTF1	262	0.0	18.50	LD Fleet Mix	0	0
Euclid St-L2 Grade Separation_CTF2	283	0.0	18.50	LD Fleet Mix	0	0
Euclid St-L2 Grade Separation_CTF3	326	0.0	18.50	LD Fleet Mix	0	0
Euclid St-L2 Grade Separation_CTF4	391	0.0	18.50	LD Fleet Mix	0	0
Euclid St-L2 Grade Separation_CTF5	43	0.0	18.50	LD Fleet Mix	0	0
Euclid St-L2 Grade Separation_CTF6	88	0.0	18.50	LD Fleet Mix	0	0
Euclid St-L2 Grade Separation_CTF7	43	0.0	18.50	LD Fleet Mix	0	0
Euclid St-L2 Grade Separation_CTF8	154	0.0	18.50	LD Fleet Mix	0	0
Lemon St-L2 Grade Separation_FD	650	40.0	18.50	LD Fleet Mix	481,000	15,654
Lemon St-L2 Grade Separation_CTF1	238	0.0	18.50	LD Fleet Mix	0	0
Lemon St-L2 Grade Separation_CTF2	650	0.0	18.50	LD Fleet Mix	0	0
Lemon St-L2 Grade Separation_CTF3	79	0.0	18.50	LD Fleet Mix	0	0
Lemon St-L2 Grade Separation_CTF4	261	0.0	18.50	LD Fleet Mix	0	0
Lemon St-L2 Grade Separation_CTF5	109	0.0	18.50	LD Fleet Mix	0	0
Lemon St-L2 Grade Separation_CTF6	132	0.0	18.50	LD Fleet Mix	0	0
Lemon St-L2 Grade Separation_CTF7	305	0.0	18.50	LD Fleet Mix	0	0
Atlantic Blvd-L3 Grade Separation_FD	328	40.0	18.50	LD Fleet Mix	242,720	7,899
Atlantic Blvd-L3 Grade Separation_CTF1	132	0.0	18.50	LD Fleet Mix	0	0

Phase	Days/year	Vehicle Trips per day (In/Out)	Trip Length (miles)	Vehicle Category	VMT	Onroad Travel Consumption (gal)
Atlantic Blvd-L3 Grade Separation_CTF2	154	0.0	18.50	LD Fleet Mix	0	0
Atlantic Blvd-L3 Grade Separation_CTF3	219	0.0	18.50	LD Fleet Mix	0	0
Atlantic Blvd-L3 Grade Separation_CTF4	328	0.0	18.50	LD Fleet Mix	0	0
Atlantic Blvd-L3 Grade Separation_CTF5	66	0.0	18.50	LD Fleet Mix	0	0
Atlantic Blvd-L3 Grade Separation_CTF6	86	0.0	18.50	LD Fleet Mix	0	0
Atlantic Blvd-L3 Grade Separation_CTF7	131	0.0	18.50	LD Fleet Mix	0	0
Atlantic Blvd-L3 Grade Separation_CTF8	174	0.0	18.50	LD Fleet Mix	0	0
Atlantic Blvd-L3 Grade Separation_CTF9	261	0.0	18.50	LD Fleet Mix	0	0
Rosemead Blvd-L3 Grade Separation_FD	521	40.0	18.50	LD Fleet Mix	385,540	12,547
Rosemead Blvd-L3 Grade Separation_CTF1	108	0.0	18.50	LD Fleet Mix	0	0
Rosemead Blvd-L3 Grade Separation_CTF2	521	0.0	18.50	LD Fleet Mix	0	0
Rosemead Blvd-L3 Grade Separation_CTF3	63	0.0	18.50	LD Fleet Mix	0	0
Rosemead Blvd-L3 Grade Separation_CTF4	108	0.0	18.50	LD Fleet Mix	0	0
Rosemead Blvd-L3 Grade Separation_CTF5	433	0.0	18.50	LD Fleet Mix	0	0
Rosemead Blvd-L3 Grade Separation_CTF6	66	0.0	18.50	LD Fleet Mix	0	0
Rosemead Blvd-L3 Grade Separation_CTF7	86	0.0	18.50	LD Fleet Mix	0	0
Rosemead Blvd-L3 Grade Separation_CTF8	413	0.0	18.50	LD Fleet Mix	0	0
Rosemead Blvd-L3 Grade Separation_CTF9	45	0.0	18.50	LD Fleet Mix	0	0
Rosemead Blvd-L3 Grade Separation_CTF10	260	0.0	18.50	LD Fleet Mix	0	0
Rosemead Blvd-L3 Grade Separation_CTF11	109	0.0	18.50	LD Fleet Mix	0	0
Rosemead Blvd-L3 Grade Separation_CTF12	22	0.0	18.50	LD Fleet Mix	0	0
Rosemead Blvd-L3 Grade Separation_CTF13	109	0.0	18.50	LD Fleet Mix	0	0
Rosemead Blvd-L3 Grade Separation_CTF14	43	0.0	18.50	LD Fleet Mix	0	0
Rosemead Blvd-L3 Grade Separation_CTF15	86	0.0	18.50	LD Fleet Mix	0	0
Rosemead Blvd-L3 Grade Separation_CTF16	66	0.0	18.50	LD Fleet Mix	0	0
Slauson Ave-L3 Grade Separation_FD	347	30.0	18.50	LD Fleet Mix	192,585	6,268
Slauson Ave-L3 Grade Separation_CTF1	109	0.0	18.50	LD Fleet Mix	0	0
Slauson Ave-L3 Grade Separation_CTF2	347	0.0	18.50	LD Fleet Mix	0	0
Slauson Ave-L3 Grade Separation_CTF3	65	0.0	18.50	LD Fleet Mix	0	0
Slauson Ave-L3 Grade Separation_CTF4	87	0.0	18.50	LD Fleet Mix	0	0
Slauson Ave-L3 Grade Separation_CTF5	109	0.0	18.50	LD Fleet Mix	0	0
Slauson Ave-L3 Grade Separation_CTF6	109	0.0	18.50	LD Fleet Mix	0	0
Slauson Ave-L3 Grade Separation_CTF7	173	0.0	18.50	LD Fleet Mix	0	0
Carmenita Rd-L3 Grade Separation_FD	521	40.0	18.50	LD Fleet Mix	385,540	12,547
Carmenita Rd-L3 Grade Separation_CTF1	109	0.0	18.50	LD Fleet Mix	0	0

Phase	Days/year	Vehicle Trips per day (In/Out)	Trip Length (miles)	Vehicle Category	VMT	Onroad Travel Consumption (gal)
Carmenita Rd-L3 Grade Separation_CTF2	196	0.0	18.50	LD Fleet Mix	0	0
Carmenita Rd-L3 Grade Separation_CTF3	218	0.0	18.50	LD Fleet Mix	0	0
Carmenita Rd-L3 Grade Separation_CTF4	521	0.0	18.50	LD Fleet Mix	0	0
Carmenita Rd-L3 Grade Separation_CTF5	195	0.0	18.50	LD Fleet Mix	0	0
Carmenita Rd-L3 Grade Separation_CTF6	304	0.0	18.50	LD Fleet Mix	0	0
Carmenita Rd-L3 Grade Separation_CTF7	66	0.0	18.50	LD Fleet Mix	0	0
Carmenita Rd-L3 Grade Separation_CTF8	87	0.0	18.50	LD Fleet Mix	0	0
Carmenita Rd-L3 Grade Separation_CTF9	368	0.0	18.50	LD Fleet Mix	0	0
Carmenita Rd-L3 Grade Separation_CTF10	108	0.0	18.50	LD Fleet Mix	0	0
Carmenita Rd-L3 Grade Separation_CTF11	195	0.0	18.50	LD Fleet Mix	0	0
Alondra Blvd-L3 Grade Separation_FD	652	60.0	18.50	LD Fleet Mix	723,720	23,553
Alondra Blvd-L3 Grade Separation_CTF1	153	0.0	18.50	LD Fleet Mix	0	0
Alondra Blvd-L3 Grade Separation_CTF2	217	0.0	18.50	LD Fleet Mix	0	0
Alondra Blvd-L3 Grade Separation_CTF3	261	0.0	18.50	LD Fleet Mix	0	0
Alondra Blvd-L3 Grade Separation_CTF4	327	0.0	18.50	LD Fleet Mix	0	0
Alondra Blvd-L3 Grade Separation_CTF5	587	0.0	18.50	LD Fleet Mix	0	0
Alondra Blvd-L3 Grade Separation_CTF6	652	0.0	18.50	LD Fleet Mix	0	0
Alondra Blvd-L3 Grade Separation_CTF7	44	0.0	18.50	LD Fleet Mix	0	0
Alondra Blvd-L3 Grade Separation_CTF8	174	0.0	18.50	LD Fleet Mix	0	0
Alondra Blvd-L3 Grade Separation_CTF9	217	0.0	18.50	LD Fleet Mix	0	0
Alondra Blvd-L3 Grade Separation_CTF10	478	0.0	18.50	LD Fleet Mix	0	0
Alondra Blvd-L3 Grade Separation_CTF11	565	0.0	18.50	LD Fleet Mix	0	0
Alondra Blvd-L3 Grade Separation_CTF12	43	0.0	18.50	LD Fleet Mix	0	0
Dale St-L3 Grade Separation_FD	326	40.0	18.50	LD Fleet Mix	241,240	7,851
Dale St-L3 Grade Separation_CTF1	21	0.0	18.50	LD Fleet Mix	0	0
Dale St-L3 Grade Separation_CTF2	43	0.0	18.50	LD Fleet Mix	0	0
Dale St-L3 Grade Separation_CTF3	86	0.0	18.50	LD Fleet Mix	0	0
Dale St-L3 Grade Separation_CTF4	109	0.0	18.50	LD Fleet Mix	0	0
Dale St-L3 Grade Separation_CTF5	174	0.0	18.50	LD Fleet Mix	0	0
Dale St-L3 Grade Separation_CTF6	218	0.0	18.50	LD Fleet Mix	0	0
Dale St-L3 Grade Separation_CTF7	217	0.0	18.50	LD Fleet Mix	0	0
Dale St-L3 Grade Separation_CTF8	110	0.0	18.50	LD Fleet Mix	0	0
Dale St-L3 Grade Separation_CTF9	77	0.0	18.50	LD Fleet Mix	0	0
Commonwealth Ave-L3 Grade Separation_FD	522	72.0	18.50	LD Fleet Mix	695,304	22,628
Commonwealth Ave-L3 Grade Separation_CTF1	132	0.0	18.50	LD Fleet Mix	0	0

Phase	Days/year	Vehicle Trips per day (In/Out)	Trip Length (miles)	Vehicle Category	VMT	Onroad Travel Consumption (gal)
Commonwealth Ave-L3 Grade Separation_CTF2	261	0.0	18.50	LD Fleet Mix	0	0
Commonwealth Ave-L3 Grade Separation_CTF3	522	0.0	18.50	LD Fleet Mix	0	0
Commonwealth Ave-L3 Grade Separation_CTF4	260	0.0	18.50	LD Fleet Mix	0	0
Commonwealth Ave-L3 Grade Separation_CTF5	152	0.0	18.50	LD Fleet Mix	0	0
Commonwealth Ave-L3 Grade Separation_CTF6	43	0.0	18.50	LD Fleet Mix	0	0
Commonwealth Ave-L3 Grade Separation_CTF7	195	0.0	18.50	LD Fleet Mix	0	0
Commonwealth Ave-L3 Grade Separation_CTF8	86	0.0	18.50	LD Fleet Mix	0	0
Commonwealth Ave-L3 Grade Separation_CTF9	85	0.0	18.50	LD Fleet Mix	0	0
Commonwealth Ave-L3 Grade Separation_CTF10	870	0.0	18.50	LD Fleet Mix	0	0
Commonwealth Ave-L3 Grade Separation_CTF11	43	0.0	18.50	LD Fleet Mix	0	0
Highland Ave-L3 Grade Separation_FD	651	50.0	18.50	LD Fleet Mix	602,175	19,598
Highland Ave-L3 Grade Separation_CTF1	152	0.0	18.50	LD Fleet Mix	0	0
Highland Ave-L3 Grade Separation_CTF2	130	0.0	18.50	LD Fleet Mix	0	0
Highland Ave-L3 Grade Separation_CTF3	260	0.0	18.50	LD Fleet Mix	0	0
Highland Ave-L3 Grade Separation_CTF4	651	0.0	18.50	LD Fleet Mix	0	0
Highland Ave-L3 Grade Separation_CTF5	630	0.0	18.50	LD Fleet Mix	0	0
Highland Ave-L3 Grade Separation_CTF6	66	0.0	18.50	LD Fleet Mix	0	0
Highland Ave-L3 Grade Separation_CTF7	132	0.0	18.50	LD Fleet Mix	0	0
Highland Ave-L3 Grade Separation_CTF8	154	0.0	18.50	LD Fleet Mix	0	0
Highland Ave-L3 Grade Separation_CTF9	174	0.0	18.50	LD Fleet Mix	0	0
Highland Ave-L3 Grade Separation_CTF10	130	0.0	18.50	LD Fleet Mix	0	0
Highland Ave-L3 Grade Separation_CTF11	261	0.0	18.50	LD Fleet Mix	0	0
Highland Ave-L3 Grade Separation_CTF12	217	0.0	18.50	LD Fleet Mix	0	0
Highland Ave-L3 Grade Separation_CTF13	174	0.0	18.50	LD Fleet Mix	0	0
Harbor Blvd-L3 Grade Separation_FD	522	40.0	18.50	LD Fleet Mix	386,280	12,571
Harbor Blvd-L3 Grade Separation_CTF1	217	0.0	18.50	LD Fleet Mix	0	0
Harbor Blvd-L3 Grade Separation_CTF2	522	0.0	18.50	LD Fleet Mix	0	0
Harbor Blvd-L3 Grade Separation_CTF3	173	0.0	18.50	LD Fleet Mix	0	0
Harbor Blvd-L3 Grade Separation_CTF4	217	0.0	18.50	LD Fleet Mix	0	0
Harbor Blvd-L3 Grade Separation_CTF5	173	0.0	18.50	LD Fleet Mix	0	0
Douglass Rd-L3 Grade Separation_FD	392	50.0	18.50	LD Fleet Mix	362,600	11,801
Douglass Rd-L3 Grade Separation_CTF1	131	0.0	18.50	LD Fleet Mix	0	0
Douglass Rd-L3 Grade Separation_CTF2	218	0.0	18.50	LD Fleet Mix	0	0
Douglass Rd-L3 Grade Separation_CTF3	262	0.0	18.50	LD Fleet Mix	0	0
Douglass Rd-L3 Grade Separation_CTF4	392	0.0	18.50	LD Fleet Mix	0	0

Phase	Days/year	Vehicle Trips per day (In/Out)	Trip Length (miles)	Vehicle Category	VMT	Onroad Travel Consumption (gal)
Douglass Rd-L3 Grade Separation_CTF5	434	0.0	18.50	LD Fleet Mix	0	0
Douglass Rd-L3 Grade Separation_CTF6	43	0.0	18.50	LD Fleet Mix	0	0
Douglass Rd-L3 Grade Separation_CTF7	174	0.0	18.50	LD Fleet Mix	0	0
Douglass Rd-L3 Grade Separation_CTF8	130	0.0	18.50	LD Fleet Mix	0	0
Douglass Rd-L3 Grade Separation_CTF9	175	0.0	18.50	LD Fleet Mix	0	0
Douglass Rd-L3 Grade Separation_CTF10	196	0.0	18.50	LD Fleet Mix	0	0
Douglass Rd-L3 Grade Separation_CTF11	64	0.0	18.50	LD Fleet Mix	0	0
Pioneer Blvd-L4 Grade Separation_FD	654	60.0	18.50	LD Fleet Mix	725,940	23,625
Pioneer Blvd-L4 Grade Separation_CTF1	262	0.0	18.50	LD Fleet Mix	0	0
Pioneer Blvd-L4 Grade Separation_CTF2	349	0.0	18.50	LD Fleet Mix	0	0
Pioneer Blvd-L4 Grade Separation_CTF3	654	0.0	18.50	LD Fleet Mix	0	0
Pioneer Blvd-L4 Grade Separation_CTF4	132	0.0	18.50	LD Fleet Mix	0	0
Pioneer Blvd-L4 Grade Separation_CTF5	153	0.0	18.50	LD Fleet Mix	0	0
Pioneer Blvd-L4 Grade Separation_CTF6	262	0.0	18.50	LD Fleet Mix	0	0
Pioneer Blvd-L4 Grade Separation_CTF7	131	0.0	18.50	LD Fleet Mix	0	0
Pioneer Blvd-L4 Grade Separation_CTF8	174	0.0	18.50	LD Fleet Mix	0	0
Pioneer Blvd-L4 Grade Separation_CTF9	479	0.0	18.50	LD Fleet Mix	0	0
Pioneer Blvd-L4 Grade Separation_CTF10	457	0.0	18.50	LD Fleet Mix	0	0
Pioneer Blvd-L4 Grade Separation_CTF11	130	0.0	18.50	LD Fleet Mix	0	0
Pioneer Blvd-L4 Grade Separation_CTF12	349	0.0	18.50	LD Fleet Mix	0	0
Pioneer Blvd-L4 Grade Separation_CTF13	175	0.0	18.50	LD Fleet Mix	0	0
Pioneer Blvd-L4 Grade Separation_CTF14	107	0.0	18.50	LD Fleet Mix	0	0
Pioneer Blvd-L4 Grade Separation_CTF15	44	0.0	18.50	LD Fleet Mix	0	0
Pioneer Blvd-L4 Grade Separation_CTF16	66	0.0	18.50	LD Fleet Mix	0	0
Norwalk Blvd-L4 Grade Separation_FD	782	72.0	18.50	LD Fleet Mix	1,041,624	33,899
Norwalk Blvd-L4 Grade Separation_CTF1	131	0.0	18.50	LD Fleet Mix	0	0
Norwalk Blvd-L4 Grade Separation_CTF2	152	0.0	18.50	LD Fleet Mix	0	0
Norwalk Blvd-L4 Grade Separation_CTF3	391	0.0	18.50	LD Fleet Mix	0	0
Norwalk Blvd-L4 Grade Separation_CTF4	542	0.0	18.50	LD Fleet Mix	0	0
Norwalk Blvd-L4 Grade Separation_CTF5	782	0.0	18.50	LD Fleet Mix	0	0
Norwalk Blvd-L4 Grade Separation_CTF6	131	0.0	18.50	LD Fleet Mix	0	0
Norwalk Blvd-L4 Grade Separation_CTF7	107	0.0	18.50	LD Fleet Mix	0	0
Norwalk Blvd-L4 Grade Separation_CTF8	130	0.0	18.50	LD Fleet Mix	0	0
Norwalk Blvd-L4 Grade Separation_CTF9	390	0.0	18.50	LD Fleet Mix	0	0
Norwalk Blvd-L4 Grade Separation_CTF10	130	0.0	18.50	LD Fleet Mix	0	0

Phase	Days/year	Vehicle Trips per day (In/Out)	Trip Length (miles)	Vehicle Category	VMT	Onroad Travel Consumption (gal)
Norwalk Blvd-L4 Grade Separation_CTF11	218	0.0	18.50	LD Fleet Mix	0	0
Los Nietos Rd-L4 Grade Separation_FD	782	72.0	18.50	LD Fleet Mix	1,041,624	33,899
Los Nietos Rd-L4 Grade Separation_CTF1	131	0.0	18.50	LD Fleet Mix	0	0
Los Nietos Rd-L4 Grade Separation_CTF2	152	0.0	18.50	LD Fleet Mix	0	0
Los Nietos Rd-L4 Grade Separation_CTF3	391	0.0	18.50	LD Fleet Mix	0	0
Los Nietos Rd-L4 Grade Separation_CTF4	542	0.0	18.50	LD Fleet Mix	0	0
Los Nietos Rd-L4 Grade Separation_CTF5	782	0.0	18.50	LD Fleet Mix	0	0
Los Nietos Rd-L4 Grade Separation_CTF6	131	0.0	18.50	LD Fleet Mix	0	0
Los Nietos Rd-L4 Grade Separation_CTF7	107	0.0	18.50	LD Fleet Mix	0	0
Los Nietos Rd-L4 Grade Separation_CTF8	130	0.0	18.50	LD Fleet Mix	0	0
Los Nietos Rd-L4 Grade Separation_CTF9	390	0.0	18.50	LD Fleet Mix	0	0
Los Nietos Rd-L4 Grade Separation_CTF10	130	0.0	18.50	LD Fleet Mix	0	0
Los Nietos Rd-L4 Grade Separation_CTF11	218	0.0	18.50	LD Fleet Mix	0	0
Cerritos Ave-L4 Grade Separation_FD	783	72.0	18.50	LD Fleet Mix	1,042,956	33,943
Cerritos Ave-L4 Grade Separation_CTF1	130	0.0	18.50	LD Fleet Mix	0	0
Cerritos Ave-L4 Grade Separation_CTF2	130	0.0	18.50	LD Fleet Mix	0	0
Cerritos Ave-L4 Grade Separation_CTF3	283	0.0	18.50	LD Fleet Mix	0	0
Cerritos Ave-L4 Grade Separation_CTF4	391	0.0	18.50	LD Fleet Mix	0	0
Cerritos Ave-L4 Grade Separation_CTF5	500	0.0	18.50	LD Fleet Mix	0	0
Cerritos Ave-L4 Grade Separation_CTF6	783	0.0	18.50	LD Fleet Mix	0	0
Cerritos Ave-L4 Grade Separation_CTF7	129	0.0	18.50	LD Fleet Mix	0	0
Cerritos Ave-L4 Grade Separation_CTF8	434	0.0	18.50	LD Fleet Mix	0	0
Cerritos Ave-L4 Grade Separation_CTF9	129	0.0	18.50	LD Fleet Mix	0	0
Cerritos Ave-L4 Grade Separation_CTF10	172	0.0	18.50	LD Fleet Mix	0	0
Cerritos Ave-L4 Grade Separation_CTF11	238	0.0	18.50	LD Fleet Mix	0	0
Cerritos Ave-L4 Grade Separation_CTF12	261	0.0	18.50	LD Fleet Mix	0	0
Cerritos Ave-L4 Grade Separation_CTF13	196	0.0	18.50	LD Fleet Mix	0	0
Cerritos Ave-L4 Grade Separation_CTF14	89	0.0	18.50	LD Fleet Mix	0	0
Cerritos Ave-L4 Grade Separation_CTF15	132	0.0	18.50	LD Fleet Mix	0	0
Cerritos Ave-L4 Grade Separation_CTF16	87	0.0	18.50	LD Fleet Mix	0	0
Cerritos Ave-L4 Grade Separation_CTF17	218	0.0	18.50	LD Fleet Mix	0	0
Cerritos Ave-L4 Grade Separation_CTF18	131	0.0	18.50	LD Fleet Mix	0	0
Lewis St-L4 Grade Separation_FD	390	72.0	18.50	LD Fleet Mix	519,480	16,906
Lewis St-L4 Grade Separation_CTF1	41	0.0	18.50	LD Fleet Mix	0	0
Lewis St-L4 Grade Separation_CTF2	260	0.0	18.50	LD Fleet Mix	0	0

Phase	Days/year	Vehicle Trips per day (In/Out)	Trip Length (miles)	Vehicle Category	VMT	Onroad Travel Consumption (gal)
Lewis St-L4 Grade Separation_CTF3	65	0.0	18.50	LD Fleet Mix	0	0
Lewis St-L4 Grade Separation_CTF4	175	0.0	18.50	LD Fleet Mix	0	0
Lewis St-L4 Grade Separation_CTF5	21	0.0	18.50	LD Fleet Mix	0	0
Lewis St-L4 Grade Separation_CTF6	44	0.0	18.50	LD Fleet Mix	0	0
Lewis St-L4 Grade Separation_CTF7	109	0.0	18.50	LD Fleet Mix	0	0
Lewis St-L4 Grade Separation_CTF8	261	0.0	18.50	LD Fleet Mix	0	0
Lewis St-L4 Grade Separation_CTF9	131	0.0	18.50	LD Fleet Mix	0	0
Lewis St-L4 Grade Separation_CTF10	163	0.0	18.50	LD Fleet Mix	0	0
Lewis St-L4 Grade Separation_CTF11	88	0.0	18.50	LD Fleet Mix	0	0
Lewis St-L4 Grade Separation_CTF12	240	0.0	18.50	LD Fleet Mix	0	0
Lewis St-L4 Grade Separation_CTF13	65	0.0	18.50	LD Fleet Mix	0	0
Lewis St-L4 Grade Separation_CTF14	195	0.0	18.50	LD Fleet Mix	0	0
Lewis St-L4 Grade Separation_CTF15	87	0.0	18.50	LD Fleet Mix	0	0
State College Blvd-L4 Grade Separation_FD	783	72.0	18.50	LD Fleet Mix	1,042,956	33,943
State College Blvd-L4 Grade Separation_CTF1	173	0.0	18.50	LD Fleet Mix	0	0
State College Blvd-L4 Grade Separation_CTF2	523	0.0	18.50	LD Fleet Mix	0	0
State College Blvd-L4 Grade Separation_CTF3	783	0.0	18.50	LD Fleet Mix	0	0
State College Blvd-L4 Grade Separation_CTF4	412	0.0	18.50	LD Fleet Mix	0	0
State College Blvd-L4 Grade Separation_CTF5	197	0.0	18.50	LD Fleet Mix	0	0
State College Blvd-L4 Grade Separation_CTF6	219	0.0	18.50	LD Fleet Mix	0	0
State College Blvd-L4 Grade Separation_CTF7	153	0.0	18.50	LD Fleet Mix	0	0
State College Blvd-L4 Grade Separation_CTF8	108	0.0	18.50	LD Fleet Mix	0	0
State College Blvd-L4 Grade Separation_CTF9	217	0.0	18.50	LD Fleet Mix	0	0
State College Blvd-L4 Grade Separation_CTF10	304	0.0	18.50	LD Fleet Mix	0	0
State College Blvd-L4 Grade Separation_CTF11	261	0.0	18.50	LD Fleet Mix	0	0
State College Blvd-L4 Grade Separation_CTF12	129	0.0	18.50	LD Fleet Mix	0	0
State College Blvd-L4 Grade Separation_CTF13	129	0.0	18.50	LD Fleet Mix	0	0
State College Blvd-L4 Grade Separation_CTF14	239	0.0	18.50	LD Fleet Mix	0	0
State College Blvd-L4 Grade Separation_CTF15	87	0.0	18.50	LD Fleet Mix	0	0
Katella Ave-L4 Grade Separation_FD	651	60.0	18.50	LD Fleet Mix	722,610	23,517
Katella Ave-L4 Grade Separation_CTF1	85	0.0	18.50	LD Fleet Mix	0	0
Katella Ave-L4 Grade Separation_CTF2	260	0.0	18.50	LD Fleet Mix	0	0
Katella Ave-L4 Grade Separation_CTF3	390	0.0	18.50	LD Fleet Mix	0	0
Katella Ave-L4 Grade Separation_CTF4	651	0.0	18.50	LD Fleet Mix	0	0
Katella Ave-L4 Grade Separation_CTF5	175	0.0	18.50	LD Fleet Mix	0	0

Phase	Days/year	Vehicle Trips per day (In/Out)	Trip Length (miles)	Vehicle Category	VMT	Onroad Travel Consumption (gal)
Katella Ave-L4 Grade Separation_CTF6	130	0.0	18.50	LD Fleet Mix	0	0
Katella Ave-L4 Grade Separation_CTF7	195	0.0	18.50	LD Fleet Mix	0	0
Katella Ave-L4 Grade Separation_CTF8	65	0.0	18.50	LD Fleet Mix	0	0
Katella Ave-L4 Grade Separation_CTF9	87	0.0	18.50	LD Fleet Mix	0	0
Katella Ave-L4 Grade Separation_CTF10	65	0.0	18.50	LD Fleet Mix	0	0
Redondo Junction-L1 Water Crossing_FD	87	32.0	18.50	LD Fleet Mix	51,504	1,676
Redondo Junction-L1 Water Crossing_CTF1	87	0.0	18.50	LD Fleet Mix	0	0
Coyote Creek-L1Water Crossing_FD	131	32.0	18.50	LD Fleet Mix	77,552	2,524
Coyote Creek-L1Water Crossing_CTF1	66	0.0	18.50	LD Fleet Mix	0	0
Coyote Creek-L1Water Crossing_CTF2	131	0.0	18.50	LD Fleet Mix	0	0
Coyote Creek-L1Water Crossing_CTF3	21	0.0	18.50	LD Fleet Mix	0	0
Carbon Creek-L1 Water Crossing_FD	89	32.0	18.50	LD Fleet Mix	52,688	1,715
Carbon Creek-L1 Water Crossing_CTF1	89	0.0	18.50	LD Fleet Mix	0	0
San Gabriel River-L2 Water Crossing_FD	457	40.0	18.50	LD Fleet Mix	338,180	11,006
San Gabriel River-L2 Water Crossing_CTF1	65	0.0	18.50	LD Fleet Mix	0	0
San Gabriel River-L2 Water Crossing_CTF2	87	0.0	18.50	LD Fleet Mix	0	0
San Gabriel River-L2 Water Crossing_CTF3	108	0.0	18.50	LD Fleet Mix	0	0
San Gabriel River-L2 Water Crossing_CTF4	152	0.0	18.50	LD Fleet Mix	0	0
San Gabriel River-L2 Water Crossing_CTF5	347	0.0	18.50	LD Fleet Mix	0	0
San Gabriel River-L2 Water Crossing_CTF6	435	0.0	18.50	LD Fleet Mix	0	0
San Gabriel River-L2 Water Crossing_CTF7	457	0.0	18.50	LD Fleet Mix	0	0
San Gabriel River-L2 Water Crossing_CTF8	110	0.0	18.50	LD Fleet Mix	0	0
San Gabriel River-L2 Water Crossing_CTF9	175	0.0	18.50	LD Fleet Mix	0	0
Rio Hondo SG-L3 Water Crossing_FD	325	30.0	18.50	LD Fleet Mix	180,375	5,870
Rio Hondo SG-L3 Water Crossing_CTF1	150	0.0	18.50	LD Fleet Mix	0	0
Rio Hondo SG-L3 Water Crossing_CTF2	216	0.0	18.50	LD Fleet Mix	0	0
Rio Hondo SG-L3 Water Crossing_CTF3	325	0.0	18.50	LD Fleet Mix	0	0
Rio Hondo River-L3 Water Crossing_FD	325	40.0	18.50	LD Fleet Mix	240,500	7,827
Rio Hondo River-L3 Water Crossing_CTF1	150	0.0	18.50	LD Fleet Mix	0	0
Rio Hondo River-L3 Water Crossing_CTF2	325	0.0	18.50	LD Fleet Mix	0	0
Rio Hondo River-L3 Water Crossing_CTF3	65	0.0	18.50	LD Fleet Mix	0	0
Rio Hondo River-L3 Water Crossing_CTF4	86	0.0	18.50	LD Fleet Mix	0	0
Rio Hondo River-L3 Water Crossing_CTF5	108	0.0	18.50	LD Fleet Mix	0	0
Rio Hondo River-L3 Water Crossing_CTF6	173	0.0	18.50	LD Fleet Mix	0	0
Coyote Creek-N Fork-L3 Water Crossing_FD	260	40.0	18.50	LD Fleet Mix	192,400	6,262

Phase	Days/year	Vehicle Trips per day (In/Out)	Trip Length (miles)	Vehicle Category	VMT	Onroad Travel Consumption (gal)
Coyote Creek-N Fork-L3 Water Crossing_CTF1	85	0.0	18.50	LD Fleet Mix	0	0
Coyote Creek-N Fork-L3 Water Crossing_CTF2	108	0.0	18.50	LD Fleet Mix	0	0
Coyote Creek-N Fork-L3 Water Crossing_CTF3	260	0.0	18.50	LD Fleet Mix	0	0
Coyote Creek-N Fork-L3 Water Crossing_CTF4	455	0.0	18.50	LD Fleet Mix	0	0
Coyote Creek-N Fork-L3 Water Crossing_CTF5	63	0.0	18.50	LD Fleet Mix	0	0
Coyote Creek-N Fork-L3 Water Crossing_CTF6	173	0.0	18.50	LD Fleet Mix	0	0
Coyote Creek-N Fork-L3 Water Crossing_CTF7	218	0.0	18.50	LD Fleet Mix	0	0
La Mirada Creek-L3 Water Crossing_FD	260	40.0	18.50	LD Fleet Mix	192,400	6,262
La Mirada Creek-L3 Water Crossing_CTF1	87	0.0	18.50	LD Fleet Mix	0	0
La Mirada Creek-L3 Water Crossing_CTF2	130	0.0	18.50	LD Fleet Mix	0	0
La Mirada Creek-L3 Water Crossing_CTF3	260	0.0	18.50	LD Fleet Mix	0	0
La Mirada Creek-L3 Water Crossing_CTF4	43	0.0	18.50	LD Fleet Mix	0	0
Brea Creek-L3 Water Crossing_FD	325	40.0	18.50	LD Fleet Mix	240,500	7,827
Brea Creek-L3 Water Crossing_CTF1	42	0.0	18.50	LD Fleet Mix	0	0
Brea Creek-L3 Water Crossing_CTF2	108	0.0	18.50	LD Fleet Mix	0	0
Brea Creek-L3 Water Crossing_CTF3	130	0.0	18.50	LD Fleet Mix	0	0
Brea Creek-L3 Water Crossing_CTF4	217	0.0	18.50	LD Fleet Mix	0	0
Brea Creek-L3 Water Crossing_CTF5	43	0.0	18.50	LD Fleet Mix	0	0
Brea Creek-L3 Water Crossing_CTF6	43	0.0	18.50	LD Fleet Mix	0	0
Brea Creek-L3 Water Crossing_CTF7	175	0.0	18.50	LD Fleet Mix	0	0
Brea Creek-L3 Water Crossing_CTF8	392	0.0	18.50	LD Fleet Mix	0	0
Redondo Jct TPSS_FD	261	40.0	18.50	LD Fleet Mix	193,140	6,286
Redondo Jct TPSS_CTF1	216	0.0	18.50	LD Fleet Mix	0	0
Redondo Jct TPSS_CTF2	44	0.0	18.50	LD Fleet Mix	0	0
Redondo Jct TPSS_CTF3	261	0.0	18.50	LD Fleet Mix	0	0
Redondo Jct TPSS_CTF4	132	0.0	18.50	LD Fleet Mix	0	0
Redondo Jct TPSS_CTF5	20	0.0	18.50	LD Fleet Mix	0	0
Redondo Jct TPSS_CTF6	22	0.0	18.50	LD Fleet Mix	0	0
Anaheim TPSS_FD	239	40.0	18.50	LD Fleet Mix	176,860	5,756
Anaheim TPSS_CTF1	216	0.0	18.50	LD Fleet Mix	0	0
Anaheim TPSS_CTF2	44	0.0	18.50	LD Fleet Mix	0	0
Anaheim TPSS_CTF3	261	0.0	18.50	LD Fleet Mix	0	0
Anaheim TPSS_CTF4	22	0.0	18.50	LD Fleet Mix	0	0
Anaheim TPSS_CTF5	43	0.0	18.50	LD Fleet Mix	0	0
Anaheim TPSS_CTF6	132	0.0	18.50	LD Fleet Mix	0	0

Phase	Days/year	Vehicle Trips per day (In/Out)	Trip Length (miles)	Vehicle Category	VMT	Onroad Travel Consumption (gal)
Anaheim TPSS_CTF7	239	0.0	18.50	LD Fleet Mix	0	0
Anaheim TPSS_CTF8	20	0.0	18.50	LD Fleet Mix	0	0
Anaheim TPSS_CTF9	22	0.0	18.50	LD Fleet Mix	0	0
Paralleling Station #2_FD	262	40.0	18.50	LD Fleet Mix	193,880	6,310
Paralleling Station #2_CTF1	23	0.0	18.50	LD Fleet Mix	0	0
Paralleling Station #2_CTF2	108	0.0	18.50	LD Fleet Mix	0	0
Paralleling Station #2_CTF3	261	0.0	18.50	LD Fleet Mix	0	0
Paralleling Station #2_CTF4	22	0.0	18.50	LD Fleet Mix	0	0
Paralleling Station #2_CTF5	20	0.0	18.50	LD Fleet Mix	0	0
Paralleling Station #2_CTF6	22	0.0	18.50	LD Fleet Mix	0	0
Paralleling Station #4_FD	261	40.0	18.50	LD Fleet Mix	193,140	6,286
Paralleling Station #4_CTF1	23	0.0	18.50	LD Fleet Mix	0	0
Paralleling Station #4_CTF2	108	0.0	18.50	LD Fleet Mix	0	0
Paralleling Station #4_CTF3	261	0.0	18.50	LD Fleet Mix	0	0
Paralleling Station #4_CTF4	22	0.0	18.50	LD Fleet Mix	0	0
Paralleling Station #4_CTF5	20	0.0	18.50	LD Fleet Mix	0	0
Paralleling Station #4_CTF6	22	0.0	18.50	LD Fleet Mix	0	0
Switching Station_FD	129	40.0	18.50	LD Fleet Mix	95,460	3,107
Switching Station_CTF1	22	0.0	18.50	LD Fleet Mix	0	0
Switching Station_CTF2	129	0.0	18.50	LD Fleet Mix	0	0
Switching Station_CTF3	20	0.0	18.50	LD Fleet Mix	0	0
Switching Station_CTF4	44	0.0	18.50	LD Fleet Mix	0	0
Switching Station_CTF5	22	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #1_FD	66	40.0	18.50	LD Fleet Mix	48,840	1,589
Communciation Tower #1_CTF1	23	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #1_CTF2	66	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #1_CTF3	22	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #3_FD	64	40.0	18.50	LD Fleet Mix	47,360	1,541
Communciation Tower #3_CTF1	42	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #3_CTF2	64	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #3_CTF3	21	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #3_CTF4	22	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #5_FD	66	40.0	18.50	LD Fleet Mix	48,840	1,589
Communciation Tower #5_CTF1	22	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #5_CTF2	66	0.0	18.50	LD Fleet Mix	0	0

Phase	Days/year	Vehicle Trips per day (In/Out)	Trip Length (miles)	Vehicle Category	VMT	Onroad Travel Consumption (gal)
Communciation Tower #5_CTF3	23	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #5_CTF4	21	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #7_FD	86	40.0	18.50	LD Fleet Mix	63,640	2,071
Communciation Tower #7_CTF1	43	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #7_CTF2	66	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #7_CTF3	86	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #7_CTF4	65	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #7_CTF5	23	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #7_CTF6	20	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #9_FD	86	40.0	18.50	LD Fleet Mix	63,640	2,071
Communciation Tower #9_CTF1	43	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #9_CTF2	66	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #9_CTF3	86	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #9_CTF4	65	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #9_CTF5	23	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #9_CTF6	20	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #11_FD	66	40.0	18.50	LD Fleet Mix	48,840	1,589
Communciation Tower #11_CTF1	22	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #11_CTF2	66	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #11_CTF3	23	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #11_CTF4	21	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #13_FD	64	40.0	18.50	LD Fleet Mix	47,360	1,541
Communciation Tower #13_CTF1	42	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #13_CTF2	64	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #13_CTF3	21	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #13_CTF4	22	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #15_FD	66	40.0	18.50	LD Fleet Mix	48,840	1,589
Communciation Tower #15_CTF1	23	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #15_CTF2	66	0.0	18.50	LD Fleet Mix	0	0
Communciation Tower #15_CTF3	22	0.0	18.50	LD Fleet Mix	0	0
LMF Support Structures_FD	326	40.0	18.50	LD Fleet Mix	241,240	7,851
LMF Support Structures_CTF1	130	0.0	18.50	LD Fleet Mix	0	0
LMF Support Structures_CTF2	261	0.0	18.50	LD Fleet Mix	0	0
LMF Support Structures_CTF3	326	0.0	18.50	LD Fleet Mix	0	0
LMF Support Structures_CTF4	152	0.0	18.50	LD Fleet Mix	0	0

Phase	Days/year	Vehicle Trips per day (In/Out)	Trip Length (miles)	Vehicle Category	VMT	Onroad Travel Consumption (gal)
LMF Support Structures_CTF5	142	0.0	18.50	LD Fleet Mix	0	0
LMF Support Structures_CTF6	66	0.0	18.50	LD Fleet Mix	0	0
LMF Support Structures_CTF7	66	0.0	18.50	LD Fleet Mix	0	0
LMF Support Structures_CTF8	110	0.0	18.50	LD Fleet Mix	0	0
Hobart Yard Improvements_FD	861	60.0	18.50	LD Fleet Mix	955,710	31,103
Hobart Yard Improvements_CTF1	77	0.0	18.50	LD Fleet Mix	0	0
Hobart Yard Improvements_CTF2	103	0.0	18.50	LD Fleet Mix	0	0
Hobart Yard Improvements_CTF3	155	0.0	18.50	LD Fleet Mix	0	0
Hobart Yard Improvements_CTF4	861	0.0	18.50	LD Fleet Mix	0	0
Hobart Yard Improvements_CTF5	50	0.0	18.50	LD Fleet Mix	0	0
Hobart Yard Improvements_CTF6	262	0.0	18.50	LD Fleet Mix	0	0
Hobart Yard Improvements_CTF7	235	0.0	18.50	LD Fleet Mix	0	0
Hobart Yard Improvements_CTF8	208	0.0	18.50	LD Fleet Mix	0	0
Hobart Yard Improvements_CTF9	392	0.0	18.50	LD Fleet Mix	0	0
Hobart Yard Improvements_CTF10	103	0.0	18.50	LD Fleet Mix	0	0
Hobart Yard Improvements_CTF11	77	0.0	18.50	LD Fleet Mix	0	0
Hobart Yard Improvements_CTF12	208	0.0	18.50	LD Fleet Mix	0	0
Commerce Yard Improvements_Utility Relocation	367	60.0	18.50	LD Fleet Mix	407,370	13,258
Commerce Yard Improvements_CTF1	53	0.0	18.50	LD Fleet Mix	0	0
Commerce Yard Improvements_CTF2	158	0.0	18.50	LD Fleet Mix	0	0
Commerce Yard Improvements_CTF3	236	0.0	18.50	LD Fleet Mix	0	0
Commerce Yard Improvements_CTF4	314	0.0	18.50	LD Fleet Mix	0	0
Commerce Yard Improvements_CTF5	367	0.0	18.50	LD Fleet Mix	0	0
Commerce Yard Improvements_CTF6	314	0.0	18.50	LD Fleet Mix	0	0
Commerce Yard Improvements_CTF7	105	0.0	18.50	LD Fleet Mix	0	0
15th St HSR LMF_Utility Relocation	262	40.0	18.50	LD Fleet Mix	193,880	6,310
15th St HSR LMF_Site Preparation	195	80.0	18.50	LD Fleet Mix	288,600	9,392
15th St HSR LMF_Track, Tie and Ballast Installation	521	40.0	18.50	LD Fleet Mix	385,540	12,547
15th St HSR LMF_CTF1	262	0.0	18.50	LD Fleet Mix	0	0
15th St HSR LMF_CTF2	652	0.0	18.50	LD Fleet Mix	0	0
15th St HSR LMF_CTF3	912	0.0	18.50	LD Fleet Mix	0	0
15th St HSR LMF_CTF4	912	0.0	18.50	LD Fleet Mix	0	0
15th St HSR LMF_CTF5	390	0.0	18.50	LD Fleet Mix	0	0

Phase	Days/year	Vehicle Trips per day (In/Out)	Trip Length (miles)	Vehicle Category	VMT	Onroad Travel Consumption (gal)
15th St HSR LMF_CTF6	175	0.0	18.50	LD Fleet Mix	0	0
15th St HSR LMF_CTF7	131	0.0	18.50	LD Fleet Mix	0	0
15th St HSR LMF_CTF8	196	0.0	18.50	LD Fleet Mix	0	0
15th St HSR LMF_CTF9	132	0.0	18.50	LD Fleet Mix	0	0
15th St HSR LMF_CTF10	260	0.0	18.50	LD Fleet Mix	0	0
15th St HSR LMF_CTF11	175	0.0	18.50	LD Fleet Mix	0	0
15th St HSR LMF_CTF12	262	0.0	18.50	LD Fleet Mix	0	0
15th St HSR LMF_CTF13	86	0.0	18.50	LD Fleet Mix	0	0
15th St HSR LMF_CTF14	42	0.0	18.50	LD Fleet Mix	0	0
Commerce Metrolink Stn_FD	261	30.0	18.50	LD Fleet Mix	144,855	4,714
Commerce Metrolink Stn_CTF1	64	0.0	18.50	LD Fleet Mix	0	0
Commerce Metrolink Stn_CTF2	261	0.0	18.50	LD Fleet Mix	0	0
Commerce Metrolink Stn_CTF3	65	0.0	18.50	LD Fleet Mix	0	0
Commerce Metrolink Stn_CTF4	66	0.0	18.50	LD Fleet Mix	0	0
Commerce Metrolink Stn_CTF5	44	0.0	18.50	LD Fleet Mix	0	0
Norwalk-SFS Metrolink Stn_FD	651	30.0	18.50	LD Fleet Mix	361,305	11,759
Norwalk-SFS Metrolink Stn_CTF1	65	0.0	18.50	LD Fleet Mix	0	0
Norwalk-SFS Metrolink Stn_CTF2	390	0.0	18.50	LD Fleet Mix	0	0
Norwalk-SFS Metrolink Stn_CTF3	42	0.0	18.50	LD Fleet Mix	0	0
Norwalk-SFS Metrolink Stn_CTF4	22	0.0	18.50	LD Fleet Mix	0	0
Buena Park Metrolink Stn_FD	325	30.0	18.50	LD Fleet Mix	180,375	5,870
Buena Park Metrolink Stn_CTF1	65	0.0	18.50	LD Fleet Mix	0	0
Buena Park Metrolink Stn_CTF2	325	0.0	18.50	LD Fleet Mix	0	0
Buena Park Metrolink Stn_CTF3	66	0.0	18.50	LD Fleet Mix	0	0
Buena Park Metrolink Stn_CTF4	88	0.0	18.50	LD Fleet Mix	0	0
Buena Park Metrolink Stn_CTF5	23	0.0	18.50	LD Fleet Mix	0	0
ARTIC Station_FD	783	40.0	18.50	LD Fleet Mix	579,420	18,857
ARTIC Station_CTF1	151	0.0	18.50	LD Fleet Mix	0	0
ARTIC Station_CTF2	174	0.0	18.50	LD Fleet Mix	0	0
ARTIC Station_CTF3	413	0.0	18.50	LD Fleet Mix	0	0
ARTIC Station_CTF4	783	0.0	18.50	LD Fleet Mix	0	0
ARTIC Station_CTF5	107	0.0	18.50	LD Fleet Mix	0	0
ARTIC Station_CTF6	152	0.0	18.50	LD Fleet Mix	0	0
ARTIC Station_CTF7	368	0.0	18.50	LD Fleet Mix	0	0
ARTIC Station_CTF8	43	0.0	18.50	LD Fleet Mix	0	0

Phase	Days/year	Vehicle Trips per day (In/Out)	Trip Length (miles)	Vehicle Category	VMT	Onroad Travel Consumption (gal)
ARTIC Station_CTF9	66	0.0	18.50	LD Fleet Mix	0	0
ARTIC Station_CTF10	20	0.0	18.50	LD Fleet Mix	0	0
ARTIC Station_CTF11	151	0.0	18.50	LD Fleet Mix	0	0
Fullerton Metrolink Stn_FD	283	30.0	18.50	LD Fleet Mix	157,065	5,112
Fullerton Metrolink Stn_CTF1	87	0.0	18.50	LD Fleet Mix	0	0
Fullerton Metrolink Stn_CTF2	64	0.0	18.50	LD Fleet Mix	0	0
Fullerton Metrolink Stn_CTF3	44	0.0	18.50	LD Fleet Mix	0	0
Fullerton Metrolink Stn_CTF4	110	0.0	18.50	LD Fleet Mix	0	0
Fullerton Metrolink Stn_CTF5	65	0.0	19.50	LD Fleet Mix	0	0
Ballast Delivery_OutsideCA_2033	1	0.0	18.50	LD Fleet Mix	0	0
Ballast Delivery_OutsideCA_2034	1	0.0	18.50	LD Fleet Mix	0	0
Ballast Delivery_OutsideCA_2035	1	0.0	18.50	LD Fleet Mix	0	0
Ballast Delivery_OutsideCA_2036	1	0.0	18.50	LD Fleet Mix	0	0
Ballast Delivery_OutsideCA_2037	1	0.0	18.50	LD Fleet Mix	0	0
Ballast Delivery_MDAB_2033	1	0.0	18.50	LD Fleet Mix	0	0
Ballast Delivery_MDAB_2034	1	0.0	18.50	LD Fleet Mix	0	0
Ballast Delivery_MDAB_2035	1	0.0	18.50	LD Fleet Mix	0	0
Ballast Delivery_MDAB_2036	1	0.0	18.50	LD Fleet Mix	0	0
Ballast Delivery_MDAB_2037	1	0.0	18.50	LD Fleet Mix	0	0
Ballast Delivery_SCAB_2033	1	0.0	18.50	LD Fleet Mix	0	0
Ballast Delivery_SCAB_2034	1	0.0	18.50	LD Fleet Mix	0	0
Ballast Delivery_SCAB_2035	1	0.0	18.50	LD Fleet Mix	0	0
Ballast Delivery_SCAB_2036	1	0.0	18.50	LD Fleet Mix	0	0
Ballast Delivery_SCAB_2037	1	0.0	18.50	LD Fleet Mix	0	0
Ballast Dumping_SCAB_2033	1	0.0	18.50	LD Fleet Mix	0	0
Ballast Dumping_SCAB_2034	1	0.0	18.50	LD Fleet Mix	0	0
Ballast Dumping_SCAB_2035	1	0.0	18.50	LD Fleet Mix	0	0
Ballast Dumping_SCAB_2036	1	0.0	18.50	LD Fleet Mix	0	0
Ballast Dumping_SCAB_2037	1	0.0	18.50	LD Fleet Mix	0	0
				Total VMT:	**26,655,022**	**867,478**

1. CARB, EMFAC2021 (SCAQMD; LDA/LDT1/LDT2; Annual; CY 2031; Aggregate MY; Aggregate Speed,GAS)
2. Department of Energy, Fact #861, 2015 Idle Fuel Consumption for Selected Gasoline and Diesel Vehicles, February 23, 2015.
https://www.energy.gov/eere/vehicles/fact-861-february-23-2015-idle-fuel-consumption-selected-gasoline-and-diesel-vehicles

Idling Fuel Consumption Factors

VEHICLE TYPE	FUEL TYPE	ENGINE SIZE (LITER)	GROSS VEHICLE WEIGHT (GVW) (LBS)	IDLING FUEL USE (GAL/HR WITH NO LOAD)
Compact Sedan	Gas	2	-	0.16
Large Sedan	Gas	4.6	-	0.39
Compact Sedan	Diesel	2	-	0.17
Medium Heavy Truck	Gas	7-May	19,700-26,000	0.84
Delivery Truck	Diesel	-	19,500	0.84
Tow Truck	Diesel	-	26,000	0.59
Medium Heavy Truck	Diesel	10-Jun	23,000-33,000	0.44
Transit Bus	Diesel	-	30,000	0.97
Combination Truck	Diesel	-	32,000	0.49
Bucket Truck	Diesel	-	37,000	0.9
Tractor-Semitrailer	Diesel	-	80,000	0.64

Department of Energy, Fact #861, 2015 Idle Fuel Consumption for Selected Gasoline and Diesel Vehicles, February 23, 2015.
https://www.energy.gov/eere/vehicles/fact-861-february-23-2015-idle-fuel-consumption-selected-gasoline-and-diesel-vehicles

This tool provides a quick estimation of the fuel use and emissions for your equipment in a specific year. The results may slightly differ from those from the official inventory model.

Instructions:

Enter the horsepwer, model year, and other details about your equipment in the Input box.
Make sure to update the ***load factor*** for your equipment using the lookup table.
The ***Output*** box gives a quick estimation of the fuel use, NOx, PM, and THC emission for your equipment.

Input	Input Engine Here
Horsepower (hp)	150
Model year	1985
Calendar year	2015
Activity (annual hours)	200
Accumulated hours on equipment (estimate using annual-hours*age if you only know the age of the equipment)	1000
Load factor (check the lookup table)	0.48

Intermediate steps	
HPbin	175
NOx_EF0	11.00
NOx_DR	2.5E-04
NOx_FCF	0.930
PM_EF0	0.55
PM_DR	4.0E-05
PM_FCF	0.71
THC_EF0	0.88
THC_DR	4.1E-05
THC_FCF	0.90
NOx_EF (g/hp-hr)	10.47
PM_EF (g/hp-hr)	0.42
THC_EF (g/hp-hr)	0.83
CO2_EF (kg/gallon-diesel)*	10.21
BSFC (lb/hp-hr)	0.367
Unit conversion (lb/gallon)	7.109

*Reference: www.epa.gov/sites/production/files/2015-

Results	
Fuel Used (gallon)	743
NOx Emissions (kg)	150.7
PM Emissions (kg)	6.0
THC Emissions (kg)	11.9
CO2 Emissions (kg)	7590.2
NOx Emission Factor (including deterioration and fuel correction factor): gram/bhp-hr	10.47
PM Emission Factor (including deterioration and fuel correction factor): gram/bhp-hr	0.42
THC Emission Factor (including deterioration and fuel correction factor): gram/ bhp-hr	0.83

Load Factor Lookup Table

Equipment Category	Equipment Type	Details	Load Factor
Agriculture equipment	Agricultural tractors		0.48
	Combine harvesters		0.44
	Forage & silage harvesters		0.44
	Cotton pickers		0.44
	Nut harvester		0.44
	Other harvesters		0.44
	Balers (self propelled)		0.50
	Bale wagons (self propelled)		0.50
	Swathers/windrowers/hay conditioners		0.48
	Hay Squeeze/Stack retriever		0.42
	Sprayers/Spray rigs		0.42
	Construction equipment		0.40
	Other non-mobile		0.48
	Forklifts		0.40
	Atvs		0.40
	Others		0.40
Portable equipment	All portable equipment		0.31
	Construction equipment		0.55
Cargo Handling Equipment	Container handling equipment		0.59
	Forklift		0.30
	Other general industrial equipment		0.51
	Rtg crane		0.20
	Yard tractor		0.39

[redacted]

Equipment Category	Equipment Type	Details	Load Factor
Transport Refrigeration Units (TRU)	TRU on trailers	25 HP and over, MY2012 and Older	0.46
	TRU on trailers	25 HP and over, MY2013 and Newer	0.38
	TRU on trailers	23 HP and Over, below 25 HP, All years	0.46
	TRU on trucks	Below 23 HP, All Model years	0.56
	TRU on railcars	25 HP and over, MY2012 and Older	0.33
	TRU on railcars	25 HP and over, MY2013 and Newer	0.27
	TRU on railcars	Below 25 HP, All Model years	0.33
	TRU with generators	25 HP and over, MY2012 and Older	0.46
	TRU with generators	25 HP and Over, MY2013 and Newer	0.38
	TRU with generators	23 HP and Over, below 25 HP, All Model Years	0.46
Ground Support Equipment	Passenger Stand		0.40
	A/C Tug Narrow Body		0.54
	A/C Tug Wide Body		0.54
	Baggage Tug		0.37
	Belt Loader		0.34
	Bobtail		0.37
	Cargo Loader		0.34
	Cargo Tractor		0.36
	Forklift (GSE)		0.20
	Lift (GSE)		0.34
	Other GSE		0.34
Construction and Industrial Equipment	Cranes		0.29
	Crawler Tractors		0.43
	Excavators		0.38
	Graders		0.41
	Off-Highway Tractors		0.44
	Off-Highway Trucks		0.38
	Other Construction Equipment		0.42
	Pavers		0.42
	Paving Equipment		0.36
	Rollers		0.38
	Rough Terrain Forklifts		0.40
	Rubber Tired Dozers		0.40
	Rubber Tired Loaders		0.36
	Scrapers		0.48
	Skid Steer Loaders		0.37
	Surfacing Equipment		0.30
	Tractors/Loaders/Backhoes		0.37
	Trenchers		0.50
	Aerial Lifts		0.31
	Forklifts		0.20
	Other General Industrial Equipment		0.34
	Other Material Handling Equipment		0.40
	Sweepers/Scrubbers		0.46
Oil and Drill Rigs	Drill Rig (Mobile)		0.50
	Workover Rig (Mobile)		0.50
	Bore/Drill Rigs		0.50

Worker Fuel Consumption Factor **Year: 2031**

Vehicle Category	VMT (mi/day)	Fuel Consumption (1000gal/day)	Fuel Consumption Factor (gal/mi)	Fuel Economy (mi/gal)	Fleet Mix	Fuel Consumption Factor (gal/mi)
LDA	202073957.9	6073.25	0.030	33.27	60%	0.033
LDT1	16644309.53	603.52	0.036	27.58	5%	
LDT2	116261058.6	4225.02	0.036	27.52	35%	

Source: EMFAC2021, **Output:** Onroad Emissions, **Model Version:** EMFAC2021 v1.0.2, **Air District:** SCAQMD, **Vehicle Categories:** EMFAC2007, **Model Year:** Aggregate, **Speed:** Aggregate, **Fuel:** All, **Output Unit:** tons/operation day

2031

Vehicle Category	VMT (miles/day)	Fuel Consumption (1000 gal/day)	Fuel Consumption Factor (gal/mi)	Fuel Economy (mi/gal)	Fleet Mix	Fuel Consumption Factor (gal/mi)
HHDT	14849543.74	2206.9	0.149	6.73	75%	0.139
MHDT	4888756.779	529.9	0.108	9.23	25%	

Source: EMFAC2021, **Output:** Onroad Emissions, **Model Version:** EMFAC2021 v1.0.2, **Air District:** SCAQMD, **Vehicle Categories:** EMFAC2007, **Model Year:** Aggregate, **Speed:** Aggregate, **Fuel:** All, **Output Unit:** tons/operation day

	Start	End	Days	Total Duration
Construction Duration (years)	1/1/2031	12/31/2037	2,556	7.00

HSR LA-A Project: Construction Fuel Consumption Summary - Fullerton HSR Station Only

Source Category	Fuel Consumption (gal)		Million btu (MMBTU)
	Diesel	Gasoline	Combined
Offroad Equipment	30,459	--	4,184
Haul Trucks[1]	86,683	--	11,909
Vendor Trucks	0	--	0
Concrete Trucks	4,594	--	631
Water Trucks	968	--	133
Worker Trips	--	18,881	2,270
Total Fuel Consumption	**122,704**	**18,881**	
		Total MMBTU	**19,127**

Construction Duration (years):	3.08
Average Annual Diesel (gal):	39,775
Average Annual Gasoline (gal):	18,881
Average Annual MMBTU:	6,200

Offroad Equipment

Fuel Consumption: Equipment ≤ 100HP	Value
Brake Specific Fuel Consumption Factor (lb/hp-hr)[1]	0.408
Fuel Density (lb/gal)[1]	7.11
Consumption Factor (gal/hp-hr)	0.0574
Total HP-HR <100	290,601
Total Diesel Fuel (gal)	**16,678**

Fuel Consumption: Equipment > 100HP	Value
Brake Specific Fuel Consumption Factor (lb/hp-hr)[1]	0.367
Fuel Density (lb/gal)[1]	7.11
Consumption Factor (gal/hp-hr)	0.0516
Total HP-HR >100	266,944
Total Diesel Fuel (gal)	**13,781**

Total diesel gallons (off-road equipment): **30,459**

Phase Name	Equipment	# of Equipment	Hours/Day	HP	Load Factor	Days	Total HP-HR
Fullerton HSR Stn_CTF3	Excavators	2	3.60	36	0.38	86	8470.656
Fullerton HSR Stn_CTF3	Rubber Tired Loaders	4	4.20	150	0.36	86	78019.2
Fullerton HSR Stn_CTF4	Rough Terrain Forklifts	3	3.50	100	0.40	240	100800
Fullerton HSR Stn_CTF5	Other Construction Equipment	8	0.90	82	0.42	784	194406.912
Fullerton HSR Stn_CTF6	Bore/Drill Rigs	2	4.55	83	0.50	152	57402.8
Fullerton HSR Stn_CTF7	Graders	1	5.25	148	0.41	43	13698.51
Fullerton HSR Stn_CTF8	Cranes	2	4.20	367	0.29	196	175226.352
Fullerton HSR Stn_CTF9	Rollers	2	1.40	36	0.38	240	9192.96
Fullerton HSR Stn_CTF9	Plate Compactors	3	1.40	8	0.43	240	3467.52
Fullerton HSR Stn_CTF10	Pavers	1	2.40	81	0.42	89	7266.672
Fullerton HSR Stn_CTF11	Pumps	4	1.05	11	0.74	304	10393.152

Total >100HP	266,944.06
Total <100HP	290,600.67

Notes:

1. CARB, 2017 Off-road Diesel Emission Factors
https://ww2.arb.ca.gov/resources/documents/2017-road-diesel-propane-gasoline-emission-factors

Haul Trucks

Onroad Travel Consumption	Value
EMFAC2021 Diesel Fuel Consumption Factor (gal/mi):[1]	0.149
Total VMT (mi):	392,784
Total diesel gallons	**58,375**
Idling Consumption	**Value**
Idling Fuel Consumption Factor (gal/hr):[2]	0.6400
Total Idle-Hours per Year:	269
Total diesel gallons	**172**

Total diesel gallons: 58,547

Phase	Days	Truck Trips per Day (In/Out)	Total Truck Trips	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Fullerton HSR Stn_FD	784	10	7840	0.1	50	HHDT	392784	65.33333333	58374.95	41.81	58416.76
Fullerton HSR Stn_CTF1	239	0	0	0	50	HHDT	0	19.91666667	0.00	12.75	12.75
Fullerton HSR Stn_CTF2	65	0	0	0	50	HHDT	0	5.416666667	0.00	3.47	3.47
Fullerton HSR Stn_CTF3	86	0	0	0	50	HHDT	0	7.166666667	0.00	4.59	4.59
Fullerton HSR Stn_CTF4	240	0	0	0	50	HHDT	0	20	0.00	12.80	12.80
Fullerton HSR Stn_CTF5	784	0	0	0	50	HHDT	0	65.33333333	0.00	41.81	41.81
Fullerton HSR Stn_CTF6	152	0	0	0	50	HHDT	0	12.66666667	0.00	8.11	8.11
Fullerton HSR Stn_CTF7	43	0	0	0	50	HHDT	0	3.583333333	0.00	2.29	2.29
Fullerton HSR Stn_CTF8	196	0	0	0	50	HHDT	0	16.33333333	0.00	10.45	10.45
Fullerton HSR Stn_CTF9	240	0	0	0	50	HHDT	0	20	0.00	12.80	12.80
Fullerton HSR Stn_CTF10	89	0	0	0	50	HHDT	0	7.416666667	0.00	4.75	4.75
Fullerton HSR Stn_CTF11	304	0	0	0	50	HHDT	0	25.33333333	0.00	16.21	16.21
						Total VMT:	**392,784.00**		**58,374.95**	**171.84**	**58,546.79**
						Total Idle-Hours:		**269**			

1. CARB, EMFAC2021 (SCAQMD; HHDT; Annual; CY 2031; Aggregate MY; Aggregate Speed,DSL)
2. Department of Energy, Fact #861, 2015 Idle Fuel Consumption for Selected Gasoline and Diesel Vehicles, February 23, 2015.
https://www.energy.gov/eere/vehicles/fact-861-february-23-2015-idle-fuel-consumption-selected-gasoline-and-diesel-vehicles

Haul Trucks - Class I/II Waste in SJVAB

Onroad Travel Consumption	Value
EMFAC2021 Diesel Fuel Consumption Factor (gal/mi):[1]	0.149
Total VMT (mi):	188,160
Total diesel gallons	**27,964**
Idling Consumption	**Value**
Idling Fuel Consumption Factor (gal/hr):[2]	0.6400
Total Idle-Hours per Year:	269
Total diesel gallons	**172**

Total diesel gallons: 28,136

Phase	Days	Truck Trips per Day (In/Out)	Total Truck Trips	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Fullerton HSR Stn_FD	784	2	1568	0	120	HHDT	188160	65.33333333	27964.05	41.81	28005.86
Fullerton HSR Stn_CTF1	239	0	0	0	120	HHDT	0	19.91666667	0.00	12.75	12.75
Fullerton HSR Stn_CTF2	65	0	0	0	120	HHDT	0	5.416666667	0.00	3.47	3.47
Fullerton HSR Stn_CTF3	86	0	0	0	120	HHDT	0	7.166666667	0.00	4.59	4.59
Fullerton HSR Stn_CTF4	240	0	0	0	120	HHDT	0	20	0.00	12.80	12.80
Fullerton HSR Stn_CTF5	784	0	0	0	120	HHDT	0	65.33333333	0.00	41.81	41.81
Fullerton HSR Stn_CTF6	152	0	0	0	120	HHDT	0	12.66666667	0.00	8.11	8.11
Fullerton HSR Stn_CTF7	43	0	0	0	120	HHDT	0	3.583333333	0.00	2.29	2.29
Fullerton HSR Stn_CTF8	196	0	0	0	120	HHDT	0	16.33333333	0.00	10.45	10.45
Fullerton HSR Stn_CTF9	240	0	0	0	120	HHDT	0	20	0.00	12.80	12.80
Fullerton HSR Stn_CTF10	89	0	0	0	120	HHDT	0	7.416666667	0.00	4.75	4.75
Fullerton HSR Stn_CTF11	304	0	0	0	120	HHDT	0	25.33333333	0.00	16.21	16.21
						Total VMT:	**188,160.00**		**27964.05**	**171.84**	**28,135.89**
						Total Idle-Hours:		**269**			

1. CARB, EMFAC2021 (SCAQMD; HHDT; Annual; CY 2031; Aggregate MY; Aggregate Speed,DSL)
2. Department of Energy, Fact #861, 2015 Idle Fuel Consumption for Selected Gasoline and Diesel Vehicles, February 23, 2015.
https://www.energy.gov/eere/vehicles/fact-861-february-23-2015-idle-fuel-consumption-selected-gasoline-and-diesel-vehicles

Vendor Trucks

Onroad Travel Consumption	Value
EMFAC2021 Diesel Fuel Consumption Factor (gal/mi):[1]	0.139
Total VMT (mi):	-
Total diesel gallons	**-**
Idling Consumption	**Value**
Idling Fuel Consumption Factor (gal/hr):[2]	0.6400
Total Idle-Hours per Year:	-
Total diesel gallons	**-**

Total diesel gallons: -

Phase	Days/year	Truck Trips per Day (In/Out)	Onsite Trip Length (Miles)	Offsite Trip Length (Miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Fullerton HSR Stn_FD	784	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Fullerton HSR Stn_CTF1	239	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Fullerton HSR Stn_CTF2	65	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Fullerton HSR Stn_CTF3	86	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Fullerton HSR Stn_CTF4	240	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Fullerton HSR Stn_CTF5	784	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Fullerton HSR Stn_CTF6	152	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Fullerton HSR Stn_CTF7	43	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Fullerton HSR Stn_CTF8	196	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Fullerton HSR Stn_CTF9	240	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Fullerton HSR Stn_CTF10	89	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Fullerton HSR Stn_CTF11	304	0	0	10.2	HHDT/MHDT	0	0	0	0	0
					Total VMT:	**0**		**0.00**	**0.00**	**0.00**
					Total Idle-Hours:		**0**			

1. CARB, EMFAC2021 (SCAQMD; HHDT/MHDT; Annual; CY 2031; Aggregate MY; Aggregate Speed,DSL)
2. Department of Energy, Fact #861, 2015 Idle Fuel Consumption for Selected Gasoline and Diesel Vehicles, February 23, 2015. https://www.energy.gov/eere/vehicles/fact-861-february-23-2015-idle-fuel-consumption-selected-gasoline-and-diesel-vehicles

Vendor Trucks

Onroad Travel Consumption	Value
EMFAC2021 Diesel Fuel Consumption Factor (gal/mi):[1]	0.139
Total VMT (mi):	31,938
Total diesel gallons	**4,428**
Idling Consumption	**Value**
Idling Fuel Consumption Factor (gal/hr):[2]	0.6400
Total Idle-Hours per Year:	258
Total diesel gallons	**165**

Total diesel gallons: **4,594**

Phase	Days/year	Truck Trips per Day (In/Out)	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Fullerton HSR Stn_CTF11	304	10.2	0.1	10.20	HHDT/MHDT	31,938	258	4428.46	165.38	4593.84
					Total VMT:	**31,938**		**4,428.46**	**165.38**	**4,593.84**
					Total Idle-Hours:		**258**			

1. CARB, EMFAC2021 (SCAQMD; HHDT/MHDT; Annual; CY 2031; Aggregate MY; Aggregate Speed,DSL)
2. Department of Energy, Fact #861, 2015 Idle Fuel Consumption for Selected Gasoline and Diesel Vehicles, February 23, 2015. https://www.energy.gov/eere/vehicles/fact-861-february-23-2015-idle-fuel-consumption-selected-gasoline-and-diesel-vehicles

Vendor Trucks

Onroad Travel Consumption	Value
EMFAC2021 Diesel Fuel Consumption Factor (gal/mi):[1]	0.139
Total VMT (mi):	5,174
Total diesel gallons	**717**
Idling Consumption	**Value**
Idling Fuel Consumption Factor (gal/hr):[2]	0.6400
Total Idle-Hours per Year:	392
Total diesel gallons	**251**

Total diesel gallons: **968**

Phase	Days/year	Truck Trips per Day (In/Out)	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Fullerton HSR Stn_FD	784	6.0	0.1	1.00	HHDT/MHDT	5,174	392	717.47	250.88	968.35
Fullerton HSR Stn_CTF1	239	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Fullerton HSR Stn_CTF2	65	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Fullerton HSR Stn_CTF3	86	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Fullerton HSR Stn_CTF4	240	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Fullerton HSR Stn_CTF5	784	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Fullerton HSR Stn_CTF6	152	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Fullerton HSR Stn_CTF7	43	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Fullerton HSR Stn_CTF8	196	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Fullerton HSR Stn_CTF9	240	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Fullerton HSR Stn_CTF10	89	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Fullerton HSR Stn_CTF11	304	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
					Total VMT:	**5,174**		**717.47**	**250.88**	**968.35**
					Total Idle-Hours:		**392**			

1. CARB, EMFAC2021 (SCAQMD; HHDT/MHDT; Annual; CY 2031; Aggregate MY; Aggregate Speed,DSL)
2. Department of Energy, Fact #861, 2015 Idle Fuel Consumption for Selected Gasoline and Diesel Vehicles, February 23, 2015. https://www.energy.gov/eere/vehicles/fact-861-february-23-2015-idle-fuel-consumption-selected-gasoline-and-diesel-vehicles

Worker Vehicles

Onroad Travel Consumption	Value
EMFAC2021 Gasoline Fuel Consumption Factor (gal/mi):[1]	0.033
Total VMT (mi):	580,160
Total gasoline gallons	**18,881**

Phase	Days/year	Vehicle Trips per day (In/Out)	Trip Length (miles)	Vehicle Category	VMT	Onroad Travel Consumption (gal)
Fullerton HSR Stn_FD	784	40.0	18.50	LD Fleet Mix	580,160	18,881
Fullerton HSR Stn_CTF1	239	0.0	18.50	LD Fleet Mix	0	0
Fullerton HSR Stn_CTF2	65	0.0	18.50	LD Fleet Mix	0	0
Fullerton HSR Stn_CTF3	86	0.0	18.50	LD Fleet Mix	0	0
Fullerton HSR Stn_CTF4	240	0.0	18.50	LD Fleet Mix	0	0
Fullerton HSR Stn_CTF5	784	0.0	18.50	LD Fleet Mix	0	0
Fullerton HSR Stn_CTF6	152	0.0	18.50	LD Fleet Mix	0	0
Fullerton HSR Stn_CTF7	43	0.0	18.50	LD Fleet Mix	0	0
Fullerton HSR Stn_CTF8	196	0.0	18.50	LD Fleet Mix	0	0
Fullerton HSR Stn_CTF9	240	0.0	18.50	LD Fleet Mix	0	0
Fullerton HSR Stn_CTF10	89	0.0	18.50	LD Fleet Mix	0	0
Fullerton HSR Stn_CTF11	304	0.0	18.50	LD Fleet Mix	0	0
				Total VMT:	**580,160**	**18,881**

1. CARB, EMFAC2021 (SCAQMD; LDA/LDT1/LDT2; Annual; CY 2031; Aggregate MY; Aggregate Speed,GAS)

2. Department of Energy, Fact #861, 2015 Idle Fuel Consumption for Selected Gasoline and Diesel Vehicles, February 23, 2015.
https://www.energy.gov/eere/vehicles/fact-861-february-23-2015-idle-fuel-consumption-selected-gasoline-and-diesel-vehicles

Idling Fuel Consumption Factors

VEHICLE TYPE	FUEL TYPE	ENGINE SIZE	GROSS VEHICLE WEIGHT	IDLING FUEL USE
		(LITER)	(GVW) (LBS)	(GAL/HR WITH NO LOAD)
Compact Sedan	Gas	2	-	0.16
Large Sedan	Gas	4.6	-	0.39
Compact Sedan	Diesel	2	-	0.17
Medium Heavy Truck	Gas	7-May	19,700-26,000	0.84
Delivery Truck	Diesel	-	19,500	0.84
Tow Truck	Diesel	-	26,000	0.59
Medium Heavy Truck	Diesel	10-Jun	23,000-33,000	0.44
Transit Bus	Diesel	-	30,000	0.97
Combination Truck	Diesel	-	32,000	0.49
Bucket Truck	Diesel	-	37,000	0.9
Tractor-Semitrailer	Diesel	-	80,000	0.64

Department of Energy, Fact #861, 2015 Idle Fuel Consumption for Selected Gasoline and Diesel Vehicles, February 23, 2015.
https://www.energy.gov/eere/vehicles/fact-861-february-23-2015-idle-fuel-consumption-selected-gasoline-and-diesel-vehicles

This tool provides a quick estimation of the fuel use and emissions for your equipment in a specific year. The results may slightly differ from those from the official inventory model.

Instructions:

Enter the horsepwer, model year, and other details about your equipment in the Input box.
Make sure to update the ***load factor*** for your equipment using the lookup table.
The ***Output*** box gives a quick estimation of the fuel use, NOx, PM, and THC emission for your equipment.

Input	Input Engine Here
Horsepower (hp)	150
Model year	1985
Calendar year	2015
Activity (annual hours)	200
Accumulated hours on equipment (estimate using annual-hours*age if you only know the age of the equipment)	1000
Load factor (check the lookup table)	0.48

Intermediate steps	
HPbin	175
NOx_EF0	11.00
NOx_DR	2.5E-04
NOx_FCF	0.930
PM_EF0	0.55
PM_DR	4.0E-05
PM_FCF	0.71
THC_EF0	0.88
THC_DR	4.1E-05
THC_FCF	0.90
NOx_EF (g/hp-hr)	10.47
PM_EF (g/hp-hr)	0.42
THC_EF (g/hp-hr)	0.83
CO2_EF (kg/gallon-diesel)*	10.21
BSFC (lb/hp-hr)	0.367
Unit conversion (lb/gallon)	7.109

*Reference: www.epa.gov/sites/production/files/2015-

Results	
Fuel Used (gallon)	743
NOx Emissions (kg)	150.7
PM Emissions (kg)	6.0
THC Emissions (kg)	11.9
CO2 Emissions (kg)	7590.2
NOx Emission Factor (including deterioration and fuel correction factor): gram/bhp-hr	10.47
PM Emission Factor (including deterioration and fuel correction factor): gram/bhp-hr	0.42
THC Emission Factor (including deterioration and fuel correction factor): gram/ bhp-hr	0.83

Load Factor Lookup Table

Equipment Category	Equipment Type	Details	Load Factor
Agriculture equipment	Agricultural tractors		0.48
	Combine harvesters		0.44
	Forage & silage harvesters		0.44
	Cotton pickers		0.44
	Nut harvester		0.44
	Other harvesters		0.44
	Balers (self propelled)		0.50
	Bale wagons (self propelled)		0.50
	Swathers/windrowers/hay conditioners		0.48
	Hay squeeze/Stack retriever		0.42
	Sprayers/Spray rigs		0.42
	Construction equipment		0.40
	Other non-mobile		0.48
	Forklifts		0.40
	Atvs		0.40
	Others		0.40
Portable equipment	All portable equipment		0.31
	Construction equipment		0.55
Cargo Handling Equipment	Container handling equipment		0.59
	Forklift		0.30
	Other general industrial equipment		0.51
	Rtg crane		0.20
	Yard tractor		0.39

Equipment Category	Equipment Type	Details	Load Factor
Transport Refrigeration Units (TRU)	TRU on trailers	25 HP and over, MY2012 and Older	0.46
	TRU on trailers	25 HP and over, MY2013 and Newer	0.38
	TRU on trailers	23 HP and Over, below 25 HP, All years	0.46
	TRU on trucks	Below 23 HP, All Model years	0.56
	TRU on railcars	25 HP and over, MY2012 and Older	0.33
	TRU on railcars	25 HP and over, MY2013 and Newer	0.27
	TRU on railcars	Below 25 HP, All Model years	0.33
	TRU with generators	25 HP and over, MY2012 and Older	0.46
	TRU with generators	25 HP and Over, MY2013 and Newer	0.38
	TRU with generators	23 HP and Over, below 25 HP, All Model Years	0.46
Ground Support Equipment	Passenger Stand		0.40
	A/C Tug Narrow Body		0.54
	A/C Tug Wide Body		0.54
	Baggage Tug		0.37
	Belt Loader		0.34
	Bobtail		0.37
	Cargo Loader		0.34
	Cargo Tractor		0.36
	Forklift (GSE)		0.20
	Lift (GSE)		0.34
	Other GSE		0.34
Construction and Industrial Equipment	Cranes		0.29
	Crawler Tractors		0.43
	Excavators		0.38
	Graders		0.41
	Off-Highway Tractors		0.44
	Off-Highway Trucks		0.38
	Other Construction Equipment		0.42
	Pavers		0.42
	Paving Equipment		0.36
	Rollers		0.38
	Rough Terrain Forklifts		0.40
	Rubber Tired Dozers		0.40
	Rubber Tired Loaders		0.36
	Scrapers		0.48
	Skid Steer Loaders		0.37
	Surfacing Equipment		0.30
	Tractors/Loaders/Backhoes		0.37
	Trenchers		0.50
	Aerial Lifts		0.31
	Forklifts		0.20
	Other General Industrial Equipment		0.34
	Other Material Handling Equipment		0.40
	Sweepers/Scrubbers		0.46
Oil and Drill Rigs	Drill Rig (Mobile)		0.50
	Workover Rig (Mobile)		0.50
	Bore/Drill Rigs		0.50

Worker Fuel Consumption Factor **Year: 2031**

Vehicle Category	VMT (mi/day)	Fuel Consumption (1000gal/day)	Fuel Consumption Factor (gal/mi)	Fuel Economy (mi/gal)	Fleet Mix	Fuel Consumption Factor (gal/mi)
LDA	202073957.9	6073.25	0.030	33.27	60%	0.033
LDT1	16644309.53	603.52	0.036	27.58	5%	
LDT2	116261058.6	4225.02	0.036	27.52	35%	

Source: EMFAC2021, **Output:** Onroad Emissions, **Model Version:** EMFAC2021 v1.0.2, **Air District:** SCAQMD, **Vehicle Categories:** EMFAC2007, **Model Year:** Aggregate, **Speed:** Aggregate, **Fuel:** All, **Output Unit:** tons/operation day

2031

Vehicle Category	VMT (miles/day)	Fuel Consumption (1000 gal/day)	Fuel Consumption Factor (gal/mi)	Fuel Economy (mi/gal)	Fleet Mix	Fuel Consumption Factor (gal/mi)
HHDT	14849543.74	2206.9	0.149	6.73	75%	0.139
MHDT	4888756.779	529.9	0.108	9.23	25%	

Source: EMFAC2021, **Output:** Onroad Emissions, **Model Version:** EMFAC2021 v1.0.2, **Air District:** SCAQMD, **Vehicle Categories:** EMFAC2007, **Model Year:** Aggregate, **Speed:** Aggregate, **Fuel:** All, **Output Unit:** tons/operation day

	Start	End	Days	Total Duration
Construction Duration (years)	12/1/2034	12/31/2037	1,126	3.08

HSR LA-A Project: Construction Fuel Consumption Summary - Alt B Norwalk/Santa Fe HSR Station (15th Street LMF)

Source Category	Fuel Consumption (gal)		Million btu (MMBTU)
	Diesel	Gasoline	Combined
Offroad Equipment	31,460	--	4,322
Haul Trucks[1]	109,769	--	15,080
Vendor Trucks	0	--	0
Concrete Trucks	0	--	0
Water Trucks	967	--	133
Worker Trips	--	14,143	1,700
Total Fuel Consumption	**142,196**	**14,143**	
		Total MMBTU	**21,235**

Construction Duration (years):	3.0
Average Annual Diesel (gal):	47,399
Average Annual Gasoline (gal):	14,143
Average Annual MMBTU:	7,078

Offroad Equipment

Fuel Consumption: Equipment ≤ 100HP	Value
Brake Specific Fuel Consumption Factor (lb/hp-hr)[1]	0.408
Fuel Density (lb/gal)[1]	7.11
Consumption Factor (gal/hp-hr)	0.0574
Total HP-HR <100	455,913
Total Diesel Fuel (gal)	**26,166**

Fuel Consumption: Equipment > 100HP	Value
Brake Specific Fuel Consumption Factor (lb/hp-hr)[1]	0.367
Fuel Density (lb/gal)[1]	7.11
Consumption Factor (gal/hp-hr)	0.0516
Total HP-HR >100	102,554
Total Diesel Fuel (gal)	**5,294**

Total diesel gallons (off-road equipment): **31,460**

Phase Name	Equipment	# of Equipment	Hours/Day	HP	Load Factor	Days	Total HP-HR
Norwalk-SFS HSR Stn_CTF1	Excavators	1	2.70	36	0.38	65	2400.84
Norwalk-SFS HSR Stn_CTF3	Rubber Tired Loaders	2	4.55	150	0.36	151	74201.4
Norwalk-SFS HSR Stn_CTF4	Other Construction Equipment	4	3.90	82	0.42	783	420677.712
Norwalk-SFS HSR Stn_CTF6	Graders	1	5.25	148	0.41	89	28352.73
Norwalk-SFS HSR Stn_CTF6	Tractors/Loaders/Backhoes	2	4.55	84	0.37	89	25171.692
Norwalk-SFS HSR Stn_CTF6	Plate Compactors	4	5.60	8	0.43	89	6857.984
Norwalk-SFS HSR Stn_CTF7	Rollers	2	1.40	36	0.38	21	804.384

Total >100HP 102,554.13

Total <100HP 455,912.61

Notes:

1. CARB, 2017 Off-road Diesel Emission Factors
https://ww2.arb.ca.gov/resources/documents/2017-road-diesel-propane-gasoline-emission-factors

Haul Trucks

Onroad Travel Consumption	Value
EMFAC2021 Diesel Fuel Consumption Factor (gal/mi):[1]	0.149
Total VMT (mi):	549,196
Total diesel gallons	**81,621**
Idling Consumption	**Value**
Idling Fuel Consumption Factor (gal/hr):[2]	0.6400
Total Idle-Hours per Year:	172
Total diesel gallons	**110**

Total diesel gallons: 81,731

Phase	Days	Truck Trips per Day (In/Out)	Total Truck Trips	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Norwalk-SFS HSR Stn_FD	783	14	10962	0.1	50	HHDT	549196.2	65.25	81620.69	41.76	81662.45
Norwalk-SFS HSR Stn_CTF1	65	0	0	0	50	HHDT	0	5.416666667	0.00	3.47	3.47
Norwalk-SFS HSR Stn_CTF2	85	0	0	0	50	HHDT	0	7.083333333	0.00	4.53	4.53
Norwalk-SFS HSR Stn_CTF3	151	0	0	0	50	HHDT	0	12.58333333	0.00	8.05	8.05
Norwalk-SFS HSR Stn_CTF4	783	0	0	0	50	HHDT	0	65.25	0.00	41.76	41.76
Norwalk-SFS HSR Stn_CTF5	86	0	0	0	50	HHDT	0	7.166666667	0.00	4.59	4.59
Norwalk-SFS HSR Stn_CTF6	89	0	0	0	50	HHDT	0	7.416666667	0.00	4.75	4.75
Norwalk-SFS HSR Stn_CTF7	21	0	0	0	50	HHDT	0	1.75	0.00	1.12	1.12
						Total VMT:	**549,196.20**		**81,620.69**	**110.03**	**81,730.71**
						Total Idle-Hours:		**172**			

1. 0CARB, EMFAC2021 (SCAQMD; HHDT; Annual; CY 2031; Aggregate MY; Aggregate Speed,DSL)
2. Department of Energy, Fact #861, 2015 Idle Fuel Consumption for Selected Gasoline and Diesel Vehicles, February 23, 2015.
https://www.energy.gov/eere/vehicles/fact-861-february-23-2015-idle-fuel-consumption-selected-gasoline-and-diesel-vehicles

Haul Trucks - Class I/II Waste in SJVAB

Onroad Travel Consumption	Value
EMFAC2021 Diesel Fuel Consumption Factor (gal/mi):[1]	0.149
Total VMT (mi):	187,920
Total diesel gallons	**27,928**
Idling Consumption	**Value**
Idling Fuel Consumption Factor (gal/hr):[2]	0.6400
Total Idle-Hours per Year:	172
Total diesel gallons	**110**

Total diesel gallons: 28,038

Phase	Days	Truck Trips per Day (In/Out)	Total Truck Trips	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Norwalk-SFS HSR Stn_FD	783	2	1566	0	120	HHDT	187920	65.25	27928.38	41.76	27970.14
Norwalk-SFS HSR Stn_CTF1	65	0	0	0	120	HHDT	0	5.416666667	0.00	3.47	3.47
Norwalk-SFS HSR Stn_CTF2	85	0	0	0	120	HHDT	0	7.083333333	0.00	4.53	4.53
Norwalk-SFS HSR Stn_CTF3	151	0	0	0	120	HHDT	0	12.58333333	0.00	8.05	8.05
Norwalk-SFS HSR Stn_CTF4	783	0	0	0	120	HHDT	0	65.25	0.00	41.76	41.76
Norwalk-SFS HSR Stn_CTF5	86	0	0	0	120	HHDT	0	7.166666667	0.00	4.59	4.59
Norwalk-SFS HSR Stn_CTF6	89	0	0	0	120	HHDT	0	7.416666667	0.00	4.75	4.75
Norwalk-SFS HSR Stn_CTF7	21	0	0	0	120	HHDT	0	1.75	0.00	1.12	1.12
						Total VMT:	**187,920.00**		**27928.38**	**110.03**	**28,038.41**
						Total Idle-Hours:		**172**			

1. CARB, EMFAC2021 (SCAQMD; HHDT; Annual; CY 2031; Aggregate MY; Aggregate Speed,DSL)
2. Department of Energy, Fact #861, 2015 Idle Fuel Consumption for Selected Gasoline and Diesel Vehicles, February 23, 2015.
https://www.energy.gov/eere/vehicles/fact-861-february-23-2015-idle-fuel-consumption-selected-gasoline-and-diesel-vehicles

Vendor Trucks

Onroad Travel Consumption	Value
EMFAC2021 Diesel Fuel Consumption Factor (gal/mi):[1]	0.139
Total VMT (mi):	-
Total diesel gallons	-
Idling Consumption	**Value**
Idling Fuel Consumption Factor (gal/hr):[2]	0.6400
Total Idle-Hours per Year:	-
Total diesel gallons	-

Total diesel gallons: -

Phase	Days/year	Truck Trips per Day (In/Out)	Onsite Trip Length (Miles)	Offsite Trip Length (Miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Norwalk-SFS HSR Stn_FD	783	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Norwalk-SFS HSR Stn_CTF1	65	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Norwalk-SFS HSR Stn_CTF2	85	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Norwalk-SFS HSR Stn_CTF3	151	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Norwalk-SFS HSR Stn_CTF4	783	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Norwalk-SFS HSR Stn_CTF5	86	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Norwalk-SFS HSR Stn_CTF6	89	0	0	10.2	HHDT/MHDT	0	0	0	0	0
Norwalk-SFS HSR Stn_CTF7	21	0	0	10.2	HHDT/MHDT	0	0	0	0	0
					Total VMT:	**0**		**0.00**	**0.00**	**0.00**
					Total Idle-Hours:		**0**			

1. CARB, EMFAC2021 (SCAQMD; HHDT/MHDT; Annual; CY 2031; Aggregate MY; Aggregate Speed,DSL)
2. Department of Energy, Fact #861, 2015 Idle Fuel Consumption for Selected Gasoline and Diesel Vehicles, February 23, 2015.
   https://www.energy.gov/eere/vehicles/fact-861-february-23-2015-idle-fuel-consumption-selected-gasoline-and-diesel-vehicles

Vendor Trucks

Onroad Travel Consumption	Value
EMFAC2021 Diesel Fuel Consumption Factor (gal/mi):[1]	0.139
Total VMT (mi):	-
Total diesel gallons	**-**
Idling Consumption	**Value**
Idling Fuel Consumption Factor (gal/hr):[2]	0.6400
Total Idle-Hours per Year:	-
Total diesel gallons	**-**

Total diesel gallons: **-**

Phase	Days/year	Truck Trips per Day (In/Out)	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
					Total VMT:	**0**		**0.00**	**0.00**	**0.00**
					Total Idle-Hours:		**0**			

1. CARB, EMFAC2021 (SCAQMD; HHDT/MHDT; Annual; CY 2031; Aggregate MY; Aggregate Speed,DSL)
2. Department of Energy, Fact #861, 2015 Idle Fuel Consumption for Selected Gasoline and Diesel Vehicles, February 23, 2015.
   https://www.energy.gov/eere/vehicles/fact-861-february-23-2015-idle-fuel-consumption-selected-gasoline-and-diesel-vehicles

Vendor Trucks

Onroad Travel Consumption	Value
EMFAC2021 Diesel Fuel Consumption Factor (gal/mi):[1]	0.139
Total VMT (mi):	5,168
Total diesel gallons	**717**
Idling Consumption	**Value**
Idling Fuel Consumption Factor (gal/hr):[2]	0.6400
Total Idle-Hours per Year:	392
Total diesel gallons	**251**

Total diesel gallons: **967**

Phase	Days/year	Truck Trips per Day (In/Out)	Onsite Trip Length (miles)	Offsite Trip Length (miles)	Vehicle Category	VMT	Idle Hours	Onroad Travel Consumption (gal)	Idling Consumption (gal)	Total Fuel Consumption (gal)
Norwalk-SFS HSR Stn_FD	783	6.0	0.1	1.00	HHDT/MHDT	5,168	392	716.55	250.56	967.11
Norwalk-SFS HSR Stn_CTF1	65	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk-SFS HSR Stn_CTF2	85	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk-SFS HSR Stn_CTF3	151	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk-SFS HSR Stn_CTF4	783	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk-SFS HSR Stn_CTF5	86	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk-SFS HSR Stn_CTF6	89	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
Norwalk-SFS HSR Stn_CTF7	21	0.0	0.1	1.00	HHDT/MHDT	0	0	-	-	-
					Total VMT:	**5,168**		**716.55**	**250.56**	**967.11**
					Total Idle-Hours:		**392**			

1. CARB, EMFAC2021 (SCAQMD; HHDT/MHDT; Annual; CY 2031; Aggregate MY; Aggregate Speed,DSL)
2. Department of Energy, Fact #861, 2015 Idle Fuel Consumption for Selected Gasoline and Diesel Vehicles, February 23, 2015.
   https://www.energy.gov/eere/vehicles/fact-861-february-23-2015-idle-fuel-consumption-selected-gasoline-and-diesel-vehicles

Worker Vehicles

Onroad Travel Consumption	Value
EMFAC2021 Gasoline Fuel Consumption Factor (gal/mi):[1]	0.033
Total VMT (mi):	434,565
Total gasoline gallons	**14,143**

Phase	Days/year	Vehicle Trips per day (In/Out)	Trip Length (miles)	Vehicle Category	VMT	Onroad Travel Consumption (gal)
Norwalk-SFS HSR Stn_FD	783	30.0	18.50	LD Fleet Mix	434,565	14,143
Norwalk-SFS HSR Stn_CTF1	65	0.0	18.50	LD Fleet Mix	0	0
Norwalk-SFS HSR Stn_CTF2	85	0.0	18.50	LD Fleet Mix	0	0
Norwalk-SFS HSR Stn_CTF3	151	0.0	18.50	LD Fleet Mix	0	0
Norwalk-SFS HSR Stn_CTF4	783	0.0	18.50	LD Fleet Mix	0	0
Norwalk-SFS HSR Stn_CTF5	86	0.0	18.50	LD Fleet Mix	0	0
Norwalk-SFS HSR Stn_CTF6	89	0.0	18.50	LD Fleet Mix	0	0
Norwalk-SFS HSR Stn_CTF7	21	0.0	18.50	LD Fleet Mix	0	0
				Total VMT:	**434,565**	**14,143**

1. CARB, EMFAC2021 (SCAQMD; LDA/LDT1/LDT2; Annual; CY 2031; Aggregate MY; Aggregate Speed,GAS)

2. Department of Energy, Fact #861, 2015 Idle Fuel Consumption for Selected Gasoline and Diesel Vehicles, February 23, 2015.
https://www.energy.gov/eere/vehicles/fact-861-february-23-2015-idle-fuel-consumption-selected-gasoline-and-diesel-vehicles

Idling Fuel Consumption Factors

VEHICLE TYPE	FUEL TYPE	ENGINE SIZE (LITER)	GROSS VEHICLE WEIGHT (GVW) (LBS)	IDLING FUEL USE (GAL/HR WITH NO LOAD)
Compact Sedan	Gas	2	-	0.16
Large Sedan	Gas	4.6	-	0.39
Compact Sedan	Diesel	2	-	0.17
Medium Heavy Truck	Gas	7-May	19,700-26,000	0.84
Delivery Truck	Diesel	-	19,500	0.84
Tow Truck	Diesel	-	26,000	0.59
Medium Heavy Truck	Diesel	10-Jun	23,000-33,000	0.44
Transit Bus	Diesel	-	30,000	0.97
Combination Truck	Diesel	-	32,000	0.49
Bucket Truck	Diesel	-	37,000	0.9
Tractor-Semitrailer	Diesel	-	80,000	0.64

Department of Energy, Fact #861, 2015 Idle Fuel Consumption for Selected Gasoline and Diesel Vehicles, February 23, 2015.
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This tool provides a quick estimation of the fuel use and emissions for your equipment in a specific year. The results may slightly differ from those from the official inventory model.

Instructions:

Enter the horsepwer, model year, and other details about your equipment in the Input box.

Make sure to update the ***load factor*** for your equipment using the lookup table.

The ***Output*** box gives a quick estimation of the fuel use, NOx, PM, and THC emission for your equipment.

Input	Input Engine Here
Horsepower (hp)	150
Model year	1985
Calendar year	2015
Activity (annual hours)	200
Accumulated hours on equipment (estimate using annual-hours*age if you only know the age of the equipment)	1000
Load factor (check the lookup table)	0.48

Intermediate steps	
HPbin	175
NOx_EF0	11.00
NOx_DR	2.5E-04
NOx_FCF	0.930
PM_EF0	0.55
PM_DR	4.0E-05
PM_FCF	0.71
THC_EF0	0.88
THC_DR	4.1E-05
THC_FCF	0.90
NOx_EF (g/hp-hr)	10.47
PM_EF (g/hp-hr)	0.42
THC_EF (g/hp-hr)	0.83
CO2_EF (kg/gallon-diesel)*	10.21
BSFC (lb/hp-hr)	0.367
Unit conversion (lb/gallon)	7.109

*Reference: www.epa.gov/sites/production/files/2015-

Results	
Fuel Used (gallon)	743
NOx Emissions (kg)	150.7
PM Emissions (kg)	6.0
THC Emissions (kg)	11.9
CO2 Emissions (kg)	7590.2
NOx Emission Factor (including deterioration and fuel correction factor): gram/bhp-hr	10.47
PM Emission Factor (including deterioration and fuel correction factor): gram/bhp-hr	0.42
THC Emission Factor (including deterioration and fuel correction factor): gram/ bhp-hr	0.83

Loac Factor Lookup Table

Equipment Category	Equipment Type	Details	Load Factor
Agriculture equipment	Agricultural tractors		0.48
	Combine harvesters		0.44
	Forage & silage harvesters		0.44
	Cotton pickers		0.44
	Nut harvester		0.44
	Other harvesters		0.44
	Balers (self propelled)		0.50
	Bale wagons (self propelled)		0.50
	Swathers/windrowers/hay conditioners		0.48
	Hay Squeeze/Stack retriever		0.42
	Sprayers/Spray rigs		0.42
	Construction equipment		0.40
	Other non-mobile		0.48
	Forklifts		0.40
	Atvs		0.40
	Others		0.40
Portable equipment	All portable equipment		0.31
Cargo Handling Equipment	Construction equipment		0.55
	Container handling equipment		0.59
	Forklift		0.30
	Other general industrial equipment		0.51
	Rtg crane		0.20
	Yard tractor		0.39

[redacted]

Equipment Category	Equipment Type	Details	Load Factor
Transport Refrigeration Units (TRU)	TRU on trailers	25 HP and over, MY2012 and Older	0.46
	TRU on trailers	25 HP and over, MY2013 and Newer	0.38
	TRU on trailers	23 HP and Over, below 25 HP, All years	0.46
	TRU on trucks	Below 23 HP, All Model years	0.56
	TRU on railcars	25 HP and over, MY2012 and Older	0.33
	TRU on railcars	25 HP and over, MY2013 and Newer	0.27
	TRU on railcars	Below 25 HP, All Model years	0.33
	TRU with generators	25 HP and over, MY2012 and Older	0.46
	TRU with generators	25 HP and Over, MY2013 and Newer	0.38
	TRU with generators	23 HP and Over, below 25 HP, All Model Years	0.46
Ground Support Equipment	Passenger Stand		0.40
	A/C Tug Narrow Body		0.54
	A/C Tug Wide Body		0.54
	Baggage Tug		0.37
	Belt Loader		0.34
	Bobtail		0.37
	Cargo Loader		0.34
	Cargo Tractor		0.36
	Forklift (GSE)		0.20
	Lift (GSE)		0.34
	Other GSE		0.34
Construction and Industrial Equipment	Cranes		0.29
	Crawler Tractors		0.43
	Excavators		0.38
	Graders		0.41
	Off-Highway Tractors		0.44
	Off-Highway Trucks		0.38
	Other Construction Equipment		0.42
	Pavers		0.42
	Paving Equipment		0.36
	Rollers		0.38
	Rough Terrain Forklifts		0.40
	Rubber Tired Dozers		0.40
	Rubber Tired Loaders		0.36
	Scrapers		0.48
	Skid Steer Loaders		0.37
	Surfacing Equipment		0.30
	Tractors/Loaders/Backhoes		0.37
	Trenchers		0.50
	Aerial Lifts		0.31
	Forklifts		0.20
	Other General Industrial Equipment		0.34
	Other Material Handling Equipment		0.40
	Sweepers/Scrubbers		0.46
Oil and Drill Rigs	Drill Rig (Mobile)		0.50
	Workover Rig (Mobile)		0.50
	Bore/Drill Rigs		0.50

Worker Fuel Consumption Factor **Year: 2031**

Vehicle Category	VMT (mi/day)	Fuel Consumption (1000gal/day)	Fuel Consumption Factor (gal/mi)	Fuel Economy (mi/gal)	Fleet Mix	Fuel Consumption Factor (gal/mi)
LDA	202073957.9	6073.25	0.030	33.27	60%	0.033
LDT1	16644309.53	603.52	0.036	27.58	5%	
LDT2	116261058.6	4225.02	0.036	27.52	35%	

Source: EMFAC2021, **Output:** Onroad Emissions, **Model Version:** EMFAC2021 v1.0.2, **Air District:** SCAQMD, **Vehicle Categories:** EMFAC2007, **Model Year:** Aggregate, **Speed:** Aggregate, **Fuel:** All, **Output Unit:** tons/operation day

2031

Vehicle Category	VMT (miles/day)	Fuel Consumption (1000 gal/day)	Fuel Consumption Factor (gal/mi)	Fuel Economy (mi/gal)	Fleet Mix	Fuel Consumption Factor (gal/mi)
HHDT	14849543.74	2206.9	0.149	6.73	75%	0.139
MHDT	4888756.779	529.9	0.108	9.23	25%	

Source: EMFAC2021, **Output:** Onroad Emissions, **Model Version:** EMFAC2021 v1.0.2, **Air District:** SCAQMD, **Vehicle Categories:** EMFAC2007, **Model Year:** Aggregate, **Speed:** Aggregate, **Fuel:** All, **Output Unit:** tons/operation day

Construction Duration (years)

Start	End	Days	Total Duration
1/1/2034	12/31/2036	1,095	3.00

Segment Los Angeles to Anaheim
Year 2040

	Station	County	Annual VMT Savings (miles)	Avoided Fuel/Electricity Consumption (gallons/year, kWh/year)			Avoided Energy Consumption
				Diesel	Gasoline	Electric	MMBtu/Year
Phase 1 Option A Fullerton Option	Los Angeles	Los Angeles	1,672,548,698	65,709.70	47,366,589.92	67,854,879.43	6,161,478.30
	Norwalk	Los Angeles	0	0.00	0.00	0.00	0.00
	Fullerton	Orange	377,233,224	13,428.73	10,171,707.61	16,167,313.02	1,328,495.16
	Anaheim	Orange	715,083,794	25,455.51	19,281,502.28	30,646,779.76	2,518,297.16
	Total	--	2,764,865,716	104,594	76,819,800	114,668,972	10,008,271

	Station	County	Annual VMT Savings (miles)	Avoided Fuel/Electricity Consumption (gallons/year, kWh/year)			Avoided Energy Consumption
				Diesel	Gasoline	Electric	MMBtu/Year
Phase 1 Option B Norwalk Option	Los Angeles	Los Angeles	1,632,641,514	64,141.86	46,236,418.21	66,235,855.03	6,014,464.79
	Norwalk	Los Angeles	276,798,182	10,874.62	7,838,926.29	11,229,632.52	1,019,692.87
	Fullerton	Orange	0	0.00	0.00	0.00	0.00
	Anaheim	Orange	861,345,271	30,662.12	23,225,293.25	36,915,196.58	3,033,383.46
	Total	--	2,770,784,967	105,679	77,300,638	114,380,684	10,067,541

	Station	County	Annual VMT Savings (miles)	Avoided Fuel/Electricity Consumption (gallons/year, kWh/year)			Avoided Energy Consumption
				Diesel	Gasoline	Electric	MMBtu/Year
Phase 1 Option C Nonstop Option	Los Angeles	Los Angeles	1,741,149,893	68,404.85	49,309,376.22	70,638,012.65	6,414,197.26
	Norwalk	Los Angeles	0	0.00	0.00	0.00	0.00
	Fullerton	Orange	0	0.00	449,577.78	3,896,233.76	69,494.95
	Anaheim	Orange	962,117,282	34,249.39	25,942,507.34	41,234,043.76	3,388,270.36
	Total	--	2,703,267,176	102,654	75,701,461	115,768,290	9,871,963

Notes:

Annual VMT Savings calculted by dividing estimated passenger miles traveled by the average vehicle occupancy (1.8), see "Total-AQ" tab.
PM10 and PM2.5 emission estimates include re-entrained roadway dust (paved road dust).
Emissions calculated based on EMFAC2021 2040 fleet mix data for Los Angeles County and Orange County. Avoided VMT assumed to be passenger vehicle cars (LDA, LDT1, LDT2, and MCY).
Avoided energy consumption calculated based on vehicle fuel types (2040) in Los Angeles County and Orange County.

GWP Values

CO2	1
CH4	25
N2O	298

Source: IPCC 4th Assessment 100-yr GWP, consistent with CARB's 2000-2021 GHG Inventory

Conversion Factors

Category	Amount	Units
Distillate Fuel Oil No. 2	0.138	MMBtu/gallon
Motor Gasoline	0.125	MMBtu/gallon
Electricity	293	kWh/MMBtu

Source: The Climate Registry 2023 Default Emission Factors
Bureau of Transportation Statistics (2023): https://www.bts.gov/content/energy-consumption-mode-transportation

Unit Conversions

short tons	metric tons
1	0.907185

Energy Demand (HSR Operations)

Building Square Footages

Component/Station	Square Footage
LMF Level III (either option anticipated to be the same square footage)	264,000
Intermediate Station - Fullerton	81,200
Intermediate Station - Santa Fe Springs/Norwalk	99,490

Source: Email Communication, Air Quality Support, from James Swanson, STV Inc. (2024Jan23)

Station Energy Usage (kWh/square foot)	**14.30**
Source: Station energy usage is assumed to be 14.3 kWh per square foot, based on the Energy Information Agency's average for retail buildings (From 2020 Business Plan, https://hsr.ca.gov/wp-content/uploads/docs/about/business_plans/2020_Business_Plan_Operations_and_Maintenance_Cost_Model.pdf) based on Ian Kroll's feedback in 2024Jan19 email.	

					tons/year	
Station/Facility Energy Consumption	**Station/LMF Building Areas (square feet)**	**Energy Consumption (kWh)**	**Energy Consumption (MWh)**	**MMBtu**	**NOx**	**SO2**
Phase 1 Option A Fullerton Option	345,200	4,936,360	4936.36	16,843.56	0.99467654	0.0370227
Phase 1 Option B Norwalk Option	363,490	5,197,907	5197.907	17,736.00	1.047378261	0.038984303
Phase 1 Option C Nonstop Option	264,000	3,775,200	3775.2	12,881.52	0.7607028	0.028314

				tons/year		MT/year
	Trainset Energy Demand (GWh)	**Trainset Energy Demand (MWh)**	**MMBtu**	**NOx**	**SO2**	**CO2e**
Phase 1 (San Francisco to Anaheim, 58 trainsets)	1,040	1,040,484.85	3,550,282.05	209.66	7.80	215,915.40

Source: Based on 2020 Business Plan of 1,184 GWh for Phase 1, with 66 trains being operational, scaled to 58 trainsets. (https://hsr.ca.gov/wp-content/uploads/docs/about/business_plans/2020_Business_Plan_Operations_and_Maintenance_Cost_Model.pdf) based on Ian Kroll feedback in 2024Jan19 email.

Note: It is conservative to report all of Phase 1 energy demand for LA-A.

Segment Energy Consumption	**MMBtu/year**	**Total**
LA-A	198,815.79	
Alt A/B LMF	12,881.52	211,697.31
& Norwalk/SFS	17,736.00	216,551.79
& Fullerton	16,843.56	215,659.36

eGRID Emissions Data (CA) 2022	**lb/MWh**
CO2e	457.49
NOx	0.403
SO2	0.015

Source: eGrid 2022 Output Emission Rates at the state level (CA) (https://www.epa.gov/egrid/data-explorer)

Note: Conservative approach as HSR has committed to 100% renewable energy per 2013 Policy Directive POLI-PLAN-03.

Unit Conversions

kWh	MWh
1000	1
MWh	GWh
1000	1
lbs	ton
2000	1
lbs	metric ton
2204.62	1
MMBtu	MWh
3.412142	1

Projected Outcomes	**Alternatives A&B**	**Alternatives A&B, I**	**Alternatives A&B, Fullerton Station (MMBtu/year)**
Reduced VMT	-9,871,962.57	-10,067,541.13	-10,008,270.62
Increased Energy Demand	211,697.31	216,551.79	215,659.36
Net Change in Energy Demand	-9,660,265.26	-9,850,989.34	-9,792,611.26

CA_HSR_LA-A_Fullerton-Station Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	CA_HSR_LA-A_Fullerton-Station
Operational Year	2040
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	1.80
Precipitation (days)	18.8
Location	33.86849198649651, -117.92658159504842
County	Orange
City	Fullerton
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5763
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.22

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
Unenclosed Parking with Elevator	0.00	1000sqft	0.00	0.00	0.00	—	—	—

Unrefrigerated Warehouse-Rail	81.2	1000sqft	2.20	81,200	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.	2.03	3.80	4.62	8.66	0.01	0.16	0.87	1.03	0.16	0.22	0.38	49.4	2,241	2,291	5.12	0.06	0.40	2,438
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.40	3.21	4.60	4.94	0.01	0.15	0.87	1.02	0.15	0.22	0.37	49.4	2,197	2,246	5.12	0.07	0.01	2,394
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.83	3.61	4.62	7.41	0.01	0.16	0.86	1.02	0.16	0.22	0.37	49.4	2,215	2,264	5.12	0.07	0.17	2,412
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.33	0.66	0.84	1.35	< 0.005	0.03	0.16	0.19	0.03	0.04	0.07	8.17	367	375	0.85	0.01	0.03	399

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	0.33	0.30	0.18	2.59	0.01	< 0.005	0.87	0.87	< 0.005	0.22	0.22	—	768	768	0.03	0.03	0.40	777
Area	0.63	2.52	0.03	3.53	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	14.5	14.5	< 0.005	< 0.005	—	14.6
Energy	0.01	0.01	0.10	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	944	944	0.12	0.01	—	951
Water	—	—	—	—	—	—	—	—	—	—	—	8.23	20.9	29.1	0.85	0.02	—	56.4
Waste	—	—	—	—	—	—	—	—	—	—	—	41.1	0.00	41.1	4.11	0.00	—	144
Stationary	1.06	0.96	4.31	2.46	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	0.00	493	493	0.02	< 0.005	0.00	495
Total	2.03	3.80	4.62	8.66	0.01	0.16	0.87	1.03	0.16	0.22	0.38	49.4	2,241	2,291	5.12	0.06	0.40	2,438
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.33	0.30	0.19	2.40	0.01	< 0.005	0.87	0.87	< 0.005	0.22	0.22	—	738	738	0.03	0.03	0.01	747
Area	—	1.94	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.01	0.01	0.10	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	944	944	0.12	0.01	—	951
Water	—	—	—	—	—	—	—	—	—	—	—	8.23	20.9	29.1	0.85	0.02	—	56.4
Waste	—	—	—	—	—	—	—	—	—	—	—	41.1	0.00	41.1	4.11	0.00	—	144
Stationary	1.06	0.96	4.31	2.46	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	0.00	493	493	0.02	< 0.005	0.00	495
Total	1.40	3.21	4.60	4.94	0.01	0.15	0.87	1.02	0.15	0.22	0.37	49.4	2,197	2,246	5.12	0.07	0.01	2,394
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.33	0.30	0.19	2.46	0.01	< 0.005	0.86	0.86	< 0.005	0.22	0.22	—	746	746	0.03	0.03	0.17	756
Area	0.43	2.34	0.02	2.42	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.95	9.95	< 0.005	< 0.005	—	9.98
Energy	0.01	0.01	0.10	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	944	944	0.12	0.01	—	951
Water	—	—	—	—	—	—	—	—	—	—	—	8.23	20.9	29.1	0.85	0.02	—	56.4
Waste	—	—	—	—	—	—	—	—	—	—	—	41.1	0.00	41.1	4.11	0.00	—	144

Stationary	1.06	0.96	4.31	2.46	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	0.00	493	493	0.02	< 0.005	0.00	495
Total	1.83	3.61	4.62	7.41	0.01	0.16	0.86	1.02	0.16	0.22	0.37	49.4	2,215	2,264	5.12	0.07	0.17	2,412
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.06	0.05	0.04	0.45	< 0.005	< 0.005	0.16	0.16	< 0.005	0.04	0.04	—	124	124	< 0.005	< 0.005	0.03	125
Area	0.08	0.43	< 0.005	0.44	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.65	1.65	< 0.005	< 0.005	—	1.65
Energy	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	156	156	0.02	< 0.005	—	157
Water	—	—	—	—	—	—	—	—	—	—	—	1.36	3.46	4.82	0.14	< 0.005	—	9.33
Waste	—	—	—	—	—	—	—	—	—	—	—	6.81	0.00	6.81	0.68	0.00	—	23.8
Stationary	0.19	0.18	0.79	0.45	< 0.005	0.03	0.00	0.03	0.03	0.00	0.03	0.00	81.7	81.7	< 0.005	< 0.005	0.00	82.0
Total	0.33	0.66	0.84	1.35	< 0.005	0.03	0.16	0.19	0.03	0.04	0.07	8.17	367	375	0.85	0.01	0.03	399

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Unrefrigerated Warehouse-Rail	0.33	0.30	0.18	2.59	0.01	< 0.005	0.87	0.87	< 0.005	0.22	0.22	—	768	768	0.03	0.03	0.40	777
Total	0.33	0.30	0.18	2.59	0.01	< 0.005	0.87	0.87	< 0.005	0.22	0.22	—	768	768	0.03	0.03	0.40	777
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-Rail	0.33	0.30	0.19	2.40	0.01	< 0.005	0.87	0.87	< 0.005	0.22	0.22	—	738	738	0.03	0.03	0.01	747
Total	0.33	0.30	0.19	2.40	0.01	< 0.005	0.87	0.87	< 0.005	0.22	0.22	—	738	738	0.03	0.03	0.01	747
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-Rail	0.06	0.05	0.04	0.45	< 0.005	< 0.005	0.16	0.16	< 0.005	0.04	0.04	—	124	124	< 0.005	< 0.005	0.03	125
Total	0.06	0.05	0.04	0.45	< 0.005	< 0.005	0.16	0.16	< 0.005	0.04	0.04	—	124	124	< 0.005	< 0.005	0.03	125

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	—	—	830	830	0.10	0.01	—	836
Total	—	—	—	—	—	—	—	—	—	—	—	—	830	830	0.10	0.01	—	836
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	—	—	830	830	0.10	0.01	—	836
Total	—	—	—	—	—	—	—	—	—	—	—	—	830	830	0.10	0.01	—	836
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	—	—	137	137	0.02	< 0.005	—	138
Total	—	—	—	—	—	—	—	—	—	—	—	—	137	137	0.02	< 0.005	—	138

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-Rail	0.01	0.01	0.10	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	115	115	0.01	< 0.005	—	115
Total	0.01	0.01	0.10	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	115	115	0.01	< 0.005	—	115
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-Rail	0.01	0.01	0.10	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	115	115	0.01	< 0.005	—	115

Total	0.01	0.01	0.10	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	115	115	0.01	< 0.005	—	115
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-Rail	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	19.0	19.0	< 0.005	< 0.005	—	19.0
Total	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	19.0	19.0	< 0.005	< 0.005	—	19.0

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	—	1.74	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.63	0.58	0.03	3.53	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	14.5	14.5	< 0.005	< 0.005	—	14.6
Total	0.63	2.52	0.03	3.53	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	14.5	14.5	< 0.005	< 0.005	—	14.6

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	1.74	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	1.94	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.32	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.08	0.07	< 0.005	0.44	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.65	1.65	< 0.005	< 0.005	—	1.65
Total	0.08	0.43	< 0.005	0.44	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.65	1.65	< 0.005	< 0.005	—	1.65

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	—	8.23	20.9	29.1	0.85	0.02	—	56.4
Total	—	—	—	—	—	—	—	—	—	—	—	8.23	20.9	29.1	0.85	0.02	—	56.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	—	8.23	20.9	29.1	0.85	0.02	—	56.4
Total	—	—	—	—	—	—	—	—	—	—	—	8.23	20.9	29.1	0.85	0.02	—	56.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	—	1.36	3.46	4.82	0.14	< 0.005	—	9.33
Total	—	—	—	—	—	—	—	—	—	—	—	1.36	3.46	4.82	0.14	< 0.005	—	9.33

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)

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	—	41.1	0.00	41.1	4.11	0.00	—	144
Total	—	—	—	—	—	—	—	—	—	—	—	41.1	0.00	41.1	4.11	0.00	—	144
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	—	41.1	0.00	41.1	4.11	0.00	—	144
Total	—	—	—	—	—	—	—	—	—	—	—	41.1	0.00	41.1	4.11	0.00	—	144
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Unrefrige Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	—	6.81	0.00	6.81	0.68	0.00	—	23.8
Total	—	—	—	—	—	—	—	—	—	—	—	6.81	0.00	6.81	0.68	0.00	—	23.8

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

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)

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	1.06	0.96	4.31	2.46	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	0.00	493	493	0.02	< 0.005	0.00	495
Total	1.06	0.96	4.31	2.46	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	0.00	493	493	0.02	< 0.005	0.00	495
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	1.06	0.96	4.31	2.46	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	0.00	493	493	0.02	< 0.005	0.00	495
Total	1.06	0.96	4.31	2.46	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	0.00	493	493	0.02	< 0.005	0.00	495
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Emergency	0.19	0.18	0.79	0.45	< 0.005	0.03	0.00	0.03	0.03	0.00	0.03	0.00	81.7	81.7	< 0.005	< 0.005	0.00	82.0
Total	0.19	0.18	0.79	0.45	< 0.005	0.03	0.00	0.03	0.03	0.00	0.03	0.00	81.7	81.7	< 0.005	< 0.005	0.00	82.0

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-Rail	141	141	141	51,570	1,231	1,231	1,231	449,358

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	121,800	40,600	—

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

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)
Unenclosed Parking with Elevator	0.00	261	0.0330	0.0040	0.00
Unrefrigerated Warehouse-Rail	1,161,160	261	0.0330	0.0040	358,019

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unenclosed Parking with Elevator	0.00	0.00
Regional Shopping Center	4,294,668	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unenclosed Parking with Elevator	0.00	—
Unrefrigerated Warehouse-Rail	76.3	—

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

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
Emergency Generator	Diesel	1.00	0.55	200	1,073	0.73

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	11.9	annual days of extreme heat
Extreme Precipitation	4.35	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (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	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

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

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	51.9
AQ-PM	86.1
AQ-DPM	58.1
Drinking Water	75.7
Lead Risk Housing	74.4
Pesticides	0.00
Toxic Releases	87.7
Traffic	38.0
Effect Indicators	—
CleanUp Sites	83.9
Groundwater	75.4
Haz Waste Facilities/Generators	64.8
Impaired Water Bodies	0.00
Solid Waste	70.4
Sensitive Population	—
Asthma	54.7
Cardio-vascular	23.5
Low Birth Weights	4.18
Socioeconomic Factor Indicators	—

Education	14.8
Housing	49.0
Linguistic	7.38
Poverty	43.7
Unemployment	60.6

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	70.48633389
Employed	67.86860003
Median HI	62.09418709
Education	—
Bachelor's or higher	71.48723213
High school enrollment	100
Preschool enrollment	90.1321699
Transportation	—
Auto Access	38.0341332
Active commuting	65.0455537
Social	—
2-parent households	48.47940459
Voting	42.12755037
Neighborhood	—
Alcohol availability	27.42204543
Park access	55.25471577
Retail density	82.26613628

Supermarket access	63.40305402
Tree canopy	53.36840755
Housing	—
Homeownership	20.90337482
Housing habitability	28.02515078
Low-inc homeowner severe housing cost burden	69.71641216
Low-inc renter severe housing cost burden	81.41922238
Uncrowded housing	59.34813294
Health Outcomes	—
Insured adults	68.95932247
Arthritis	67.1
Asthma ER Admissions	53.7
High Blood Pressure	69.1
Cancer (excluding skin)	34.5
Asthma	61.7
Coronary Heart Disease	63.8
Chronic Obstructive Pulmonary Disease	65.3
Diagnosed Diabetes	84.4
Life Expectancy at Birth	65.6
Cognitively Disabled	33.5
Physically Disabled	52.4
Heart Attack ER Admissions	40.4
Mental Health Not Good	64.8
Chronic Kidney Disease	79.8
Obesity	81.6
Pedestrian Injuries	19.6
Physical Health Not Good	72.6

Stroke	70.4
Health Risk Behaviors	—
Binge Drinking	8.3
Current Smoker	59.6
No Leisure Time for Physical Activity	66.6
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	59.5
Elderly	40.9
English Speaking	66.7
Foreign-born	20.6
Outdoor Workers	38.3
Climate Change Adaptive Capacity	—
Impervious Surface Cover	28.1
Traffic Density	58.5
Traffic Access	72.9
Other Indices	—
Hardship	27.8
Other Decision Support	—
2016 Voting	66.7

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	45.0
Healthy Places Index Score for Project Location (b)	68.0
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	Per project information
Operations: Energy Use	Per project information
Operations: Water and Waste Water	Per project information

CA_HSR_LA-A_LMF 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	CA_HSR_LA-A_LMF
Operational Year	2040
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	18.4
Location	34.023084149426765, -118.22557199986072
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4082
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.22

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
Unrefrigerated Warehouse-Rail	264	1000sqft	46.0	264,000	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.	3.30	9.31	1.87	21.5	0.03	0.12	2.79	2.91	0.11	0.71	0.82	251	7,104	7,355	25.8	0.41	1.42	8,125
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.26	7.42	1.83	9.30	0.03	0.10	2.79	2.89	0.10	0.71	0.80	251	6,950	7,201	25.8	0.42	0.04	7,970
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.65	8.70	1.90	17.4	0.03	0.11	2.76	2.87	0.11	0.70	0.81	251	7,011	7,262	25.8	0.42	0.61	8,032
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.48	1.59	0.35	3.17	0.01	0.02	0.50	0.52	0.02	0.13	0.15	41.5	1,161	1,202	4.27	0.07	0.10	1,330

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	1.14	1.04	0.65	9.10	0.03	0.01	2.79	2.80	0.01	0.71	0.72	—	2,596	2,596	0.10	0.09	1.42	2,628
Area	2.04	8.21	0.10	11.5	< 0.005	0.02	—	0.02	0.02	—	0.02	—	47.2	47.2	< 0.005	< 0.005	—	47.4
Energy	0.12	0.06	1.12	0.94	0.01	0.09	—	0.09	0.09	—	0.09	—	3,675	3,675	0.28	0.03	—	3,690
Water	—	—	—	—	—	—	—	—	—	—	—	117	786	903	12.1	0.29	—	1,292
Waste	—	—	—	—	—	—	—	—	—	—	—	134	0.00	134	13.4	0.00	—	468
Total	3.30	9.31	1.87	21.5	0.03	0.12	2.79	2.91	0.11	0.71	0.82	251	7,104	7,355	25.8	0.41	1.42	8,125
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.13	1.03	0.71	8.36	0.02	0.01	2.79	2.80	0.01	0.71	0.72	—	2,489	2,489	0.10	0.10	0.04	2,520
Area	—	6.32	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.12	0.06	1.12	0.94	0.01	0.09	—	0.09	0.09	—	0.09	—	3,675	3,675	0.28	0.03	—	3,690
Water	—	—	—	—	—	—	—	—	—	—	—	117	786	903	12.1	0.29	—	1,292
Waste	—	—	—	—	—	—	—	—	—	—	—	134	0.00	134	13.4	0.00	—	468
Total	1.26	7.42	1.83	9.30	0.03	0.10	2.79	2.89	0.10	0.71	0.80	251	6,950	7,201	25.8	0.42	0.04	7,970
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.12	1.02	0.71	8.58	0.02	0.01	2.76	2.77	0.01	0.70	0.71	—	2,518	2,518	0.10	0.10	0.61	2,550
Area	1.40	7.61	0.07	7.86	< 0.005	0.01	—	0.01	0.01	—	0.01	—	32.3	32.3	< 0.005	< 0.005	—	32.5
Energy	0.12	0.06	1.12	0.94	0.01	0.09	—	0.09	0.09	—	0.09	—	3,675	3,675	0.28	0.03	—	3,690
Water	—	—	—	—	—	—	—	—	—	—	—	117	786	903	12.1	0.29	—	1,292
Waste	—	—	—	—	—	—	—	—	—	—	—	134	0.00	134	13.4	0.00	—	468
Total	2.65	8.70	1.90	17.4	0.03	0.11	2.76	2.87	0.11	0.70	0.81	251	7,011	7,262	25.8	0.42	0.61	8,032
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.21	0.19	0.13	1.57	< 0.005	< 0.005	0.50	0.51	< 0.005	0.13	0.13	—	417	417	0.02	0.02	0.10	422
Area	0.26	1.39	0.01	1.44	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.35	5.35	< 0.005	< 0.005	—	5.37
Energy	0.02	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	—	608	608	0.05	< 0.005	—	611
Water	—	—	—	—	—	—	—	—	—	—	—	19.4	130	150	2.00	0.05	—	214
Waste	—	—	—	—	—	—	—	—	—	—	—	22.1	0.00	22.1	2.21	0.00	—	77.5

Total	0.48	1.59	0.35	3.17	0.01	0.02	0.50	0.52	0.02	0.13	0.15	41.5	1,161	1,202	4.27	0.07	0.10	1,330

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-Rail	1.14	1.04	0.65	9.10	0.03	0.01	2.79	2.80	0.01	0.71	0.72	—	2,596	2,596	0.10	0.09	1.42	2,628
Total	1.14	1.04	0.65	9.10	0.03	0.01	2.79	2.80	0.01	0.71	0.72	—	2,596	2,596	0.10	0.09	1.42	2,628
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-Rail	1.13	1.03	0.71	8.36	0.02	0.01	2.79	2.80	0.01	0.71	0.72	—	2,489	2,489	0.10	0.10	0.04	2,520
Total	1.13	1.03	0.71	8.36	0.02	0.01	2.79	2.80	0.01	0.71	0.72	—	2,489	2,489	0.10	0.10	0.04	2,520
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-Rail	0.21	0.19	0.13	1.57	< 0.005	< 0.005	0.50	0.51	< 0.005	0.13	0.13	—	417	417	0.02	0.02	0.10	422
Total	0.21	0.19	0.13	1.57	< 0.005	< 0.005	0.50	0.51	< 0.005	0.13	0.13	—	417	417	0.02	0.02	0.10	422

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	—	—	2,335	2,335	0.17	0.02	—	2,346
Total	—	—	—	—	—	—	—	—	—	—	—	—	2,335	2,335	0.17	0.02	—	2,346
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	—	—	2,335	2,335	0.17	0.02	—	2,346
Total	—	—	—	—	—	—	—	—	—	—	—	—	2,335	2,335	0.17	0.02	—	2,346
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	—	—	387	387	0.03	< 0.005	—	388
Total	—	—	—	—	—	—	—	—	—	—	—	—	387	387	0.03	< 0.005	—	388

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-Rail	0.12	0.06	1.12	0.94	0.01	0.09	—	0.09	0.09	—	0.09	—	1,340	1,340	0.12	< 0.005	—	1,344
Total	0.12	0.06	1.12	0.94	0.01	0.09	—	0.09	0.09	—	0.09	—	1,340	1,340	0.12	< 0.005	—	1,344
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-Rail	0.12	0.06	1.12	0.94	0.01	0.09	—	0.09	0.09	—	0.09	—	1,340	1,340	0.12	< 0.005	—	1,344
Total	0.12	0.06	1.12	0.94	0.01	0.09	—	0.09	0.09	—	0.09	—	1,340	1,340	0.12	< 0.005	—	1,344
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-Rail	0.02	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	—	222	222	0.02	< 0.005	—	222
Total	0.02	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	—	222	222	0.02	< 0.005	—	222

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	—	5.65	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architect Coatings	—	0.67	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	2.04	1.89	0.10	11.5	< 0.005	0.02	—	0.02	0.02	—	0.02	—	47.2	47.2	< 0.005	< 0.005	—	47.4
Total	2.04	8.21	0.10	11.5	< 0.005	0.02	—	0.02	0.02	—	0.02	—	47.2	47.2	< 0.005	< 0.005	—	47.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	5.65	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.67	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	6.32	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	1.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.26	0.24	0.01	1.44	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.35	5.35	< 0.005	< 0.005	—	5.37
Total	0.26	1.39	0.01	1.44	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.35	5.35	< 0.005	< 0.005	—	5.37

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	—	117	786	903	12.1	0.29	—	1,292
Total	—	—	—	—	—	—	—	—	—	—	—	117	786	903	12.1	0.29	—	1,292
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	—	117	786	903	12.1	0.29	—	1,292
Total	—	—	—	—	—	—	—	—	—	—	—	117	786	903	12.1	0.29	—	1,292
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	—	19.4	130	150	2.00	0.05	—	214
Total	—	—	—	—	—	—	—	—	—	—	—	19.4	130	150	2.00	0.05	—	214

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrige Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	—	134	0.00	134	13.4	0.00	—	468
Total	—	—	—	—	—	—	—	—	—	—	—	134	0.00	134	13.4	0.00	—	468
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrige rated Warehou se-Rail	—	—	—	—	—	—	—	—	—	—	—	134	0.00	134	13.4	0.00	—	468
Total	—	—	—	—	—	—	—	—	—	—	—	134	0.00	134	13.4	0.00	—	468
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrige rated Warehou se-Rail	—	—	—	—	—	—	—	—	—	—	—	22.1	0.00	22.1	2.21	0.00	—	77.5
Total	—	—	—	—	—	—	—	—	—	—	—	22.1	0.00	22.1	2.21	0.00	—	77.5

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)

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7. 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)

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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
Unrefrigerated Warehouse-Rail	459	459	459	167,666	3,935	3,935	3,935	1,436,406

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	396,000	132,000	—

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

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)
Unrefrigerated Warehouse-Rail	1,234,682	690	0.0489	0.0069	4,180,720

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-Rail	61,050,000	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-Rail	248	—

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

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	9.52	annual days of extreme heat
Extreme Precipitation	6.15	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (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	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A

Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

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

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	51.0
AQ-PM	90.2
AQ-DPM	96.2
Drinking Water	92.5
Lead Risk Housing	31.7
Pesticides	0.00
Toxic Releases	82.6
Traffic	88.3
Effect Indicators	—
CleanUp Sites	100.0
Groundwater	95.2
Haz Waste Facilities/Generators	100.0
Impaired Water Bodies	66.7
Solid Waste	100
Sensitive Population	—
Asthma	87.9
Cardio-vascular	19.4
Low Birth Weights	65.2
Socioeconomic Factor Indicators	—
Education	14.8
Housing	39.7
Linguistic	59.8
Poverty	48.0

Unemployment	14.4

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	65.44334659
Employed	94.00744258
Median HI	73.54035673
Education	—
Bachelor's or higher	93.08353651
High school enrollment	100
Preschool enrollment	84.88387014
Transportation	—
Auto Access	17.51571924
Active commuting	86.28256127
Social	—
2-parent households	77.76209419
Voting	16.91261388
Neighborhood	—
Alcohol availability	18.38829719
Park access	81.35506224
Retail density	67.9455922
Supermarket access	81.7400231
Tree canopy	35.96817657
Housing	—
Homeownership	21.429488

Housing habitability	4.18324137
Low-inc homeowner severe housing cost burden	22.61003465
Low-inc renter severe housing cost burden	67.90709611
Uncrowded housing	11.86962659
Health Outcomes	—
Insured adults	58.10342615
Arthritis	98.1
Asthma ER Admissions	10.8
High Blood Pressure	93.7
Cancer (excluding skin)	91.6
Asthma	95.7
Coronary Heart Disease	97.0
Chronic Obstructive Pulmonary Disease	97.2
Diagnosed Diabetes	95.0
Life Expectancy at Birth	80.7
Cognitively Disabled	41.3
Physically Disabled	96.5
Heart Attack ER Admissions	79.8
Mental Health Not Good	80.9
Chronic Kidney Disease	97.1
Obesity	86.4
Pedestrian Injuries	99.9
Physical Health Not Good	93.2
Stroke	96.9
Health Risk Behaviors	—
Binge Drinking	21.6
Current Smoker	71.8

No Leisure Time for Physical Activity	84.4
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	76.4
Elderly	88.9
English Speaking	29.3
Foreign-born	58.8
Outdoor Workers	87.9
Climate Change Adaptive Capacity	—
Impervious Surface Cover	1.0
Traffic Density	91.0
Traffic Access	87.4
Other Indices	—
Hardship	14.3
Other Decision Support	—
2016 Voting	21.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	81.0
Healthy Places Index Score for Project Location (b)	73.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
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	Per project information

CA_HSR_LA-A_Norwalk-Station 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	CA_HSR_LA-A_Norwalk-Station
Operational Year	2040
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	1.80
Precipitation (days)	8.00
Location	33.91563869500028, -118.05806387510339
County	Los Angeles-South Coast
City	Santa Fe Springs
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4842
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.22

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
Parking Lot	40.8	1000sqft	0.94	0.00	0.00	—	—	—

Unrefrigerated Warehouse-Rail	99.5	1000sqft	1.10	99,490	—	—	—	—

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.	2.29	4.48	4.70	10.8	0.02	0.16	1.25	1.41	0.16	0.32	0.48	60.5	2,829	2,890	6.28	0.09	0.63	3,073
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.52	3.76	4.69	6.13	0.02	0.15	1.25	1.40	0.15	0.32	0.47	60.5	2,763	2,824	6.28	0.09	0.02	3,007
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.04	4.25	4.72	9.19	0.02	0.16	1.24	1.40	0.16	0.32	0.47	60.5	2,789	2,849	6.28	0.09	0.27	3,032
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.37	0.78	0.86	1.68	< 0.005	0.03	0.23	0.26	0.03	0.06	0.09	10.0	462	472	1.04	0.01	0.05	502

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	0.45	0.41	0.27	3.95	0.01	< 0.005	1.25	1.25	< 0.005	0.32	0.32	—	1,156	1,156	0.04	0.04	0.63	1,170
Area	0.77	3.10	0.04	4.33	< 0.005	0.01	—	0.01	0.01	—	0.01	—	17.8	17.8	< 0.005	< 0.005	—	17.9
Energy	0.01	< 0.005	0.08	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	1,136	1,136	0.14	0.02	—	1,144
Water	—	—	—	—	—	—	—	—	—	—	—	10.1	25.6	35.7	1.04	0.02	—	69.0
Waste	—	—	—	—	—	—	—	—	—	—	—	50.4	0.00	50.4	5.04	0.00	—	176
Stationary	1.06	0.96	4.31	2.46	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	0.00	493	493	0.02	< 0.005	0.00	495
Total	2.29	4.48	4.70	10.8	0.02	0.16	1.25	1.41	0.16	0.32	0.48	60.5	2,829	2,890	6.28	0.09	0.63	3,073
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.45	0.41	0.30	3.60	0.01	< 0.005	1.25	1.25	< 0.005	0.32	0.32	—	1,108	1,108	0.04	0.04	0.02	1,122
Area	—	2.39	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.01	< 0.005	0.08	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	1,136	1,136	0.14	0.02	—	1,144
Water	—	—	—	—	—	—	—	—	—	—	—	10.1	25.6	35.7	1.04	0.02	—	69.0
Waste	—	—	—	—	—	—	—	—	—	—	—	50.4	0.00	50.4	5.04	0.00	—	176
Stationary	1.06	0.96	4.31	2.46	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	0.00	493	493	0.02	< 0.005	0.00	495
Total	1.52	3.76	4.69	6.13	0.02	0.15	1.25	1.40	0.15	0.32	0.47	60.5	2,763	2,824	6.28	0.09	0.02	3,007
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.45	0.40	0.30	3.70	0.01	< 0.005	1.24	1.25	< 0.005	0.32	0.32	—	1,121	1,121	0.04	0.04	0.27	1,135
Area	0.53	2.88	0.02	2.96	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	12.2	12.2	< 0.005	< 0.005	—	12.2
Energy	0.01	< 0.005	0.08	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	1,136	1,136	0.14	0.02	—	1,144
Water	—	—	—	—	—	—	—	—	—	—	—	10.1	25.6	35.7	1.04	0.02	—	69.0
Waste	—	—	—	—	—	—	—	—	—	—	—	50.4	0.00	50.4	5.04	0.00	—	176

Stationary	1.06	0.96	4.31	2.46	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	0.00	493	493	0.02	< 0.005	0.00	495
Total	2.04	4.25	4.72	9.19	0.02	0.16	1.24	1.40	0.16	0.32	0.47	60.5	2,789	2,849	6.28	0.09	0.27	3,032
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.08	0.07	0.06	0.68	< 0.005	< 0.005	0.23	0.23	< 0.005	0.06	0.06	—	186	186	0.01	0.01	0.05	188
Area	0.10	0.52	< 0.005	0.54	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.02	2.02	< 0.005	< 0.005	—	2.03
Energy	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	188	188	0.02	< 0.005	—	189
Water	—	—	—	—	—	—	—	—	—	—	—	1.67	4.24	5.91	0.17	< 0.005	—	11.4
Waste	—	—	—	—	—	—	—	—	—	—	—	8.34	0.00	8.34	0.83	0.00	—	29.2
Stationary	0.19	0.18	0.79	0.45	< 0.005	0.03	0.00	0.03	0.03	0.00	0.03	0.00	81.7	81.7	< 0.005	< 0.005	0.00	82.0
Total	0.37	0.78	0.86	1.68	< 0.005	0.03	0.23	0.26	0.03	0.06	0.09	10.0	462	472	1.04	0.01	0.05	502

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Unrefrigerated Warehouse-Rail	0.45	0.41	0.27	3.95	0.01	< 0.005	1.25	1.25	< 0.005	0.32	0.32	—	1,156	1,156	0.04	0.04	0.63	1,170
Total	0.45	0.41	0.27	3.95	0.01	< 0.005	1.25	1.25	< 0.005	0.32	0.32	—	1,156	1,156	0.04	0.04	0.63	1,170

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Unrefrigerated Warehouse-Rail	0.45	0.41	0.30	3.60	0.01	< 0.005	1.25	1.25	< 0.005	0.32	0.32	—	1,108	1,108	0.04	0.04	0.02	1,122
Total	0.45	0.41	0.30	3.60	0.01	< 0.005	1.25	1.25	< 0.005	0.32	0.32	—	1,108	1,108	0.04	0.04	0.02	1,122
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Unrefrigerated Warehouse-Rail	0.08	0.07	0.06	0.68	< 0.005	< 0.005	0.23	0.23	< 0.005	0.06	0.06	—	186	186	0.01	0.01	0.05	188
Total	0.08	0.07	0.06	0.68	< 0.005	< 0.005	0.23	0.23	< 0.005	0.06	0.06	—	186	186	0.01	0.01	0.05	188

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	25.5	25.5	< 0.005	< 0.005	—	25.7
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,017	1,017	0.13	0.02	—	1,024

Total	—	—	—	—	—	—	—	—	—	—	—	—	1,042	1,042	0.13	0.02	—	1,050
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	25.5	25.5	< 0.005	< 0.005	—	25.7
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,017	1,017	0.13	0.02	—	1,024
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,042	1,042	0.13	0.02	—	1,050
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	4.23	4.23	< 0.005	< 0.005	—	4.26
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	—	—	168	168	0.02	< 0.005	—	170
Total	—	—	—	—	—	—	—	—	—	—	—	—	173	173	0.02	< 0.005	—	174

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Unrefrigerated Warehouse-Rail	0.01	< 0.005	0.08	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	94.0	94.0	0.01	< 0.005	—	94.3
Total	0.01	< 0.005	0.08	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	94.0	94.0	0.01	< 0.005	—	94.3

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Unrefrigerated Warehouse-Rail	0.01	< 0.005	0.08	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	94.0	94.0	0.01	< 0.005	—	94.3
Total	0.01	< 0.005	0.08	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	94.0	94.0	0.01	< 0.005	—	94.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Unrefrigerated Warehouse-Rail	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.6	15.6	< 0.005	< 0.005	—	15.6
Total	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.6	15.6	< 0.005	< 0.005	—	15.6

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	—	2.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.26	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landsca Equipment	0.77	0.71	0.04	4.33	< 0.005	0.01	—	0.01	0.01	—	0.01	—	17.8	17.8	< 0.005	< 0.005	—	17.9
Total	0.77	3.10	0.04	4.33	< 0.005	0.01	—	0.01	0.01	—	0.01	—	17.8	17.8	< 0.005	< 0.005	—	17.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	2.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.26	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	2.39	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.39	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.10	0.09	< 0.005	0.54	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.02	2.02	< 0.005	< 0.005	—	2.03
Total	0.10	0.52	< 0.005	0.54	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.02	2.02	< 0.005	< 0.005	—	2.03

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	—	10.1	25.6	35.7	1.04	0.02	—	69.0
Total	—	—	—	—	—	—	—	—	—	—	—	10.1	25.6	35.7	1.04	0.02	—	69.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	—	10.1	25.6	35.7	1.04	0.02	—	69.0
Total	—	—	—	—	—	—	—	—	—	—	—	10.1	25.6	35.7	1.04	0.02	—	69.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	—	1.67	4.24	5.91	0.17	< 0.005	—	11.4
Total	—	—	—	—	—	—	—	—	—	—	—	1.67	4.24	5.91	0.17	< 0.005	—	11.4

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	—	50.4	0.00	50.4	5.04	0.00	—	176
Total	—	—	—	—	—	—	—	—	—	—	—	50.4	0.00	50.4	5.04	0.00	—	176
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	—	50.4	0.00	50.4	5.04	0.00	—	176
Total	—	—	—	—	—	—	—	—	—	—	—	50.4	0.00	50.4	5.04	0.00	—	176
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	—	8.34	0.00	8.34	0.83	0.00	—	29.2
Total	—	—	—	—	—	—	—	—	—	—	—	8.34	0.00	8.34	0.83	0.00	—	29.2

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

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)

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	1.06	0.96	4.31	2.46	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	0.00	493	493	0.02	< 0.005	0.00	495
Total	1.06	0.96	4.31	2.46	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	0.00	493	493	0.02	< 0.005	0.00	495
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	1.06	0.96	4.31	2.46	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	0.00	493	493	0.02	< 0.005	0.00	495
Total	1.06	0.96	4.31	2.46	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	0.00	493	493	0.02	< 0.005	0.00	495
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.19	0.18	0.79	0.45	< 0.005	0.03	0.00	0.03	0.03	0.00	0.03	0.00	81.7	81.7	< 0.005	< 0.005	0.00	82.0
Total	0.19	0.18	0.79	0.45	< 0.005	0.03	0.00	0.03	0.03	0.00	0.03	0.00	81.7	81.7	< 0.005	< 0.005	0.00	82.0

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Unrefrigerated Warehouse-Rail	173	173	173	63,186	1,760	1,760	1,760	642,536

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	149,235	49,745	2,448

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

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)
Parking Lot	35,741	261	0.0330	0.0040	0.00
Unrefrigerated Warehouse-Rail	1,422,707	261	0.0330	0.0040	293,360

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Parking Lot	0.00	0.00
Regional Shopping Center	5,262,026	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Parking Lot	0.00	—
Unrefrigerated Warehouse-Rail	93.5	—

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

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

Emergency Generator	Diesel	1.00	0.55	200	1,073	0.73

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	10.7	annual days of extreme heat
Extreme Precipitation	4.55	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (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	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

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

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	47.4

AQ-PM	75.9
AQ-DPM	78.6
Drinking Water	66.5
Lead Risk Housing	—
Pesticides	0.00
Toxic Releases	90.7
Traffic	73.8
Effect Indicators	—
CleanUp Sites	94.4
Groundwater	91.0
Haz Waste Facilities/Generators	97.2
Impaired Water Bodies	23.9
Solid Waste	96.4
Sensitive Population	—
Asthma	27.9
Cardio-vascular	45.3
Low Birth Weights	—
Socioeconomic Factor Indicators	—
Education	—
Housing	—
Linguistic	—
Poverty	—
Unemployment	—

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract

Economic	—
Above Poverty	—
Employed	—
Median HI	—
Education	—
Bachelor's or higher	—
High school enrollment	—
Preschool enrollment	—
Transportation	—
Auto Access	—
Active commuting	—
Social	—
2-parent households	—
Voting	—
Neighborhood	—
Alcohol availability	—
Park access	—
Retail density	—
Supermarket access	—
Tree canopy	—
Housing	—
Homeownership	—
Housing habitability	—
Low-inc homeowner severe housing cost burden	—
Low-inc renter severe housing cost burden	—
Uncrowded housing	—
Health Outcomes	—

Insured adults	—
Arthritis	0.0
Asthma ER Admissions	68.8
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	0.0
Cognitively Disabled	0.0
Physically Disabled	0.0
Heart Attack ER Admissions	61.1
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	0.0
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	0.0

Elderly	0.0
English Speaking	0.0
Foreign-born	0.0
Outdoor Workers	0.0
Climate Change Adaptive Capacity	—
Impervious Surface Cover	0.9
Traffic Density	0.0
Traffic Access	23.0
Other Indices	—
Hardship	0.0
Other Decision Support	—
2016 Voting	0.0

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	—
Healthy Places Index Score for Project Location (b)	—
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
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	Per project information
Operations: Energy Use	Per project information
Operations: Water and Waste Water	Per project information