APPENDIX 5

Air Quality Technical Report

AIR QUALITY TECHNICAL REPORT

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COMMITMENT & INTEGRITY DRIVE RESULTS

Inland Empire Utilities Agency
Chino Basin Program

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ATTACHMENTS

1. INTRODUCTION

This report describes environmental and regulatory setting related to air quality for Inland Empire Utility Agency's (IEUA) proposed Chino Basin Program (CBP, or Proposed Project) area. The report then describes the methodology and thresholds relied upon to assess the impacts of the Proposed Project. Finally, it identifies the impacts of the Proposed Project. This report discusses the Proposed Project impacts associated with criteria and toxic air pollutants and odors.

2. PROJECT DESCRIPTION

The CBP consists of an advanced water purification facility (AWPF), injection wells, extraction wells, groundwater treatment facilities, and a pipeline distribution network connecting the proposed facilities to local agencies and Metropolitan Water District of Southern California (MWD) for a water exchange with the State Water Project (SWP). The CBP AWPF and groundwater injection facilities would allow for the recharge/storage of up to 15,000 acre-feet per year (AFY) of recycled water in the Chino Basin, creating a new local supply. The AWPF would process 17,000 AFY of recycled water, which includes currently unused recycled water and 6,000 AFY of external supplies; 2,000 AFY of water will be lost through the AWPF process each year. The CBP would connect CBP potable water facilities to the region, as well as connections to MWD with the ability to pump CBP potable supplies into MWD's water distribution system. This connection would allow the CBP to make 50,000 AFY available to MWD in dry or critically dry years in exchange for the same amount of supply from the SWP. In return, 50,000 AFY that would otherwise have been exported to MWD would be stored in Lake Oroville and used to enhance instream flows in the Feather River. **Figure 1** shows a proposed conceptual layout of the key facilities.

The CBP will provide for an exchange of new water supplies in the Chino Basin for SWP supplies in Lake Oroville in northern California that would otherwise be delivered to southern California. The additional Lake Oroville water would subsequently be released in the form of pulse flows in the Feather River to improve habitat conditions for native salmonids and achieve environmental benefits. The 15,000 AFY of new water supply would be produced for a period of 25 years to provide for the State exchange, to be used in blocks of up to 50,000 AFY in dry and critical years when pulse flows in the Feather River would provide the most ecosystem benefit. The term for this exchange will be fixed at 25 years for a total volume of 375,000 acre-feet, after which time the CBP will be devoted to meeting local water management needs while fulfilling commitments to improve water quality in the Chino Basin and provide a source of emergency water supply. The program would be administered through agreements with California Department of Water Resources (DWR), California Department of Fish and Wildlife (CDFW), MWD, and other project partners. For every acre-foot (AF) of water requested for north of the Delta ecosystem benefits, IEUA would pump locally stored groundwater and deliver it to MWD or use the water locally instead of taking raw imported water from MWD. MWD would then leave behind an equivalent amount of water in Lake Oroville to be dedicated and released for the requested ecosystem benefit. The 375,000 AF would be recharged over 25 years and the same amount would be extracted over 25 years.

Figure 1: Conceptual Chino Basin Program Infrastructure

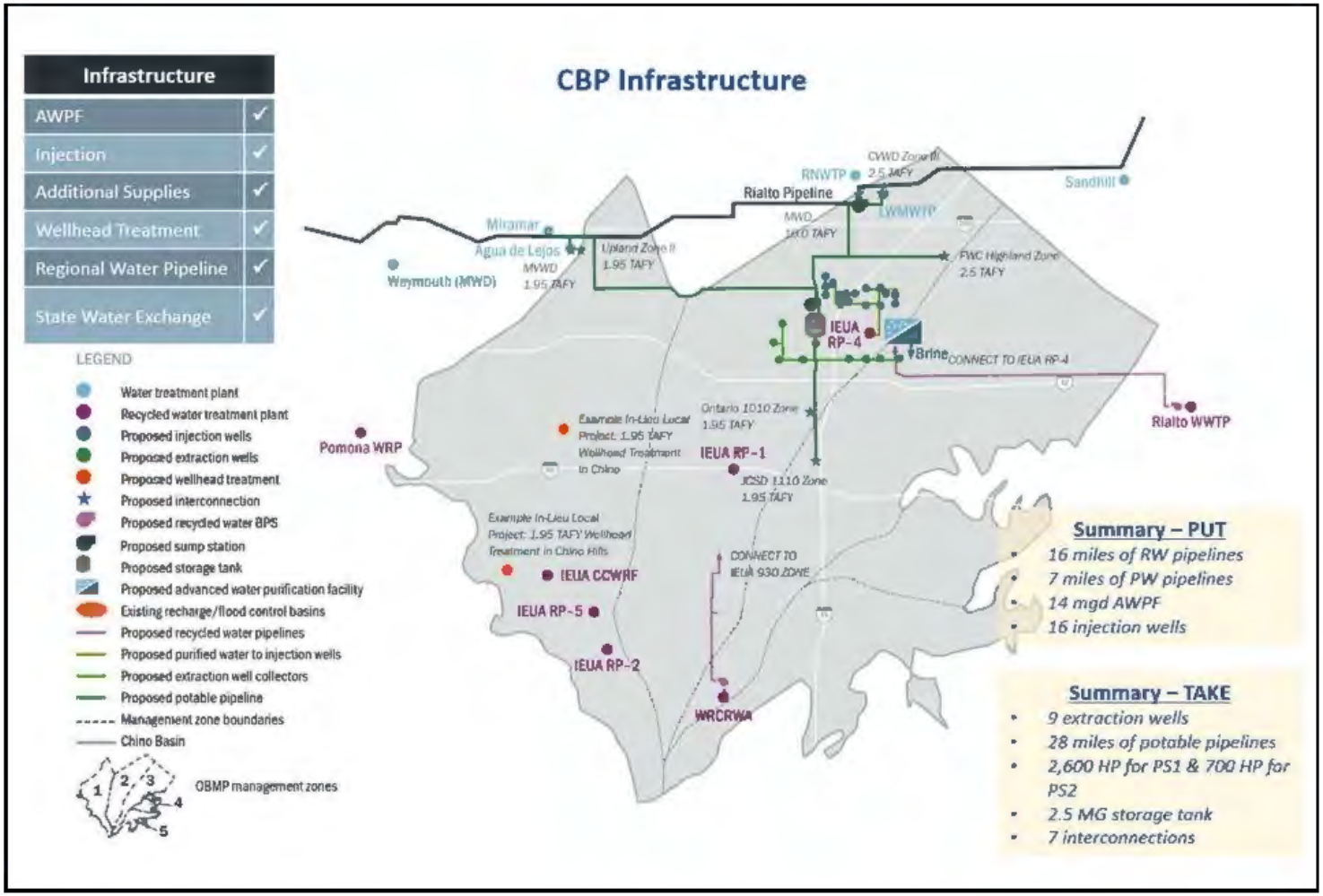


FIGURE 1

Tom Dodson & Associates *Environmental Consultants*	**CBP Infrastructure**

The Proposed Project includes two main categories of facilities: "Put" and "Take" components. The "Put" facilities include the components to recharge purified water to the Chino Basin, while the "Take" facilities include the components to extract groundwater and convey potable water supply from the Chino Basin. These components are summarized in **Table 1** and described in detail in **Table 2**.

Table 1: Summary of "Put" and "Take" Components of the Chino Basin Program

"Put" Components	"Take" Components
• Tertiary recycled water supply and conveyance • AWPF • Purified water pumping and conveyance • Groundwater recharge (injection wells and/or use of existing recharge basins)	• Groundwater extraction and treatment • Potable water pumping and conveyance • Potable water usage (MWD pump back or in-lieu)

Table 2: Detail of Chino Basin Program Infrastructure

Project Category	Infrastructure
Project Category 1: Well Development	16 injection wells (maximum) with max operational capacity of 830 gpm each 17 extraction wells (maximum) with max operational capacity of 2,000 gpm each 4 monitoring wells (maximum) Use of existing wells including a mix of up to 4 of the following: • Use of existing Rialto Pipeline • Use of existing member agency wells • Use of existing Agua de Lejos Water Treatment Plant (WTP) Clearwell • Use of existing Lloyd Michael WTP Clearwell
Project Category 2: Conveyance Facilities and Ancillary Facilities	Pipeline: The CBP would ultimately install a total of about 30 miles or 158,400 linear feet (LF) of various types of pipeline. Potential alignments include a mix of the following: • TAKE 1: 9 miles of 12- to 36-inch collector pipelines • TAKE 1: 5 miles of 54-inch potable northern pipeline • TAKE 3: 9 miles of 12- to 42-inch collector pipelines • TAKE 3: 8 miles of 16- through 48-in potable northern pipeline • TAKE 3: 4 miles of 12- through 24-inch potable southern pipeline • TAKE 3: In lieu Brine Disposal Inland Empire Brine Line (IEBL) 6,800 ft 8" pipeline, possible jack and bore across 300 ft under Hwy 71 and Chino Creek • TAKE 7: 7 miles of 36- to 72-inch e/w Water Facilities Authority (WFA) pipeline • TAKE 7: 4.5 miles 24-inch e/w Fontana Water Company (FWC) pipeline • TAKE 7: 4.5 miles 54- to 72-inch & 36-inch Cucamonga Valley Water District (CVWD)/ MWD pipeline • TAKE 7: 0.3 miles 54- to 72-inch MWD pipeline • TAKE 8: 6.3 miles of 48-inch CVWD pipeline • TAKE 8: 7 miles of 24-inch FWC-1 pipeline • TAKE 8: 0.7 miles of 24-inch FWC-2 pipeline • TAKE 8: 0.8 miles of 24-inch MWD pipeline • TAKE 8: 36-inch Jurupa Community Services District (JCSD) 2 miles • PUT 5: 7.1 miles of 8- to 30-inch pipeline for purified water conveyance • PUT 5: 1,400 ft (8-foot pipeline) Non-Reclaimable Wastewater System (NRWS) brine conveyance; NRWS Capacity Units required: 2,603 Reservoir: The CBP would install a storage tank with a maximum capacity of 5 MG with possible and in-conduit hydropower facility. Pump Stations: The CBP would install 4 pump stations serving various PUT and TAKE facilities. One pump station would serve PUT facilities, while up to 3 pump stations would

Project Category	Infrastructure
	support TAKE facilities. The breakdown of the types of pump stations and boosters include a mix of the following: • PUT 5: Pump station at Regional Water Recycling Plant No. 4 (RP-4) 1,500 HP • TAKE 1: Pump Station with a max 9,300 HP, and a max of 31,100 gpm, 823 ft total dynamic head (TDH) • TAKE 3: Potable Water Pump Station #1 with a max 7,000 HP, 23,300 gpm firm capacity, 823 ft TDH • TAKE 7: WFA Booster at 1,700 HP • TAKE 7: FWC Booster at 300 HP • TAKE 7: CVWD/MWD Booster at 4,800 HP • TAKE 8: Booster Station #1 at 5,300 HP • TAKE 8: MWD Booster at 650 HP • An additional TAKE pump station would have a max 650 HP Turnouts: The CBP would install a maximum of 6 turn-outs that would be between 12" and 72" in size to support TAKE facilities at various member agency locations throughout the Chino Basin
Project Category 3: Groundwater Storage Increase	The CBP contemplates a permanent increase in Safe Storage Capacity of 850,000 AF
Project Category 4: Advanced Water Purification Facility and Other Water Treatment Facilities	AWPF: The CBP would install an AWPF at RP-4, which will ultimately have a capacity of 15,000 AFY. The intake of recycled water at this facility will total 17,000 AFY, with a resulting 15,000 AFY of purified water derived from the AWPF processes. Wellhead Treatment: The CBP may install up to 3 wellhead treatment facilities at locations that have yet to be selected but would be sited at existing member agency offline wells. These wellhead treatment systems would be capable of treating up to 3,000 AFY per wellhead treatment system. Each of the 3 wellhead treatment systems would be connected to 3 existing member agency wells (total of 9 existing extraction wells used for the CBP). Wellhead treatment also includes the following brine conveyance and disposal: • Disposal Capacity: 4,900 gpd per wellhead treatment system • Pipeline Length: up to 6,800 LF (8-inch) • Disposal System: Assumed utilization of IEBL

2.1 Construction

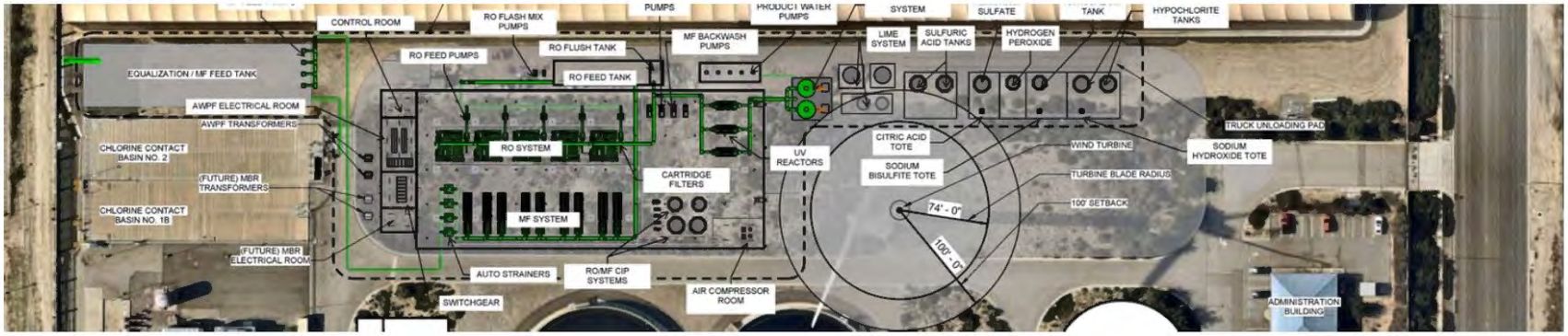
The following section summarizes the construction activity details for each Proposed Project component. The overall assumed construction vehicle fleet can be found in **Table 3**.

2.1.1 AWPF

The installation of the AWPF at IEUA's existing RP-4, located in the City of Rancho Cucamonga, would require approximately 12 months to construct. It is anticipated that the AWPF would be operational by 2028. The construction of the AWPF would consist of site clearing, grading, construction of facilities, installation of equipment, and site completion. Construction equipment would include the following: one bulldozer or motor grader, backhoes, loaders, dump trucks, crew trucks, concrete trucks, cranes, personal vehicles, compactor, delivery trucks, and a water truck. It is anticipated that the maximum number of construction personnel at a site on any given day will be 20 persons. The maximum number of truck deliveries is forecasted at 15 per day at 40-miles round-trip per day of construction. Materials and equipment would be delivered to the site including piping, building materials, concrete forms, roofing materials, HVAC equipment, pumps, diffusers, screens, belt presses, and screw presses. The site of the proposed AWPF is currently vacant (see **Figure 2**). No demolition is anticipated to be required to construct the AWPF.

Figure 2: AWPF Site

Regional Water Recycling Plant No. 4 Advanced Water Purification Facility Site Layout



Google Street view of Regional Water Recycling Plant No. 4 Advanced Water Purification Facility Site

2.1.2 Pipelines and Turnouts

With rare exceptions, all proposed pipelines would be aligned through the public right-of-way (ROW) and properties owned or to-be acquired by IEUA. Typically, pavement removal would occur, followed by excavation of the pipeline trench, installation of the pipe, then backfilling and compaction, and finally ground surface restoration or pavement reinstallation. Trenchless technologies would be required at freeway, flood channel, and railroad crossings: jack and bore for lengths less than 500 feet; and horizontal directional drilling (HDD) for lengths exceeding 500 feet. HDD involves establishing entry and exit pits, using a drill rig to create an underground bore hole, and then stringing the pipeline through the hole. Jack and bore also employs entry and exit pits but uses an auger to remove material and push a casing forward, then the pipeline is inserted in the casing. Most of the pipe would range from 10-inch to 48-inch diameter. Depending on the pipe size, the trenches may vary in depth and width. Roughly half an acre of land would be actively excavated on a given day.

An estimated 30 miles or 158,400 LF of conveyance pipeline would be installed in support of the CBP. The rate of pipeline installation would depend on whether the pipeline installation is in undeveloped areas or developed roadways. Installation of 158,400 LF of pipeline was assumed to occur over a period of 3 years, with 53,000 LF being installed each year to coincide with the opening year (2028) of the AWPF. For the purposes of analysis, it is assumed that an underground utility installation team can install an average of 200-400 LF of pipeline per day and that three teams will be installing pipelines at any given time for a maximum total of 1,200 LF per day (400 LF/team/day x 3 teams = 1,200 LF per day). It is assumed that the proposed pipeline installation will occur for a maximum of 260 days in one calendar year.

In addition to conveyance pipeline, a maximum of six turnout structures would be provided to deliver water from the main canal to the water users via a pipeline or other means. The type of turnout structure and its design requirements would depend on location. Installation of the six turnouts would occur over a period of two years, with three turnouts being installed each year to coincide with the opening year (2028) of the AWPF. For the turnouts, roughly a quarter acre of land would be actively excavated on a given day.

The daily construction fleet required to install the average 200-400 LF/day of conveyance pipelines or for each turnout consists of a pavement cutter, grinder, backhoe, crane, two dump trucks, roller/vibrator, and traffic control signage and devices operating 6 hours per day; a water truck and excavator operating 4 hours per day; and a paving machine and compacter operating 2 hours per day. In addition, the contractor may occasionally use a portable generator and welder for equipment repairs or incidental uses. Installation of pipeline in unpaved locations would require the same equipment as in paved locations, without the paving equipment (cutter, grinder, paving machine). In general, trenches would have vertical side walls to minimize the amount of soil excavated. Soils excavated from the trenches, if of suitable quality, would be stockpiled alongside the trench or in staging areas for later reuse in backfilling the trench. If not reusable, the soil would be hauled off site for disposal. Engineered backfill material would be imported to stockpiles near the trenching. During the installation of the pipelines, there would be a surplus of native soil requiring off-site export. Pipeline and turnout installation would require an estimated 10 dump/delivery trucks (40 miles round trip distance) per day, and a crew of 14 members per team (40-mile round-trip commute). For the purposes of analysis, it is assumed that each phase of pipeline construction would be occurring simultaneously at some location in the basin (i.e., one segment would be in the repaving phase while another segment begins trenching).

2.1.3 Pump Stations

Pump stations are required to pump water from areas at a lower elevation within the Basin, to areas located at a higher elevation. A total of four pump stations are anticipated to be constructed as part of the CBP. At each site, no more than 0.5 acre would be actively graded on a given day for site preparation of each pump station. Grading activities would occur over a five-day period and this phase of construction would require up to six truck trips with an average round

trip distance of 20 miles to deliver construction materials and equipment (concrete, steel, pipe, etc.). Installation of the pump station would require the use of a crane, forklift, backhoe and front loader operating four hours per day. Five workers would each commute 40 miles round-trip to the work site.

Each pump station would be housed within a block building and would require a transformer to be installed to deliver electric power to the pumps. The proposed pump station building would include a pump room, electric control room, odor control facilities, chemical tanks, and storage room. Construction of the pump station would involve installation of piping and electrical equipment, excavation and structural foundation installation, pump house construction, pump and motor installation, and final site completion.

The proposed pump stations are anticipated to be located at sites that have permanent power available for construction, as such a generator is not anticipated to be required for welding required to construct the pump stations.

2.1.4 Injection, Extraction, and Monitoring Wells

The CBP would install up to 37 new wells, (16 injection wells [12 duty, 4 stand-by], 17 extraction wells, and 4 monitoring wells). Installation of the 37 new wells would occur over a period of three years, with 12 wells being installed each year to coincide with the opening year of the AWPF, 2028. Production well, injection well, and monitoring well development have essentially the same construction impacts.

The drilling and development of each well would require drilling to—in most cases—between 250 and 1,500 feet below ground surface (bgs). The proposed schedule for constructing each well would be as follows: drilling, construction, and testing of each well would require approximately six weeks to complete (about 45 days, of which 15 to 20 days would include 24-hour, 7-day a week drill activity). For planning purposes, a construction and testing schedule duration of 60 days per well is assumed to account for unforeseen circumstances (e.g., extreme weather, equipment break downs, etc.) that could affect the drilling and testing schedule. The well casings would be welded and well development and installation would require a two week use of a diesel generator.

Development of up to 12 new wells during a given year would require the delivery and set up of the drilling rig at each site. It is anticipated the wells would be drilled at different times and the drilling equipment transported to and from the sites on separate occasions. For the purposes of this evaluation, it is assumed that delivery of the drilling equipment 12 times in a year would result in 12 50-mile round-trips for the drill rigs. It is anticipated that a crew of five persons would be on a given well site at any one time to support drilling a well: three drillers, the hydrologist inspector, and a foreman. Daily trips to complete the well would average approximately 15 round trips per day, which at various points of construction would include: two round trips for drill rigs; between six and 12 round trips for cement trucks; five trips to deliver pipe; and 10 trips per day for employees.

The average area of disturbance of each well site is estimated to be 0.5 acre or less to allow for construction, periodic well rehabilitation, and the drilling of a new well should the original well fail and need to be replaced. For analysis purposes, it is assumed that each well would be drilled using the direct rotary or fluid reverse circulation rotary drilling methods. Access to the drilling site for the drilling rig and support vehicles would be from adjacent roadways. Typically, well drilling requires only minimal earth movement or grading.

2.1.5 Wellhead Treatment Facilities

Several existing wells would require wellhead treatment in order to become operational in support of the CBP. The CBP would construct up to three wellhead treatment facilities at existing member agency wells. Two are shown in **Figure 1**, and a third could be constructed in the vicinity of the AWPF. The area expected to be disturbed by the construction of the proposed treatment facilities would be less than three acres for each site. A regional groundwater treatment facility would range from about one acre to two acres in size per facility. Construction of water treatment

facilities would involve site demolition; site paving; site prep/grading; excavation and installation of yard pipes; installation of treatment facilities; site finishing (landscaping, misc. curb/cutter, etc.); and site drainage (above and below grade). Construction equipment would include the following: one bulldozer or motor grader, backhoes, loaders, dump trucks, crew trucks, concrete trucks, cranes, personal vehicles, compactor, delivery trucks, and a water truck. It is anticipated that the maximum number of construction personnel at a site on any given day would be 10 persons. The maximum number of construction material truck deliveries would be approximately 10 per day at 40 miles round trip per day. Each wellhead treatment facility would require about six months to construct, with construction of two treatment systems assumed to occur simultaneously. The operational year is anticipated to coincide with the opening year of the AWPF, 2028.

2.1.6 Storage Reservoir

One 5 million gallon (MG) storage tank is anticipated to be required in support of the CBP. Overall, reservoir construction is anticipated to require about three months from start to finish. During mass grading of the site, an assumed 5,000 cubic yards (CY) of material would be imported as engineered backfill. The amount of material that would need to be exported is unspecified, but conservatively assumed to be roughly the same quantity (5,000 CY). This material would be delivered by trucks to the site in the amount of about 300 trips, assuming 50 trips maximum per day to and from the site, with a roundtrip length of no more than 50 miles. Fine grading of the site will be completed after the reservoir and piping are installed. A maximum of five to 12 workers would be on the site during grading, which would take place for about 10 days. Following mass excavation, the tank foundation would be installed. The foundation would consist of concrete, steel, and aggregate. It is assumed that a maximum of five to 12 workers would be on the site during foundation construction for a maximum of about 25 days. The new 5 MG storage tank would be constructed in the following fashion: floor; walls and columns; roof; prestressing; and appurtenances. It is assumed that a maximum of 12 employees would be on the site during reservoir construction for a maximum of about 50 days total (grading and construction).

Table 3 summarizes the overall construction vehicle fleet that has been assumed to be necessary for the purposes of estimating construction-related air pollutant emissions.

Table 3: Estimated Construction Equipment Fleet by Phase

Construction Phase	Modeled Daily Equipment Fleet	Unit Amount	Hours per Day	Hp	Load Factor
Well Development (assume mobilization, drilling, and construction and testing occurs simultaneously at some location in area)	Rubber Tired Dozers	4	6	247	0.4
	Tractors/Loaders/Backhoes	12	6	97	0.37
	Bore/Drill Rigs	1	24	221	0.5025
	Cranes	4	6	231	0.2881
	Welders	4	4	46	0.45
Pipelines (assume pavement cutting, excavation, install, and paving occurs simultaneously at some location in area)	Excavators	3	4	158	0.38
	Graders	1	8	187	0.41
	Rubber Tired Dozers	6	6	247	0.4
	Tractors/Loaders/Backhoes	3	6	97	0.37
	Crushing/Proc. Equipment	6	6	85	0.78
	Cranes	3	6	231	0.2881
	Rollers	3	6	80	0.3752
	Sweepers/Scrubbers	3	4	64	0.4556
	Paving Equipment	3	2	132	0.3551
	Generator Sets	3	1	84	0.74
Storage Reservoir – Grading phase	Excavators	1	8	158	0.38
	Graders	1	8	187	0.41
	Rubber Tired Dozers	1	8	247	0.4
	Tractors/Loaders/Backhoes	3	8	97	0.37
Storage Reservoir – Construction phase	Cranes	1	7	231	0.29
	Forklifts	3	8	89	0.2

Construction Phase	Modeled Daily Equipment Fleet	Unit Amount	Hours per Day	Hp	Load Factor
	Generator Sets	1	8	84	0.74
	Tractors/Loaders/Backhoes	3	7	97	0.37
	Welders	1	8	46	0.45
Storage Reservoir – Site finishing phase	Cement and Mortar Mixers	2	6	9	0.56
	Pavers	1	8	130	0.42
	Paving Equipment	2	6	132	0.36
	Rollers	2	6	80	0.38
	Tractors/Loaders/Backhoes	1	8	97	0.37
Pump Stations - Grading	Graders	1	8	187	0.41
	Rubber Tired Dozers	1	8	247	0.4
	Tractors/Loaders/Backhoes	2	7	97	0.37
Pump Stations - Construction	Cranes	1	4	231	0.29
	Forklifts	1	4	89	0.2
	Tractors/Loaders/Backhoes	2	4	97	0.37
	Welders	1	4	46	0.45
Turnouts (assume excavation, install, and resurfacing occurs simultaneously at some location in area)	Excavators	3	4	158	0.38
	Graders	1	8	187	0.41
	Rubber Tired Dozers	6	6	247	0.4
	Tractors/Loaders/Backhoes	3	6	97	0.37
	Crushing/Proc. Equipment	6	6	85	0.78
	Cranes	3	6	231	0.2881
	Rollers	3	6	80	0.3752
	Sweepers/Scrubbers	3	4	64	0.4556
	Paving Equipment	3	2	132	0.3551
	Generator Sets	3	1	84	0.74
AWPF – Site preparation	Rubber Tired Dozers	3	8	247	0.4
	Tractors/Loaders/Backhoes	4	8	97	0.37
AWPF - Grading	Excavators	1	8	158	0.38
	Graders	1	8	187	0.41
	Rubber Tired Dozers	1	8	247	0.4
	Tractors/Loaders/Backhoes	3	8	97	0.37
AWPF – Construction	Cranes	1	7	231	0.29
	Forklifts	3	8	89	0.2
	Generator Sets	1	8	84	0.74
	Tractors/Loaders/Backhoes	3	7	97	0.37
	Welders	1	8	46	0.45
AWPF - Paving	Cement and Mortar Mixers	2	6	9	0.56
	Pavers	1	8	130	0.42
	Paving Equipment	2	6	132	0.36
	Rollers	2	6	80	0.38
	Tractors/Loaders/Backhoes	1	8	97	0.37
Wellhead Treatment – Demolition	Concrete/Industrial Saws	2	6	81	0.73
	Rubber Tired Dozers	2	6	247	0.4
Wellhead Treatment – Grading	Graders	2	6	187	0.41
	Tractors/Loaders/Backhoes	4	6	97	0.37
Wellhead Treatment – Construction	Cranes	2	4	231	0.29
	Forklifts	2	6	89	0.2
	Generator Sets	2	4	84	0.74
	Tractors/Loaders/Backhoes	4	6	97	0.37
	Welders	2	4	46	0.45
Wellhead Treatment – Paving	Pavers	2	6	130	0.42
	Paving Equipment	2	6	132	0.36
	Rollers	2	6	80	0.38

2.1.7 Construction Schedule

Construction is expected to begin in 2025 and extend to the opening of the AWPF in 2028. Construction would be limited to daytime, with the exception of well drilling for injection and extraction wells, which would last up to 20 days per well at 24 hours per day to prevent bore hole collapse. Trenchless drilling methods (HDD and jack-and-bore) would also require round-the-clock construction to prevent borehole collapse. Construction of the wells and pipelines would occur over three years from 2025-2027; construction of the turnouts would occur over two years from 2026-2027; construction of the wellhead treatment, AWPF and the pump stations would occur over one year, 2027; and the storage reservoir would be constructed at the end of 2027.

2.1.8 Construction Best Management Practices

The Proposed Project would comply with applicable State regulations including:

- All portable diesel-powered construction equipment shall be registered with the state's portable equipment registration program or shall obtain a South Coast Air Quality Management District (SCAQMD) permit.
- Fleet owners of mobile construction equipment are subject to the California Air Resource Board (CARB) Regulation for In-Use Off-Road Diesel Vehicles (Title 13, California Code of Regulations (CCR), §2449), the purpose of which is to reduce oxides of nitrogen (NO_x), diesel particulate matter (DPM), and other criteria pollutant emissions from in-use off-road diesel-fueled vehicles. Off-road heavy-duty trucks shall comply with the State Off-Road Regulation.
- Fleet owners of mobile construction equipment are subject to the CARB Regulation for In-Use (On-Road) Heavy-Duty Diesel-Fueled Vehicles (Title 13, CCR, §2025), the purpose of which is to reduce DPM, NO_x and other criteria pollutants from in-use (on-road) diesel-fueled vehicles. On-road heavy-duty trucks shall comply with the State On-Road Regulation.
- All commercial off-road and on-road diesel vehicles are subject, respectively, to Title 13, CCR, §2449(d)(3) and §2485, limiting engine idling time. Idling of heavy-duty diesel construction equipment and trucks during loading and unloading shall be limited to five minutes; electric auxiliary power units should be used whenever possible.

The Project would be subject to SCAQMD Rule 403, Fugitive Dust. Rule 403 requires the implementation of best available dust control measures during activities capable of generating fugitive dust. Rule 403 includes requirements such as:

- No person shall cause or allow the emissions of fugitive dust from any…disturbed surface area such that the dust remains visible in the atmosphere beyond the property line of the emission source.
- No person shall allow track-out to extend 25 feet or more in cumulative length from the point of origin from an active operation. Notwithstanding the preceding, all track-out from an active operation shall be removed at the conclusion of each workday or evening shift.
- No person shall conduct an active operation with a disturbed surface area of five or more acres, or with a daily import or export of 100 cubic yards or more of bulk material without utilizing at least one of the following measures: Install a pad consisting of washed gravel (minimum-size: one inch) maintained in a clean condition to a depth of at least six inches and extending at least 30 feet wide and at least 50 feet long; Pave the surface extending at least 100 feet and at least 20 feet wide; Utilize a wheel shaker/wheel spreading device consisting of raised dividers (rails, pipe, or grates) at least 24 feet long and 10 feet wide to remove bulk material from tires and vehicle undercarriages before vehicles exit the site; install and utilize a wheel washing system to remove bulk material from tires and vehicle undercarriages before vehicles exit the site.

- No person shall conduct active operations without utilizing the applicable best available control measures included in Table 1 of Rule 403 to minimize fugitive dust emissions from each fugitive dust source type. Table 1 lists around 50 dust control measures for 20 different source categories and can be found at: https://www.aqmd.gov/docs/default-source/rule-book/rule-iv/rule-403.pdf?sfvrsn=4.

2.2 Operation

Operations and maintenance (O&M) for each of the Proposed Project's key facilities is briefly described below.

Wells: The injection wells would recharge up to 15,000 AFY per year, while the new extraction wells would pump up to 50,000 AFY of water from the Basin in call years, or 10,000 AFY in non-call years (only 7.5 call years are anticipated over a 25-year period). After the 25-year period in which the CBP would be active, IEUA member agencies could utilize the water purified at the AWPF in the amount of 15,000 AFY. The 16 injection wells would have a maximum operational capacity of 830 gpm each. The 17 extraction wells would have a maximum operational capacity of 2,000 gpm each. All energy demands would be met by electricity supplied by Southern California Edison. The four monitoring wells would be visited by a field technician on a monthly to quarterly frequency. There would be negligible energy consumption in obtaining groundwater levels from the monitoring wells. Ongoing operation and maintenance of the wells may involve periodic backwash and inspection.

AWPF: The AWPF would include various processes and facilities, including an MF System, RO System, Equalization Tank, UV-AOP System, Chemical Facilities, Post Treatment, and CIP Systems. It is assumed that the AWPF would involve daily inspections and maintenance of treatment processes, daily backflush and maintenance cleans, more rigorous weekly to monthly cleans, and weekly deliveries of chemicals and supplies to the AWPF. The Reverse Osmosis (RO) system would require chemical cleaning and inspection monthly and membranes would be replaced every five years. All energy demands would be met by electricity supplied by Southern California Edison or from onsite sources at the RP-4; the Proposed Project would not consume natural gas.

Other Well Treatment Facilities: The CBP may install up to three wellhead treatment facilities at locations that have yet to be selected but would be sited at existing member agency offline wells. These wellhead treatment systems would be capable of treating up to 3,000 AFY per wellhead treatment system. Each of the three wellhead treatment systems would be connected to three existing member agency wells (total of nine existing extraction wells used for the CBP). The Wellhead treatment facilities would require routine inspection and maintenance of the treatment processes. Wellhead treatment would also include the following brine conveyance and disposal:

- Disposal Capacity: 4,900 gpd per wellhead treatment system
- Pipeline Length: up to 6,800 LF (8-inch)
- Disposal System: Assumed utilization of IEBL

Brine Disposal: The additional brine stream flow from the AWPF at RP-4 would be 1,027,300 gpd. The brine stream flow from the AWPF would ultimately need to be treated by the Los Angeles County Sanitation District (LACSD) through the Joint Outfall System (JOS) or by the Orange County Sanitation District (OCSD).

Pipelines and Turnouts: Once a pipeline or turnout is installed, operations would not require any operations and maintenance visits unless unforeseen circumstances arise that would require maintenance or repair of the pipelines. In the event of routine maintenance, one vehicle trip per maintenance event would be required.

Pump Stations: A total of four pump stations will be installed. It is assumed that the three TAKE Pump stations would range between 650 HP to 9,300 HP, with the booster pumps averaging 4,200 HP each. The PUT pump station would operate at 1,500 HP. All energy demands would be met by electricity supplied by Southern California Edison. The pump stations would require routine inspection and maintenance.

Water Storage Tank: Once the reservoirs are installed, operation of the reservoir would not require any shifts or employees as it would be monitored and controlled remotely. Scheduled maintenance visits would occur in the future with one trip per maintenance event. Reservoirs typically do not directly consume energy as water or recycled water is pumped into reservoirs directly from wells or through booster pump stations.

Renewable Energy: In-conduit hydropower facilities may be considered in locations of the potable water distribution system where the system pressure needs to be reduced and energy can be produced. Current renewable on-site generation at RP-4, which shares the same SCE meter with the Inland Empire Regional Composting Facility (IERCF), is about 20%. In addition to the 1 MW wind turbine and 1.5 MW battery at RP-4, additionally, there is a potential for use of a 2.5 MW solar at the IERCF. As the Proposed Project has not undergone site specific design, at this time, alternative energy options would be explored when design has been further specified.

According to the IEUA Facilities Management Plan, over the course of the next 15 years, IEUA intends to procure 100 percent of its electricity needs from carbon neutral sources, so in that period of time, IEUA will slowly begin to use less carbon sourced energy for greater operational demands. Additionally, the Proposed Project would create a source of local water supply within the Chino Basin, which would offset the energy required to transfer water from MWD from the Sacramento-San Joaquin Delta to IEUA's service area.

3. ENVIRONMENTAL SETTING

3.1 South Coast Air Basin

The environmental setting provides a baseline against which to measure a Project's impact. The Project site is located in the South Coast Air Basin (SCAB) within the jurisdiction of SCAQMD. The SCAQMD was created by the 1977 Lewis-Presley Air Quality Management Act, which merged four county air pollution control bodies into one regional district. Under the Act, the SCAQMD is responsible for bringing air quality in areas under its jurisdiction into conformity with federal and state air quality standards. The SCAB is a 6,745-square mile subregion of the SCAQMD, which includes portions of Los Angeles, Riverside, and San Bernardino Counties, and all of Orange County. The SCAB is bounded by the Pacific Ocean to the west and the San Gabriel, San Bernardino, and San Jacinto Mountains to the north and east.

3.2 Regional Climate and Wind Patterns

The regional climate has a substantial influence on air quality in the SCAB. In addition, the temperature, wind, humidity, precipitation, and amount of sunshine influence the air quality. The annual average temperatures vary throughout the SCAB, ranging from the low 60s to the high 80s. The eastern portion of the SCAB shows greater variability in average annual minimum and maximum temperatures. January is the coldest month throughout the SCAB, with average minimum temperatures of 47°F in downtown Los Angeles and 36°F in San Bernardino. All portions of the SCAB have recorded maximum temperatures above 100°F.

Although the climate of the SCAB can be characterized as semi-arid, the air near the land surface is quite moist on most days because of the presence of a marine layer. This shallow layer of sea air is an important modifier of SCAB climate. Humidity restricts visibility in the SCAB, and the conversion of sulfur dioxide (SO_2) to sulfates (SO_4) is heightened in air with high relative humidity. The marine layer provides an environment for that conversion process, especially during the spring and summer months. The annual average relative humidity within the SCAB is 71 percent along the coast and 59 percent inland. Since the ocean effect is dominant, periods of heavy early morning fog are frequent and low stratus clouds are a characteristic feature. These effects decrease with distance from the coast.

More than 90 percent of the SCAB's rainfall occurs from November through April. The annual average rainfall varies from approximately nine inches in Riverside to 14- inches in downtown Los Angeles. Monthly and yearly rainfall totals

are extremely variable. Summer rainfall usually consists of widely scattered thunderstorms near the coast and slightly heavier shower activity in the eastern portion of the SCAB with frequency being higher near the coast.

Due to its generally clear weather, about three-quarters of available sunshine is received in the SCAB. The remaining one-quarter is absorbed by clouds. The ultraviolet portion of this abundant radiation is a key factor in photochemical reactions. On the shortest day of the year there are approximately 10 hours of possible sunshine, and on the longest day of the year there are approximately 14.5 hours of possible sunshine.

During the late autumn to early spring rainy season, the SCAB is subjected to wind flows associated with the traveling storms moving through the region from the northwest. This period also brings five to ten periods of strong, dry offshore winds, locally termed "Santa Anas" each year. During the dry season, which coincides with the months of maximum photochemical smog concentrations, the wind flow is bimodal, typified by a daytime onshore sea breeze and a nighttime offshore drainage wind. Summer wind flows are created by the pressure differences between the relatively cold ocean and the unevenly heated and cooled land surfaces that modify the general northwesterly wind circulation over southern California. Nighttime drainage begins with the radiational cooling of the mountain slopes. Heavy, cool air descends the slopes and flows through the mountain passes and canyons as it follows the lowering terrain toward the ocean. Another characteristic wind regime in the SCAB is the "Catalina Eddy," a low level cyclonic (counterclockwise) flow centered over Santa Catalina Island which results in an offshore flow to the southwest. On most spring and summer days, some indication of an eddy is apparent in coastal sections.

In the SCAB, there are two distinct temperature inversion structures that control vertical mixing of air pollution. During the summer, warm high-pressure descending (subsiding) air is undercut by a shallow layer of cool marine air. The boundary between these two layers of air is a persistent marine subsidence/inversion. This boundary prevents vertical mixing which effectively acts as an impervious lid to pollutants over the entire SCAB. The mixing height for the inversion structure is normally situated 1,000 to 1,500 feet above mean sea level.

A second inversion-type forms in conjunction with the drainage of cool air off the surrounding mountains at night followed by the seaward drift of this pool of cool air. The top of this layer forms a sharp boundary with the warmer air aloft and creates nocturnal radiation inversions. These inversions occur primarily in the winter, when nights are longer and onshore flow is weakest. They are typically only a few hundred feet above mean sea level. These inversions effectively trap pollutants, such as nitrogen oxides (NO_X) and carbon monoxide (CO) from vehicles, as the pool of cool air drifts seaward. Winter is therefore a period of high levels of primary pollutants along the coastline.

The distinctive climate of the SCAB is determined by its terrain and geographical location. The SCAB is located in a coastal plain with connecting broad valleys and low hills, bounded by the Pacific Ocean in the southwest quadrant with high mountains forming the remainder of the perimeter.

Wind patterns across the south coastal region are characterized by westerly and southwesterly onshore winds during the day and easterly or northeasterly breezes at night. Winds are characteristically light although the speed is somewhat greater during the dry summer months than during the rainy winter season.

3.3 Current Air Pollution and Criteria Pollutant Conditions

Air quality is determined by measuring ambient concentrations of air pollutants, which are known to have adverse health effects. For regulatory purposes, criteria have been set for some of these air pollutants, and they are referred to as "criteria pollutants." The six criteria pollutants for which the US Environmental Protection Agency (EPA) has set standards are: particulate matter, ozone, nitrogen oxides, sulfur oxides, carbon monoxide, and lead. CARB has set standards for the same six pollutants, as well as for four additional pollutants - hydrogen sulfide, sulfate, vinyl chloride, and visibility reducing particles - and for about 200 toxic air contaminants. For most criteria pollutants, regulations and

standards have been in effect, in varying degrees, for more than 25 years, and control strategies are designed to ensure that the ambient concentrations do no exceed certain thresholds.

Another class of air pollutants that is subject to regulatory requirements is hazardous air pollutants (HAPs) or air toxics. Substances that are especially harmful to health, such as those considered under the EPA hazardous air pollutant program or California's AB 1807 and/or AB 2588 air toxics programs, are considered to be air toxics. There are 186 federal hazardous air pollutants. Toxic air contaminants (TACs) are air pollutants that may cause acute (immediate) or chronic (cumulative) adverse health effects, such as cancer or reproductive harm. Many companies have reduced their toxic air emissions, either voluntarily or as a result of the implementation of the Air Toxics "Hot Spots" Information and Assessment Act of 1987 (AB 2588), or the air toxics control measures (ATCMs) developed and implemented by the CARB. The Clean Communities Plan was designed to examine the overall direction of the SCAQMD's air toxics control program. It includes control strategies aimed to reduce toxic emissions and risk from both mobile and stationary sources. Regulatory air quality standards are based on scientific and medical research and these standards establish minimum concentrations of an air pollutant in the ambient air that could initiate adverse health effects. For air toxics emissions, however, the regulatory process usually assesses the potential impacts to public health in terms of "risk," such as the Air Toxics "Hot Spots" Program, or the emissions may be controlled by prescribed technologies, as in the Federal Clean Air Act approach for controlling hazardous air pollutants.

The degree of air quality degradation for criteria pollutants is determined by comparing the ambient pollutant concentrations to health-based standards developed by government agencies. Criteria pollutants, their typical sources, and relevant health effects are summarized in **Table 4**.

Table 4: Criteria and Common Air Pollutant Effects and Sources

Criteria Pollutant	Description	Sources	Health Effects
CO	CO is a colorless, odorless gas produced by the incomplete combustion of carbon-containing fuels, such as gasoline or wood. CO concentrations tend to be the highest during the winter morning, when little to no wind and surface-based inversions trap the pollutant at ground levels. Because CO is emitted directly from internal combustion engines, unlike ozone (O_3), motor vehicles operating at slow speeds are the primary source of CO in the SCAB. The highest ambient CO concentrations are generally found near congested transportation corridors and intersections.	Any source that burns fuel such as automobiles, trucks, heavy construction equipment, farming equipment and residential heating.	Individuals with a deficient blood supply to the heart are the most susceptible to the adverse effects of CO exposure. The effects observed include earlier onset of chest pain with exercise, and electrocardiograph changes indicative of decreased oxygen (O_2) supply to the heart. Inhaled CO has no direct toxic effect on the lungs but exerts its effect on tissues by interfering with O_2 transport and competing with O_2 to combine with hemoglobin present in the blood to form carboxyhemoglobin (COHb). Hence, conditions with an increased demand for O_2 supply can be adversely affected by exposure to CO. Individuals most at risk include fetuses, patients with diseases involving heart and blood vessels, and patients with chronic hypoxemia (O_2 deficiency) as seen at high altitudes.

Criteria Pollutant	Description	Sources	Health Effects
SO_2	SO_2 is a colorless, extremely irritating gas or liquid. It enters the atmosphere as a pollutant mainly as a result of burning high sulfur-content fuel oils and coal and from chemical processes occurring at chemical plants and refineries. When SO_2 oxidizes in the atmosphere, it forms SO_4. Collectively, these pollutants are referred to as sulfur oxides (SO_X).	Coal or oil burning power plants and industries, refineries, diesel engines	A few minutes of exposure to low levels of SO_2 can result in airway constriction in some asthmatics, all of whom are sensitive to its effects. In asthmatics, increase in resistance to air flow, as well as reduction in breathing capacity leading to severe breathing difficulties, are observed after acute exposure to SO_2. In contrast, healthy individuals do not exhibit similar acute responses even after exposure to higher concentrations of SO_2. Animal studies suggest that despite SO_2 being a respiratory irritant, it does not cause substantial lung injury at ambient concentrations. However, very high levels of exposure can cause lung edema (fluid accumulation), lung tissue damage, and sloughing off of cells lining the respiratory tract. Some population-based studies indicate that the mortality and morbidity effects associated with fine particles show a similar association with ambient SO_2 levels. In these studies, efforts to separate the effects of SO_2 from those of fine particles have not been successful. It is not clear whether the two pollutants act synergistically, or one pollutant alone is the predominant factor.
NO_X	NO_X consist of nitric oxide (NO), nitrogen dioxide (NO_2) and nitrous oxide (N_2O) and are formed when nitrogen (N_2) combines with O_2. Their lifespan in the atmosphere ranges from one to seven days for NO and N_2O, to 170 years for nitrous oxide. NO_X is typically created during combustion processes and are major contributors to smog formation and acid deposition. NO_2 is a criteria air pollutant and may result in numerous adverse health effects; it absorbs blue light, resulting in a brownish-red cast to the atmosphere and reduced visibility. Of the seven types of nitrogen oxide compounds, NO_2 is the most abundant in the atmosphere. As ambient concentrations of NO_2 are related to traffic density, commuters in heavy traffic may be exposed to higher concentrations of	Any source that burns fuel such as automobiles, trucks, heavy construction equipment, farming equipment and residential heating.	Population-based studies suggest that an increase in acute respiratory illness, including infections and respiratory symptoms in children (not infants), is associated with long-term exposure to NO_2 at levels found in homes with gas stoves, which are higher than ambient levels found in Southern California. Increase in resistance to air flow and airway contraction is observed after short-term exposure to NO_2 in healthy subjects. Larger decreases in lung functions are observed in individuals with asthma or chronic obstructive pulmonary disease (e.g., chronic bronchitis, emphysema) than in healthy individuals, indicating a greater

Criteria Pollutant	Description	Sources	Health Effects
	NO_2 than those indicated by regional monitoring station.		susceptibility of these sub-groups. In animals, exposure to levels of NO_2 considerably higher than ambient concentrations result in increased susceptibility to infections, possibly due to the observed changes in cells involved in maintaining immune functions. The severity of lung tissue damage associated with high levels of O_3 exposure increases when animals are exposed to a combination of O_3 and NO_2.
O_3	O_3 is a highly reactive and unstable gas that is formed when VOCs and NO_X, both byproducts of internal combustion engine exhaust, undergo slow photochemical reactions in the presence of sunlight. O_3 concentrations are generally highest during the summer months when direct sunlight, light wind, and warm temperature conditions are favorable to the formation of this pollutant.	Formed when reactive organic gases (ROG) and NO_X react in the presence of sunlight. ROG sources include any source that burns fuels, (e.g., gasoline, natural gas, wood, oil) solvents, petroleum processing and storage and pesticides.	Individuals exercising outdoors, children, and people with preexisting lung disease, such as asthma and chronic pulmonary lung disease, are considered to be the most susceptible sub-groups for O_3 effects. Short-term exposure (lasting for a few hours) to O_3 at levels typically observed in Southern California can result in breathing pattern changes, reduction of breathing capacity, increased susceptibility to infections, inflammation of the lung tissue, and some immunological changes. Elevated O_3 levels are associated with increased school absences. In recent years, a correlation between elevated ambient O_3 levels and increases in daily hospital admission rates, as well as mortality, has also been reported. An increased risk for asthma has been found in children who participate in multiple outdoor sports and live in communities with high O_3 levels. O_3 exposure under exercising conditions is known to increase the severity of the responses described above. Animal studies suggest that exposure to a combination of pollutants that includes O_3 may be more toxic than exposure to O_3 alone. Although lung volume and resistance changes observed after a single exposure diminish with repeated exposures, biochemical and cellular changes

Criteria Pollutant	Description	Sources	Health Effects
			appear to persist, which can lead to subsequent lung structural changes.
Particulate Matter	PM_{10}: A major air pollutant consisting of tiny solid or liquid particles of soot, dust, smoke, fumes, and aerosols. Particulate matter pollution is a major cause of reduce visibility (haze) which is caused by the scattering of light and consequently the significant reduction air clarity. The size of the particles (10 microns or smaller, about 0.0004 inches or less) allows them to easily enter the lungs where they may be deposited, resulting in adverse health effects. Additionally, it should be noted that PM_{10} is considered a criteria air pollutant. $PM_{2.5}$: A similar air pollutant to PM_{10} consisting of tiny solid or liquid particles which are 2.5 microns or smaller (which is often referred to as fine particles). These particles are formed in the atmosphere from primary gaseous emissions that include SO_4 formed from SO_2 release from power plants and industrial facilities and nitrates that are formed from NO_X release from power plants, automobiles and other types of combustion sources. The chemical composition of fine particles highly depends on location, time of year, and weather conditions. $PM_{2.5}$ is a criteria air pollutant.	Sources of PM_{10} include road dust, windblown dust and construction. Also formed from other pollutants (acid rain, NO_X, SO_X, organics). Incomplete combustion of any fuel. $PM_{2.5}$ comes from fuel combustion in motor vehicles, equipment and industrial sources, residential and agricultural burning. Also formed from reaction of other pollutants (acid rain, NO_X, SO_X, organics).	A consistent correlation between elevated ambient fine particulate matter (PM_{10} and $PM_{2.5}$) levels and an increase in mortality rates, respiratory infections, number and severity of asthma attacks and the number of hospital admissions has been observed in different parts of the United States and various areas around the world. In recent years, some studies have reported an association between long-term exposure to air pollution dominated by fine particles and increased mortality, reduction in lifespan, and an increased mortality from lung cancer. Daily fluctuations in $PM_{2.5}$ concentration levels have also been related to hospital admissions for acute respiratory conditions in children, to school and kindergarten absences, to a decrease in respiratory lung volumes in normal children, and to increased medication use in children and adults with asthma. Recent studies show lung function growth in children is reduced with long term exposure to particulate matter. The elderly, people with pre-existing respiratory or cardiovascular disease, and children appear to be more susceptible to the effects of high levels of PM_{10} and $PM_{2.5}$.
VOC	VOCs are hydrocarbon compounds (any compound containing various combinations of hydrogen and carbon atoms) that exist in the ambient air. VOCs contribute to the formation of smog through atmospheric photochemical reactions and/or may be toxic. Compounds of carbon (also known as organic compounds) have different levels of reactivity; that is, they do not react at the same speed or do not form O_3 to the same extent when exposed to photochemical processes.	Organic chemicals are widely used as ingredients in household products. Paints, varnishes and wax all contain organic solvents, as do many cleaning, disinfecting, cosmetic, degreasing and hobby products. Fuels are made up of organic chemicals. All of these products can release	Breathing VOCs can irritate the eyes, nose and throat, can cause difficulty breathing and nausea, and can damage the central nervous system as well as other organs. Some VOCs can cause cancer. Not all VOCs have all these health effects, though many have several.

Criteria Pollutant	Description	Sources	Health Effects
	VOCs often have an odor, and some examples include gasoline, alcohol, and the solvents used in paints. Exceptions to the VOC designation include CO, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate. VOCs are a criteria pollutant since they are a precursor to O_3, which is a criteria pollutant. The terms VOC and ROG (see below) interchangeably.	organic compounds while you are using them, and, to some degree, when they are stored.	
ROG	Similar to VOC, ROGs are also precursors in forming O_3 and consist of compounds containing methane, ethane, propane, butane, and longer chain hydrocarbons, which are typically the result of some type of combustion/decomposition process. Smog is formed when ROG and NO_X react in the presence of sunlight. ROGs are a criteria pollutant since they are a precursor to O_3, which is a criteria pollutant. The terms ROG and VOC (see previous) interchangeably.	Sources similar to VOCs.	Health effects similar to VOCs.
Lead (Pb)	Pb is a heavy metal that is highly persistent in the environment and is considered a criteria pollutant. In the past, the primary source of Pb in the air was emissions from vehicles burning leaded gasoline. The major sources of Pb emissions are ore and metals processing, particularly Pb smelters, and piston-engine aircraft operating on leaded aviation gasoline. Other stationary sources include waste incinerators, utilities, and lead-acid battery manufacturers. It should be noted that the Project does not include operational activities such as metal processing or Pb acid battery manufacturing. As such, the Project is not anticipated to generate a quantifiable amount of Pb emissions.	Metal smelters, resource recovery, leaded gasoline, deterioration of Pb paint.	Fetuses, infants, and children are more sensitive than others to the adverse effects of Pb exposure. Exposure to low levels of Pb can adversely affect the development and function of the central nervous system, leading to learning disorders, distractibility, inability to follow simple commands, and lower intelligence quotient. In adults, increased Pb levels are associated with increased blood pressure. Pb poisoning can cause anemia, lethargy, seizures, and death; although it appears that there are no direct effects of Pb on the respiratory system. Pb can be stored in the bone from early age environmental exposure, and elevated blood Pb levels can occur due to breakdown of bone tissue during pregnancy, hyperthyroidism (increased secretion of hormones from the thyroid gland) and osteoporosis (breakdown of bony tissue). Fetuses and breast-fed babies can be exposed to higher levels of Pb because of previous environmental Pb exposure of their mothers.

Criteria Pollutant	Description	Sources	Health Effects
Odor	Odor means the perception experienced by a person when one or more chemical substances in the air come into contact with the human olfactory nerve.	Odors can come from many sources including animals, human activities, industry, natures, and vehicles.	Offensive odors can potentially affect human health in several ways. First, odorant compounds can irritate the eye, nose, and throat, which can reduce respiratory volume. Second, studies have shown that the VOCs that cause odors can stimulate sensory nerves to cause neurochemical changes that might influence health, for instance, by compromising the immune system. Finally, unpleasant odors can trigger memories or attitudes linked to unpleasant odors, causing cognitive and emotional effects such as stress.

3.4 Existing Air Quality Standards

Existing air quality is measured at established SCAQMD air quality monitoring stations. Monitored air quality is evaluated in the context of ambient air quality standards. These standards are the levels of air quality that are considered safe, with an adequate margin of safety, to protect the public health and welfare. National Ambient Air Quality Standards (NAAQS) and California Ambient Air Quality Standards (CAAQS) currently in effect for the SCAB are shown in **Table 5**.

The determination of whether a region's air quality is healthful or unhealthful is determined by comparing contaminant levels in ambient air samples to the state and federal standards

The air quality in a region is considered to be in attainment if the measured ambient air pollutant levels for O_3, CO, SO_2 (1 and 24 hour), NO_2, PM_{10}, and $PM_{2.5}$ are not to be exceeded. All other pollutants are not to be equaled or exceeded to be in attainment. Attainment status for a pollutant means that the SCAQMD meets the standards set by the EPA or the California EPA (CalEPA). Conversely, nonattainment means that an area has monitored air quality that does not meet the NAAQS or CAAQS standards. In order to improve air quality in nonattainment areas, a State Implementation Plan (SIP) is drafted by CARB. The SIP outlines the measures that the state will take to improve air quality. Once nonattainment areas meet the standards and additional redesignation requirements, the EPA will designate the area as a maintenance area.

Table 5: Ambient Air Quality Standards

Pollutant	Average Time	California Standards	National Standards
		Concentration	Concentration
Ozone (O_3)	1 Hour	0.09 ppm	--
	8 Hour	0.070 ppm	0.070 ppm
Respirable Particulate Matter (PM_{10})[9]	24 Hour	50 µg/m^3	150 µg/m^3
	Annual	20 µg/m^3	
Fine Particulate Matter ($PM_{2.5}$)[9]	24 Hour	–	35 µg/m^3
	Annual	12 µg/m^3	12.0 µg/m^3
Carbon Monoxide (CO)	1 Hour	20 ppm	35 ppm
	8 Hour	9 ppm	9 ppm
Nitrogen Dioxide (NO_2)	1 Hour	0.18 ppm	0.010 ppm
	Annual	0.030 ppm	0.053 ppm
Sulfur Dioxide (SO_2)	1 Hour	0.25 ppm	75 ppb
	24 Hour	0.04 ppm	0.14 ppm
	Annual Arithmetic Mean	–	0.030 ppm
Lead (Pb)	30-Day Average	1.5 µg/m^3	–
	Calendar Quarter	–	–
	Rolling 3-Month Avg	–	0.15 µg/m^3
Sulfates	24 Hour	25 µg/m^3	No Federal Standards
Hydrogen Sulfide (H_2S)	1 Hour	0.03 ppm	

Source: SCAQMD 2017.

3.4.1 Regional Air Quality

Air pollution contributes to a wide variety of adverse health effects. The EPA has established NAAQS for six of the most common air pollutants: CO, Pb, O_3, particulate matter (PM_{10} and $PM_{2.5}$), NO_2, and SO_2 which are known as criteria pollutants. The SCAQMD monitors levels of various criteria pollutants at 37 permanent monitoring stations and 5 single-pollutant source Pb air monitoring sites throughout the air district. On February 21, 2019, CARB posted the 2018 amendments to the state and national area designations. **Table 6** attainment designations of the SCAB.

Table 6: Attainment Status of Criteria Pollutants in the SCAB

Criteria Pollutant	State Designation	Federal Designation
O_3 – 1-hour standard	Nonattainment	Nonattainment (Extreme)
O_3 – 8-hour standard	Nonattainment	Nonattainment (Extreme)
PM_{10}	Nonattainment	Attainment (Maintenance)
$PM_{2.5}$	Nonattainment	Nonattainment (Serious)
CO	Attainment	Attainment (Maintenance)
NO_2	Attainment	Attainment (Maintenance)
SO_2	Attainment	Designations Pending (expect Unclassifiable/Attainment)
Pb	Attainment	Nonattainment (Partial) (Attainment determination to be requested)
Hydrogen Sulfide (H_2S)	Attainment	--
Sulfates	Attainment	--

Note: The national 1-hour O_3 standard was revoked effective June 15, 2005; however, the Basin has not attained this standard based on 2008-2010 data and is still subject to anti-backsliding requirements

3.4.2 Local Air Quality

Ambient air quality monitoring for criteria pollutants is conducted at numerous sites throughout the state. The most recent three years of high or average concentration data available for criteria pollutants within the SCAB monitoring station network are shown in **Table 7**. Data for O_3, CO, NO_2, SO_2, PM_{10}, and $PM_{2.5}$ for 2018 through 2020 were obtained from the SCAQMD Air Quality Data Tables or California Air Resources Board iAdam Air Quality Statistics.

As summarized in the table, O_3, PM_{10}, and $PM_{2.5}$ levels frequently exceed standards. At monitoring stations within Northwestern San Bernardino and Northwestern Riverside County between 2018 and 2020, O_3 exceedances of the Federal standard ranged from 52 days at Source Receptor Area (SRA) 32 in Northwest San Bernadino Valley to 128 days at SRA 34 in Central San Bernadino Valley, exceedances of the State 1-hour standard ranged from 21 days (at SRA 23 in Metropolitan Riverside County) to 89 days (at SRA 34 in Central San Bernadino Valley), and exceedances of the State 8-hour standard ranged from 52 days (at SRA 32 in Northwest San Bernadino Valley) to 128 days (at SRA 34 in Central San Bernadino Valley). For the same area, PM_{10} had no exceedances of the Federal 24-hour or annual average standards, but the larger South Coast Air Basin had 1 to 2 days of exceedance of the 24-hour standard per year in the three-year period and the annual average for the basin exceeded the Federal annual average standard. The State 24-hour PM_{10} standard ranged from 3 days of exceedance or 5% of samples (at SRAs 24 in Corona/Norco Area and Perris Valley) to 130 days of exceedance or 36% of samples (at SRA 23 in Metropolitan Riverside County) in the three-year period and the State annual average was exceeded at least once at all monitoring stations. The Federal $PM_{2.5}$ 24-hour standard was exceeded The Federal 24-hour $PM_{2.5}$ standard ranged from 2 days or 0.6% of samples (at SRA 23 in Metropolitan Riverside County and SRA 34 in Ventral San Bernadino Valley) exceeding the standard to 9 days or 2.5% of samples (also at SRA 23 in Metropolitan Riverside County) exceeding the standard and both the State and Federal annual standards were exceeded at 3 of the 5 monitoring stations in both sites that took $PM_{2.5}$ measurements. The State Annual standard for NO_2 was also exceeded in 2018 and 2019 within the SCAB but was not exceeded within the SRA areas of the two counties except for in 2018 at SRA 33 at CA-60 with a value of 0.0304 ppm.[1]

[1] SRA and exceedance data obtained from SCAQMD Air Quality Data Tables for 2018-2020.

Table 7: Project Area Air Quality Monitoring Summary 2018-2020

Pollutant	Standard		2018		2019		2020	
			Max Monitored Value	# Days Exceeded	Maximum Monitored Value	# Days Exceeded	Maximum Monitored Value	# Days Exceeded
Ozone (O_3)	State 1-hour	>0.090 ppm	**0.142 ppm**	84	**0.137 ppm**	82	**0.185 ppm**	133
	State 8-hour	>0.070 ppm	**0.125 ppm**	141	**0.117 ppm**	129	**0.139 ppm**	160
	Federal 8-hour	>0.070 ppm	**0.125 ppm**	141	**0.118 ppm**	126	**0.140 ppm**	157
Respirable Particulate Matter (PM_{10})	State 24-hour	>50 µg/m³	**126.0 µg/m³**	127	**34.8 µg/m³**	110	**35.8 µg/m³**	115
	State Annual	>20 µg/m³	**44.6 µg/m³**	Exceeded	**40.9 µg/m³**	Exceeded	**33.9 µg/m³**	Exceeded
	Federal 24-hour	>150 µg/m³	**230.2 µg/m³**	1	**283.5 µg/m³**	2	**324.7 µg/m³**	2
	Federal Annual*	>150 µg/m³	**53.5 µg/m³**	Exceeded	47.5 µg/m³	Not Exceeded	**55.5 µg/m³**	Exceeded
Fine Particulate Matter ($PM_{2.5}$)	State Annual	>12 µg/m³	**16.0 µg/m³**	16	**15.5 µg/m³**	15.5	**16.5 µg/m³**	16.5
	Federal 24-hour	>35 µg/m³	**103.8 µg/m³**	17	**81.3 µg/m³**	12	**175.0 µg/m³**	28
	Federal Annual	>12 µg/m³	**14.5 µg/m³**	Exceeded	**12.8 µg/m³**	Exceeded	15.1 µg/m³	Exceeded
Carbon Monoxide (CO)	State 1-hour	>20 ppm	1.9 ppm	0	2.7 ppm	0	1.72 ppm	0
	Federal 1-hour	>35 ppm		0		0		0
	State 8-Hour	>9 ppm	1.3 ppm	0	1.1 ppm	0	1.4 ppm	0
	Federal 8-Hour	>9 ppm		0		0		0
Nitrogen Dioxide (NO_2)	State 1-hour	>0.180 ppm	0.100 ppm	0	0.100 ppm	0	0.100 ppm	0
	State Annual	>0.030 ppm	**0.032 ppm**	Exceeded	**0.032 ppm**	Exceeded	0.030 ppm	Not Exceeded
	Federal 1-hour	>0.100 ppm	0.079 ppm	0	0.080 ppm	0	0.081 ppm	1
	Federal Annual	>0.053 ppm	0.030 ppm	Not Exceeded	0.029 ppm	Not Exceeded	0.029 ppm	Not Exceeded
Sulfur Dioxide (SO_2)	State 1-hour	>0.25 ppm	0.029 ppm	0	0.024 ppm	0	0.025 ppm	0
	Federal 1-hour	>0.075 ppm		0		0		0
Sulfates	24-Hour Max	>25 µg/m³	3.9 µg/m³	0	5.2 µg/m³	0	3.0 µg/m³	0

Sources: Data for 8-hour and 1-hour O_3, PM_{10}, $PM_{2.5}$, and NO_2 based on CARB iAdam: Air Quality Statistics for the SCAB; data for Sulfates, SO_2, and CO based on data from SCAQMD Air Quality Data Tables. No monitoring data for lead or hydrogen sulfide available for the project area on iAdam or in the SCAQMD Air Quality Data Tables.
Notes: *Revoked; **Bolded values** exceeded the NAAQS or CAAQS standard.

3.5 Regulatory Setting

This section discusses applicable federal, state, regional, and local rules and regulations, including emission standards and ambient air quality standards.

3.5.1 Federal Regulations

The EPA is responsible for setting and enforcing the NAAQS for O_3, CO, NO_X, SO_2, PM_{10}, and Pb. The EPA has jurisdiction over emissions sources that are under the authority of the federal government including aircraft, locomotives, and emissions sources outside state waters (Outer Continental Shelf). The EPA also establishes emission standards for vehicles sold in states other than California. Automobiles sold in California must meet the stricter emission requirements of the CARB.

The Federal Clean Air Act (CAA) was first enacted in 1955 and has been amended numerous times in subsequent years (1963, 1965, 1967, 1970, 1977, and 1990). The CAA establishes the federal air quality standards, the NAAQS, and specifies future dates for achieving compliance. The CAA also mandates that states submit and implement SIPs for local areas not meeting these standards. These plans must include pollution control measures that demonstrate how the standards will be met.

The 1990 amendments to the CAA that identify specific emission reduction goals for areas not meeting the NAAQS require a demonstration of reasonable further progress toward attainment and incorporate additional sanctions for failure to attain or to meet interim milestones. The sections of the CAA most directly applicable to the development of the Project site include Title I (Non-Attainment Provisions) and Title II (Mobile Source Provisions). Title I provisions were established with the goal of attaining the NAAQS for the following criteria pollutants O_3, NO_2, SO_2, PM_{10}, CO, $PM_{2.5}$, and Pb. The NAAQS were amended in July 1997 to include an additional standard for O_3 and to adopt a NAAQS for $PM_{2.5}$. **Table 5** (previously presented) provides the NAAQS within the SCAB.

Mobile source emissions are regulated in accordance with Title II provisions. These provisions require the use of cleaner burning gasoline and other cleaner burning fuels such as methanol and natural gas. Automobile manufacturers are also required to reduce tailpipe emissions of hydrocarbons and NO_X. NO_X is a collective term that includes all forms of NO_X which are emitted as byproducts of the combustion process.

3.5.2 California Regulations

3.5.2.1 CARB

The CARB, which became part of the CalEPA in 1991, is responsible for ensuring implementation of the California Clean Air Act (AB 2595), responding to the federal CAA, and for regulating emissions from consumer products and motor vehicles. AB 2595 mandates achievement of the maximum degree of emissions reductions possible from vehicular and other mobile sources in order to attain the CAAQS by the earliest practical date. The CARB established the CAAQS for all pollutants for which the federal government has NAAQS and, in addition, establishes standards for SO4, visibility, hydrogen sulfide (H_2S), and vinyl chloride (C_2H_3Cl). However, at this time, H_2S and C_2H_3Cl are not measured at any monitoring stations in the SCAB because they are not considered to be a regional air quality problem. Generally, the CAAQS are more stringent than the NAAQS.

Local air quality management districts, such as the SCAQMD, regulate air emissions from stationary sources such as commercial and industrial facilities. All air pollution control districts have been formally designated as attainment or non-attainment for each CAAQS. Serious non-attainment areas are required to prepare an Air Quality Management Plan (AQMP) that includes specified emission reduction strategies in an effort to meet clean air goals. The latest SCAQMD AQMP was adopted in March 2017. AQMPs are required to include:

- Application of Best Available Retrofit Control Technology to existing sources;
- Developing control programs for area sources (e.g., architectural coatings and solvents) and indirect sources (e.g. motor vehicle use generated by residential and commercial development);
- A District permitting system designed to allow no net increase in emissions from any new or modified permitted sources of emissions;
- Implementing reasonably available transportation control measures and assuring a substantial reduction in growth rate of vehicle trips and miles traveled;
- Significant use of low emissions vehicles by fleet operators; and
- Sufficient control strategies to achieve a 5 percent or more annual reduction in emissions or 15 percent or more in a period of three years for ROGs, NO_X, CO and PM_{10}. However, air basins may use an alternative emission reduction strategy that achieves a reduction of less than 5 percent per year under certain circumstances.

3.5.2.2 In-Use Off-Road Diesel Vehicle Regulation

In 2007, CARB adopted a regulation to reduce diesel particulate matter and NOx emissions from in-use (existing) off-road heavy-duty diesel vehicles in California. The regulation imposes limits on unnecessary vehicle idling to five minutes and requires fleets to reduce emissions by retiring, replacing, repowering, or installing exhaust retrofits to older engines. The restrictions on adding older vehicles into fleets vary by fleet size. Heavy-duty diesel vehicle fleets may not add a vehicle with a Tier 0 or Tier 1 engine. For large and medium fleets, and in January 2023 for small fleets, a fleet may not add a vehicle with a Tier 2 engine, rather the engine must be Tier 3 or higher. By 2029, all fleets' vehicles must have Tier 2 or higher engines. This regulation would apply to vehicles used in construction of the Proposed Project.

3.5.2.3 Truck and Bus Regulation

On December 12, 2008, CARB approved a new regulation to substantially reduce emissions of diesel particulate matter, NOx, and other pollutants from existing on-road diesel vehicles operating in California. The regulation requires affected trucks and buses to meet performance standards and requirements between 2011 and 2023. By January 1, 2023, nearly all trucks and buses will be required to have 2010 or newer model year engines. Affected vehicles included on-road, heavy-duty, diesel-fueled vehicles with a gross vehicle weight rating greater than 14,000 pounds. The regulation was updated in 2011, with revisions that provide more compliance flexibility and reflect the impact of the economic recession on vehicle activity and emissions. Heavy-duty trucks used in Proposed Project activities would have to comply with this regulation.

3.5.2.4 Commercial Vehicle Idling Regulation

The Airborne Toxic Control Measure to Limit Diesel-Fueled Commercial Motor Vehicle Idling was initially adopted by CARB in 2004 and subsequently amended in 2005, 2009, and 2013. requires that drivers of diesel-fueled commercial motor vehicles with gross vehicle weight ratings greater than 10,000 pounds, including buses and sleeper berth equipped trucks, not idle the vehicle's primary diesel engine longer than five minutes at any location. There are exceptions if a truck engine meets the optional low-NO_x idling emission standard, and the truck is located more than 100 feet from any restricted area (clean idle label required), which include: housing units, schools, hotels, motels, hospitals, senior care facilities, or childcare facilities. Trucks used for vendor delivery and material hauling for Proposed Project activities would be required to comply with the commercial vehicle idling regulatory requirements.

3.5.2.5 Heavy-Duty On-Board Diagnostic System Regulations

In 2016, CARB approved the latest version of the Heavy-Duty On-Board Diagnostic systems regulations to reduce emissions by establishing standards and other requirements for onboard diagnostic systems that are installed on 2010 and subsequent model-year engines. The systems, through the use of an onboard computer, monitor emission systems in-use for the actual life of the engine and must be capable of detecting malfunctions of the monitored emission systems, illuminating a malfunction indicator light to notify the vehicle operator of detected malfunctions, and storing fault codes identifying the detected malfunctions. The use and operation of On-Board Diagnostic systems reduces in-use motor vehicle and motor vehicle engine emissions through improvements of emission system durability and performance. Heavy-duty trucks used for Proposed Project activities would be required to comply with the On-Board Diagnostic systems regulatory requirements.

3.5.2.6 Heavy-Duty Diesel Vehicle Enforcement

The CARB's Heavy-Duty Vehicle Inspection Program requires heavy-duty trucks and buses to be inspected for excessive smoke and tampering, and engine certification label compliance. Any heavy-duty vehicle (i.e., vehicles with a gross vehicle weight rating greater than 6,000 pounds) traveling in California, including vehicles registered in other states and foreign countries, may be tested. Tests are performed by CARB inspection teams at border crossings, California Highway Patrol weigh stations, fleet facilities, and randomly selected roadside locations. The related Periodic Smoke Inspection Program requires that diesel fleet owners conduct annual smoke opacity inspections of their vehicles and repair those with excessive smoke emissions to ensure compliance. CARB randomly audits fleets, maintenance and inspection records and tests a representative sample of vehicles. All vehicles that do not pass the test must be repaired and retested. In July 2018, CARB approved amendments to the regulations, which require heavy-duty vehicles to meet a more stringent opacity limit of 5 percent opacity for most vehicles. The new opacity limit went into effect July 1, 2019. In addition, each vehicle operating in California - including those in transit from Mexico, Canada, or any other state - must be equipped with engines that meet California and/or EPA or equivalent emission standards and must maintain an Emission Control Label. Heavy-duty trucks used for Proposed Project activities would be subject to these inspection programs.

3.5.2.7 California Diesel Fuel Program

The California diesel fuel program set stringent standards for California diesel that produced cost-effective emission reductions from diesel-powered vehicles. The diesel fuel program set specifications for aromatic hydrocarbons and sulfur and also established a lubricity standard.

3.5.2.8 Portable Engine Airborne Toxic Control Measure

The California Portable Engine Airborne Toxic Control Measure is designed to reduce the PM emissions from portable diesel-fueled engines rated at 50 brake horsepower or larger. Any electric or gas-powered backpack sprayer engines, or vehicle-mounted pump engines, such as dewatering pumps, that are smaller than 50 brake horsepower, would be exempt from this program. Portable diesel-fueled engines rated at 50 brake horsepower or larger are not expected to be used during Proposed Project activities.

3.5.2.9 Portable Equipment Registration Program

The statewide Portable Equipment Registration Program establishes a system to uniformly regulate portable engines and portable engine-driven equipment units. After being registered in this program, engines and equipment units may operate throughout the state without the need to obtain individual permits from air districts, although operation of registered portable engines still may be subject to certain district requirements for reporting and notification. Owners or operators of portable engines and certain types of equipment can voluntarily register their units under this program,

while engines with less than 50 brake horsepower are exempt. Some of the construction equipment engines used for the Proposed Project activities (i.e., those with less than 50 brake horsepower) would be exempt.

3.5.2.10 Title 24 Energy Efficiency Standards and California Green Building Standards

California Code of Regulations (CCR) Title 24 Part 6: California's Energy Efficiency Standards for Residential and Nonresidential Buildings, was first adopted in 1978 in response to a legislative mandate to reduce California's energy consumption. The standards are updated periodically to allow consideration and possible incorporation of new energy efficient technologies and methods. CCR, Title 24, Part 11: California Green Building Standards Code (CALGreen) is a comprehensive and uniform regulatory code for all residential, commercial, and school buildings that went in effect on January 1, 2011, and is administered by the California Building Standards Commission. CALGreen is updated on a regular basis, with the most recent approved update consisting of the 2019 California Green Building Code Standards that will be effective January 1, 2020., The State Building Code provides the minimum standard that buildings must meet in order to be certified for occupancy; however, local jurisdictions are permitted to adopt more stringent requirements. Energy efficient buildings require less electricity; therefore, increased energy efficiency reduces fossil fuel consumption and decreases greenhouse gas (GHG) emissions. The 2019 version of Title 24 was adopted by the California Energy Commission (CEC) and became effective on January 1, 2020.

The 2019 Title 24 standards will result in less energy use, thereby reducing air pollutant emissions associated with energy consumption in the SCAB and across the State of California. For example, the 2019 Title 24 standards will update indoor and outdoor lighting requirements for nonresidential buildings. Nonresidential buildings (such as those of the Proposed Project) will use approximately 30 percent less energy due to lighting upgrade requirements. The January 1, 2019, the 2019 CALGreen standards are applicable to the Project and require, among other items:

- Designated parking. In new projects or additions to alterations that add 10 or more vehicular parking spaces, provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles (5.106.5.2).
- Construction waste management. Recycle and/or salvage for reuse a minimum of 65% of the nonhazardous construction and demolition waste in accordance with Section 5.408.1.1. 5.405.1.2, or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent (5.408.1).
- Excavated soil and land clearing debris. 100% of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed (5.408.3).
- Recycling by Occupants. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive (5.410.1).
- Water conserving plumbing fixtures and fittings. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:
    - Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush (5.303.3.1)
    - Urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush (5.303.3.2.1). The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush (5.303.3.2.2).
    - Showerheads. Single showerheads shall have a minimum flow rate of not more than 1.8 gallons per minute and 80 psi (5.303.3.3.1). When a shower is served by more than one showerhead,

the combine flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi (5.303.3.3.2).

- Faucets and fountains. Nonresidential lavatory faucets shall have a maximum flow rate of note more than 0.5 gallons per minute at 60 psi (5.303.3.4.1). Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute of 60 psi (5.303.3.4.2). Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute (5.303.3.4.3). Metering faucets shall not deliver more than 0.20 gallons per cycle (5.303.3.4.4). Metering faucets for wash fountains shall have a maximum flow rate not more than 0.20 gallons per cycle (5.303.3.4.5).

- Outdoor portable water use in landscaped areas. Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient (MWELO), whichever is more stringent (5.304.1).

3.5.3 Local Regulations

3.5.3.1 SCAQMD Air Quality Management Plan

The SCAQMD's 2016 AQMP assesses the attainment status of the SCAB and provides a strategy for attainment of State and federal air quality standards. The AQMP strategies are developed based on population, housing, and employment growth forecasts anticipated under local city general plans and the Southern California Association of Governments' (SCAG) 2016 Regional Transportation Plan/Sustainable Communities Strategy (SCAG, 2016). A project would conflict with or obstruct an applicable air quality plan if it would lead to population, housing or employment growth that exceeds the forecasts used in the development of the applicable air quality plan.

3.5.3.2 SCAQMD Rule 402 Nuisance

This rule prohibits the discharge of air contaminants or other material which may cause, "injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public," or which may, "endanger the comfort, repose, health or safety of any such persons or the public," or which may, "cause, or have a natural tendency to cause, injury or damage to business or property."

3.5.3.3 SCAQMD Rule 203 Permit to Operate

This rule requires that a permit to operate be obtained before operation or use any equipment that may cause the issuance of air contaminants. It would apply to portable generators used during construction.

4. METHODOLOGY

Land uses such as the Project affect air quality through construction-source and operational-source emissions, and through direct and indirect emissions. For construction-source emissions, criteria air pollutants would result from onsite (i.e., off-road) sources, and off-site (i.e., mobile) sources. Air quality criteria pollutant emissions from construction of the Proposed Project were estimated using the California Emissions Estimator Model (CalEEMod) version 2020.4.0, consistent with guidance from SCAQMD (SCAQMD 2021).

In July 2021, the SCAQMD in conjunction with the California Air Pollution Control Officers Association (CAPCOA) and other California air districts, released the latest version of CalEEMod Version 2020.4.0. This model has been used to calculate construction-source criteria pollutants (VOCs, NO_X, SO_X, CO, PM_{10}, and $PM_{2.5}$) from onsite and offsite (i.e., mobile) sources; and quantify applicable air quality reductions achieved from compliance with existing regulations and adherence to mitigation measures. The latest version of CalEEMod, which incorporates the latest vehicle emissions

standards, construction fleet mix standards, and other applicable regulations has been used to estimate construction air quality emissions. Output from the model is provided in Appendix A of this report.

Model inputs were developed based on information in the Project Description chapter of the PEIR, which are summarized in detail in Sections 2.1.1 through 2.1.6, and default values from the CalEEMod computer program. CalEEMod requires the selection of a land use type, but has limited choices for them (e.g., residential, commercial, industrial, educational, recreational, retail, and parking). The selection of "Industrial, Refrigerated Warehouse, No Rail" as a land use type for the AWPF, wells, pump stations, and wellhead treatment allows for project-specific entries for energy use, construction equipment and vehicle trips. The selection of "Parking, Other Asphalt Surfaces" for the pipelines and turnouts allows for project-specific entries on demolition, construction equipment and vehicle trips, and resurfacing and does not have model default operational energy usage or ongoing vehicle trips. The selection of "Industrial, Unrefrigerated Warehouse, No Rail" for the storage tank allows for project-specific entries for construction equipment and vehicle trips, site grading, and facilities construction, without model default operational energy usage or ongoing vehicle trips. As explained in Section 2.1.7, it was assumed that construction of the Project would commence in 2025 and proceed through the start of operations of the AWPF in 2028. In reality, construction of the Project components may be phased without overlap and this assumption, therefore, represents a conservative "worst case" scenario for maximum daily emissions. It was assumed that the Proposed Project would implement the construction best management practices noted in Section 2.1.8 that are required by state law, as well as the dust minimization measures required by SCAQMD Rule 403.

5. SIGNIFICANCE THRESHOLDS

The Project has been evaluated to determine if it will violate an air quality standard, contribute to an existing or projected air quality violation, or determine if it will result in a cumulatively considerable net increase of a criteria pollutant for which the SCAB is non-attainment under an applicable NAAQS and CAAQS. Additionally, the Project has been evaluated to determine consistency with the applicable AQMP, exposure of sensitive receptors to substantial pollutant concentrations, and the impacts of odors. The significance of these potential impacts is described in the following section.

The criteria used to determine the significance of potential Project-related air quality impacts are taken from the Initial Study Checklist in Appendix G of the State CEQA Guidelines (14 California Code of Regulations §§15000, et seq.). Based on these thresholds, a project would result in a significant impact related to air quality if it would:

a) Conflict with or obstruct implementation of the applicable air quality plan

b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard

c) Expose sensitive receptors to substantial pollutant concentrations

d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people

The SCAQMD has also developed regional significance thresholds for other regulated pollutants, as summarized in **Table 8**. These SCAQMD's CEQA Air Quality Significance Thresholds (April 2019) indicate that any projects in the SCAB with daily construction and/or operational emissions that exceed any of the indicated thresholds should be considered as having an individually and cumulatively significant air quality impact.

Table 8: Maximum Daily Regional Emissions Thresholds

Mass Daily Thresholds		
Pollutant	**Construction Regional Thresholds**	**Operational Regional Thresholds**
NO_X	100 lbs/day	55 lbs/day
VOC	75 lbs/day	55 lbs/day
PM_{10}	150 lbs/day	150 lbs/day
$PM_{2.5}$	55 lbs/day	55 lbs/day
SO_X	150 lbs/day	150 lbs/day
CO	550 lbs/day	550 lbs/day
Pb	3 lbs/day	3 lbs/day

lbs/day = Pounds Per Day

These SCAQMD thresholds of significance apply to all sources of air pollutants, including equipment and businesses not regulated by the SCAQMD and motor vehicles. SCAQMD's thresholds of significance are intended to address cumulative, basin-wide air pollutant impacts. Therefore, if a project's emissions do not exceed the SCAQMD significance thresholds, it can be assumed that it will not result in a cumulatively considerable net increase of a criteria pollutant for which the SCAB is non-attainment based on federal and State AAQS.

The SCAQMD works to clean the air and protect the health of all residents in the South Coast Air District. The SCAQMD thresholds of significance are designed to evaluate impacts at a project level as they relate to the California and National Ambient Air Quality Standards. The SCAQMD thresholds of significance ensure projects do not conflict with the latest adopted clean air plans, which are developed to ensure the Air Basin is on track to achieve compliance with federal and State AAQS. The AAQS provide public health protection, including protecting the health of "sensitive" populations such as asthmatics, children, and the elderly. Therefore, if a project is consistent with the latest adopted clean air plan and does not exceed the SCAQMD significance thresholds, it can be assumed that it will not have a substantial adverse impact on public health.

In addition, the SCAQMD has developed Localized Significance Thresholds (LSTs) in response to concern regarding exposure of individuals to criteria pollutants in local communities. LSTs have been developed for nitrogen oxides (NO_X), CO, PM_{10} and $PM_{2.5}$. LSTs represent the maximum emissions from a project that will not cause or contribute to an air quality exceedance of the most stringent applicable federal or State AAQS at the nearest sensitive receptor, taking into consideration ambient concentrations in each source receptor area, distance to the sensitive receptor, and project size. LSTs only apply to emissions within a fixed stationary location; they are not applicable to mobile sources. The use of LSTs is voluntary, to be implemented at the discretion of local agencies (SCAQMD 2008).

The SCAQMD LSTs have been defined for emissions within construction areas up to five acres in size. The SCAQMD provides lookup tables for sites that measure up to one, two, or five acres. The Project has several individual sites that would have construction disturbance areas that would range in size from approximately one-half acre (well sites, daily pipeline disturbance area, turnouts, pump stations, wellhead treatment) to approximately five acres (AWPF, storage tank). Pursuant to SCAQMD guidance, LSTs for the one-acre site should be used for sites that are less than one acre in size. LSTs for construction on one-acre and five-acre sites in SRA-34 are shown in **Table 9**. For most of the Project facilities, LSTs are provided for receptors at a distance of 25 meters (82 feet), which is the most conservative LST distance (LSTs range from 25 to 500 meters). However, for the AWPF, the nearest sensitive receptor is located approximately 500 meters from the AWPF. Therefore, the LST for a receptor located 500 meters from a 5-acre site is used for the AWPF. LSTs are defined for 37 source receptor areas (SRAs). The Project is located within multiple SRAs:

it is located partially within SRA-32, Northwest San Bernardino Valley, SRA-33, Southwest San Bernardino Valley, partially within SRA-34, Central San Bernardino Valley, and partially within SRA-22, Norco/Corona (SCAQMD 2008). The emissions limits for the most restrictive SRA are shown in **Table 9**.

Table 9: SCAQMD LSTs for Construction and Operation

Pollutant	Allowable emission from a one-acre site for a receptor within 25 meters, or 82 feet away (pounds/day)	Allowable emission from a five-acre site for a receptor within 25 meters, or 82 feet away (pounds/day)	Allowable emission from a five-acre site for a receptor within 500 meters, or 82 feet away (pounds/day)
Gradual Conversion of NO_x to NO_2	118	270	778
CO	667	1,746	22,490
PM_{10} – operation	1	4	55
PM_{10} – construction	4	12	228
$PM_{2.5}$ – operation	1	2	28
$PM_{2.5}$ – construction	3	8	113

Source: SCAQMD 2009

6. PROJECT IMPACTS

6.1 Short-term Criteria Pollutant Emissions

Air emissions of criteria pollutants during construction of the Proposed Project would result from the use of construction equipment with internal combustion engines, and off-site vehicles to transport workers, deliver materials to the site, and haul export material from the site. Proposed Project construction emissions are summarized in **Table 10**. Consistent with SCAQMD guidelines, daily maximum construction-related fugitive dust, NO_x, ROC, PM_{10}, and $PM_{2.5}$ emissions from grading, paving, and other activities have been quantified for each year of Proposed Project construction and compared to the regional maximum daily threshold for construction-related emissions.

Proposed Project maximum daily construction emissions were estimated for the most impactful simultaneous construction activities, with 2027 being the most impactful year. In 2027, construction would be underway on the storage reservoir, AWPF, pump stations, wellhead treatment, turnouts, pipelines, and wells. In 2025, construction activities would include the wells and pipelines. In 2026, the wells, pipelines, and turnouts would be under construction.

Table 10: Proposed Project Maximum Daily Construction Emissions Compared to Regional Thresholds (lbs./day)

Year	NO_x	ROG	CO	SO_x	$PM_{2.5}$	PM_{10}
2025	154	14	127	0.5	15	30
2026	224	22	189	0.6	22	45
2027	280	31	238	0.8	29	57
Threshold	*100*	*75*	*550*	*150*	*55*	*150*
Threshold Exceeded?	**Yes**	**No**	**No**	**No**	**No**	**No**

Note: Emissions represent the maximum of winter or summer and are rounded to the nearest whole number. Values are taken from the "mitigated" CalEEMod output tables for $PM_{2.5}$ and PM_{10} to represent emissions with dust control measures required by SCAQMD Rule 403. See CalEEMod output sheets in Attachment A.

As shown in **Table 10**, ROG/VOC, CO, SO_x, PM_{10}, and $PM_{2.5}$, emissions would not exceed maximum daily thresholds. The values shown for $PM_{2.5}$ and PM_{10} are the "mitigated" values in the CalEEMod output sheets. These "mitigated" values reflect the Project's compliance with SCAQMD Rule 403 to control fugitive dust emissions, as opposed to mitigation measures under CEQA. CalEEMod does not allow for the input of adherence to existing regulations, such as SCAQMD Rule 403, separate from CEQA mitigation measures. To comply with SCAQMD Rule 403, the Proposed Project would implement fugitive dust control measures, including watering the site twice daily, reducing onsite construction vehicle speed to 15 mph, and cleaning paved roads to prevent construction vehicle dust track-out.

Emissions would exceed applicable regional maximum daily thresholds for NO_x throughout the entire duration of Project construction as shown in **Table 10**. The use of an engine fleet with at least 95 percent Tier 4 engines on applicable equipment[1] would reduce NO_x emissions to below the regional maximum daily thresholds. The Project emissions with the incorporation of mitigation to use Tier 4 engines are shown **Table 11**.

> **Mitigation Measure: Tier 4 Engines.** IEUA shall use off-road equipment that meets the United States Environmental Protection Agency (EPA) certified Tier 4 final engines or engines that are certified to meet or exceed the emission ratings for EPA Tier 4 final or interim engines such that average daily nitrogen oxide (NO_X) emissions are lower than SCAQMD Regional Mass Emissions Thresholds of 100 pounds per day. One way for this to be accomplished would be for 95 percent of the construction equipment and vehicles, with the exception of drill rigs, used for the Project to be equipped with Tier 4 final engines.

[1] Note that drill rigs with a Tier 4 engine may not be available at the time of construction. Therefore, this analysis did not assume any change in the engine type for drill rigs.

Table 11: Mitigated Proposed Project Maximum Daily Construction Emissions Compared to Regional Thresholds (lbs./day)

Year	NO_x	ROG	CO	SO_x	$PM_{2.5}$	PM_{10}
2025	59	5	141	0.5	15	30
2026	75	7	211	0.6	22	45
2027	92	19	265	0.8	29	57
Threshold	*100*	*75*	*550*	*150*	*55*	*150*
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

Note: Emissions represent the maximum of winter or summer and are rounded to the nearest whole number. See CalEEMod output sheets in Attachment A. Values are taken from the "mitigated" CalEEMod output tables to represent emissions with dust control measures and Tier 4 engines for at least three-quarters of the applicable construction equipment fleet.

The quantities presented in **Table 10** and **Table 11** above, represent the estimated emissions associated with the simultaneous construction of the wells and pipelines in 2025, the wells, pipelines and turnouts in 2026; and the wells, pipelines, turnouts, wellhead treatment, pump stations, AWPF, and storage tank in 2027. As analyzed above, the Proposed Project would not exceed the applicable emissions standards during construction, with incorporation of Tier 4 engines into the construction equipment vehicle fleet. As noted previously, the construction phasing scheduled used for the purposes of this air quality analysis assumed the most impactful scenario of construction activities taking place simultaneously. In reality, construction phasing may be spaced out without as much overlap as was assumed in this analysis. Thus, although the maximum daily emissions in the year 2027 shown in **Table 11** are at the threshold level, actual regional maximum daily emissions may not be this high. Construction would be short-term and temporary. Therefore, construction of the Proposed Project would not result in a cumulatively considerable net increase of a criteria pollutant for which the SCAB is non-attainment.

6.2 Long-term Criteria Pollutant Emissions

Long-term operation of the Chino Basin Program would involve occasional operations and maintenance trips, and energy consumption to operate the AWPF, wellhead treatment, pump stations, and injection and extraction wells. While emissions of criteria pollutants would result from motor vehicle trips associated with maintenance and operation of the Proposed Project facilities, these emissions are assumed to be negligible because, once constructed, the Project facilities would be largely monitored remotely and would require no more than five to six trips per day, on average, for inspections, testing, and maintenance.

Emissions associated with long-term electricity consumption would not result in direct Project emissions of criteria air pollutants. Only direct emissions of criteria pollutants from energy sources that combust on-site, such as natural gas, are attributed with individual projects. The Project does not propose to combust natural gas onsite. Criteria pollutant emissions from the power plants that would provide electricity to the Proposed Project are associated with the power plants themselves, which are stationary sources permitted by air districts and/or the EPA, and are subject to local, state and federal control measures. Thus, emissions of criteria pollutants from electricity consumption are not attributable to individual projects.

Because emissions would be below the significance levels, the Proposed Project would not result in a cumulatively considerable net increase of a criteria pollutant for which the SCAB is non-attainment.

6.3 Other Emissions

SCAQMD Rule 402 Nuisance, prohibits discharge from any source whatsoever of air contaminants or other material which cause injury, detriment, nuisance or annoyance to any considerable number of persons or to the public or which

endanger the comfort, repose, health or safety or any such persons or the public or which cause or have a natural tendency to cause injury or damage to business or property. This rule covers generation of odors. Typical sources of odor complaints include facilities such as sewage treatment plants, landfills, recycling facilities, petroleum refineries, and livestock operations. Under the right meteorological conditions, some odors may still be offensive several miles from the source (CARB 2005).

Implementation of the Proposed Project would have the potential to generate objectionable odors through construction activities and during operation of certain components. Construction activities are not typical sources of nuisance odors, although construction could result in minor amounts of odors associated with diesel exhaust or evaporation of VOCs within architectural coatings. These smells are largely due to the presence of sulfur and creation of hydrocarbons during combustion. As shown in **Table 10** and **Table 11** above, construction would not result in significant emissions of sulfur oxides. Additionally, construction would be temporary, and equipment would not be located in a single location throughout the construction period. Odorous hydrocarbons tend to dissipate quickly and would only affect receptors in the immediate vicinity, rather than a substantial number of people at any given time. Therefore, construction activities would not result in nuisance odors.

Operation of the Proposed Project, including the AWPF, pump stations, wells, wellhead treatment, pipelines and storage tank, is not expected to result in odor impacts. RP-4 already treats and stores wastewater and recycled water, which requires operation of odor control measures to prevent objectionable odors. Addition of the AWPF facility with an improved level of treatment would not create odors because source water would be secondary effluent suitable for reuse and product water would be pure water suitable for groundwater replenishment, neither of which has associated odor. The AWFP would be designed and constructed in compliance with applicable regulations and standards relative to water produced for groundwater replenishment.

6.4 Exposure of Sensitive Receptors to Substantial Pollutant Concentrations

Sensitive receptors are typically defined as schools (preschool–12th grade), hospitals, resident care facilities, senior housing facilities, day care centers, or other facilities that may house individuals with health conditions that would be adversely impacted by changes in air quality (CARB 2018). Sensitive receptors are located within the vicinity of the Proposed Project.

LSTs represent the maximum emissions from a project that will not cause or contribute to an air quality exceedance of the most stringent applicable federal or State AAQS at the nearest sensitive receptor. Therefore, projects that conform to the LSTs are assumed to have a less than significant impact on nearby sensitive receptors.

The Proposed Project emissions are compared to LSTs for the Project area and are provided below. LSTs are only applicable to emissions within a fixed, stationary location, such as construction sites, and vary based on project site size. **Table 12** and **Table 13** provide LSTs that are applicable to construction of each component of the Proposed Project, as each component has a different construction location and footprint. As explained under the Significance Thresholds, above, SCAQMD provides LST lookup tables for sites that measure up to one, two, or five acres; LSTs for construction sites smaller than one acre should use the one acre threshold. SCAQMD provides LST lookup tables for receptors located 25, 50, 100, 200, and 500 meters from the boundary of the site. The specific location of many of the Proposed Project facilities is not yet known, therefore emissions are compared to the most restrictive, 25-meter LST. The site of the AWPF, however, is known. The nearest sensitive receptor is located approximately 500 meters from the AWPF. Therefore, the LST for a receptor located 500 meters from a 5-acre site is used for the AWPF.

Table 12: Proposed Project Maximum Daily Construction Emissions Compared to LSTs (lbs./day)

Emissions Source (onsite stationary emissions only)	NO_x	CO	PM_{10}	$PM_{2.5}$
Well Sites	14	13	2	1
Well Sites LST (one-acre, 25 meters LST)	*118*	*667*	*4*	*3*
Threshold exceeded?	**No**	**No**	**No**	**No**
Pipelines	1.5	1.4	<1	<1
Pipeline LST (one-acre, 25 meters LST)	*118*	*667*	*4*	*3*
Threshold exceeded?	**No**	**No**	**No**	**No**
Turnouts	22	20	4	2
Turnout LST (one-acre, 25 meters LST)	*118*	*667*	*4*	*3*
Threshold exceeded?	**No**	**No**	**No**	**No**
Wellhead Treatment Sites	7	8	<1	<1
Wellhead Treatment Sites LST (one-acre, 25 meters LST)	*118*	*667*	*4*	*3*
Threshold exceeded?	**No**	**No**	**No**	**No**
Pump Station Sites	12	9	3	2
Pump Station LST (one-acre, 25 meters LST)	*118*	*667*	*4*	*3*
Threshold exceeded?	**No**	**No**	**No**	**No**
AWPF Site	25	18	8	5
AWPF LST (*five-acre, 500 meters LST*)	778	22,490	228	113
Threshold exceeded?	**No**	**No**	**No**	**No**
Storage Reservoir Site	15	16	3	2
Storage Reservoir LST (five-acre, 25 meters LST)	*270*	*1,746*	*14*	*8*
Threshold exceeded?	**No**	**No**	**No**	**No**

Note: Emissions represent the maximum of winter or summer and are rounded to the nearest whole number. Values are taken from the "mitigated" CalEEMod output tables for $PM_{2.5}$ and PM_{10} to represent emissions with dust control measures required by SCAQMD Rule 403. See CalEEMod output sheets in Attachment A.

Table 13: Mitigated Proposed Project Maximum Daily Construction Emissions Compared to LSTs (lbs./day)

Emissions Source (onsite stationary emissions only)	NO_x	CO	PM_{10}	$PM_{2.5}$
Well Sites	4	14	2	1
Well Sites LST (one-acre, 25 meters LST)	*118*	*667*	*4*	*3*
Threshold exceeded?	**No**	**No**	**No**	**No**
Pipelines	<1	1.5	<1	<1
Pipeline LST (one-acre, 25 meters LST)	*118*	*667*	*4*	*3*
Threshold exceeded?	**No**	**No**	**No**	**No**
Turnouts	4	23	4	2
Turnout LST (one-acre, 25 meters LST)	*118*	*667*	*4*	*3*
Threshold exceeded?	**No**	**No**	**No**	**No**
Wellhead Treatment Sites	2	9	<1	<1
Wellhead Treatment Sites LST (one-acre, 25 meters LST)	*118*	*667*	*4*	*3*
Threshold exceeded?	**No**	**No**	**No**	**No**
Pump Station Sites	2	11	3	2
Pump Station LST (one-acre, 25 meters LST)	*118*	*667*	*4*	*3*
Threshold exceeded?	**No**	**No**	**No**	**No**
AWPF Site	3	21	8	5
AWPF LST (*five-acre, 500 meters LST*)	778	22,490	228	113
Threshold exceeded?	**No**	**No**	**No**	**No**
Storage Reservoir Site	3	18	3	2
Storage Reservoir LST (five-acre, 25 meters LST)	*270*	*1,746*	*14*	*8*
Threshold exceeded?	**No**	**No**	**No**	**No**

Note: Emissions represent the maximum of winter or summer and are rounded to the nearest whole number. See CalEEMod output sheets in Attachment A. Values are taken from the "mitigated" CalEEMod output tables to represent emissions with dust control measures and Tier 4 engines for at least three-quarters of the applicable construction equipment fleet.

The Proposed Project's construction and operational emissions would not exceed SCAQMD regional thresholds or LSTs with the implementation of applicable fugitive dust control measures. With implementation of mitigation to incorporate Tier 4 engines, NO_X emissions would not exceed regional thresholds; however, both the unmitigated and mitigated NO_X emissions would be below the LSTs. Therefore, sensitive receptors would not be subjected to substantial pollutant concentrations and impacts would be less than significant.

As described in Section 6.1, the Proposed Project would not result in considerable pollutant levels during construction. Construction would be short-term and emissions of PM_{10} and $PM_{2.5}$, including particulate matter from diesel exhaust, would be below thresholds, which are designed to protect public health and the health of sensitive receptors. The Proposed Project would also adhere to Rule 403 required by SCAQMD, which would further reduce dust emissions. As explained above in Section 5, the California and National AAQS provide public health protection, including protecting the health of sensitive populations such as asthmatics, children, and the elderly. If a project is consistent with the latest adopted clean air plan and does not exceed the SCAQMD significance thresholds, it can be assumed that it will not have a substantial adverse impact on public health. Operation of the Proposed Project would result in negligible long-

term criteria air pollutant concentrations that would not exceed SCAQMD emissions standards. Ongoing operations and maintenance trips would be minimal and would not contribute to CO "hotspots." The Proposed Project would construct facilities that are similar to the facilities at the existing RP-4, which do not currently generate substantial sources of toxic air contaminant emissions that could pose or contribute to a health risk (SCAQMD 2020). Likewise, the proposed pipelines, turnouts, storage tank, and wells would be largely monitored remotely, would not involve substantial vehicle maintenance trips, and would not introduce a source of toxic air contaminants such as diesel particulate matter that could pose or contribute to a health risk; these types of facilities are not mentioned in the SCAQMD Air Toxics "Hot Spots" Program annual reporting (SCAQMD 2020). Therefore, neither construction nor operation of the Proposed Project are anticipated to expose sensitive receptors to substantial pollutant concentrations.

6.5 Consistency with Air Quality Plans

6.5.1 SCAQMD AQMP

SCAQMD's 2016 AQMP is the applicable air quality control plan. A project would conflict with or obstruct an applicable air quality plan if it would lead to population, housing or employment growth that exceeds the forecasts used in the development of the applicable air quality plan. The Proposed Project would involve the replacement of imported water with a local supply, which would add reliability to the IEUA water portfolio serving existing customers, as well as future customers from planned growth in the area. Therefore, the Proposed Project would not lead to unplanned population, housing or employment growth that exceeds the forecasts used in the development of the AQMP. Furthermore, with mitigation and adherence to existing regulations, the Proposed Project would not result in emissions of criteria air pollutants that would conflict with the AQMP regional standards to achieve the federal air quality standards.

6.6 Cumulative Impacts

The geographic scope for the analysis of cumulative impacts of criteria air pollutants and air quality plans is the South Coast Air Basin. The SCAQMD AQMP addresses cumulative air quality impacts in the SCAB based on future growth predictions based on the general plans of local jurisdictions. For this reason, development consistent with the applicable general plan would also be consistent with the AQMP. Cumulative development within the SCAB is not anticipated to result in a significant impact in terms of conflicting with the AQMP because the majority of cumulative projects would be consistent with their respective general plans and the growth anticipated under the AQMP. The CBP would serve water supply needs for existing and planned water demand and would not result in or accommodate unplanned growth. Therefore, the CBP, in combination with other cumulative projects would not conflict with or obstruct implementation of the AQMP. No cumulative impact would occur.

The cumulative impact to the SCAB due to criteria air pollution emissions associated with existing basin-wide polluting activities is significant because the SCAB is already classified as nonattainment for O_3, PM_{10}, and $PM_{2.5}$ (see **Table 6**). The SCAQMD's CEQA Air Quality Significance Thresholds (April 2019) indicate that any projects in the SCAB with daily construction and/or operational emissions that exceed any of the indicated thresholds in **Table 8** should be considered as having an individually and cumulatively significant air quality impact. With mitigation incorporated, emissions from the CBP would not exceed the regional thresholds, even with worst-case maximum daily construction scenarios (see **Table 11**). The CBP would not result in a cumulatively considerable contribution to a cumulative air quality impact.

The geographic scope for the analysis of cumulative impacts relative to sensitive receptors is the Project area (see **Figure 1**) because sensitive receptors (e.g., residences, schools, and hospitals) are interspersed throughout the area where the proposed CBP facilities would be located. Cumulative growth in the Project area would have the potential to result in carbon monoxide hotspots, and emissions of diesel particulate matter. However, emissions from Proposed Project construction and operation, including emissions of carbon monoxide and $PM_{2.5}$, would be below significance thresholds that are designed to protect the health of sensitive receptors. The overall net vehicle trips associated with

the Proposed Project would be negligible. Therefore, the CBP, together with other cumulative projects, would not result in a cumulatively considerable air quality impact on sensitive receptors.

The geographic scope for the analysis of cumulative impacts relative to objectionable odors is the area immediately surrounding the odor source. Objectionable odors are not cumulative in nature because the air emissions that cause the odors disperse beyond the odor source, making the odor less detectable. Cumulative projects would be required to comply with SCAQMD Rule 402 (Nuisance). Therefore, the CBP, in combination with other cumulative projects, would not result in a significant cumulative impact associated with objectionable odors.

7. REFERENCES

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ATTACHMENT A: CALEEMOD OUTPUT SHEETS

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Chino Basin Program - Construction

South Coast Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	1,354.00	1000sqft	31.08	1,354,000.00	0
Other Asphalt Surfaces	1,056.00	1000sqft	24.24	1,056,000.00	0
Unrefrigerated Warehouse-No Rail	163.00	1000sqft	3.74	163,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	10			**Operational Year**	2028
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - CalEEMod has limited choices for land use types. Industrial Refrigerated Warehouse - no rail chosen for most CBP components because allows for project-specific entries for energy use, and construction. Parking Other Asphalt Surfaces chosen for pipes, turnouts because allows for project-specific entries on construction equipment, etc., and doesn't have operational energy usage.

Construction Phase - see project description

Off-road Equipment - see project description

Off-road Equipment - see project description

Off-road Equipment - see project description

Off-road Equipment - see project description

Off-road Equipment - see project description

Off-road Equipment -

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-road Equipment - see project description
Off-road Equipment - see project description
Off-road Equipment - see project description
Off-road Equipment - see project description
Off-road Equipment -
Off-road Equipment - see project description
Off-road Equipment - see project description
Off-road Equipment - see project description
Off-road Equipment -
Off-road Equipment - see project description
Off-road Equipment - see project description
Off-road Equipment - see project description
Grading - see project description
Demolition -
Trips and VMT - see project description.
Vehicle Trips - construction only
Area Coating - construction only
Landscape Equipment - construction only
Energy Use - construction only
Water And Wastewater - construction only
Solid Waste - construction only
Construction Off-road Equipment Mitigation - rule 403 and 90-percent Tier 4

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	758500	0
tblAreaCoating	Area_Nonresidential_Interior	2275500	0
tblAreaCoating	Area_Parking	63360	0
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	25

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	13.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	20.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	17.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	34.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	51.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	19.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	17.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	23.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	14.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstructionPhase	NumDays	1,110.00	201.00
tblConstructionPhase	NumDays	1,110.00	75.00
tblConstructionPhase	NumDays	1,110.00	261.00
tblConstructionPhase	NumDays	70.00	20.00
tblConstructionPhase	NumDays	110.00	783.00
tblConstructionPhase	NumDays	110.00	8.00
tblConstructionPhase	NumDays	110.00	20.00
tblConstructionPhase	NumDays	110.00	10.00
tblConstructionPhase	NumDays	110.00	44.00
tblConstructionPhase	NumDays	110.00	44.00
tblConstructionPhase	NumDays	110.00	522.00
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tblConstructionPhase	NumDays	110.00	261.00
tblConstructionPhase	NumDays	75.00	10.00
tblConstructionPhase	NumDays	75.00	20.00
tblConstructionPhase	NumDays	75.00	18.00
tblConstructionPhase	NumDays	40.00	5.00
tblEnergyUse	LightingElect	2.37	0.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	36.52	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	48.51	0.00

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	0.95	0.00
tblEnergyUse	T24E	0.33	0.00
tblEnergyUse	T24NG	3.22	0.00
tblEnergyUse	T24NG	1.98	0.00
tblGrading	AcresOfGrading	1,174.50	18.50
tblGrading	AcresOfGrading	8.00	5.00
tblGrading	AcresOfGrading	15.00	6.00
tblGrading	AcresOfGrading	10.00	4.00
tblGrading	AcresOfGrading	121.00	5.00
tblGrading	AcresOfGrading	121.00	5.00
tblGrading	AcresOfGrading	1,435.50	10.00
tblGrading	AcresOfGrading	7.50	0.00
tblGrading	AcresOfGrading	121.00	5.00
tblGrading	AcresOfGrading	261.00	2.00
tblLandscapeEquipment	NumberSummerDays	250	0
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Signal Boards
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Signal Boards
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Signal Boards
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tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	8.00	6.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	7.00	4.00
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tblOffRoadEquipment	UsageHours	8.00	6.00
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tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblSolidWaste	SolidWasteGenerationRate	1,272.76	0.00
tblSolidWaste	SolidWasteGenerationRate	153.22	0.00
tblTripsAndVMT	HaulingTripLength	20.00	50.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripNumber	0.00	40.00
tblTripsAndVMT	HaulingTripNumber	0.00	600.00
tblTripsAndVMT	HaulingTripNumber	0.00	660.00
tblTripsAndVMT	HaulingTripNumber	0.00	660.00
tblTripsAndVMT	HaulingTripNumber	0.00	2,000.00
tblTripsAndVMT	HaulingTripNumber	0.00	20.00
tblTripsAndVMT	HaulingTripNumber	0.00	660.00
tblTripsAndVMT	VendorTripLength	6.90	50.00
tblTripsAndVMT	VendorTripLength	6.90	40.00
tblTripsAndVMT	VendorTripLength	6.90	40.00
tblTripsAndVMT	VendorTripLength	6.90	40.00
tblTripsAndVMT	VendorTripLength	6.90	40.00
tblTripsAndVMT	VendorTripLength	6.90	40.00
tblTripsAndVMT	VendorTripLength	6.90	40.00
tblTripsAndVMT	VendorTripLength	6.90	40.00
tblTripsAndVMT	VendorTripLength	6.90	20.00
tblTripsAndVMT	VendorTripNumber	0.00	128.00

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	VendorTripNumber	0.00	30.00
tblTripsAndVMT	VendorTripNumber	422.00	30.00
tblTripsAndVMT	VendorTripNumber	422.00	20.00
tblTripsAndVMT	VendorTripNumber	422.00	0.00
tblTripsAndVMT	VendorTripNumber	0.00	30.00
tblTripsAndVMT	VendorTripNumber	0.00	30.00
tblTripsAndVMT	VendorTripNumber	0.00	28.00
tblTripsAndVMT	VendorTripNumber	0.00	30.00
tblTripsAndVMT	VendorTripNumber	0.00	12.00
tblTripsAndVMT	VendorTripNumber	422.00	0.00
tblTripsAndVMT	WorkerTripLength	14.70	20.00
tblTripsAndVMT	WorkerTripLength	14.70	20.00
tblTripsAndVMT	WorkerTripLength	14.70	20.00
tblTripsAndVMT	WorkerTripLength	14.70	20.00
tblTripsAndVMT	WorkerTripLength	14.70	20.00
tblTripsAndVMT	WorkerTripLength	14.70	40.00
tblTripsAndVMT	WorkerTripLength	14.70	40.00
tblTripsAndVMT	WorkerTripLength	14.70	40.00
tblTripsAndVMT	WorkerTripLength	14.70	40.00
tblTripsAndVMT	WorkerTripLength	14.70	40.00
tblTripsAndVMT	WorkerTripNumber	73.00	80.00
tblTripsAndVMT	WorkerTripNumber	15.00	40.00
tblTripsAndVMT	WorkerTripNumber	1,081.00	40.00
tblTripsAndVMT	WorkerTripNumber	15.00	20.00
tblTripsAndVMT	WorkerTripNumber	1,081.00	20.00
tblTripsAndVMT	WorkerTripNumber	15.00	24.00
tblTripsAndVMT	WorkerTripNumber	1,081.00	24.00
tblTripsAndVMT	WorkerTripNumber	20.00	24.00
tblTripsAndVMT	WorkerTripNumber	23.00	40.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	WorkerTripNumber	100.00	84.00
tblTripsAndVMT	WorkerTripNumber	100.00	84.00
tblTripsAndVMT	WorkerTripNumber	100.00	28.00
tblTripsAndVMT	WorkerTripNumber	10.00	20.00
tblTripsAndVMT	WorkerTripNumber	18.00	40.00
tblTripsAndVMT	WorkerTripNumber	100.00	84.00
tblTripsAndVMT	WorkerTripNumber	1,081.00	10.00
tblVehicleTrips	ST_TR	2.12	0.00
tblVehicleTrips	ST_TR	1.74	0.00
tblVehicleTrips	SU_TR	2.12	0.00
tblVehicleTrips	SU_TR	1.74	0.00
tblVehicleTrips	WD_TR	2.12	0.00
tblVehicleTrips	WD_TR	1.74	0.00
tblWater	IndoorWaterUseRate	313,112,500.00	0.00
tblWater	IndoorWaterUseRate	37,693,750.00	0.00

2.0 Emissions Summary

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2025	14.1696	153.7284	126.9202	0.4644	56.3107	5.3204	61.6311	27.9208	4.9715	32.8923	0.0000	47,133.3298	47,133.3298	6.9802	3.1661	48,251.3172
2026	21.5622	224.1793	188.9808	0.6182	85.4511	8.2025	93.6536	43.3792	7.6704	51.0496	0.0000	62,261.6719	62,261.6719	9.9941	3.6029	63,585.1944
2027	31.1655	280.0541	237.6336	0.7552	110.8735	10.5341	121.4076	56.9777	9.8285	66.8062	0.0000	75,990.8839	75,990.8839	12.5314	4.9989	77,596.6610
Maximum	**31.1655**	**280.0541**	**237.6336**	**0.7552**	**110.8735**	**10.5341**	**121.4076**	**56.9777**	**9.8285**	**66.8062**	**0.0000**	**75,990.8839**	**75,990.8839**	**12.5314**	**4.9989**	**77,596.6610**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2025	4.9686	59.2789	141.1539	0.4644	29.2846	1.0258	30.3104	13.7408	0.9804	14.7213	0.0000	47,133.3298	47,133.3298	6.9802	3.1661	48,251.3172
2026	6.9120	75.4441	211.2366	0.6182	43.1136	1.4045	44.5181	20.9081	1.3466	22.2547	0.0000	62,261.6719	62,261.6719	9.9941	3.6029	63,585.1944
2027	19.0485	91.9555	265.3938	0.7552	55.0039	1.6707	56.6746	27.1551	1.6026	28.7577	0.0000	75,990.8838	75,990.8838	12.5314	4.9989	77,596.6610
Maximum	**19.0485**	**91.9555**	**265.3938**	**0.7552**	**55.0039**	**1.6707**	**56.6746**	**27.1551**	**1.6026**	**28.7577**	**0.0000**	**75,990.8838**	**75,990.8838**	**12.5314**	**4.9989**	**77,596.6610**

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	53.77	65.55	-11.61	0.00	49.57	82.95	52.47	51.82	82.51	56.40	0.00	0.00	0.00	0.00	0.00	0.00

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	30.4348	2.3700e-003	0.2620	2.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004		0.5631	0.5631	1.4600e-003		0.5997
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	**30.4348**	**2.3700e-003**	**0.2620**	**2.0000e-005**	**0.0000**	**9.3000e-004**	**9.3000e-004**	**0.0000**	**9.3000e-004**	**9.3000e-004**		**0.5631**	**0.5631**	**1.4600e-003**	**0.0000**	**0.5997**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	30.4348	2.3700e-003	0.2620	2.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004		0.5631	0.5631	1.4600e-003		0.5997
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	**30.4348**	**2.3700e-003**	**0.2620**	**2.0000e-005**	**0.0000**	**9.3000e-004**	**9.3000e-004**	**0.0000**	**9.3000e-004**	**9.3000e-004**		**0.5631**	**0.5631**	**1.4600e-003**	**0.0000**	**0.5997**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Wells	Grading	1/1/2025	12/31/2027	5	783	Wells
2	Pipelines25	Grading	1/1/2025	3/3/2025	5	44	Pipelines25
3	Pipelines26	Grading	1/1/2026	3/3/2026	5	44	Pipelines26
4	Turnouts	Grading	1/1/2026	12/31/2027	5	522	Turnouts
5	WellheadDemo	Demolition	1/1/2027	1/28/2027	5	20	WellheadDemo
6	AWPFSiteprep	Site Preparation	1/1/2027	1/7/2027	5	5	AWPFSiteprep
7	Pipelines27	Grading	1/1/2027	3/3/2027	5	44	Pipelines27
8	PumpStationsGrading	Grading	1/1/2027	12/31/2027	5	261	PumpStationsGrading
9	PumpStationsConstruct	Building Construction	1/1/2027	12/31/2027	5	261	PumpStationsConstruct
10	AWPFGrading	Grading	1/8/2027	1/19/2027	5	8	AWPFGrading
11	AWPFConstruction	Building Construction	1/20/2027	12/7/2027	5	230	AWPFConstruction
12	WellheadGrading	Grading	1/29/2027	2/25/2027	5	20	WellheadGrading
13	WellheadConstruct	Building Construction	2/26/2027	12/3/2027	5	201	WellheadConstruct
14	StorageResGrading	Grading	8/2/2027	8/13/2027	5	10	StorageResGrading
15	StorageResConstruct	Building Construction	8/16/2027	11/26/2027	5	75	StorageResConstruct
16	StorageResPaving	Paving	11/29/2027	12/10/2027	5	10	StorageResPaving
17	WellheadPaving	Paving	12/6/2027	12/31/2027	5	20	WellheadPaving
18	AWPFPaving	Paving	12/8/2027	12/31/2027	5	18	AWPFPaving

Acres of Grading (Site Preparation Phase): 0

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Acres of Grading (Grading Phase): 18.5

Acres of Paving: 24.24

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Wells	Rubber Tired Dozers	4	6.00	247	0.40
Wells	Tractors/Loaders/Backhoes	12	6.00	97	0.37
Wells	Bore/Drill Rigs	1	24.00	221	0.50
Wells	Cranes	4	6.00	231	0.29
Wells	Welders	4	4.00	46	0.45
Pipelines25	Excavators	3	4.00	158	0.38
Pipelines25	Graders	1	8.00	187	0.41
Pipelines25	Rubber Tired Dozers	6	6.00	247	0.40
Pipelines25	Tractors/Loaders/Backhoes	3	6.00	97	0.37
Pipelines25	Crushing/Proc. Equipment	6	6.00	85	0.78
Pipelines25	Cranes	3	6.00	231	0.29
Pipelines25	Rollers	3	6.00	80	0.38
Pipelines25	Sweepers/Scrubbers	3	4.00	64	0.46
Pipelines25	Paving Equipment	3	2.00	132	0.36
Pipelines25	Generator Sets	3	1.00	84	0.74
Pipelines26	Excavators	3	4.00	158	0.38
Pipelines26	Graders	1	8.00	187	0.41
Pipelines26	Rubber Tired Dozers	6	6.00	247	0.40
Pipelines26	Tractors/Loaders/Backhoes	3	6.00	97	0.37
Pipelines26	Crushing/Proc. Equipment	6	6.00	85	0.78
Pipelines26	Cranes	3	6.00	231	0.29
Pipelines26	Rollers	3	6.00	80	0.38

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Pipelines26	Sweepers/Scrubbers	3	4.00	64	0.46
Pipelines26	Paving Equipment	3	2.00	132	0.36
Pipelines26	Generator Sets	3	1.00	84	0.74
Pipelines27	Excavators	3	4.00	158	0.38
Pipelines27	Graders	1	8.00	187	0.41
Pipelines27	Rubber Tired Dozers	6	6.00	247	0.40
Pipelines27	Tractors/Loaders/Backhoes	3	6.00	97	0.37
Pipelines27	Crushing/Proc. Equipment	6	6.00	85	0.78
Pipelines27	Cranes	3	6.00	231	0.29
Pipelines27	Rollers	3	6.00	80	0.38
Pipelines27	Sweepers/Scrubbers	3	4.00	64	0.46
Pipelines27	Paving Equipment	3	2.00	132	0.36
Pipelines27	Generator Sets	3	1.00	84	0.74
Turnouts	Excavators	3	4.00	158	0.38
Turnouts	Graders	1	8.00	187	0.41
Turnouts	Rubber Tired Dozers	6	6.00	247	0.40
Turnouts	Tractors/Loaders/Backhoes	3	6.00	97	0.37
Turnouts	Crushing/Proc. Equipment	6	6.00	85	0.78
Turnouts	Cranes	3	6.00	231	0.29
Turnouts	Rollers	3	6.00	80	0.38
Turnouts	Sweepers/Scrubbers	3	4.00	64	0.46
Turnouts	Paving Equipment	3	2.00	132	0.36
Turnouts	Generator Sets	3	1.00	84	0.74
AWPFSiteprep	Rubber Tired Dozers	3	8.00	247	0.40
AWPFSiteprep	Tractors/Loaders/Backhoes	4	8.00	97	0.37
AWPFGrading	Excavators	1	8.00	158	0.38
AWPFGrading	Graders	1	8.00	187	0.41
AWPFGrading	Rubber Tired Dozers	1	8.00	247	0.40
AWPFGrading	Tractors/Loaders/Backhoes	3	8.00	97	0.37

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

AWPFConstruction	Cranes	1	7.00	231	0.29
AWPFConstruction	Forklifts	3	8.00	89	0.20
AWPFConstruction	Generator Sets	1	8.00	84	0.74
AWPFConstruction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
AWPFConstruction	Welders	1	8.00	46	0.45
AWPFPaving	Cement and Mortar Mixers	2	6.00	9	0.56
AWPFPaving	Pavers	1	8.00	130	0.42
AWPFPaving	Paving Equipment	2	6.00	132	0.36
AWPFPaving	Rollers	2	6.00	80	0.38
AWPFPaving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
PumpStationsGrading	Graders	1	8.00	187	0.41
PumpStationsGrading	Rubber Tired Dozers	1	8.00	247	0.40
PumpStationsGrading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
PumpStationsConstruct	Cranes	1	4.00	231	0.29
PumpStationsConstruct	Forklifts	1	4.00	89	0.20
PumpStationsConstruct	Tractors/Loaders/Backhoes	2	4.00	97	0.37
PumpStationsConstruct	Welders	1	4.00	46	0.45
WellheadDemo	Concrete/Industrial Saws	2	6.00	81	0.73
WellheadDemo	Rubber Tired Dozers	2	6.00	247	0.40
WellheadGrading	Graders	2	6.00	187	0.41
WellheadGrading	Tractors/Loaders/Backhoes	4	6.00	97	0.37
WellheadConstruct	Cranes	2	4.00	231	0.29
WellheadConstruct	Forklifts	2	6.00	89	0.20
WellheadConstruct	Generator Sets	2	4.00	84	0.74
WellheadConstruct	Tractors/Loaders/Backhoes	4	6.00	97	0.37
WellheadConstruct	Welders	2	4.00	46	0.45
WellheadPaving	Pavers	2	6.00	130	0.42
WellheadPaving	Paving Equipment	2	6.00	132	0.36
WellheadPaving	Rollers	2	6.00	80	0.38

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

StorageResGrading	Excavators	1	8.00	158	0.38
StorageResGrading	Graders	1	8.00	187	0.41
StorageResGrading	Rubber Tired Dozers	1	8.00	247	0.40
StorageResGrading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
StorageResConstruct	Cranes	1	7.00	231	0.29
StorageResConstruct	Forklifts	3	8.00	89	0.20
StorageResConstruct	Generator Sets	1	8.00	84	0.74
StorageResConstruct	Tractors/Loaders/Backhoes	3	7.00	97	0.37
StorageResConstruct	Welders	1	8.00	46	0.45
StorageResPaving	Cement and Mortar Mixers	2	6.00	9	0.56
StorageResPaving	Pavers	1	8.00	130	0.42
StorageResPaving	Paving Equipment	2	6.00	132	0.36
StorageResPaving	Rollers	2	6.00	80	0.38
StorageResPaving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Wells	Generator Sets	4	4.00	84	0.74
Pipelines25	Plate Compactors	3	2.00	8	0.43
Pipelines25	Signal Boards	3	6.00	6	0.82
Pipelines26	Plate Compactors	3	2.00	8	0.43
Pipelines26	Signal Boards	3	6.00	6	0.82
Turnouts	Plate Compactors	3	2.00	8	0.43
Turnouts	Signal Boards	3	6.00	6	0.82
Pipelines27	Plate Compactors	3	2.00	8	0.43
Pipelines27	Signal Boards	3	6.00	6	0.82
WellheadPaving	Plate Compactors	2	6.00	8	0.43
AWPFPaving	Plate Compactors	1	6.00	8	0.43

Trips and VMT

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Wells	29	80.00	128.00	40.00	14.70	50.00	20.00	LD_Mix	HDT_Mix	HHDT
Pipelines25	40	84.00	30.00	660.00	40.00	40.00	40.00	LD_Mix	HDT_Mix	HHDT
Pipelines26	40	84.00	30.00	660.00	40.00	40.00	40.00	LD_Mix	HDT_Mix	HHDT
Pipelines27	40	84.00	30.00	660.00	40.00	40.00	40.00	LD_Mix	HDT_Mix	HHDT
Turnouts	40	28.00	28.00	2,000.00	40.00	40.00	40.00	LD_Mix	HDT_Mix	HHDT
AWPFSiteprep	7	40.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
AWPFGrading	6	40.00	30.00	0.00	14.70	40.00	20.00	LD_Mix	HDT_Mix	HHDT
AWPFConstruction	9	40.00	30.00	0.00	14.70	40.00	20.00	LD_Mix	HDT_Mix	HHDT
AWPFPaving	9	40.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
PumpStationsGrading	4	10.00	12.00	0.00	14.70	20.00	20.00	LD_Mix	HDT_Mix	HHDT
PumpStationsConstruct	5	10.00	0.00	0.00	40.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WellheadDemo	4	20.00	0.00	20.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WellheadGrading	6	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WellheadConstruct	12	20.00	20.00	0.00	20.00	40.00	20.00	LD_Mix	HDT_Mix	HHDT
WellheadPaving	8	20.00	0.00	0.00	20.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
StorageResGrading	6	24.00	0.00	600.00	20.00	6.90	50.00	LD_Mix	HDT_Mix	HHDT
StorageResConstruct	9	24.00	0.00	0.00	20.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
StorageResPaving	8	24.00	0.00	0.00	20.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Wells - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0913	0.0000	18.0913	9.9334	0.0000	9.9334			0.0000			0.0000
Off-Road	5.6721	54.4844	51.0006	0.1177		2.2175	2.2175		2.0619	2.0619		11,288.6368	11,288.6368	3.1992		11,368.6178
Total	**5.6721**	**54.4844**	**51.0006**	**0.1177**	**18.0913**	**2.2175**	**20.3088**	**9.9334**	**2.0619**	**11.9953**		**11,288.6368**	**11,288.6368**	**3.1992**		**11,368.6178**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.1000e-004	6.2700e-003	1.8100e-003	3.0000e-005	8.9000e-004	4.0000e-005	9.4000e-004	2.4000e-004	4.0000e-005	2.9000e-004		3.1414	3.1414	2.0000e-004	5.0000e-004	3.2954
Vendor	0.4567	25.1806	5.7311	0.1522	5.9171	0.1847	6.1018	1.7013	0.1767	1.8780		16,460.6813	16,460.6813	0.6323	2.3778	17,185.0576
Worker	0.2211	0.1369	2.4191	7.3300e-003	0.8942	4.5900e-003	0.8988	0.2372	4.2200e-003	0.2414		741.3134	741.3134	0.0157	0.0157	746.3807
Total	**0.6779**	**25.3237**	**8.1519**	**0.1595**	**6.8122**	**0.1894**	**7.0016**	**1.9387**	**0.1810**	**2.1197**		**17,205.1362**	**17,205.1362**	**0.6482**	**2.3939**	**17,934.7337**

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Wells - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1411	0.0000	8.1411	4.4700	0.0000	4.4700			0.0000			0.0000
Off-Road	1.9203	14.3205	57.2122	0.1177		0.4265	0.4265		0.4037	0.4037	0.0000	11,288.6368	11,288.6368	3.1992		11,368.6178
Total	**1.9203**	**14.3205**	**57.2122**	**0.1177**	**8.1411**	**0.4265**	**8.5676**	**4.4700**	**0.4037**	**4.8737**	**0.0000**	**11,288.6368**	**11,288.6368**	**3.1992**		**11,368.6178**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.1000e-004	6.2700e-003	1.8100e-003	3.0000e-005	7.2000e-004	4.0000e-005	7.7000e-004	2.0000e-004	4.0000e-005	2.5000e-004		3.1414	3.1414	2.0000e-004	5.0000e-004	3.2954
Vendor	0.4567	25.1806	5.7311	0.1522	4.8594	0.1847	5.0441	1.4417	0.1767	1.6184		16,460.6813	16,460.6813	0.6323	2.3778	17,185.0576
Worker	0.2211	0.1369	2.4191	7.3300e-003	0.6999	4.5900e-003	0.7045	0.1894	4.2200e-003	0.1937		741.3134	741.3134	0.0157	0.0157	746.3807
Total	**0.6779**	**25.3237**	**8.1519**	**0.1595**	**5.5600**	**0.1894**	**5.7493**	**1.6313**	**0.1810**	**1.8123**		**17,205.1362**	**17,205.1362**	**0.6482**	**2.3939**	**17,934.7337**

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Wells - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0913	0.0000	18.0913	9.9334	0.0000	9.9334			0.0000			0.0000
Off-Road	5.6721	54.4844	51.0006	0.1177		2.2175	2.2175		2.0619	2.0619		11,288.6368	11,288.6368	3.1992		11,368.6178
Total	**5.6721**	**54.4844**	**51.0006**	**0.1177**	**18.0913**	**2.2175**	**20.3088**	**9.9334**	**2.0619**	**11.9953**		**11,288.6368**	**11,288.6368**	**3.1992**		**11,368.6178**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.0000e-004	6.2000e-003	1.8300e-003	3.0000e-005	8.9000e-004	4.0000e-005	9.4000e-004	2.4000e-004	4.0000e-005	2.9000e-004		3.0823	3.0823	2.0000e-004	4.9000e-004	3.2336
Vendor	0.4419	24.9792	5.6484	0.1492	5.9171	0.1846	6.1017	1.7013	0.1766	1.8779		16,156.5852	16,156.5852	0.6337	2.3367	16,868.7738
Worker	0.2081	0.1243	2.2716	7.1100e-003	0.8942	4.3500e-003	0.8986	0.2372	4.0000e-003	0.2412		718.5630	718.5630	0.0142	0.0148	723.3295
Total	**0.6501**	**25.1097**	**7.9218**	**0.1564**	**6.8122**	**0.1890**	**7.0012**	**1.9387**	**0.1806**	**2.1193**		**16,878.2305**	**16,878.2305**	**0.6482**	**2.3520**	**17,595.3368**

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Wells - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1411	0.0000	8.1411	4.4700	0.0000	4.4700			0.0000			0.0000
Off-Road	1.9203	14.3205	57.2122	0.1177		0.4265	0.4265		0.4037	0.4037	0.0000	11,288.6368	11,288.6368	3.1992		11,368.6178
Total	**1.9203**	**14.3205**	**57.2122**	**0.1177**	**8.1411**	**0.4265**	**8.5676**	**4.4700**	**0.4037**	**4.8737**	**0.0000**	**11,288.6368**	**11,288.6368**	**3.1992**		**11,368.6178**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.0000e-004	6.2000e-003	1.8300e-003	3.0000e-005	7.2000e-004	4.0000e-005	7.7000e-004	2.0000e-004	4.0000e-005	2.5000e-004		3.0823	3.0823	2.0000e-004	4.9000e-004	3.2336
Vendor	0.4419	24.9792	5.6484	0.1492	4.8594	0.1846	5.0440	1.4417	0.1766	1.6183		16,156.5852	16,156.5852	0.6337	2.3367	16,868.7738
Worker	0.2081	0.1243	2.2716	7.1100e-003	0.6999	4.3500e-003	0.7042	0.1894	4.0000e-003	0.1935		718.5630	718.5630	0.0142	0.0148	723.3295
Total	**0.6501**	**25.1097**	**7.9218**	**0.1564**	**5.5600**	**0.1890**	**5.7490**	**1.6313**	**0.1806**	**1.8120**		**16,878.2305**	**16,878.2305**	**0.6482**	**2.3520**	**17,595.3368**

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Wells - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0913	0.0000	18.0913	9.9334	0.0000	9.9334			0.0000			0.0000
Off-Road	5.6721	54.4844	51.0006	0.1177		2.2175	2.2175		2.0619	2.0619		11,288.6368	11,288.6368	3.1992		11,368.6178
Total	**5.6721**	**54.4844**	**51.0006**	**0.1177**	**18.0913**	**2.2175**	**20.3088**	**9.9334**	**2.0619**	**11.9953**		**11,288.6368**	**11,288.6368**	**3.1992**		**11,368.6178**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.0000e-004	6.1300e-003	1.8400e-003	3.0000e-005	8.9000e-004	4.0000e-005	9.4000e-004	2.4000e-004	4.0000e-005	2.9000e-004		3.0207	3.0207	2.0000e-004	4.8000e-004	3.1691
Vendor	0.4289	24.7616	5.5782	0.1462	5.9171	0.1840	6.1011	1.7013	0.1760	1.8773		15,837.9596	15,837.9596	0.6328	2.2938	16,537.3320
Worker	0.1963	0.1137	2.1461	6.9100e-003	0.8942	4.0800e-003	0.8983	0.2372	3.7600e-003	0.2409		698.3635	698.3635	0.0130	0.0141	702.8778
Total	**0.6252**	**24.8815**	**7.7261**	**0.1531**	**6.8122**	**0.1882**	**7.0003**	**1.9387**	**0.1798**	**2.1185**		**16,539.3438**	**16,539.3438**	**0.6460**	**2.3083**	**17,243.3789**

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Wells - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1411	0.0000	8.1411	4.4700	0.0000	4.4700			0.0000			0.0000
Off-Road	1.9203	14.3205	57.2122	0.1177		0.4265	0.4265		0.4037	0.4037	0.0000	11,288.6368	11,288.6368	3.1992		11,368.6178
Total	**1.9203**	**14.3205**	**57.2122**	**0.1177**	**8.1411**	**0.4265**	**8.5676**	**4.4700**	**0.4037**	**4.8737**	**0.0000**	**11,288.6368**	**11,288.6368**	**3.1992**		**11,368.6178**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.0000e-004	6.1300e-003	1.8400e-003	3.0000e-005	7.2000e-004	4.0000e-005	7.7000e-004	2.0000e-004	4.0000e-005	2.5000e-004		3.0207	3.0207	2.0000e-004	4.8000e-004	3.1691
Vendor	0.4289	24.7616	5.5782	0.1462	4.8594	0.1840	5.0434	1.4417	0.1760	1.6177		15,837.9596	15,837.9596	0.6328	2.2938	16,537.3320
Worker	0.1963	0.1137	2.1461	6.9100e-003	0.6999	4.0800e-003	0.7039	0.1894	3.7600e-003	0.1932		698.3635	698.3635	0.0130	0.0141	702.8778
Total	**0.6252**	**24.8815**	**7.7261**	**0.1531**	**5.5600**	**0.1882**	**5.7481**	**1.6313**	**0.1798**	**1.8112**		**16,539.3438**	**16,539.3438**	**0.6460**	**2.3083**	**17,243.3789**

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Pipelines25 - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					27.2199	0.0000	27.2199	14.9090	0.0000	14.9090			0.0000			0.0000
Off-Road	7.2079	65.3752	59.4606	0.1215		2.8404	2.8404		2.6591	2.6591		11,646.5321	11,646.5321	2.8657		11,718.1751
Total	**7.2079**	**65.3752**	**59.4606**	**0.1215**	**27.2199**	**2.8404**	**30.0603**	**14.9090**	**2.6591**	**17.5682**		**11,646.5321**	**11,646.5321**	**2.8657**		**11,718.1751**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0468	3.4212	0.8471	0.0163	0.5242	0.0260	0.5502	0.1437	0.0248	0.1685		1,805.6307	1,805.6307	0.1167	0.2874	1,894.2020
Vendor	0.0893	4.7870	1.1263	0.0286	1.1096	0.0347	1.1443	0.3191	0.0332	0.3522		3,095.3118	3,095.3118	0.1189	0.4473	3,231.5656
Worker	0.4756	0.3369	6.3336	0.0207	2.5535	0.0125	2.5660	0.6770	0.0115	0.6885		2,092.0822	2,092.0822	0.0315	0.0374	2,104.0229
Total	**0.6117**	**8.5451**	**8.3071**	**0.0656**	**4.1873**	**0.0731**	**4.2604**	**1.1397**	**0.0695**	**1.2092**		**6,993.0247**	**6,993.0247**	**0.2671**	**0.7721**	**7,229.7906**

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Pipelines25 - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					12.2490	0.0000	12.2490	6.7091	0.0000	6.7091			0.0000			0.0000
Off-Road	1.7587	11.0896	67.4827	0.1215		0.3369	0.3369		0.3263	0.3263	0.0000	11,646.5321	11,646.5321	2.8657		11,718.1751
Total	**1.7587**	**11.0896**	**67.4827**	**0.1215**	**12.2490**	**0.3369**	**12.5858**	**6.7091**	**0.3263**	**7.0354**	**0.0000**	**11,646.5321**	**11,646.5321**	**2.8657**		**11,718.1751**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0468	3.4212	0.8471	0.0163	0.4251	0.0260	0.4510	0.1193	0.0248	0.1441		1,805.6307	1,805.6307	0.1167	0.2874	1,894.2020
Vendor	0.0893	4.7870	1.1263	0.0286	0.9113	0.0347	0.9460	0.2704	0.0332	0.3035		3,095.3118	3,095.3118	0.1189	0.4473	3,231.5656
Worker	0.4756	0.3369	6.3336	0.0207	1.9982	0.0125	2.0107	0.5407	0.0115	0.5522		2,092.0822	2,092.0822	0.0315	0.0374	2,104.0229
Total	**0.6117**	**8.5451**	**8.3071**	**0.0656**	**3.3345**	**0.0731**	**3.4077**	**0.9304**	**0.0695**	**0.9999**		**6,993.0247**	**6,993.0247**	**0.2671**	**0.7721**	**7,229.7906**

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Pipelines26 - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					27.2199	0.0000	27.2199	14.9090	0.0000	14.9090			0.0000			0.0000
Off-Road	7.2079	65.3752	59.4606	0.1215		2.8404	2.8404		2.6591	2.6591		11,646.5321	11,646.5321	2.8657		11,718.1751
Total	**7.2079**	**65.3752**	**59.4606**	**0.1215**	**27.2199**	**2.8404**	**30.0603**	**14.9090**	**2.6591**	**17.5682**		**11,646.5321**	**11,646.5321**	**2.8657**		**11,718.1751**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0461	3.3832	0.8582	0.0160	0.5242	0.0259	0.5501	0.1437	0.0247	0.1684		1,771.6507	1,771.6507	0.1172	0.2821	1,858.6503
Vendor	0.0865	4.7490	1.1103	0.0281	1.1096	0.0347	1.1443	0.3191	0.0331	0.3522		3,038.1251	3,038.1251	0.1192	0.4395	3,172.0858
Worker	0.4492	0.3045	5.9349	0.0201	2.5535	0.0118	2.5653	0.6770	0.0109	0.6879		2,027.8893	2,027.8893	0.0284	0.0352	2,039.0919
Total	**0.5818**	**8.4367**	**7.9034**	**0.0641**	**4.1873**	**0.0723**	**4.2596**	**1.1397**	**0.0688**	**1.2085**		**6,837.6650**	**6,837.6650**	**0.2647**	**0.7569**	**7,069.8279**

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Pipelines26 - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					12.2490	0.0000	12.2490	6.7091	0.0000	6.7091			0.0000			0.0000
Off-Road	1.7587	11.0896	67.4827	0.1215		0.3369	0.3369		0.3263	0.3263	0.0000	11,646.5321	11,646.5321	2.8657		11,718.1751
Total	**1.7587**	**11.0896**	**67.4827**	**0.1215**	**12.2490**	**0.3369**	**12.5858**	**6.7091**	**0.3263**	**7.0354**	**0.0000**	**11,646.5321**	**11,646.5321**	**2.8657**		**11,718.1751**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0461	3.3832	0.8582	0.0160	0.4251	0.0259	0.4509	0.1193	0.0247	0.1440		1,771.6507	1,771.6507	0.1172	0.2821	1,858.6503
Vendor	0.0865	4.7490	1.1103	0.0281	0.9113	0.0347	0.9459	0.2704	0.0331	0.3035		3,038.1251	3,038.1251	0.1192	0.4395	3,172.0858
Worker	0.4492	0.3045	5.9349	0.0201	1.9982	0.0118	2.0100	0.5407	0.0109	0.5516		2,027.8893	2,027.8893	0.0284	0.0352	2,039.0919
Total	**0.5818**	**8.4367**	**7.9034**	**0.0641**	**3.3345**	**0.0723**	**3.4069**	**0.9304**	**0.0688**	**0.9992**		**6,837.6650**	**6,837.6650**	**0.2647**	**0.7569**	**7,069.8279**

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Turnouts - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					27.1197	0.0000	27.1197	14.8982	0.0000	14.8982			0.0000			0.0000
Off-Road	7.2079	65.3752	59.4606	0.1215		2.8404	2.8404		2.6591	2.6591		11,646.5321	11,646.5321	2.8657		11,718.1751
Total	**7.2079**	**65.3752**	**59.4606**	**0.1215**	**27.1197**	**2.8404**	**29.9601**	**14.8982**	**2.6591**	**17.5573**		**11,646.5321**	**11,646.5321**	**2.8657**		**11,718.1751**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0118	0.8642	0.2192	4.0800e-003	0.1339	6.6000e-003	0.1405	0.0367	6.3200e-003	0.0430		452.5289	452.5289	0.0299	0.0721	474.7510
Vendor	0.0807	4.4324	1.0363	0.0262	1.0356	0.0323	1.0680	0.2978	0.0309	0.3287		2,835.5834	2,835.5834	0.1112	0.4102	2,960.6134
Worker	0.1497	0.1015	1.9783	6.6900e-003	0.8512	3.9500e-003	0.8551	0.2257	3.6300e-003	0.2293		675.9631	675.9631	9.4600e-003	0.0117	679.6973
Total	**0.2423**	**5.3981**	**3.2338**	**0.0370**	**2.0207**	**0.0429**	**2.0636**	**0.5601**	**0.0409**	**0.6010**		**3,964.0754**	**3,964.0754**	**0.1506**	**0.4940**	**4,115.0617**

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Turnouts - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					12.2039	0.0000	12.2039	6.7042	0.0000	6.7042			0.0000			0.0000
Off-Road	1.7587	11.0896	67.4827	0.1215		0.3369	0.3369		0.3263	0.3263	0.0000	11,646.5321	11,646.5321	2.8657		11,718.1751
Total	**1.7587**	**11.0896**	**67.4827**	**0.1215**	**12.2039**	**0.3369**	**12.5408**	**6.7042**	**0.3263**	**7.0305**	**0.0000**	**11,646.5321**	**11,646.5321**	**2.8657**		**11,718.1751**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0118	0.8642	0.2192	4.0800e-003	0.1086	6.6000e-003	0.1152	0.0305	6.3200e-003	0.0368		452.5289	452.5289	0.0299	0.0721	474.7510
Vendor	0.0807	4.4324	1.0363	0.0262	0.8505	0.0323	0.8829	0.2524	0.0309	0.2833		2,835.5834	2,835.5834	0.1112	0.4102	2,960.6134
Worker	0.1497	0.1015	1.9783	6.6900e-003	0.6661	3.9500e-003	0.6700	0.1802	3.6300e-003	0.1839		675.9631	675.9631	9.4600e-003	0.0117	679.6973
Total	**0.2423**	**5.3981**	**3.2338**	**0.0370**	**1.6252**	**0.0429**	**1.6681**	**0.4631**	**0.0409**	**0.5039**		**3,964.0754**	**3,964.0754**	**0.1506**	**0.4940**	**4,115.0617**

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Turnouts - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					27.1197	0.0000	27.1197	14.8982	0.0000	14.8982			0.0000			0.0000
Off-Road	7.2079	65.3752	59.4606	0.1215		2.8404	2.8404		2.6591	2.6591		11,646.5321	11,646.5321	2.8657		11,718.1751
Total	**7.2079**	**65.3752**	**59.4606**	**0.1215**	**27.1197**	**2.8404**	**29.9601**	**14.8982**	**2.6591**	**17.5573**		**11,646.5321**	**11,646.5321**	**2.8657**		**11,718.1751**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0116	0.8542	0.2214	3.9900e-003	0.1339	6.5700e-003	0.1405	0.0367	6.2800e-003	0.0430		443.4740	443.4740	0.0299	0.0706	465.2722
Vendor	0.0784	4.3942	1.0236	0.0257	1.0356	0.0322	1.0679	0.2978	0.0308	0.3286		2,779.6692	2,779.6692	0.1111	0.4027	2,902.4491
Worker	0.1417	0.0924	1.8655	6.5000e-003	0.8512	3.7000e-003	0.8549	0.2257	3.4100e-003	0.2291		656.9661	656.9661	8.5700e-003	0.0111	660.4942
Total	**0.2317**	**5.3408**	**3.1105**	**0.0362**	**2.0207**	**0.0425**	**2.0632**	**0.5601**	**0.0405**	**0.6007**		**3,880.1093**	**3,880.1093**	**0.1496**	**0.4845**	**4,028.2155**

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Turnouts - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					12.2039	0.0000	12.2039	6.7042	0.0000	6.7042			0.0000			0.0000
Off-Road	1.7587	11.0896	67.4827	0.1215		0.3369	0.3369		0.3263	0.3263	0.0000	11,646.5321	11,646.5321	2.8657		11,718.1751
Total	**1.7587**	**11.0896**	**67.4827**	**0.1215**	**12.2039**	**0.3369**	**12.5408**	**6.7042**	**0.3263**	**7.0305**	**0.0000**	**11,646.5321**	**11,646.5321**	**2.8657**		**11,718.1751**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0116	0.8542	0.2214	3.9900e-003	0.1086	6.5700e-003	0.1151	0.0305	6.2800e-003	0.0368		443.4740	443.4740	0.0299	0.0706	465.2722
Vendor	0.0784	4.3942	1.0236	0.0257	0.8505	0.0322	0.8828	0.2524	0.0308	0.2832		2,779.6692	2,779.6692	0.1111	0.4027	2,902.4491
Worker	0.1417	0.0924	1.8655	6.5000e-003	0.6661	3.7000e-003	0.6698	0.1802	3.4100e-003	0.1836		656.9661	656.9661	8.5700e-003	0.0111	660.4942
Total	**0.2317**	**5.3408**	**3.1105**	**0.0362**	**1.6252**	**0.0425**	**1.6677**	**0.4631**	**0.0405**	**0.5036**		**3,880.1093**	**3,880.1093**	**0.1496**	**0.4845**	**4,028.2155**

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 WellheadDemo - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.4148	13.3507	9.9638	0.0222		0.5744	0.5744		0.5396	0.5396		2,129.4387	2,129.4387	0.4403		2,140.4460
Total	**1.4148**	**13.3507**	**9.9638**	**0.0222**	**0.0000**	**0.5744**	**0.5744**	**0.0000**	**0.5396**	**0.5396**		**2,129.4387**	**2,129.4387**	**0.4403**		**2,140.4460**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.0300e-003	0.1201	0.0360	5.3000e-004	0.0175	8.6000e-004	0.0184	4.7900e-003	8.2000e-004	5.6200e-003		59.1296	59.1296	3.9500e-003	9.4200e-003	62.0345
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0491	0.0284	0.5365	1.7300e-003	0.2236	1.0200e-003	0.2246	0.0593	9.4000e-004	0.0602		174.5909	174.5909	3.2500e-003	3.5100e-003	175.7195
Total	**0.0511**	**0.1485**	**0.5726**	**2.2600e-003**	**0.2410**	**1.8800e-003**	**0.2429**	**0.0641**	**1.7600e-003**	**0.0659**		**233.7204**	**233.7204**	**7.2000e-003**	**0.0129**	**237.7540**

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 WellheadDemo - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2996	1.6423	11.4631	0.0222		0.0583	0.0583		0.0562	0.0562	0.0000	2,129.4387	2,129.4387	0.4403		2,140.4460
Total	**0.2996**	**1.6423**	**11.4631**	**0.0222**	**0.0000**	**0.0583**	**0.0583**	**0.0000**	**0.0562**	**0.0562**	**0.0000**	**2,129.4387**	**2,129.4387**	**0.4403**		**2,140.4460**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.0300e-003	0.1201	0.0360	5.3000e-004	0.0142	8.6000e-004	0.0150	3.9800e-003	8.2000e-004	4.8000e-003		59.1296	59.1296	3.9500e-003	9.4200e-003	62.0345
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0491	0.0284	0.5365	1.7300e-003	0.1750	1.0200e-003	0.1760	0.0474	9.4000e-004	0.0483		174.5909	174.5909	3.2500e-003	3.5100e-003	175.7195
Total	**0.0511**	**0.1485**	**0.5726**	**2.2600e-003**	**0.1892**	**1.8800e-003**	**0.1910**	**0.0513**	**1.7600e-003**	**0.0531**		**233.7204**	**233.7204**	**7.2000e-003**	**0.0129**	**237.7540**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 AWPFSiteprep - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
Total	**2.4727**	**25.2339**	**17.9118**	**0.0381**	**18.0663**	**1.0868**	**19.1531**	**9.9307**	**0.9999**	**10.9305**		**3,689.1037**	**3,689.1037**	**1.1931**		**3,718.9320**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0981	0.0569	1.0731	3.4500e-003	0.4471	2.0400e-003	0.4492	0.1186	1.8800e-003	0.1205		349.1818	349.1818	6.5000e-003	7.0300e-003	351.4389
Total	**0.0981**	**0.0569**	**1.0731**	**3.4500e-003**	**0.4471**	**2.0400e-003**	**0.4492**	**0.1186**	**1.8800e-003**	**0.1205**		**349.1818**	**349.1818**	**6.5000e-003**	**7.0300e-003**	**351.4389**

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 AWPFSiteprep - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	0.5860	3.4105	20.6916	0.0381		0.1236	0.1236		0.1183	0.1183	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
Total	**0.5860**	**3.4105**	**20.6916**	**0.0381**	**8.1298**	**0.1236**	**8.2534**	**4.4688**	**0.1183**	**4.5872**	**0.0000**	**3,689.1037**	**3,689.1037**	**1.1931**		**3,718.9320**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0981	0.0569	1.0731	3.4500e-003	0.3499	2.0400e-003	0.3520	0.0947	1.8800e-003	0.0966		349.1818	349.1818	6.5000e-003	7.0300e-003	351.4389
Total	**0.0981**	**0.0569**	**1.0731**	**3.4500e-003**	**0.3499**	**2.0400e-003**	**0.3520**	**0.0947**	**1.8800e-003**	**0.0966**		**349.1818**	**349.1818**	**6.5000e-003**	**7.0300e-003**	**351.4389**

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Pipelines27 - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					27.2199	0.0000	27.2199	14.9090	0.0000	14.9090			0.0000			0.0000
Off-Road	7.2079	65.3752	59.4606	0.1215		2.8404	2.8404		2.6591	2.6591		11,646.5321	11,646.5321	2.8657		11,718.1751
Total	**7.2079**	**65.3752**	**59.4606**	**0.1215**	**27.2199**	**2.8404**	**30.0603**	**14.9090**	**2.6591**	**17.5682**		**11,646.5321**	**11,646.5321**	**2.8657**		**11,718.1751**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0455	3.3443	0.8668	0.0156	0.5242	0.0257	0.5499	0.1437	0.0246	0.1682		1,736.2007	1,736.2007	0.1172	0.2765	1,821.5408
Vendor	0.0840	4.7080	1.0968	0.0275	1.1096	0.0345	1.1442	0.3191	0.0330	0.3521		2,978.2170	2,978.2170	0.1190	0.4315	3,109.7669
Worker	0.4249	0.2772	5.5964	0.0195	2.5535	0.0111	2.5646	0.6770	0.0102	0.6872		1,970.8983	1,970.8983	0.0257	0.0334	1,981.4825
Total	**0.5545**	**8.3295**	**7.5600**	**0.0626**	**4.1873**	**0.0714**	**4.2587**	**1.1397**	**0.0679**	**1.2076**		**6,685.3161**	**6,685.3161**	**0.2619**	**0.7414**	**6,912.7901**

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Pipelines27 - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					12.2490	0.0000	12.2490	6.7091	0.0000	6.7091			0.0000			0.0000
Off-Road	1.7587	11.0896	67.4827	0.1215		0.3369	0.3369		0.3263	0.3263	0.0000	11,646.5321	11,646.5321	2.8657		11,718.1751
Total	**1.7587**	**11.0896**	**67.4827**	**0.1215**	**12.2490**	**0.3369**	**12.5858**	**6.7091**	**0.3263**	**7.0354**	**0.0000**	**11,646.5321**	**11,646.5321**	**2.8657**		**11,718.1751**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0455	3.3443	0.8668	0.0156	0.4251	0.0257	0.4508	0.1193	0.0246	0.1439		1,736.2007	1,736.2007	0.1172	0.2765	1,821.5408
Vendor	0.0840	4.7080	1.0968	0.0275	0.9113	0.0345	0.9458	0.2704	0.0330	0.3034		2,978.2170	2,978.2170	0.1190	0.4315	3,109.7669
Worker	0.4249	0.2772	5.5964	0.0195	1.9982	0.0111	2.0093	0.5407	0.0102	0.5509		1,970.8983	1,970.8983	0.0257	0.0334	1,981.4825
Total	**0.5545**	**8.3295**	**7.5600**	**0.0626**	**3.3345**	**0.0714**	**3.4059**	**0.9304**	**0.0679**	**0.9983**		**6,685.3161**	**6,685.3161**	**0.2619**	**0.7414**	**6,912.7901**

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 PumpStationsGrading - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0302	0.0000	6.0302	3.3111	0.0000	3.3111			0.0000			0.0000
Off-Road	1.1904	12.4243	8.4937	0.0206		0.4961	0.4961		0.4564	0.4564		1,995.7975	1,995.7975	0.6455		2,011.9345
Total	**1.1904**	**12.4243**	**8.4937**	**0.0206**	**6.0302**	**0.4961**	**6.5263**	**3.3111**	**0.4564**	**3.7675**		**1,995.7975**	**1,995.7975**	**0.6455**		**2,011.9345**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0204	1.0068	0.2702	5.5800e-003	0.2221	6.9400e-003	0.2290	0.0639	6.6400e-003	0.0705		604.2430	604.2430	0.0241	0.0877	630.9705
Worker	0.0245	0.0142	0.2683	8.6000e-004	0.1118	5.1000e-004	0.1123	0.0296	4.7000e-004	0.0301		87.2954	87.2954	1.6300e-003	1.7600e-003	87.8597
Total	**0.0450**	**1.0210**	**0.5385**	**6.4400e-003**	**0.3339**	**7.4500e-003**	**0.3413**	**0.0935**	**7.1100e-003**	**0.1006**		**691.5384**	**691.5384**	**0.0258**	**0.0894**	**718.8302**

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 PumpStationsGrading - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7136	0.0000	2.7136	1.4900	0.0000	1.4900			0.0000			0.0000
Off-Road	0.2947	1.5862	10.8451	0.0206		0.0553	0.0553		0.0535	0.0535	0.0000	1,995.7975	1,995.7975	0.6455		2,011.9345
Total	**0.2947**	**1.5862**	**10.8451**	**0.0206**	**2.7136**	**0.0553**	**2.7689**	**1.4900**	**0.0535**	**1.5435**	**0.0000**	**1,995.7975**	**1,995.7975**	**0.6455**		**2,011.9345**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0204	1.0068	0.2702	5.5800e-003	0.1824	6.9400e-003	0.1894	0.0541	6.6400e-003	0.0608		604.2430	604.2430	0.0241	0.0877	630.9705
Worker	0.0245	0.0142	0.2683	8.6000e-004	0.0875	5.1000e-004	0.0880	0.0237	4.7000e-004	0.0242		87.2954	87.2954	1.6300e-003	1.7600e-003	87.8597
Total	**0.0450**	**1.0210**	**0.5385**	**6.4400e-003**	**0.2699**	**7.4500e-003**	**0.2774**	**0.0778**	**7.1100e-003**	**0.0849**		**691.5384**	**691.5384**	**0.0258**	**0.0894**	**718.8302**

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 PumpStationsConstruct - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4419	3.9994	4.4906	8.0500e-003		0.1638	0.1638		0.1523	0.1523		759.2233	759.2233	0.2219		764.7696
Total	**0.4419**	**3.9994**	**4.4906**	**8.0500e-003**		**0.1638**	**0.1638**		**0.1523**	**0.1523**		**759.2233**	**759.2233**	**0.2219**		**764.7696**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0506	0.0330	0.6662	2.3200e-003	0.3040	1.3200e-003	0.3053	0.0806	1.2200e-003	0.0818		234.6308	234.6308	3.0600e-003	3.9700e-003	235.8908
Total	**0.0506**	**0.0330**	**0.6662**	**2.3200e-003**	**0.3040**	**1.3200e-003**	**0.3053**	**0.0806**	**1.2200e-003**	**0.0818**		**234.6308**	**234.6308**	**3.0600e-003**	**3.9700e-003**	**235.8908**

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 PumpStationsConstruct - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1164	1.0027	4.9426	8.0500e-003		0.0186	0.0186		0.0181	0.0181	0.0000	759.2233	759.2233	0.2219		764.7696
Total	**0.1164**	**1.0027**	**4.9426**	**8.0500e-003**		**0.0186**	**0.0186**		**0.0181**	**0.0181**	**0.0000**	**759.2233**	**759.2233**	**0.2219**		**764.7696**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0506	0.0330	0.6662	2.3200e-003	0.2379	1.3200e-003	0.2392	0.0644	1.2200e-003	0.0656		234.6308	234.6308	3.0600e-003	3.9700e-003	235.8908
Total	**0.0506**	**0.0330**	**0.6662**	**2.3200e-003**	**0.2379**	**1.3200e-003**	**0.2392**	**0.0644**	**1.2200e-003**	**0.0656**		**234.6308**	**234.6308**	**3.0600e-003**	**3.9700e-003**	**235.8908**

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.11 AWPFGrading - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.6849	0.0000	6.6849	3.3818	0.0000	3.3818			0.0000			0.0000
Off-Road	1.5227	15.3148	14.5402	0.0297		0.6236	0.6236		0.5737	0.5737		2,873.7052	2,873.7052	0.9294		2,896.9405
Total	**1.5227**	**15.3148**	**14.5402**	**0.0297**	**6.6849**	**0.6236**	**7.3085**	**3.3818**	**0.5737**	**3.9555**		**2,873.7052**	**2,873.7052**	**0.9294**		**2,896.9405**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0840	4.7080	1.0968	0.0275	1.1096	0.0345	1.1442	0.3191	0.0330	0.3521		2,978.2170	2,978.2170	0.1190	0.4315	3,109.7669
Worker	0.0981	0.0569	1.0731	3.4500e-003	0.4471	2.0400e-003	0.4492	0.1186	1.8800e-003	0.1205		349.1818	349.1818	6.5000e-003	7.0300e-003	351.4389
Total	**0.1822**	**4.7649**	**2.1698**	**0.0309**	**1.5567**	**0.0366**	**1.5933**	**0.4376**	**0.0349**	**0.4725**		**3,327.3988**	**3,327.3988**	**0.1255**	**0.4385**	**3,461.2058**

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.11 AWPFGrading - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.0082	0.0000	3.0082	1.5218	0.0000	1.5218			0.0000			0.0000
Off-Road	0.4210	2.2308	17.6296	0.0297		0.0779	0.0779		0.0754	0.0754	0.0000	2,873.7052	2,873.7052	0.9294		2,896.9405
Total	**0.4210**	**2.2308**	**17.6296**	**0.0297**	**3.0082**	**0.0779**	**3.0861**	**1.5218**	**0.0754**	**1.5972**	**0.0000**	**2,873.7052**	**2,873.7052**	**0.9294**		**2,896.9405**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0840	4.7080	1.0968	0.0275	0.9113	0.0345	0.9458	0.2704	0.0330	0.3034		2,978.2170	2,978.2170	0.1190	0.4315	3,109.7669
Worker	0.0981	0.0569	1.0731	3.4500e-003	0.3499	2.0400e-003	0.3520	0.0947	1.8800e-003	0.0966		349.1818	349.1818	6.5000e-003	7.0300e-003	351.4389
Total	**0.1822**	**4.7649**	**2.1698**	**0.0309**	**1.2612**	**0.0366**	**1.2978**	**0.3651**	**0.0349**	**0.4000**		**3,327.3988**	**3,327.3988**	**0.1255**	**0.4385**	**3,461.2058**

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.12 AWPFConstruction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0840	4.7080	1.0968	0.0275	1.1096	0.0345	1.1442	0.3191	0.0330	0.3521		2,978.2170	2,978.2170	0.1190	0.4315	3,109.7669
Worker	0.0981	0.0569	1.0731	3.4500e-003	0.4471	2.0400e-003	0.4492	0.1186	1.8800e-003	0.1205		349.1818	349.1818	6.5000e-003	7.0300e-003	351.4389
Total	**0.1822**	**4.7649**	**2.1698**	**0.0309**	**1.5567**	**0.0366**	**1.5933**	**0.4376**	**0.0349**	**0.4725**		**3,327.3988**	**3,327.3988**	**0.1255**	**0.4385**	**3,461.2058**

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.12 AWPFConstruction - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3633	2.6497	17.3850	0.0270		0.0583	0.0583		0.0572	0.0572	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**0.3633**	**2.6497**	**17.3850**	**0.0270**		**0.0583**	**0.0583**		**0.0572**	**0.0572**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0840	4.7080	1.0968	0.0275	0.9113	0.0345	0.9458	0.2704	0.0330	0.3034		2,978.2170	2,978.2170	0.1190	0.4315	3,109.7669
Worker	0.0981	0.0569	1.0731	3.4500e-003	0.3499	2.0400e-003	0.3520	0.0947	1.8800e-003	0.0966		349.1818	349.1818	6.5000e-003	7.0300e-003	351.4389
Total	**0.1822**	**4.7649**	**2.1698**	**0.0309**	**1.2612**	**0.0366**	**1.2978**	**0.3651**	**0.0349**	**0.4000**		**3,327.3988**	**3,327.3988**	**0.1255**	**0.4385**	**3,461.2058**

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.13 WellheadGrading - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3182	0.0000	0.3182	0.0344	0.0000	0.0344			0.0000			0.0000
Off-Road	0.8630	9.1903	9.0802	0.0193		0.3292	0.3292		0.3028	0.3028		1,866.5270	1,866.5270	0.6037		1,881.6188
Total	**0.8630**	**9.1903**	**9.0802**	**0.0193**	**0.3182**	**0.3292**	**0.6473**	**0.0344**	**0.3028**	**0.3372**		**1,866.5270**	**1,866.5270**	**0.6037**		**1,881.6188**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0491	0.0284	0.5365	1.7300e-003	0.2236	1.0200e-003	0.2246	0.0593	9.4000e-004	0.0602		174.5909	174.5909	3.2500e-003	3.5100e-003	175.7195
Total	**0.0491**	**0.0284**	**0.5365**	**1.7300e-003**	**0.2236**	**1.0200e-003**	**0.2246**	**0.0593**	**9.4000e-004**	**0.0602**		**174.5909**	**174.5909**	**3.2500e-003**	**3.5100e-003**	**175.7195**

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.13 WellheadGrading - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1432	0.0000	0.1432	0.0155	0.0000	0.0155			0.0000			0.0000
Off-Road	0.2526	1.2318	11.4683	0.0193		0.0402	0.0402		0.0395	0.0395	0.0000	1,866.5270	1,866.5270	0.6037		1,881.6188
Total	**0.2526**	**1.2318**	**11.4683**	**0.0193**	**0.1432**	**0.0402**	**0.1834**	**0.0155**	**0.0395**	**0.0549**	**0.0000**	**1,866.5270**	**1,866.5270**	**0.6037**		**1,881.6188**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0491	0.0284	0.5365	1.7300e-003	0.1750	1.0200e-003	0.1760	0.0474	9.4000e-004	0.0483		174.5909	174.5909	3.2500e-003	3.5100e-003	175.7195
Total	**0.0491**	**0.0284**	**0.5365**	**1.7300e-003**	**0.1750**	**1.0200e-003**	**0.1760**	**0.0474**	**9.4000e-004**	**0.0483**		**174.5909**	**174.5909**	**3.2500e-003**	**3.5100e-003**	**175.7195**

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.14 WellheadConstruct - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3257	12.1385	15.4372	0.0266		0.4990	0.4990		0.4699	0.4699		2,517.5523	2,517.5523	0.5884		2,532.2613
Total	**1.3257**	**12.1385**	**15.4372**	**0.0266**		**0.4990**	**0.4990**		**0.4699**	**0.4699**		**2,517.5523**	**2,517.5523**	**0.5884**		**2,532.2613**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0560	3.1387	0.7312	0.0183	0.7397	0.0230	0.7628	0.2127	0.0220	0.2347		1,985.4780	1,985.4780	0.0793	0.2876	2,073.1779
Worker	0.0600	0.0363	0.7033	2.3400e-003	0.3041	1.3600e-003	0.3054	0.0806	1.2500e-003	0.0819		236.3203	236.3203	3.8500e-003	4.4400e-003	237.7404
Total	**0.1160**	**3.1750**	**1.4344**	**0.0207**	**1.0438**	**0.0244**	**1.0682**	**0.2933**	**0.0233**	**0.3166**		**2,221.7983**	**2,221.7983**	**0.0832**	**0.2921**	**2,310.9183**

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.14 WellheadConstruct - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3618	2.6716	16.8379	0.0266		0.0595	0.0595		0.0582	0.0582	0.0000	2,517.5523	2,517.5523	0.5884		2,532.2613
Total	**0.3618**	**2.6716**	**16.8379**	**0.0266**		**0.0595**	**0.0595**		**0.0582**	**0.0582**	**0.0000**	**2,517.5523**	**2,517.5523**	**0.5884**		**2,532.2613**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0560	3.1387	0.7312	0.0183	0.6075	0.0230	0.6306	0.1803	0.0220	0.2023		1,985.4780	1,985.4780	0.0793	0.2876	2,073.1779
Worker	0.0600	0.0363	0.7033	2.3400e-003	0.2380	1.3600e-003	0.2393	0.0644	1.2500e-003	0.0657		236.3203	236.3203	3.8500e-003	4.4400e-003	237.7404
Total	**0.1160**	**3.1750**	**1.4344**	**0.0207**	**0.8455**	**0.0244**	**0.8699**	**0.2447**	**0.0233**	**0.2679**		**2,221.7983**	**2,221.7983**	**0.0832**	**0.2921**	**2,310.9183**

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.15 StorageResGrading - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.4463	0.0000	6.4463	3.3560	0.0000	3.3560			0.0000			0.0000
Off-Road	1.5227	15.3148	14.5402	0.0297		0.6236	0.6236		0.5737	0.5737		2,873.7052	2,873.7052	0.9294		2,896.9405
Total	**1.5227**	**15.3148**	**14.5402**	**0.0297**	**6.4463**	**0.6236**	**7.0699**	**3.3560**	**0.5737**	**3.9297**		**2,873.7052**	**2,873.7052**	**0.9294**		**2,896.9405**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2122	16.4629	4.1200	0.0778	2.6208	0.1284	2.7492	0.7181	0.1228	0.8409		8,643.3175	8,643.3175	0.5847	1.3768	9,068.2093
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0720	0.0436	0.8439	2.8100e-003	0.3649	1.6300e-003	0.3665	0.0968	1.5000e-003	0.0983		283.5844	283.5844	4.6200e-003	5.3300e-003	285.2884
Total	**0.2841**	**16.5065**	**4.9640**	**0.0806**	**2.9857**	**0.1300**	**3.1157**	**0.8149**	**0.1243**	**0.9392**		**8,926.9018**	**8,926.9018**	**0.5893**	**1.3821**	**9,353.4978**

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.15 StorageResGrading - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.9008	0.0000	2.9008	1.5102	0.0000	1.5102			0.0000			0.0000
Off-Road	0.4210	2.2308	17.6296	0.0297		0.0779	0.0779		0.0754	0.0754	0.0000	2,873.7052	2,873.7052	0.9294		2,896.9405
Total	**0.4210**	**2.2308**	**17.6296**	**0.0297**	**2.9008**	**0.0779**	**2.9788**	**1.5102**	**0.0754**	**1.5856**	**0.0000**	**2,873.7052**	**2,873.7052**	**0.9294**		**2,896.9405**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2122	16.4629	4.1200	0.0778	2.1250	0.1284	2.2534	0.5964	0.1228	0.7193		8,643.3175	8,643.3175	0.5847	1.3768	9,068.2093
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0720	0.0436	0.8439	2.8100e-003	0.2856	1.6300e-003	0.2872	0.0773	1.5000e-003	0.0788		283.5844	283.5844	4.6200e-003	5.3300e-003	285.2884
Total	**0.2841**	**16.5065**	**4.9640**	**0.0806**	**2.4106**	**0.1300**	**2.5406**	**0.6737**	**0.1243**	**0.7980**		**8,926.9018**	**8,926.9018**	**0.5893**	**1.3821**	**9,353.4978**

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.16 StorageResConstruct - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0720	0.0436	0.8439	2.8100e-003	0.3649	1.6300e-003	0.3665	0.0968	1.5000e-003	0.0983		283.5844	283.5844	4.6200e-003	5.3300e-003	285.2884
Total	**0.0720**	**0.0436**	**0.8439**	**2.8100e-003**	**0.3649**	**1.6300e-003**	**0.3665**	**0.0968**	**1.5000e-003**	**0.0983**		**283.5844**	**283.5844**	**4.6200e-003**	**5.3300e-003**	**285.2884**

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.16 StorageResConstruct - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3633	2.6497	17.3850	0.0270		0.0583	0.0583		0.0572	0.0572	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**0.3633**	**2.6497**	**17.3850**	**0.0270**		**0.0583**	**0.0583**		**0.0572**	**0.0572**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0720	0.0436	0.8439	2.8100e-003	0.2856	1.6300e-003	0.2872	0.0773	1.5000e-003	0.0788		283.5844	283.5844	4.6200e-003	5.3300e-003	285.2884
Total	**0.0720**	**0.0436**	**0.8439**	**2.8100e-003**	**0.2856**	**1.6300e-003**	**0.2872**	**0.0773**	**1.5000e-003**	**0.0788**		**283.5844**	**283.5844**	**4.6200e-003**	**5.3300e-003**	**285.2884**

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.17 StorageResPaving - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8197	7.5321	12.1778	0.0189		0.3524	0.3524		0.3259	0.3259		1,805.3926	1,805.3926	0.5673		1,819.5741
Paving	6.3509					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**7.1706**	**7.5321**	**12.1778**	**0.0189**		**0.3524**	**0.3524**		**0.3259**	**0.3259**		**1,805.3926**	**1,805.3926**	**0.5673**		**1,819.5741**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0720	0.0436	0.8439	2.8100e-003	0.3649	1.6300e-003	0.3665	0.0968	1.5000e-003	0.0983		283.5844	283.5844	4.6200e-003	5.3300e-003	285.2884
Total	**0.0720**	**0.0436**	**0.8439**	**2.8100e-003**	**0.3649**	**1.6300e-003**	**0.3665**	**0.0968**	**1.5000e-003**	**0.0983**		**283.5844**	**283.5844**	**4.6200e-003**	**5.3300e-003**	**285.2884**

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.17 StorageResPaving - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2432	1.2327	13.4633	0.0189		0.0434	0.0434		0.0421	0.0421	0.0000	1,805.3926	1,805.3926	0.5673		1,819.5741
Paving	6.3509					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**6.5941**	**1.2327**	**13.4633**	**0.0189**		**0.0434**	**0.0434**		**0.0421**	**0.0421**	**0.0000**	**1,805.3926**	**1,805.3926**	**0.5673**		**1,819.5741**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0720	0.0436	0.8439	2.8100e-003	0.2856	1.6300e-003	0.2872	0.0773	1.5000e-003	0.0788		283.5844	283.5844	4.6200e-003	5.3300e-003	285.2884
Total	**0.0720**	**0.0436**	**0.8439**	**2.8100e-003**	**0.2856**	**1.6300e-003**	**0.2872**	**0.0773**	**1.5000e-003**	**0.0788**		**283.5844**	**283.5844**	**4.6200e-003**	**5.3300e-003**	**285.2884**

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.18 WellheadPaving - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7465	6.8132	11.2492	0.0178		0.3285	0.3285		0.3034	0.3034		1,706.7780	1,706.7780	0.5407		1,720.2942
Paving	3.1754					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**3.9220**	**6.8132**	**11.2492**	**0.0178**		**0.3285**	**0.3285**		**0.3034**	**0.3034**		**1,706.7780**	**1,706.7780**	**0.5407**		**1,720.2942**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0600	0.0363	0.7033	2.3400e-003	0.3041	1.3600e-003	0.3054	0.0806	1.2500e-003	0.0819		236.3203	236.3203	3.8500e-003	4.4400e-003	237.7404
Total	**0.0600**	**0.0363**	**0.7033**	**2.3400e-003**	**0.3041**	**1.3600e-003**	**0.3054**	**0.0806**	**1.2500e-003**	**0.0819**		**236.3203**	**236.3203**	**3.8500e-003**	**4.4400e-003**	**237.7404**

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.18 WellheadPaving - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2327	1.1495	12.9316	0.0178		0.0402	0.0402		0.0393	0.0393	0.0000	1,706.7780	1,706.7780	0.5407		1,720.2942
Paving	3.1754					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**3.4081**	**1.1495**	**12.9316**	**0.0178**		**0.0402**	**0.0402**		**0.0393**	**0.0393**	**0.0000**	**1,706.7780**	**1,706.7780**	**0.5407**		**1,720.2942**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0600	0.0363	0.7033	2.3400e-003	0.2380	1.3600e-003	0.2393	0.0644	1.2500e-003	0.0657		236.3203	236.3203	3.8500e-003	4.4400e-003	237.7404
Total	**0.0600**	**0.0363**	**0.7033**	**2.3400e-003**	**0.2380**	**1.3600e-003**	**0.2393**	**0.0644**	**1.2500e-003**	**0.0657**		**236.3203**	**236.3203**	**3.8500e-003**	**4.4400e-003**	**237.7404**

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.19 AWPFPaving - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8498	7.7205	12.3356	0.0193		0.3597	0.3597		0.3332	0.3332		1,831.2521	1,831.2521	0.5700		1,845.5007
Paving	3.5283					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**4.3781**	**7.7205**	**12.3356**	**0.0193**		**0.3597**	**0.3597**		**0.3332**	**0.3332**		**1,831.2521**	**1,831.2521**	**0.5700**		**1,845.5007**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0981	0.0569	1.0731	3.4500e-003	0.4471	2.0400e-003	0.4492	0.1186	1.8800e-003	0.1205		349.1818	349.1818	6.5000e-003	7.0300e-003	351.4389
Total	**0.0981**	**0.0569**	**1.0731**	**3.4500e-003**	**0.4471**	**2.0400e-003**	**0.4492**	**0.1186**	**1.8800e-003**	**0.1205**		**349.1818**	**349.1818**	**6.5000e-003**	**7.0300e-003**	**351.4389**

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.19 AWPFPaving - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2453	1.2459	13.4744	0.0193		0.0439	0.0439		0.0427	0.0427	0.0000	1,831.2521	1,831.2521	0.5700		1,845.5007
Paving	3.5283					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**3.7736**	**1.2459**	**13.4744**	**0.0193**		**0.0439**	**0.0439**		**0.0427**	**0.0427**	**0.0000**	**1,831.2521**	**1,831.2521**	**0.5700**		**1,845.5007**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0981	0.0569	1.0731	3.4500e-003	0.3499	2.0400e-003	0.3520	0.0947	1.8800e-003	0.0966		349.1818	349.1818	6.5000e-003	7.0300e-003	351.4389
Total	**0.0981**	**0.0569**	**1.0731**	**3.4500e-003**	**0.3499**	**2.0400e-003**	**0.3520**	**0.0947**	**1.8800e-003**	**0.0966**		**349.1818**	**349.1818**	**6.5000e-003**	**7.0300e-003**	**351.4389**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.540005	0.063885	0.187129	0.126392	0.023842	0.006753	0.012641	0.008546	0.000821	0.000486	0.025267	0.000753	0.003480
Refrigerated Warehouse-No Rail	0.540005	0.063885	0.187129	0.126392	0.023842	0.006753	0.012641	0.008546	0.000821	0.000486	0.025267	0.000753	0.003480
Unrefrigerated Warehouse-No Rail	0.540005	0.063885	0.187129	0.126392	0.023842	0.006753	0.012641	0.008546	0.000821	0.000486	0.025267	0.000753	0.003480

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	30.4348	2.3700e-003	0.2620	2.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004		0.5631	0.5631	1.4600e-003		0.5997
Unmitigated	30.4348	2.3700e-003	0.2620	2.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004		0.5631	0.5631	1.4600e-003		0.5997

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	30.4106					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0241	2.3700e-003	0.2620	2.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004		0.5631	0.5631	1.4600e-003		0.5997
Total	**30.4348**	**2.3700e-003**	**0.2620**	**2.0000e-005**		**9.3000e-004**	**9.3000e-004**		**9.3000e-004**	**9.3000e-004**		**0.5631**	**0.5631**	**1.4600e-003**		**0.5997**

Chino Basin Program - Construction - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	30.4106					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0241	2.3700e-003	0.2620	2.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004		0.5631	0.5631	1.4600e-003		0.5997
Total	**30.4348**	**2.3700e-003**	**0.2620**	**2.0000e-005**		**9.3000e-004**	**9.3000e-004**		**9.3000e-004**	**9.3000e-004**		**0.5631**	**0.5631**	**1.4600e-003**		**0.5997**

7.0 Water Detail

7.1 Mitigation Measures Water

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Chino Basin Program - Construction

South Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	1,354.00	1000sqft	31.08	1,354,000.00	0
Other Asphalt Surfaces	1,056.00	1000sqft	24.24	1,056,000.00	0
Unrefrigerated Warehouse-No Rail	163.00	1000sqft	3.74	163,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	10			**Operational Year**	2028
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - CalEEMod has limited choices for land use types. Industrial Refrigerated Warehouse - no rail chosen for most CBP components because allows for project-specific entries for energy use, and construction. Parking Other Asphalt Surfaces chosen for pipes, turnouts because allows for project-specific entries on construction equipment, etc., and doesn't have operational energy usage.

Construction Phase - see project description

Off-road Equipment - see project description

Off-road Equipment - see project description

Off-road Equipment - see project description

Off-road Equipment - see project description

Off-road Equipment - see project description

Off-road Equipment -

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-road Equipment - see project description
Off-road Equipment - see project description
Off-road Equipment - see project description
Off-road Equipment - see project description
Off-road Equipment -
Off-road Equipment - see project description
Off-road Equipment - see project description
Off-road Equipment - see project description
Off-road Equipment -
Off-road Equipment - see project description
Off-road Equipment - see project description
Off-road Equipment - see project description
Grading - see project description
Demolition -
Trips and VMT - see project description.
Vehicle Trips - construction only
Area Coating - construction only
Landscape Equipment - construction only
Energy Use - construction only
Water And Wastewater - construction only
Solid Waste - construction only
Construction Off-road Equipment Mitigation - rule 403 and 90-percent Tier 4

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	758500	0
tblAreaCoating	Area_Nonresidential_Interior	2275500	0
tblAreaCoating	Area_Parking	63360	0
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	25

tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	13.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	20.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	17.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	34.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	51.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	19.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	17.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	23.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	14.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	1,110.00	230.00
tblConstructionPhase	NumDays	1,110.00	201.00
tblConstructionPhase	NumDays	1,110.00	75.00
tblConstructionPhase	NumDays	1,110.00	261.00
tblConstructionPhase	NumDays	70.00	20.00
tblConstructionPhase	NumDays	110.00	783.00
tblConstructionPhase	NumDays	110.00	8.00
tblConstructionPhase	NumDays	110.00	20.00
tblConstructionPhase	NumDays	110.00	10.00
tblConstructionPhase	NumDays	110.00	44.00
tblConstructionPhase	NumDays	110.00	44.00
tblConstructionPhase	NumDays	110.00	522.00
tblConstructionPhase	NumDays	110.00	44.00
tblConstructionPhase	NumDays	110.00	261.00
tblConstructionPhase	NumDays	75.00	10.00
tblConstructionPhase	NumDays	75.00	20.00
tblConstructionPhase	NumDays	75.00	18.00
tblConstructionPhase	NumDays	40.00	5.00
tblEnergyUse	LightingElect	2.37	0.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	36.52	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	48.51	0.00

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	0.95	0.00
tblEnergyUse	T24E	0.33	0.00
tblEnergyUse	T24NG	3.22	0.00
tblEnergyUse	T24NG	1.98	0.00
tblGrading	AcresOfGrading	1,174.50	18.50
tblGrading	AcresOfGrading	8.00	5.00
tblGrading	AcresOfGrading	15.00	6.00
tblGrading	AcresOfGrading	10.00	4.00
tblGrading	AcresOfGrading	121.00	5.00
tblGrading	AcresOfGrading	121.00	5.00
tblGrading	AcresOfGrading	1,435.50	10.00
tblGrading	AcresOfGrading	7.50	0.00
tblGrading	AcresOfGrading	121.00	5.00
tblGrading	AcresOfGrading	261.00	2.00
tblLandscapeEquipment	NumberSummerDays	250	0
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Signal Boards
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Signal Boards
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Signal Boards
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Signal Boards
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	8.00	6.00

tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblSolidWaste	SolidWasteGenerationRate	1,272.76	0.00
tblSolidWaste	SolidWasteGenerationRate	153.22	0.00
tblTripsAndVMT	HaulingTripLength	20.00	50.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripNumber	0.00	40.00
tblTripsAndVMT	HaulingTripNumber	0.00	600.00
tblTripsAndVMT	HaulingTripNumber	0.00	660.00
tblTripsAndVMT	HaulingTripNumber	0.00	660.00
tblTripsAndVMT	HaulingTripNumber	0.00	2,000.00
tblTripsAndVMT	HaulingTripNumber	0.00	20.00
tblTripsAndVMT	HaulingTripNumber	0.00	660.00
tblTripsAndVMT	VendorTripLength	6.90	50.00
tblTripsAndVMT	VendorTripLength	6.90	40.00
tblTripsAndVMT	VendorTripLength	6.90	40.00
tblTripsAndVMT	VendorTripLength	6.90	40.00
tblTripsAndVMT	VendorTripLength	6.90	40.00
tblTripsAndVMT	VendorTripLength	6.90	40.00
tblTripsAndVMT	VendorTripLength	6.90	40.00
tblTripsAndVMT	VendorTripLength	6.90	40.00
tblTripsAndVMT	VendorTripLength	6.90	20.00
tblTripsAndVMT	VendorTripNumber	0.00	128.00

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	VendorTripNumber	0.00	30.00
tblTripsAndVMT	VendorTripNumber	422.00	30.00
tblTripsAndVMT	VendorTripNumber	422.00	20.00
tblTripsAndVMT	VendorTripNumber	422.00	0.00
tblTripsAndVMT	VendorTripNumber	0.00	30.00
tblTripsAndVMT	VendorTripNumber	0.00	30.00
tblTripsAndVMT	VendorTripNumber	0.00	28.00
tblTripsAndVMT	VendorTripNumber	0.00	30.00
tblTripsAndVMT	VendorTripNumber	0.00	12.00
tblTripsAndVMT	VendorTripNumber	422.00	0.00
tblTripsAndVMT	WorkerTripLength	14.70	20.00
tblTripsAndVMT	WorkerTripLength	14.70	20.00
tblTripsAndVMT	WorkerTripLength	14.70	20.00
tblTripsAndVMT	WorkerTripLength	14.70	20.00
tblTripsAndVMT	WorkerTripLength	14.70	20.00
tblTripsAndVMT	WorkerTripLength	14.70	40.00
tblTripsAndVMT	WorkerTripLength	14.70	40.00
tblTripsAndVMT	WorkerTripLength	14.70	40.00
tblTripsAndVMT	WorkerTripLength	14.70	40.00
tblTripsAndVMT	WorkerTripLength	14.70	40.00
tblTripsAndVMT	WorkerTripNumber	73.00	80.00
tblTripsAndVMT	WorkerTripNumber	15.00	40.00
tblTripsAndVMT	WorkerTripNumber	1,081.00	40.00
tblTripsAndVMT	WorkerTripNumber	15.00	20.00
tblTripsAndVMT	WorkerTripNumber	1,081.00	20.00
tblTripsAndVMT	WorkerTripNumber	15.00	24.00
tblTripsAndVMT	WorkerTripNumber	1,081.00	24.00
tblTripsAndVMT	WorkerTripNumber	20.00	24.00
tblTripsAndVMT	WorkerTripNumber	23.00	40.00

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	WorkerTripNumber	100.00	84.00
tblTripsAndVMT	WorkerTripNumber	100.00	84.00
tblTripsAndVMT	WorkerTripNumber	100.00	28.00
tblTripsAndVMT	WorkerTripNumber	10.00	20.00
tblTripsAndVMT	WorkerTripNumber	18.00	40.00
tblTripsAndVMT	WorkerTripNumber	100.00	84.00
tblTripsAndVMT	WorkerTripNumber	1,081.00	10.00
tblVehicleTrips	ST_TR	2.12	0.00
tblVehicleTrips	ST_TR	1.74	0.00
tblVehicleTrips	SU_TR	2.12	0.00
tblVehicleTrips	SU_TR	1.74	0.00
tblVehicleTrips	WD_TR	2.12	0.00
tblVehicleTrips	WD_TR	1.74	0.00
tblWater	IndoorWaterUseRate	313,112,500.00	0.00
tblWater	IndoorWaterUseRate	37,693,750.00	0.00

2.0 Emissions Summary

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2025	14.2506	155.1718	126.0471	0.4629	56.3107	5.3206	61.6313	27.9208	4.9717	32.8925	0.0000	46,980.7873	46,980.7873	6.9786	3.1717	48,100.4293
2026	21.6605	225.8374	187.9566	0.6164	85.4511	8.2027	93.6538	43.3792	7.6706	51.0498	0.0000	62,077.3975	62,077.3975	9.9923	3.6093	63,402.7926
2027	31.2361	281.7535	236.4349	0.7530	110.8735	10.5343	121.4078	56.9777	9.8287	66.8064	0.0000	75,763.5406	75,763.5406	12.5298	5.0051	77,371.6015
Maximum	**31.2361**	**281.7535**	**236.4349**	**0.7530**	**110.8735**	**10.5343**	**121.4078**	**56.9777**	**9.8287**	**66.8064**	**0.0000**	**75,763.5406**	**75,763.5406**	**12.5298**	**5.0051**	**77,371.6015**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2025	5.0496	60.7223	140.2809	0.4629	29.2846	1.0260	30.3106	13.7408	0.9806	14.7214	0.0000	46,980.7873	46,980.7873	6.9786	3.1717	48,100.4293
2026	7.0103	77.1022	210.2124	0.6164	43.1136	1.4047	44.5183	20.9081	1.3468	22.2549	0.0000	62,077.3975	62,077.3975	9.9923	3.6093	63,402.7926
2027	19.1191	93.9790	264.1950	0.7530	55.0039	1.6709	56.6748	27.1551	1.6028	28.7579	0.0000	75,763.5406	75,763.5406	12.5298	5.0051	77,371.6014
Maximum	**19.1191**	**93.9790**	**264.1950**	**0.7530**	**55.0039**	**1.6709**	**56.6748**	**27.1551**	**1.6028**	**28.7579**	**0.0000**	**75,763.5406**	**75,763.5406**	**12.5298**	**5.0051**	**77,371.6014**

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	53.57	65.02	-11.67	0.00	49.57	82.95	52.47	51.82	82.51	56.39	0.00	0.00	0.00	0.00	0.00	0.00

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	30.4348	2.3700e-003	0.2620	2.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004		0.5631	0.5631	1.4600e-003		0.5997
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	**30.4348**	**2.3700e-003**	**0.2620**	**2.0000e-005**	**0.0000**	**9.3000e-004**	**9.3000e-004**	**0.0000**	**9.3000e-004**	**9.3000e-004**		**0.5631**	**0.5631**	**1.4600e-003**	**0.0000**	**0.5997**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	30.4348	2.3700e-003	0.2620	2.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004		0.5631	0.5631	1.4600e-003		0.5997
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	**30.4348**	**2.3700e-003**	**0.2620**	**2.0000e-005**	**0.0000**	**9.3000e-004**	**9.3000e-004**	**0.0000**	**9.3000e-004**	**9.3000e-004**		**0.5631**	**0.5631**	**1.4600e-003**	**0.0000**	**0.5997**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Wells	Grading	1/1/2025	12/31/2027	5	783	Wells
2	Pipelines25	Grading	1/1/2025	3/3/2025	5	44	Pipelines25
3	Pipelines26	Grading	1/1/2026	3/3/2026	5	44	Pipelines26
4	Turnouts	Grading	1/1/2026	12/31/2027	5	522	Turnouts
5	WellheadDemo	Demolition	1/1/2027	1/28/2027	5	20	WellheadDemo
6	AWPFSiteprep	Site Preparation	1/1/2027	1/7/2027	5	5	AWPFSiteprep
7	Pipelines27	Grading	1/1/2027	3/3/2027	5	44	Pipelines27
8	PumpStationsGrading	Grading	1/1/2027	12/31/2027	5	261	PumpStationsGrading
9	PumpStationsConstruct	Building Construction	1/1/2027	12/31/2027	5	261	PumpStationsConstruct
10	AWPFGrading	Grading	1/8/2027	1/19/2027	5	8	AWPFGrading
11	AWPFConstruction	Building Construction	1/20/2027	12/7/2027	5	230	AWPFConstruction
12	WellheadGrading	Grading	1/29/2027	2/25/2027	5	20	WellheadGrading
13	WellheadConstruct	Building Construction	2/26/2027	12/3/2027	5	201	WellheadConstruct
14	StorageResGrading	Grading	8/2/2027	8/13/2027	5	10	StorageResGrading
15	StorageResConstruct	Building Construction	8/16/2027	11/26/2027	5	75	StorageResConstruct
16	StorageResPaving	Paving	11/29/2027	12/10/2027	5	10	StorageResPaving
17	WellheadPaving	Paving	12/6/2027	12/31/2027	5	20	WellheadPaving
18	AWPFPaving	Paving	12/8/2027	12/31/2027	5	18	AWPFPaving

Acres of Grading (Site Preparation Phase): 0

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Acres of Grading (Grading Phase): 18.5

Acres of Paving: 24.24

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Wells	Rubber Tired Dozers	4	6.00	247	0.40
Wells	Tractors/Loaders/Backhoes	12	6.00	97	0.37
Wells	Bore/Drill Rigs	1	24.00	221	0.50
Wells	Cranes	4	6.00	231	0.29
Wells	Welders	4	4.00	46	0.45
Pipelines25	Excavators	3	4.00	158	0.38
Pipelines25	Graders	1	8.00	187	0.41
Pipelines25	Rubber Tired Dozers	6	6.00	247	0.40
Pipelines25	Tractors/Loaders/Backhoes	3	6.00	97	0.37
Pipelines25	Crushing/Proc. Equipment	6	6.00	85	0.78
Pipelines25	Cranes	3	6.00	231	0.29
Pipelines25	Rollers	3	6.00	80	0.38
Pipelines25	Sweepers/Scrubbers	3	4.00	64	0.46
Pipelines25	Paving Equipment	3	2.00	132	0.36
Pipelines25	Generator Sets	3	1.00	84	0.74
Pipelines26	Excavators	3	4.00	158	0.38
Pipelines26	Graders	1	8.00	187	0.41
Pipelines26	Rubber Tired Dozers	6	6.00	247	0.40
Pipelines26	Tractors/Loaders/Backhoes	3	6.00	97	0.37
Pipelines26	Crushing/Proc. Equipment	6	6.00	85	0.78
Pipelines26	Cranes	3	6.00	231	0.29
Pipelines26	Rollers	3	6.00	80	0.38

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Pipelines26	Sweepers/Scrubbers	3	4.00	64	0.46
Pipelines26	Paving Equipment	3	2.00	132	0.36
Pipelines26	Generator Sets	3	1.00	84	0.74
Pipelines27	Excavators	3	4.00	158	0.38
Pipelines27	Graders	1	8.00	187	0.41
Pipelines27	Rubber Tired Dozers	6	6.00	247	0.40
Pipelines27	Tractors/Loaders/Backhoes	3	6.00	97	0.37
Pipelines27	Crushing/Proc. Equipment	6	6.00	85	0.78
Pipelines27	Cranes	3	6.00	231	0.29
Pipelines27	Rollers	3	6.00	80	0.38
Pipelines27	Sweepers/Scrubbers	3	4.00	64	0.46
Pipelines27	Paving Equipment	3	2.00	132	0.36
Pipelines27	Generator Sets	3	1.00	84	0.74
Turnouts	Excavators	3	4.00	158	0.38
Turnouts	Graders	1	8.00	187	0.41
Turnouts	Rubber Tired Dozers	6	6.00	247	0.40
Turnouts	Tractors/Loaders/Backhoes	3	6.00	97	0.37
Turnouts	Crushing/Proc. Equipment	6	6.00	85	0.78
Turnouts	Cranes	3	6.00	231	0.29
Turnouts	Rollers	3	6.00	80	0.38
Turnouts	Sweepers/Scrubbers	3	4.00	64	0.46
Turnouts	Paving Equipment	3	2.00	132	0.36
Turnouts	Generator Sets	3	1.00	84	0.74
AWPFSiteprep	Rubber Tired Dozers	3	8.00	247	0.40
AWPFSiteprep	Tractors/Loaders/Backhoes	4	8.00	97	0.37
AWPFGrading	Excavators	1	8.00	158	0.38
AWPFGrading	Graders	1	8.00	187	0.41
AWPFGrading	Rubber Tired Dozers	1	8.00	247	0.40
AWPFGrading	Tractors/Loaders/Backhoes	3	8.00	97	0.37

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

AWPFConstruction	Cranes	1	7.00	231	0.29
AWPFConstruction	Forklifts	3	8.00	89	0.20
AWPFConstruction	Generator Sets	1	8.00	84	0.74
AWPFConstruction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
AWPFConstruction	Welders	1	8.00	46	0.45
AWPFPaving	Cement and Mortar Mixers	2	6.00	9	0.56
AWPFPaving	Pavers	1	8.00	130	0.42
AWPFPaving	Paving Equipment	2	6.00	132	0.36
AWPFPaving	Rollers	2	6.00	80	0.38
AWPFPaving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
PumpStationsGrading	Graders	1	8.00	187	0.41
PumpStationsGrading	Rubber Tired Dozers	1	8.00	247	0.40
PumpStationsGrading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
PumpStationsConstruct	Cranes	1	4.00	231	0.29
PumpStationsConstruct	Forklifts	1	4.00	89	0.20
PumpStationsConstruct	Tractors/Loaders/Backhoes	2	4.00	97	0.37
PumpStationsConstruct	Welders	1	4.00	46	0.45
WellheadDemo	Concrete/Industrial Saws	2	6.00	81	0.73
WellheadDemo	Rubber Tired Dozers	2	6.00	247	0.40
WellheadGrading	Graders	2	6.00	187	0.41
WellheadGrading	Tractors/Loaders/Backhoes	4	6.00	97	0.37
WellheadConstruct	Cranes	2	4.00	231	0.29
WellheadConstruct	Forklifts	2	6.00	89	0.20
WellheadConstruct	Generator Sets	2	4.00	84	0.74
WellheadConstruct	Tractors/Loaders/Backhoes	4	6.00	97	0.37
WellheadConstruct	Welders	2	4.00	46	0.45
WellheadPaving	Pavers	2	6.00	130	0.42
WellheadPaving	Paving Equipment	2	6.00	132	0.36
WellheadPaving	Rollers	2	6.00	80	0.38

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

StorageResGrading	Excavators	1	8.00	158	0.38
StorageResGrading	Graders	1	8.00	187	0.41
StorageResGrading	Rubber Tired Dozers	1	8.00	247	0.40
StorageResGrading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
StorageResConstruct	Cranes	1	7.00	231	0.29
StorageResConstruct	Forklifts	3	8.00	89	0.20
StorageResConstruct	Generator Sets	1	8.00	84	0.74
StorageResConstruct	Tractors/Loaders/Backhoes	3	7.00	97	0.37
StorageResConstruct	Welders	1	8.00	46	0.45
StorageResPaving	Cement and Mortar Mixers	2	6.00	9	0.56
StorageResPaving	Pavers	1	8.00	130	0.42
StorageResPaving	Paving Equipment	2	6.00	132	0.36
StorageResPaving	Rollers	2	6.00	80	0.38
StorageResPaving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Wells	Generator Sets	4	4.00	84	0.74
Pipelines25	Plate Compactors	3	2.00	8	0.43
Pipelines25	Signal Boards	3	6.00	6	0.82
Pipelines26	Plate Compactors	3	2.00	8	0.43
Pipelines26	Signal Boards	3	6.00	6	0.82
Turnouts	Plate Compactors	3	2.00	8	0.43
Turnouts	Signal Boards	3	6.00	6	0.82
Pipelines27	Plate Compactors	3	2.00	8	0.43
Pipelines27	Signal Boards	3	6.00	6	0.82
WellheadPaving	Plate Compactors	2	6.00	8	0.43
AWPFPaving	Plate Compactors	1	6.00	8	0.43

Trips and VMT

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Wells	29	80.00	128.00	40.00	14.70	50.00	20.00	LD_Mix	HDT_Mix	HHDT
Pipelines25	40	84.00	30.00	660.00	40.00	40.00	40.00	LD_Mix	HDT_Mix	HHDT
Pipelines26	40	84.00	30.00	660.00	40.00	40.00	40.00	LD_Mix	HDT_Mix	HHDT
Pipelines27	40	84.00	30.00	660.00	40.00	40.00	40.00	LD_Mix	HDT_Mix	HHDT
Turnouts	40	28.00	28.00	2,000.00	40.00	40.00	40.00	LD_Mix	HDT_Mix	HHDT
AWPFSiteprep	7	40.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
AWPFGrading	6	40.00	30.00	0.00	14.70	40.00	20.00	LD_Mix	HDT_Mix	HHDT
AWPFConstruction	9	40.00	30.00	0.00	14.70	40.00	20.00	LD_Mix	HDT_Mix	HHDT
AWPFPaving	9	40.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
PumpStationsGrading	4	10.00	12.00	0.00	14.70	20.00	20.00	LD_Mix	HDT_Mix	HHDT
PumpStationsConstruct	5	10.00	0.00	0.00	40.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WellheadDemo	4	20.00	0.00	20.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WellheadGrading	6	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WellheadConstruct	12	20.00	20.00	0.00	20.00	40.00	20.00	LD_Mix	HDT_Mix	HHDT
WellheadPaving	8	20.00	0.00	0.00	20.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
StorageResGrading	6	24.00	0.00	600.00	20.00	6.90	50.00	LD_Mix	HDT_Mix	HHDT
StorageResConstruct	9	24.00	0.00	0.00	20.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
StorageResPaving	8	24.00	0.00	0.00	20.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Wells - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0913	0.0000	18.0913	9.9334	0.0000	9.9334			0.0000			0.0000
Off-Road	5.6721	54.4844	51.0006	0.1177		2.2175	2.2175		2.0619	2.0619		11,288.6368	11,288.6368	3.1992		11,368.6178
Total	**5.6721**	**54.4844**	**51.0006**	**0.1177**	**18.0913**	**2.2175**	**20.3088**	**9.9334**	**2.0619**	**11.9953**		**11,288.6368**	**11,288.6368**	**3.1992**		**11,368.6178**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.0000e-004	6.5500e-003	1.8300e-003	3.0000e-005	8.9000e-004	4.0000e-005	9.4000e-004	2.4000e-004	4.0000e-005	2.9000e-004		3.1447	3.1447	2.0000e-004	5.0000e-004	3.2989
Vendor	0.4660	26.2305	5.7652	0.1522	5.9171	0.1849	6.1019	1.7013	0.1768	1.8781		16,464.8402	16,464.8402	0.6317	2.3796	17,189.7511
Worker	0.2369	0.1500	2.2080	6.9300e-003	0.8942	4.5900e-003	0.8988	0.2372	4.2200e-003	0.2414		700.1040	700.1040	0.0160	0.0167	705.4685
Total	**0.7030**	**26.3871**	**7.9749**	**0.1592**	**6.8122**	**0.1895**	**7.0017**	**1.9387**	**0.1811**	**2.1198**		**17,168.0889**	**17,168.0889**	**0.6479**	**2.3968**	**17,898.5185**

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Wells - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1411	0.0000	8.1411	4.4700	0.0000	4.4700			0.0000			0.0000
Off-Road	1.9203	14.3205	57.2122	0.1177		0.4265	0.4265		0.4037	0.4037	0.0000	11,288.6368	11,288.6368	3.1992		11,368.6178
Total	**1.9203**	**14.3205**	**57.2122**	**0.1177**	**8.1411**	**0.4265**	**8.5676**	**4.4700**	**0.4037**	**4.8737**	**0.0000**	**11,288.6368**	**11,288.6368**	**3.1992**		**11,368.6178**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.0000e-004	6.5500e-003	1.8300e-003	3.0000e-005	7.2000e-004	4.0000e-005	7.7000e-004	2.0000e-004	4.0000e-005	2.5000e-004		3.1447	3.1447	2.0000e-004	5.0000e-004	3.2989
Vendor	0.4660	26.2305	5.7652	0.1522	4.8594	0.1849	5.0443	1.4417	0.1768	1.6185		16,464.8402	16,464.8402	0.6317	2.3796	17,189.7511
Worker	0.2369	0.1500	2.2080	6.9300e-003	0.6999	4.5900e-003	0.7045	0.1894	4.2200e-003	0.1937		700.1040	700.1040	0.0160	0.0167	705.4685
Total	**0.7030**	**26.3871**	**7.9749**	**0.1592**	**5.5600**	**0.1895**	**5.7495**	**1.6313**	**0.1811**	**1.8124**		**17,168.0889**	**17,168.0889**	**0.6479**	**2.3968**	**17,898.5185**

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Wells - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0913	0.0000	18.0913	9.9334	0.0000	9.9334			0.0000			0.0000
Off-Road	5.6721	54.4844	51.0006	0.1177		2.2175	2.2175		2.0619	2.0619		11,288.6368	11,288.6368	3.1992		11,368.6178
Total	**5.6721**	**54.4844**	**51.0006**	**0.1177**	**18.0913**	**2.2175**	**20.3088**	**9.9334**	**2.0619**	**11.9953**		**11,288.6368**	**11,288.6368**	**3.1992**		**11,368.6178**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.0000e-004	6.4800e-003	1.8500e-003	3.0000e-005	8.9000e-004	4.0000e-005	9.4000e-004	2.4000e-004	4.0000e-005	2.9000e-004		3.0856	3.0856	2.0000e-004	4.9000e-004	3.2370
Vendor	0.4506	26.0189	5.6849	0.1493	5.9171	0.1847	6.1018	1.7013	0.1767	1.8780		16,160.7340	16,160.7340	0.6331	2.3385	16,873.4248
Worker	0.2237	0.1363	2.0743	6.7100e-003	0.8942	4.3500e-003	0.8986	0.2372	4.0000e-003	0.2412		678.6612	678.6612	0.0145	0.0157	683.7069
Total	**0.6744**	**26.1617**	**7.7611**	**0.1560**	**6.8122**	**0.1891**	**7.0013**	**1.9387**	**0.1807**	**2.1194**		**16,842.4807**	**16,842.4807**	**0.6479**	**2.3547**	**17,560.3687**

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Wells - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1411	0.0000	8.1411	4.4700	0.0000	4.4700			0.0000			0.0000
Off-Road	1.9203	14.3205	57.2122	0.1177		0.4265	0.4265		0.4037	0.4037	0.0000	11,288.6368	11,288.6368	3.1992		11,368.6178
Total	**1.9203**	**14.3205**	**57.2122**	**0.1177**	**8.1411**	**0.4265**	**8.5676**	**4.4700**	**0.4037**	**4.8737**	**0.0000**	**11,288.6368**	**11,288.6368**	**3.1992**		**11,368.6178**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.0000e-004	6.4800e-003	1.8500e-003	3.0000e-005	7.2000e-004	4.0000e-005	7.7000e-004	2.0000e-004	4.0000e-005	2.5000e-004		3.0856	3.0856	2.0000e-004	4.9000e-004	3.2370
Vendor	0.4506	26.0189	5.6849	0.1493	4.8594	0.1847	5.0441	1.4417	0.1767	1.6184		16,160.7340	16,160.7340	0.6331	2.3385	16,873.4248
Worker	0.2237	0.1363	2.0743	6.7100e-003	0.6999	4.3500e-003	0.7042	0.1894	4.0000e-003	0.1935		678.6612	678.6612	0.0145	0.0157	683.7069
Total	**0.6744**	**26.1617**	**7.7611**	**0.1560**	**5.5600**	**0.1891**	**5.7491**	**1.6313**	**0.1807**	**1.8121**		**16,842.4807**	**16,842.4807**	**0.6479**	**2.3547**	**17,560.3687**

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Wells - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0913	0.0000	18.0913	9.9334	0.0000	9.9334			0.0000			0.0000
Off-Road	5.6721	54.4844	51.0006	0.1177		2.2175	2.2175		2.0619	2.0619		11,288.6368	11,288.6368	3.1992		11,368.6178
Total	**5.6721**	**54.4844**	**51.0006**	**0.1177**	**18.0913**	**2.2175**	**20.3088**	**9.9334**	**2.0619**	**11.9953**		**11,288.6368**	**11,288.6368**	**3.1992**		**11,368.6178**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.0000e-004	6.4100e-003	1.8600e-003	3.0000e-005	8.9000e-004	4.0000e-005	9.4000e-004	2.4000e-004	4.0000e-005	2.9000e-004		3.0239	3.0239	2.0000e-004	4.8000e-004	3.1725
Vendor	0.4370	25.7911	5.6164	0.1462	5.9171	0.1842	6.1012	1.7013	0.1762	1.8774		15,842.0915	15,842.0915	0.6322	2.2954	16,541.9390
Worker	0.2116	0.1246	1.9605	6.5300e-003	0.8942	4.0800e-003	0.8983	0.2372	3.7600e-003	0.2409		659.6069	659.6069	0.0133	0.0149	664.3854
Total	**0.6487**	**25.9221**	**7.5788**	**0.1528**	**6.8122**	**0.1883**	**7.0005**	**1.9387**	**0.1800**	**2.1186**		**16,504.7223**	**16,504.7223**	**0.6457**	**2.3108**	**17,209.4969**

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Wells - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1411	0.0000	8.1411	4.4700	0.0000	4.4700			0.0000			0.0000
Off-Road	1.9203	14.3205	57.2122	0.1177		0.4265	0.4265		0.4037	0.4037	0.0000	11,288.6368	11,288.6368	3.1992		11,368.6178
Total	**1.9203**	**14.3205**	**57.2122**	**0.1177**	**8.1411**	**0.4265**	**8.5676**	**4.4700**	**0.4037**	**4.8737**	**0.0000**	**11,288.6368**	**11,288.6368**	**3.1992**		**11,368.6178**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.0000e-004	6.4100e-003	1.8600e-003	3.0000e-005	7.2000e-004	4.0000e-005	7.7000e-004	2.0000e-004	4.0000e-005	2.5000e-004		3.0239	3.0239	2.0000e-004	4.8000e-004	3.1725
Vendor	0.4370	25.7911	5.6164	0.1462	4.8594	0.1842	5.0435	1.4417	0.1762	1.6178		15,842.0915	15,842.0915	0.6322	2.2954	16,541.9390
Worker	0.2116	0.1246	1.9605	6.5300e-003	0.6999	4.0800e-003	0.7039	0.1894	3.7600e-003	0.1932		659.6069	659.6069	0.0133	0.0149	664.3854
Total	**0.6487**	**25.9221**	**7.5788**	**0.1528**	**5.5600**	**0.1883**	**5.7483**	**1.6313**	**0.1800**	**1.8113**		**16,504.7223**	**16,504.7223**	**0.6457**	**2.3108**	**17,209.4969**

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Pipelines25 - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					27.2199	0.0000	27.2199	14.9090	0.0000	14.9090			0.0000			0.0000
Off-Road	7.2079	65.3752	59.4606	0.1215		2.8404	2.8404		2.6591	2.6591		11,646.5321	11,646.5321	2.8657		11,718.1751
Total	**7.2079**	**65.3752**	**59.4606**	**0.1215**	**27.2199**	**2.8404**	**30.0603**	**14.9090**	**2.6591**	**17.5682**		**11,646.5321**	**11,646.5321**	**2.8657**		**11,718.1751**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0447	3.5675	0.8536	0.0163	0.5242	0.0260	0.5502	0.1437	0.0249	0.1685		1,806.6021	1,806.6021	0.1166	0.2876	1,895.2186
Vendor	0.0907	4.9881	1.1355	0.0286	1.1096	0.0347	1.1443	0.3191	0.0332	0.3523		3,096.2886	3,096.2886	0.1188	0.4476	3,232.6521
Worker	0.5322	0.3696	5.6219	0.0195	2.5535	0.0125	2.5660	0.6770	0.0115	0.6885		1,974.6389	1,974.6389	0.0305	0.0398	1,987.2471
Total	**0.6676**	**8.9251**	**7.6110**	**0.0645**	**4.1873**	**0.0732**	**4.2605**	**1.1397**	**0.0695**	**1.2093**		**6,877.5295**	**6,877.5295**	**0.2658**	**0.7750**	**7,115.1178**

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Pipelines25 - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					12.2490	0.0000	12.2490	6.7091	0.0000	6.7091			0.0000			0.0000
Off-Road	1.7587	11.0896	67.4827	0.1215		0.3369	0.3369		0.3263	0.3263	0.0000	11,646.5321	11,646.5321	2.8657		11,718.1751
Total	**1.7587**	**11.0896**	**67.4827**	**0.1215**	**12.2490**	**0.3369**	**12.5858**	**6.7091**	**0.3263**	**7.0354**	**0.0000**	**11,646.5321**	**11,646.5321**	**2.8657**		**11,718.1751**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0447	3.5675	0.8536	0.0163	0.4251	0.0260	0.4510	0.1193	0.0249	0.1442		1,806.6021	1,806.6021	0.1166	0.2876	1,895.2186
Vendor	0.0907	4.9881	1.1355	0.0286	0.9113	0.0347	0.9460	0.2704	0.0332	0.3036		3,096.2886	3,096.2886	0.1188	0.4476	3,232.6521
Worker	0.5322	0.3696	5.6219	0.0195	1.9982	0.0125	2.0107	0.5407	0.0115	0.5522		1,974.6389	1,974.6389	0.0305	0.0398	1,987.2471
Total	**0.6676**	**8.9251**	**7.6110**	**0.0645**	**3.3345**	**0.0732**	**3.4077**	**0.9304**	**0.0695**	**0.9999**		**6,877.5295**	**6,877.5295**	**0.2658**	**0.7750**	**7,115.1178**

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Pipelines26 - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					27.2199	0.0000	27.2199	14.9090	0.0000	14.9090			0.0000			0.0000
Off-Road	7.2079	65.3752	59.4606	0.1215		2.8404	2.8404		2.6591	2.6591		11,646.5321	11,646.5321	2.8657		11,718.1751
Total	**7.2079**	**65.3752**	**59.4606**	**0.1215**	**27.2199**	**2.8404**	**30.0603**	**14.9090**	**2.6591**	**17.5682**		**11,646.5321**	**11,646.5321**	**2.8657**		**11,718.1751**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0441	3.5280	0.8646	0.0160	0.5242	0.0259	0.5501	0.1437	0.0248	0.1684		1,772.6143	1,772.6143	0.1171	0.2823	1,859.6588
Vendor	0.0878	4.9482	1.1199	0.0281	1.1096	0.0347	1.1443	0.3191	0.0332	0.3522		3,039.0992	3,039.0992	0.1190	0.4399	3,173.1635
Worker	0.5048	0.3340	5.2673	0.0189	2.5535	0.0118	2.5653	0.6770	0.0109	0.6879		1,914.1759	1,914.1759	0.0275	0.0374	1,926.0043
Total	**0.6367**	**8.8102**	**7.2518**	**0.0630**	**4.1873**	**0.0724**	**4.2597**	**1.1397**	**0.0688**	**1.2085**		**6,725.8894**	**6,725.8894**	**0.2636**	**0.7596**	**6,958.8265**

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Pipelines26 - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					12.2490	0.0000	12.2490	6.7091	0.0000	6.7091			0.0000			0.0000
Off-Road	1.7587	11.0896	67.4827	0.1215		0.3369	0.3369		0.3263	0.3263	0.0000	11,646.5321	11,646.5321	2.8657		11,718.1751
Total	**1.7587**	**11.0896**	**67.4827**	**0.1215**	**12.2490**	**0.3369**	**12.5858**	**6.7091**	**0.3263**	**7.0354**	**0.0000**	**11,646.5321**	**11,646.5321**	**2.8657**		**11,718.1751**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0441	3.5280	0.8646	0.0160	0.4251	0.0259	0.4509	0.1193	0.0248	0.1441		1,772.6143	1,772.6143	0.1171	0.2823	1,859.6588
Vendor	0.0878	4.9482	1.1199	0.0281	0.9113	0.0347	0.9460	0.2704	0.0332	0.3035		3,039.0992	3,039.0992	0.1190	0.4399	3,173.1635
Worker	0.5048	0.3340	5.2673	0.0189	1.9982	0.0118	2.0100	0.5407	0.0109	0.5516		1,914.1759	1,914.1759	0.0275	0.0374	1,926.0043
Total	**0.6367**	**8.8102**	**7.2518**	**0.0630**	**3.3345**	**0.0724**	**3.4069**	**0.9304**	**0.0688**	**0.9992**		**6,725.8894**	**6,725.8894**	**0.2636**	**0.7596**	**6,958.8265**

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Turnouts - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					27.1197	0.0000	27.1197	14.8982	0.0000	14.8982			0.0000			0.0000
Off-Road	7.2079	65.3752	59.4606	0.1215		2.8404	2.8404		2.6591	2.6591		11,646.5321	11,646.5321	2.8657		11,718.1751
Total	**7.2079**	**65.3752**	**59.4606**	**0.1215**	**27.1197**	**2.8404**	**29.9601**	**14.8982**	**2.6591**	**17.5573**		**11,646.5321**	**11,646.5321**	**2.8657**		**11,718.1751**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0113	0.9012	0.2209	4.0800e-003	0.1339	6.6100e-003	0.1405	0.0367	6.3200e-003	0.0430		452.7750	452.7750	0.0299	0.0721	475.0086
Vendor	0.0819	4.6183	1.0452	0.0262	1.0356	0.0324	1.0680	0.2978	0.0310	0.3287		2,836.4926	2,836.4926	0.1111	0.4106	2,961.6192
Worker	0.1683	0.1113	1.7558	6.3100e-003	0.8512	3.9500e-003	0.8551	0.2257	3.6300e-003	0.2293		638.0586	638.0586	9.1600e-003	0.0125	642.0014
Total	**0.2614**	**5.6308**	**3.0219**	**0.0366**	**2.0207**	**0.0429**	**2.0636**	**0.5601**	**0.0409**	**0.6011**		**3,927.3263**	**3,927.3263**	**0.1502**	**0.4951**	**4,078.6293**

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Turnouts - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					12.2039	0.0000	12.2039	6.7042	0.0000	6.7042			0.0000			0.0000
Off-Road	1.7587	11.0896	67.4827	0.1215		0.3369	0.3369		0.3263	0.3263	0.0000	11,646.5321	11,646.5321	2.8657		11,718.1751
Total	**1.7587**	**11.0896**	**67.4827**	**0.1215**	**12.2039**	**0.3369**	**12.5408**	**6.7042**	**0.3263**	**7.0305**	**0.0000**	**11,646.5321**	**11,646.5321**	**2.8657**		**11,718.1751**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0113	0.9012	0.2209	4.0800e-003	0.1086	6.6100e-003	0.1152	0.0305	6.3200e-003	0.0368		452.7750	452.7750	0.0299	0.0721	475.0086
Vendor	0.0819	4.6183	1.0452	0.0262	0.8505	0.0324	0.8829	0.2524	0.0310	0.2833		2,836.4926	2,836.4926	0.1111	0.4106	2,961.6192
Worker	0.1683	0.1113	1.7558	6.3100e-003	0.6661	3.9500e-003	0.6700	0.1802	3.6300e-003	0.1839		638.0586	638.0586	9.1600e-003	0.0125	642.0014
Total	**0.2614**	**5.6308**	**3.0219**	**0.0366**	**1.6252**	**0.0429**	**1.6681**	**0.4631**	**0.0409**	**0.5040**		**3,927.3263**	**3,927.3263**	**0.1502**	**0.4951**	**4,078.6293**

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Turnouts - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					27.1197	0.0000	27.1197	14.8982	0.0000	14.8982			0.0000			0.0000
Off-Road	7.2079	65.3752	59.4606	0.1215		2.8404	2.8404		2.6591	2.6591		11,646.5321	11,646.5321	2.8657		11,718.1751
Total	**7.2079**	**65.3752**	**59.4606**	**0.1215**	**27.1197**	**2.8404**	**29.9601**	**14.8982**	**2.6591**	**17.5573**		**11,646.5321**	**11,646.5321**	**2.8657**		**11,718.1751**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0111	0.8908	0.2230	4.0000e-003	0.1339	6.5700e-003	0.1405	0.0367	6.2900e-003	0.0430		443.7180	443.7180	0.0299	0.0707	465.5276
Vendor	0.0795	4.5782	1.0328	0.0257	1.0356	0.0323	1.0679	0.2978	0.0309	0.3286		2,780.5745	2,780.5745	0.1109	0.4030	2,903.4462
Worker	0.1598	0.1013	1.6554	6.1400e-003	0.8512	3.7000e-003	0.8549	0.2257	3.4100e-003	0.2291		620.1506	620.1506	8.3100e-003	0.0118	623.8756
Total	**0.2504**	**5.5704**	**2.9112**	**0.0358**	**2.0207**	**0.0425**	**2.0632**	**0.5601**	**0.0406**	**0.6007**		**3,844.4430**	**3,844.4430**	**0.1491**	**0.4855**	**3,992.8493**

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Turnouts - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					12.2039	0.0000	12.2039	6.7042	0.0000	6.7042			0.0000			0.0000
Off-Road	1.7587	11.0896	67.4827	0.1215		0.3369	0.3369		0.3263	0.3263	0.0000	11,646.5321	11,646.5321	2.8657		11,718.1751
Total	**1.7587**	**11.0896**	**67.4827**	**0.1215**	**12.2039**	**0.3369**	**12.5408**	**6.7042**	**0.3263**	**7.0305**	**0.0000**	**11,646.5321**	**11,646.5321**	**2.8657**		**11,718.1751**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0111	0.8908	0.2230	4.0000e-003	0.1086	6.5700e-003	0.1151	0.0305	6.2900e-003	0.0368		443.7180	443.7180	0.0299	0.0707	465.5276
Vendor	0.0795	4.5782	1.0328	0.0257	0.8505	0.0323	0.8828	0.2524	0.0309	0.2832		2,780.5745	2,780.5745	0.1109	0.4030	2,903.4462
Worker	0.1598	0.1013	1.6554	6.1400e-003	0.6661	3.7000e-003	0.6698	0.1802	3.4100e-003	0.1836		620.1506	620.1506	8.3100e-003	0.0118	623.8756
Total	**0.2504**	**5.5704**	**2.9112**	**0.0358**	**1.6252**	**0.0425**	**1.6677**	**0.4631**	**0.0406**	**0.5036**		**3,844.4430**	**3,844.4430**	**0.1491**	**0.4855**	**3,992.8493**

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 WellheadDemo - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.4148	13.3507	9.9638	0.0222		0.5744	0.5744		0.5396	0.5396		2,129.4387	2,129.4387	0.4403		2,140.4460
Total	**1.4148**	**13.3507**	**9.9638**	**0.0222**	**0.0000**	**0.5744**	**0.5744**	**0.0000**	**0.5396**	**0.5396**		**2,129.4387**	**2,129.4387**	**0.4403**		**2,140.4460**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.8900e-003	0.1255	0.0365	5.3000e-004	0.0175	8.6000e-004	0.0184	4.7900e-003	8.3000e-004	5.6200e-003		59.1933	59.1933	3.9400e-003	9.4300e-003	62.1011
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0529	0.0312	0.4901	1.6300e-003	0.2236	1.0200e-003	0.2246	0.0593	9.4000e-004	0.0602		164.9017	164.9017	3.3200e-003	3.7300e-003	166.0964
Total	**0.0548**	**0.1567**	**0.5266**	**2.1600e-003**	**0.2410**	**1.8800e-003**	**0.2429**	**0.0641**	**1.7700e-003**	**0.0659**		**224.0950**	**224.0950**	**7.2600e-003**	**0.0132**	**228.1975**

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 WellheadDemo - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2996	1.6423	11.4631	0.0222		0.0583	0.0583		0.0562	0.0562	0.0000	2,129.4387	2,129.4387	0.4403		2,140.4460
Total	**0.2996**	**1.6423**	**11.4631**	**0.0222**	**0.0000**	**0.0583**	**0.0583**	**0.0000**	**0.0562**	**0.0562**	**0.0000**	**2,129.4387**	**2,129.4387**	**0.4403**		**2,140.4460**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.8900e-003	0.1255	0.0365	5.3000e-004	0.0142	8.6000e-004	0.0150	3.9800e-003	8.3000e-004	4.8100e-003		59.1933	59.1933	3.9400e-003	9.4300e-003	62.1011
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0529	0.0312	0.4901	1.6300e-003	0.1750	1.0200e-003	0.1760	0.0474	9.4000e-004	0.0483		164.9017	164.9017	3.3200e-003	3.7300e-003	166.0964
Total	**0.0548**	**0.1567**	**0.5266**	**2.1600e-003**	**0.1892**	**1.8800e-003**	**0.1910**	**0.0513**	**1.7700e-003**	**0.0531**		**224.0950**	**224.0950**	**7.2600e-003**	**0.0132**	**228.1975**

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 AWPFSiteprep - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
Total	**2.4727**	**25.2339**	**17.9118**	**0.0381**	**18.0663**	**1.0868**	**19.1531**	**9.9307**	**0.9999**	**10.9305**		**3,689.1037**	**3,689.1037**	**1.1931**		**3,718.9320**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1058	0.0623	0.9803	3.2600e-003	0.4471	2.0400e-003	0.4492	0.1186	1.8800e-003	0.1205		329.8034	329.8034	6.6400e-003	7.4600e-003	332.1927
Total	**0.1058**	**0.0623**	**0.9803**	**3.2600e-003**	**0.4471**	**2.0400e-003**	**0.4492**	**0.1186**	**1.8800e-003**	**0.1205**		**329.8034**	**329.8034**	**6.6400e-003**	**7.4600e-003**	**332.1927**

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 AWPFSiteprep - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	0.5860	3.4105	20.6916	0.0381		0.1236	0.1236		0.1183	0.1183	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
Total	**0.5860**	**3.4105**	**20.6916**	**0.0381**	**8.1298**	**0.1236**	**8.2534**	**4.4688**	**0.1183**	**4.5872**	**0.0000**	**3,689.1037**	**3,689.1037**	**1.1931**		**3,718.9320**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1058	0.0623	0.9803	3.2600e-003	0.3499	2.0400e-003	0.3520	0.0947	1.8800e-003	0.0966		329.8034	329.8034	6.6400e-003	7.4600e-003	332.1927
Total	**0.1058**	**0.0623**	**0.9803**	**3.2600e-003**	**0.3499**	**2.0400e-003**	**0.3520**	**0.0947**	**1.8800e-003**	**0.0966**		**329.8034**	**329.8034**	**6.6400e-003**	**7.4600e-003**	**332.1927**

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Pipelines27 - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					27.2199	0.0000	27.2199	14.9090	0.0000	14.9090			0.0000			0.0000
Off-Road	7.2079	65.3752	59.4606	0.1215		2.8404	2.8404		2.6591	2.6591		11,646.5321	11,646.5321	2.8657		11,718.1751
Total	**7.2079**	**65.3752**	**59.4606**	**0.1215**	**27.2199**	**2.8404**	**30.0603**	**14.9090**	**2.6591**	**17.5682**		**11,646.5321**	**11,646.5321**	**2.8657**		**11,718.1751**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0435	3.4876	0.8732	0.0156	0.5242	0.0257	0.5500	0.1437	0.0246	0.1683		1,737.1558	1,737.1558	0.1171	0.2767	1,822.5404
Vendor	0.0852	4.9053	1.1066	0.0275	1.1096	0.0346	1.1442	0.3191	0.0331	0.3521		2,979.1869	2,979.1869	0.1189	0.4318	3,110.8352
Worker	0.4794	0.3039	4.9662	0.0184	2.5535	0.0111	2.5646	0.6770	0.0102	0.6872		1,860.4517	1,860.4517	0.0249	0.0354	1,871.6267
Total	**0.6080**	**8.6968**	**6.9460**	**0.0616**	**4.1873**	**0.0714**	**4.2587**	**1.1397**	**0.0679**	**1.2076**		**6,576.7945**	**6,576.7945**	**0.2609**	**0.7439**	**6,805.0022**

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Pipelines27 - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					12.2490	0.0000	12.2490	6.7091	0.0000	6.7091			0.0000			0.0000
Off-Road	1.7587	11.0896	67.4827	0.1215		0.3369	0.3369		0.3263	0.3263	0.0000	11,646.5321	11,646.5321	2.8657		11,718.1751
Total	**1.7587**	**11.0896**	**67.4827**	**0.1215**	**12.2490**	**0.3369**	**12.5858**	**6.7091**	**0.3263**	**7.0354**	**0.0000**	**11,646.5321**	**11,646.5321**	**2.8657**		**11,718.1751**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0435	3.4876	0.8732	0.0156	0.4251	0.0257	0.4508	0.1193	0.0246	0.1439		1,737.1558	1,737.1558	0.1171	0.2767	1,822.5404
Vendor	0.0852	4.9053	1.1066	0.0275	0.9113	0.0346	0.9459	0.2704	0.0331	0.3034		2,979.1869	2,979.1869	0.1189	0.4318	3,110.8352
Worker	0.4794	0.3039	4.9662	0.0184	1.9982	0.0111	2.0093	0.5407	0.0102	0.5509		1,860.4517	1,860.4517	0.0249	0.0354	1,871.6267
Total	**0.6080**	**8.6968**	**6.9460**	**0.0616**	**3.3345**	**0.0714**	**3.4059**	**0.9304**	**0.0679**	**0.9983**		**6,576.7945**	**6,576.7945**	**0.2609**	**0.7439**	**6,805.0022**

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 PumpStationsGrading - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0302	0.0000	6.0302	3.3111	0.0000	3.3111			0.0000			0.0000
Off-Road	1.1904	12.4243	8.4937	0.0206		0.4961	0.4961		0.4564	0.4564		1,995.7975	1,995.7975	0.6455		2,011.9345
Total	**1.1904**	**12.4243**	**8.4937**	**0.0206**	**6.0302**	**0.4961**	**6.5263**	**3.3111**	**0.4564**	**3.7675**		**1,995.7975**	**1,995.7975**	**0.6455**		**2,011.9345**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0203	1.0505	0.2748	5.5800e-003	0.2221	6.9500e-003	0.2290	0.0639	6.6500e-003	0.0705		604.6322	604.6322	0.0241	0.0878	631.3887
Worker	0.0265	0.0156	0.2451	8.2000e-004	0.1118	5.1000e-004	0.1123	0.0296	4.7000e-004	0.0301		82.4509	82.4509	1.6600e-003	1.8700e-003	83.0482
Total	**0.0467**	**1.0661**	**0.5199**	**6.4000e-003**	**0.3339**	**7.4600e-003**	**0.3413**	**0.0935**	**7.1200e-003**	**0.1006**		**687.0830**	**687.0830**	**0.0257**	**0.0896**	**714.4369**

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 PumpStationsGrading - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7136	0.0000	2.7136	1.4900	0.0000	1.4900			0.0000			0.0000
Off-Road	0.2947	1.5862	10.8451	0.0206		0.0553	0.0553		0.0535	0.0535	0.0000	1,995.7975	1,995.7975	0.6455		2,011.9345
Total	**0.2947**	**1.5862**	**10.8451**	**0.0206**	**2.7136**	**0.0553**	**2.7689**	**1.4900**	**0.0535**	**1.5435**	**0.0000**	**1,995.7975**	**1,995.7975**	**0.6455**		**2,011.9345**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0203	1.0505	0.2748	5.5800e-003	0.1824	6.9500e-003	0.1894	0.0541	6.6500e-003	0.0608		604.6322	604.6322	0.0241	0.0878	631.3887
Worker	0.0265	0.0156	0.2451	8.2000e-004	0.0875	5.1000e-004	0.0880	0.0237	4.7000e-004	0.0242		82.4509	82.4509	1.6600e-003	1.8700e-003	83.0482
Total	**0.0467**	**1.0661**	**0.5199**	**6.4000e-003**	**0.2699**	**7.4600e-003**	**0.2774**	**0.0778**	**7.1200e-003**	**0.0849**		**687.0830**	**687.0830**	**0.0257**	**0.0896**	**714.4369**

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 PumpStationsConstruct - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4419	3.9994	4.4906	8.0500e-003		0.1638	0.1638		0.1523	0.1523		759.2233	759.2233	0.2219		764.7696
Total	**0.4419**	**3.9994**	**4.4906**	**8.0500e-003**		**0.1638**	**0.1638**		**0.1523**	**0.1523**		**759.2233**	**759.2233**	**0.2219**		**764.7696**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0571	0.0362	0.5912	2.1900e-003	0.3040	1.3200e-003	0.3053	0.0806	1.2200e-003	0.0818		221.4823	221.4823	2.9700e-003	4.2200e-003	222.8127
Total	**0.0571**	**0.0362**	**0.5912**	**2.1900e-003**	**0.3040**	**1.3200e-003**	**0.3053**	**0.0806**	**1.2200e-003**	**0.0818**		**221.4823**	**221.4823**	**2.9700e-003**	**4.2200e-003**	**222.8127**

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 PumpStationsConstruct - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1164	1.0027	4.9426	8.0500e-003		0.0186	0.0186		0.0181	0.0181	0.0000	759.2233	759.2233	0.2219		764.7696
Total	**0.1164**	**1.0027**	**4.9426**	**8.0500e-003**		**0.0186**	**0.0186**		**0.0181**	**0.0181**	**0.0000**	**759.2233**	**759.2233**	**0.2219**		**764.7696**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0571	0.0362	0.5912	2.1900e-003	0.2379	1.3200e-003	0.2392	0.0644	1.2200e-003	0.0656		221.4823	221.4823	2.9700e-003	4.2200e-003	222.8127
Total	**0.0571**	**0.0362**	**0.5912**	**2.1900e-003**	**0.2379**	**1.3200e-003**	**0.2392**	**0.0644**	**1.2200e-003**	**0.0656**		**221.4823**	**221.4823**	**2.9700e-003**	**4.2200e-003**	**222.8127**

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.11 AWPFGrading - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.6849	0.0000	6.6849	3.3818	0.0000	3.3818			0.0000			0.0000
Off-Road	1.5227	15.3148	14.5402	0.0297		0.6236	0.6236		0.5737	0.5737		2,873.7052	2,873.7052	0.9294		2,896.9405
Total	**1.5227**	**15.3148**	**14.5402**	**0.0297**	**6.6849**	**0.6236**	**7.3085**	**3.3818**	**0.5737**	**3.9555**		**2,873.7052**	**2,873.7052**	**0.9294**		**2,896.9405**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0852	4.9053	1.1066	0.0275	1.1096	0.0346	1.1442	0.3191	0.0331	0.3521		2,979.1869	2,979.1869	0.1189	0.4318	3,110.8352
Worker	0.1058	0.0623	0.9803	3.2600e-003	0.4471	2.0400e-003	0.4492	0.1186	1.8800e-003	0.1205		329.8034	329.8034	6.6400e-003	7.4600e-003	332.1927
Total	**0.1910**	**4.9676**	**2.0869**	**0.0308**	**1.5567**	**0.0366**	**1.5933**	**0.4376**	**0.0349**	**0.4726**		**3,308.9904**	**3,308.9904**	**0.1255**	**0.4393**	**3,443.0279**

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.11 AWPFGrading - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.0082	0.0000	3.0082	1.5218	0.0000	1.5218			0.0000			0.0000
Off-Road	0.4210	2.2308	17.6296	0.0297		0.0779	0.0779		0.0754	0.0754	0.0000	2,873.7052	2,873.7052	0.9294		2,896.9405
Total	**0.4210**	**2.2308**	**17.6296**	**0.0297**	**3.0082**	**0.0779**	**3.0861**	**1.5218**	**0.0754**	**1.5972**	**0.0000**	**2,873.7052**	**2,873.7052**	**0.9294**		**2,896.9405**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0852	4.9053	1.1066	0.0275	0.9113	0.0346	0.9459	0.2704	0.0331	0.3034		2,979.1869	2,979.1869	0.1189	0.4318	3,110.8352
Worker	0.1058	0.0623	0.9803	3.2600e-003	0.3499	2.0400e-003	0.3520	0.0947	1.8800e-003	0.0966		329.8034	329.8034	6.6400e-003	7.4600e-003	332.1927
Total	**0.1910**	**4.9676**	**2.0869**	**0.0308**	**1.2612**	**0.0366**	**1.2978**	**0.3651**	**0.0349**	**0.4000**		**3,308.9904**	**3,308.9904**	**0.1255**	**0.4393**	**3,443.0279**

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.12 AWPFConstruction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0852	4.9053	1.1066	0.0275	1.1096	0.0346	1.1442	0.3191	0.0331	0.3521		2,979.1869	2,979.1869	0.1189	0.4318	3,110.8352
Worker	0.1058	0.0623	0.9803	3.2600e-003	0.4471	2.0400e-003	0.4492	0.1186	1.8800e-003	0.1205		329.8034	329.8034	6.6400e-003	7.4600e-003	332.1927
Total	**0.1910**	**4.9676**	**2.0869**	**0.0308**	**1.5567**	**0.0366**	**1.5933**	**0.4376**	**0.0349**	**0.4726**		**3,308.9904**	**3,308.9904**	**0.1255**	**0.4393**	**3,443.0279**

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.12 AWPFConstruction - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3633	2.6497	17.3850	0.0270		0.0583	0.0583		0.0572	0.0572	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**0.3633**	**2.6497**	**17.3850**	**0.0270**		**0.0583**	**0.0583**		**0.0572**	**0.0572**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0852	4.9053	1.1066	0.0275	0.9113	0.0346	0.9459	0.2704	0.0331	0.3034		2,979.1869	2,979.1869	0.1189	0.4318	3,110.8352
Worker	0.1058	0.0623	0.9803	3.2600e-003	0.3499	2.0400e-003	0.3520	0.0947	1.8800e-003	0.0966		329.8034	329.8034	6.6400e-003	7.4600e-003	332.1927
Total	**0.1910**	**4.9676**	**2.0869**	**0.0308**	**1.2612**	**0.0366**	**1.2978**	**0.3651**	**0.0349**	**0.4000**		**3,308.9904**	**3,308.9904**	**0.1255**	**0.4393**	**3,443.0279**

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.13 WellheadGrading - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3182	0.0000	0.3182	0.0344	0.0000	0.0344			0.0000			0.0000
Off-Road	0.8630	9.1903	9.0802	0.0193		0.3292	0.3292		0.3028	0.3028		1,866.5270	1,866.5270	0.6037		1,881.6188
Total	**0.8630**	**9.1903**	**9.0802**	**0.0193**	**0.3182**	**0.3292**	**0.6473**	**0.0344**	**0.3028**	**0.3372**		**1,866.5270**	**1,866.5270**	**0.6037**		**1,881.6188**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0529	0.0312	0.4901	1.6300e-003	0.2236	1.0200e-003	0.2246	0.0593	9.4000e-004	0.0602		164.9017	164.9017	3.3200e-003	3.7300e-003	166.0964
Total	**0.0529**	**0.0312**	**0.4901**	**1.6300e-003**	**0.2236**	**1.0200e-003**	**0.2246**	**0.0593**	**9.4000e-004**	**0.0602**		**164.9017**	**164.9017**	**3.3200e-003**	**3.7300e-003**	**166.0964**

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.13 WellheadGrading - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1432	0.0000	0.1432	0.0155	0.0000	0.0155			0.0000			0.0000
Off-Road	0.2526	1.2318	11.4683	0.0193		0.0402	0.0402		0.0395	0.0395	0.0000	1,866.5270	1,866.5270	0.6037		1,881.6188
Total	**0.2526**	**1.2318**	**11.4683**	**0.0193**	**0.1432**	**0.0402**	**0.1834**	**0.0155**	**0.0395**	**0.0549**	**0.0000**	**1,866.5270**	**1,866.5270**	**0.6037**		**1,881.6188**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0529	0.0312	0.4901	1.6300e-003	0.1750	1.0200e-003	0.1760	0.0474	9.4000e-004	0.0483		164.9017	164.9017	3.3200e-003	3.7300e-003	166.0964
Total	**0.0529**	**0.0312**	**0.4901**	**1.6300e-003**	**0.1750**	**1.0200e-003**	**0.1760**	**0.0474**	**9.4000e-004**	**0.0483**		**164.9017**	**164.9017**	**3.3200e-003**	**3.7300e-003**	**166.0964**

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.14 WellheadConstruct - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3257	12.1385	15.4372	0.0266		0.4990	0.4990		0.4699	0.4699		2,517.5523	2,517.5523	0.5884		2,532.2613
Total	**1.3257**	**12.1385**	**15.4372**	**0.0266**		**0.4990**	**0.4990**		**0.4699**	**0.4699**		**2,517.5523**	**2,517.5523**	**0.5884**		**2,532.2613**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0568	3.2702	0.7377	0.0183	0.7397	0.0230	0.7628	0.2127	0.0220	0.2348		1,986.1246	1,986.1246	0.0792	0.2879	2,073.8901
Worker	0.0657	0.0398	0.6352	2.2100e-003	0.3041	1.3600e-003	0.3054	0.0806	1.2500e-003	0.0819		223.1521	223.1521	3.8700e-003	4.7100e-003	224.6538
Total	**0.1225**	**3.3100**	**1.3729**	**0.0205**	**1.0438**	**0.0244**	**1.0682**	**0.2933**	**0.0233**	**0.3166**		**2,209.2767**	**2,209.2767**	**0.0831**	**0.2926**	**2,298.5440**

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.14 WellheadConstruct - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3618	2.6716	16.8379	0.0266		0.0595	0.0595		0.0582	0.0582	0.0000	2,517.5523	2,517.5523	0.5884		2,532.2613
Total	**0.3618**	**2.6716**	**16.8379**	**0.0266**		**0.0595**	**0.0595**		**0.0582**	**0.0582**	**0.0000**	**2,517.5523**	**2,517.5523**	**0.5884**		**2,532.2613**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0568	3.2702	0.7377	0.0183	0.6075	0.0230	0.6306	0.1803	0.0220	0.2023		1,986.1246	1,986.1246	0.0792	0.2879	2,073.8901
Worker	0.0657	0.0398	0.6352	2.2100e-003	0.2380	1.3600e-003	0.2393	0.0644	1.2500e-003	0.0657		223.1521	223.1521	3.8700e-003	4.7100e-003	224.6538
Total	**0.1225**	**3.3100**	**1.3729**	**0.0205**	**0.8455**	**0.0244**	**0.8699**	**0.2447**	**0.0233**	**0.2680**		**2,209.2767**	**2,209.2767**	**0.0831**	**0.2926**	**2,298.5440**

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.15 StorageResGrading - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.4463	0.0000	6.4463	3.3560	0.0000	3.3560			0.0000			0.0000
Off-Road	1.5227	15.3148	14.5402	0.0297		0.6236	0.6236		0.5737	0.5737		2,873.7052	2,873.7052	0.9294		2,896.9405
Total	**1.5227**	**15.3148**	**14.5402**	**0.0297**	**6.4463**	**0.6236**	**7.0699**	**3.3560**	**0.5737**	**3.9297**		**2,873.7052**	**2,873.7052**	**0.9294**		**2,896.9405**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2041	17.1597	4.1449	0.0779	2.6208	0.1285	2.7493	0.7181	0.1229	0.8410		8,647.1367	8,647.1367	0.5842	1.3774	9,072.2091
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0789	0.0477	0.7622	2.6500e-003	0.3649	1.6300e-003	0.3665	0.0968	1.5000e-003	0.0983		267.7825	267.7825	4.6400e-003	5.6600e-003	269.5846
Total	**0.2830**	**17.2074**	**4.9071**	**0.0805**	**2.9857**	**0.1301**	**3.1158**	**0.8149**	**0.1244**	**0.9393**		**8,914.9192**	**8,914.9192**	**0.5889**	**1.3831**	**9,341.7937**

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.15 StorageResGrading - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.9008	0.0000	2.9008	1.5102	0.0000	1.5102			0.0000			0.0000
Off-Road	0.4210	2.2308	17.6296	0.0297		0.0779	0.0779		0.0754	0.0754	0.0000	2,873.7052	2,873.7052	0.9294		2,896.9405
Total	**0.4210**	**2.2308**	**17.6296**	**0.0297**	**2.9008**	**0.0779**	**2.9788**	**1.5102**	**0.0754**	**1.5856**	**0.0000**	**2,873.7052**	**2,873.7052**	**0.9294**		**2,896.9405**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2041	17.1597	4.1449	0.0779	2.1250	0.1285	2.2535	0.5964	0.1229	0.7193		8,647.1367	8,647.1367	0.5842	1.3774	9,072.2091
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0789	0.0477	0.7622	2.6500e-003	0.2856	1.6300e-003	0.2872	0.0773	1.5000e-003	0.0788		267.7825	267.7825	4.6400e-003	5.6600e-003	269.5846
Total	**0.2830**	**17.2074**	**4.9071**	**0.0805**	**2.4106**	**0.1301**	**2.5407**	**0.6737**	**0.1244**	**0.7981**		**8,914.9192**	**8,914.9192**	**0.5889**	**1.3831**	**9,341.7937**

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.16 StorageResConstruct - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0789	0.0477	0.7622	2.6500e-003	0.3649	1.6300e-003	0.3665	0.0968	1.5000e-003	0.0983		267.7825	267.7825	4.6400e-003	5.6600e-003	269.5846
Total	**0.0789**	**0.0477**	**0.7622**	**2.6500e-003**	**0.3649**	**1.6300e-003**	**0.3665**	**0.0968**	**1.5000e-003**	**0.0983**		**267.7825**	**267.7825**	**4.6400e-003**	**5.6600e-003**	**269.5846**

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.16 StorageResConstruct - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3633	2.6497	17.3850	0.0270		0.0583	0.0583		0.0572	0.0572	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**0.3633**	**2.6497**	**17.3850**	**0.0270**		**0.0583**	**0.0583**		**0.0572**	**0.0572**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0789	0.0477	0.7622	2.6500e-003	0.2856	1.6300e-003	0.2872	0.0773	1.5000e-003	0.0788		267.7825	267.7825	4.6400e-003	5.6600e-003	269.5846
Total	**0.0789**	**0.0477**	**0.7622**	**2.6500e-003**	**0.2856**	**1.6300e-003**	**0.2872**	**0.0773**	**1.5000e-003**	**0.0788**		**267.7825**	**267.7825**	**4.6400e-003**	**5.6600e-003**	**269.5846**

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.17 StorageResPaving - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8197	7.5321	12.1778	0.0189		0.3524	0.3524		0.3259	0.3259		1,805.3926	1,805.3926	0.5673		1,819.5741
Paving	6.3509					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**7.1706**	**7.5321**	**12.1778**	**0.0189**		**0.3524**	**0.3524**		**0.3259**	**0.3259**		**1,805.3926**	**1,805.3926**	**0.5673**		**1,819.5741**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0789	0.0477	0.7622	2.6500e-003	0.3649	1.6300e-003	0.3665	0.0968	1.5000e-003	0.0983		267.7825	267.7825	4.6400e-003	5.6600e-003	269.5846
Total	**0.0789**	**0.0477**	**0.7622**	**2.6500e-003**	**0.3649**	**1.6300e-003**	**0.3665**	**0.0968**	**1.5000e-003**	**0.0983**		**267.7825**	**267.7825**	**4.6400e-003**	**5.6600e-003**	**269.5846**

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.17 StorageResPaving - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2432	1.2327	13.4633	0.0189		0.0434	0.0434		0.0421	0.0421	0.0000	1,805.3926	1,805.3926	0.5673		1,819.5741
Paving	6.3509					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**6.5941**	**1.2327**	**13.4633**	**0.0189**		**0.0434**	**0.0434**		**0.0421**	**0.0421**	**0.0000**	**1,805.3926**	**1,805.3926**	**0.5673**		**1,819.5741**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0789	0.0477	0.7622	2.6500e-003	0.2856	1.6300e-003	0.2872	0.0773	1.5000e-003	0.0788		267.7825	267.7825	4.6400e-003	5.6600e-003	269.5846
Total	**0.0789**	**0.0477**	**0.7622**	**2.6500e-003**	**0.2856**	**1.6300e-003**	**0.2872**	**0.0773**	**1.5000e-003**	**0.0788**		**267.7825**	**267.7825**	**4.6400e-003**	**5.6600e-003**	**269.5846**

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.18 WellheadPaving - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7465	6.8132	11.2492	0.0178		0.3285	0.3285		0.3034	0.3034		1,706.7780	1,706.7780	0.5407		1,720.2942
Paving	3.1754					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**3.9220**	**6.8132**	**11.2492**	**0.0178**		**0.3285**	**0.3285**		**0.3034**	**0.3034**		**1,706.7780**	**1,706.7780**	**0.5407**		**1,720.2942**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0657	0.0398	0.6352	2.2100e-003	0.3041	1.3600e-003	0.3054	0.0806	1.2500e-003	0.0819		223.1521	223.1521	3.8700e-003	4.7100e-003	224.6538
Total	**0.0657**	**0.0398**	**0.6352**	**2.2100e-003**	**0.3041**	**1.3600e-003**	**0.3054**	**0.0806**	**1.2500e-003**	**0.0819**		**223.1521**	**223.1521**	**3.8700e-003**	**4.7100e-003**	**224.6538**

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.18 WellheadPaving - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2327	1.1495	12.9316	0.0178		0.0402	0.0402		0.0393	0.0393	0.0000	1,706.7780	1,706.7780	0.5407		1,720.2942
Paving	3.1754					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**3.4081**	**1.1495**	**12.9316**	**0.0178**		**0.0402**	**0.0402**		**0.0393**	**0.0393**	**0.0000**	**1,706.7780**	**1,706.7780**	**0.5407**		**1,720.2942**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0657	0.0398	0.6352	2.2100e-003	0.2380	1.3600e-003	0.2393	0.0644	1.2500e-003	0.0657		223.1521	223.1521	3.8700e-003	4.7100e-003	224.6538
Total	**0.0657**	**0.0398**	**0.6352**	**2.2100e-003**	**0.2380**	**1.3600e-003**	**0.2393**	**0.0644**	**1.2500e-003**	**0.0657**		**223.1521**	**223.1521**	**3.8700e-003**	**4.7100e-003**	**224.6538**

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.19 AWPFPaving - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8498	7.7205	12.3356	0.0193		0.3597	0.3597		0.3332	0.3332		1,831.2521	1,831.2521	0.5700		1,845.5007
Paving	3.5283					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**4.3781**	**7.7205**	**12.3356**	**0.0193**		**0.3597**	**0.3597**		**0.3332**	**0.3332**		**1,831.2521**	**1,831.2521**	**0.5700**		**1,845.5007**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1058	0.0623	0.9803	3.2600e-003	0.4471	2.0400e-003	0.4492	0.1186	1.8800e-003	0.1205		329.8034	329.8034	6.6400e-003	7.4600e-003	332.1927
Total	**0.1058**	**0.0623**	**0.9803**	**3.2600e-003**	**0.4471**	**2.0400e-003**	**0.4492**	**0.1186**	**1.8800e-003**	**0.1205**		**329.8034**	**329.8034**	**6.6400e-003**	**7.4600e-003**	**332.1927**

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.19 AWPFPaving - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2453	1.2459	13.4744	0.0193		0.0439	0.0439		0.0427	0.0427	0.0000	1,831.2521	1,831.2521	0.5700		1,845.5007
Paving	3.5283					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**3.7736**	**1.2459**	**13.4744**	**0.0193**		**0.0439**	**0.0439**		**0.0427**	**0.0427**	**0.0000**	**1,831.2521**	**1,831.2521**	**0.5700**		**1,845.5007**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1058	0.0623	0.9803	3.2600e-003	0.3499	2.0400e-003	0.3520	0.0947	1.8800e-003	0.0966		329.8034	329.8034	6.6400e-003	7.4600e-003	332.1927
Total	**0.1058**	**0.0623**	**0.9803**	**3.2600e-003**	**0.3499**	**2.0400e-003**	**0.3520**	**0.0947**	**1.8800e-003**	**0.0966**		**329.8034**	**329.8034**	**6.6400e-003**	**7.4600e-003**	**332.1927**

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.540005	0.063885	0.187129	0.126392	0.023842	0.006753	0.012641	0.008546	0.000821	0.000486	0.025267	0.000753	0.003480
Refrigerated Warehouse-No Rail	0.540005	0.063885	0.187129	0.126392	0.023842	0.006753	0.012641	0.008546	0.000821	0.000486	0.025267	0.000753	0.003480
Unrefrigerated Warehouse-No Rail	0.540005	0.063885	0.187129	0.126392	0.023842	0.006753	0.012641	0.008546	0.000821	0.000486	0.025267	0.000753	0.003480

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	30.4348	2.3700e-003	0.2620	2.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004		0.5631	0.5631	1.4600e-003		0.5997
Unmitigated	30.4348	2.3700e-003	0.2620	2.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004		0.5631	0.5631	1.4600e-003		0.5997

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	30.4106					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0241	2.3700e-003	0.2620	2.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004		0.5631	0.5631	1.4600e-003		0.5997
Total	**30.4348**	**2.3700e-003**	**0.2620**	**2.0000e-005**		**9.3000e-004**	**9.3000e-004**		**9.3000e-004**	**9.3000e-004**		**0.5631**	**0.5631**	**1.4600e-003**		**0.5997**

Chino Basin Program - Construction - South Coast Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	30.4106					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0241	2.3700e-003	0.2620	2.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004		0.5631	0.5631	1.4600e-003		0.5997
Total	**30.4348**	**2.3700e-003**	**0.2620**	**2.0000e-005**		**9.3000e-004**	**9.3000e-004**		**9.3000e-004**	**9.3000e-004**		**0.5631**	**0.5631**	**1.4600e-003**		**0.5997**

7.0 Water Detail

7.1 Mitigation Measures Water

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

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