

Table 2-3. Climate Change/CO₂ Reduction Strategies

Strategy	Program	Partnership		Method/Process	Estimated CO ₂ Savings Million Metric Tons (MMT)	
		Lead	Agency		2010	2020
Smart Land Use	Intergovernmental Review (IGR)	Caltrans	Local governments	Review and seek to mitigate development proposals	Not Estimated	Not Estimated
	Planning Grants	Caltrans	Local and regional agencies & other stakeholders	Competitive selection process	Not Estimated	Not Estimated
	Regional Plans and Blueprint Planning	Regional Agencies	Caltrans	Regional plans and application process	0.975	7.8
Operational Improvements & Intelligent Transportation System (ITS) Deployment	Strategic Growth Plan	Caltrans	Regions	State ITS; Congestion Management Plan	0.07	2.17
Mainstream Energy & GHG into Plans and Projects	Office of Policy Analysis & Research; Division of Environmental Analysis	Interdepartmental effort		Policy establishment, guidelines, technical assistance	Not Estimated	Not Estimated
Educational & Information Program	Office of Policy Analysis & Research	Interdepartmental, CalEPA, ARB, CEC		Analytical report, data collection, publication, workshops, outreach	Not Estimated	Not Estimated
Fleet Greening & Fuel Diversification	Division of Equipment	Department of General Services		Fleet Replacement B20 B100	.0045	0.0065 0.045 0.0225
Non-vehicular Conservation Measures	Energy Conservation Program	Green Action Team		Energy Conservation Opportunities	0.117	0.34
Portland Cement	Office of Rigid Pavement	Cement and Construction Industries		2.5 % limestone cement mix	1.2	4.2
				25% fly ash cement mix	0.36	3.6
				> 50% fly ash/slag mix		
Goods Movement	Office of Goods Movement	Cal EPA, ARB, BT&H, MPOs		Goods Movement Action Plan	Not Estimated	Not Estimated
Total					2.72	18.18

Caltrans Director's Policy 30 (DP-30) Climate Change (June 22, 2012): is intended to establish a Department policy that will ensure coordinated efforts to incorporate climate change into Departmental decisions and activities.

Caltrans Activities to Address Climate Change (April 2013)¹³ provides a comprehensive overview of activities undertaken by Caltrans statewide to reduce greenhouse gas emissions resulting from agency operations.

The following measures will be implemented as benefits under other sections in this Initial Study to reduce the GHG emissions and potential climate change impacts from the project:

1. The Department and the California Highway Patrol are working with regional agencies to implement intelligent transportation systems (ITS) to manage the efficiency of the existing highway system. ITS is commonly referred to as electronics, communications, or information processing, used singly or in combination, to improve the efficiency or safety of a surface transportation system. This is included under Public Services (Section 2.14) in Measure **PS-2**.
2. Landscaping reduces surface warming and, through photosynthesis, decreases CO₂. The project proposes planting in the intersection slopes and drainage channels and seeding in areas adjacent to frontage roads. Planting a variety plant material and scattered skyline trees of different sizes, where appropriate, would not obstruct views of the mountains. This is included under Aesthetics (Section 2.1) in Measure **AES-5**.
3. The project would incorporate the use of energy-efficient lighting, such as LED traffic signals. LED bulbs—or balls, in the stoplight vernacular—cost \$60 to \$70 apiece but last five to six years compared with the one-year average lifespan of the incandescent bulbs that were previously used. The LED balls themselves consume 10 percent of the electricity of traditional lights, which will also help reduce the project’s CO₂ emissions.¹⁴ This is included under Public Services (Section 2.14) in Measure **PS-2**.
4. According to the Department’s Standard Specification Provisions, the contractor must comply with all local Air Pollution Control District’s (APCD) rules, ordinances, and regulations regarding air quality restrictions. This is included under Air Quality (Section 2.3) in Measures **AQ-1, AQ-2, AQ-4, and AQ-6**.

Adaptation Strategies

“Adaptation strategies” refer to how the Department and others can plan for the effects of climate change on the state’s transportation infrastructure and strengthen or protect the facilities from damage. Climate change is expected to produce increased variability in precipitation, rising temperatures, rising sea levels, variability in storm surges and intensity, and the frequency and intensity of wildfires. These changes may affect the transportation infrastructure in various ways, such as damage to roadbeds from longer periods of intense heat; increasing storm damage from flooding and erosion; and inundation from rising sea levels. These effects will vary by location and may, in the most extreme cases, require that a facility be relocated or redesigned. There may also be economic and strategic ramifications as a result of these types of impacts to the transportation infrastructure.

¹³ http://www.dot.ca.gov/hq/tpp/offices/orip/climate_change/projects_and_studies.shtml

¹⁴ Knoxville Business Journal, “LED Lights Pay for Themselves,” May 19, 2008 at <http://www.knoxnews.com/news/2008/may/19/led-traffic-lights-pay-themselves/>.

Climate change adaptation must also involve the natural environment as well. Efforts are underway on a statewide-level to develop strategies to cope with impacts to habitat and biodiversity through planning and conservation. The results of these efforts will help California agencies plan and implement mitigation strategies for programs and projects.

On November 14, 2008, then-Governor Arnold Schwarzenegger signed EO S-13-08 which directed a number of state agencies to address California's vulnerability to sea level rise caused by climate change. This EO set in motion several agencies and actions to address the concern of sea level rise.

All state agencies that are planning to construct projects in areas vulnerable to future sea level rise are directed to consider a range of sea level rise scenarios for the years 2050 and 2100 to assess project vulnerability and, to the extent feasible, reduce expected risks and increase resiliency to sea level rise. Sea level rise estimates should also be used in conjunction with information on local uplift and subsidence, coastal erosion rates, predicted higher high water levels, storm surge and storm wave data

All projects that have filed a Notice of Preparation (NOP) as of the date of the EO S-13-08, and/or are programmed for construction funding through 2013, or are routine maintenance projects may, but are not required to, consider these planning guidelines.

The proposed project is programmed for construction funding after 2013. As such, it is not exempt at this time from requirements to analyze the impacts of sea-level rise directed in Executive Order S-13-08. The Vulnerability of Transportation Systems to Sea-Level Rise (Caltrans 2009) report suggests that by 2100, sea-level rise along the California coast could be as much as 55 inches. Given the proposed project's distance from the coastal zone, impacts related to sea-level rise are not expected.

Executive Order S-13-08 also directed the Business, Transportation, and Housing Agency to prepare a report to assess vulnerability of transportation systems to sea level rise affecting safety, maintenance and operational improvements of the system, and economy of the state. The Department continues to work on assessing the transportation system vulnerability to climate change, including the effect of sea level rise.

2.9 Hazards and Hazardous Materials

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
VIII. HAZARDS AND HAZARDOUS MATERIALS: Would the project:				
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
g) Impair implementation of, or physically interfere with an adopted emergency response plan or emergency evacuation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
h) Expose people or structures to a significant risk of loss, injury or death involving wildland fires; including where wildlands are adjacent to urbanized areas, or where residences are intermixed with wildlands?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Regulatory Setting

Hazardous materials, including hazardous substances and wastes, are regulated by many state and federal laws. Statutes govern the generation, treatment, storage and disposal of hazardous materials, substances, and waste, and also the investigation and mitigation of waste releases, air and water quality, human health and land use.

The primary federal laws regulating hazardous wastes/materials are the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) and the Resource Conservation and Recovery Act of 1976 (RCRA). The purpose of CERCLA, often referred to as “Superfund,” is to identify and clean up abandoned contaminated sites so that public health and welfare are not compromised. The RCRA provides for “cradle to grave” regulation of hazardous waste generated by operating entities. Other federal laws include:

- Community Environmental Response Facilitation Act (CERFA) of 1992

- Clean Water Act
- Clean Air Act
- Safe Drinking Water Act
- Occupational Safety and Health Act (OSHA)
- Atomic Energy Act
- Toxic Substances Control Act (TSCA)
- Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA)

In addition to the acts listed above, Executive Order (EO) 12088, *Federal Compliance with Pollution Control Standards*, mandates that necessary actions be taken to prevent and control environmental pollution when federal activities or federal facilities are involved.

California regulates hazardous materials, waste, and substances under the authority of the CA Health and Safety Code and is also authorized by the federal government to implement RCRA in the state. California law also addresses specific handling, storage, transportation, disposal, treatment, reduction, cleanup and emergency planning of hazardous waste. The Porter-Cologne Water Quality Control Act also restricts disposal of wastes and requires clean up of wastes that are below hazardous waste concentrations but could impact ground and surface water quality. California regulations that address waste management and prevention and clean up contamination include Title 22 Division 4.5 Environmental Health Standards for the Management of Hazardous Waste, Title 23 Waters, and Title 27 Environmental Protection.

Worker and public health and safety are key issues when addressing hazardous materials that may affect human health and the environment. Proper management and disposal of hazardous material is vital if it is found, disturbed, or generated during project construction.

2.9.1 Discussion of Environmental Evaluation Question 2.8 – Hazards and Hazardous Materials

The information used in this section is from the August 2013 *Hazardous Waste Initial Site Assessment (ISA) for the I-15/Limonite Avenue Interchange Improvement Project* (Dokken 2013a), December 2015 *I-15 Limonite Interchange Improvement Project Initial Site Assessment Addendum Memorandum* (Dokken 2015), August 2013 *Final Aerially Deposited Lead Report* (Dokken 2013e), *City of Eastvale General Plan* (June 2012), and *Riverside County General Plan* (2013)¹⁵.

¹⁵ The Riverside County General Plan was officially adopted in October 2003, and is currently undergoing revisions. For purposes of this IS, the online version of the General Plan, which has an effective date of August 20, 2013, was utilized and referenced.

- a) **Less than Significant Impact:** According to the ISA and ISA Addendum Memorandum, several Recognized Environmental Conditions (RECs) are located within the proposed project boundaries, as described in Table 2-4. None of the RECs within the project area have Activity and Use Limitations (AULs).

Table 2-4. Recognized Environmental Conditions

Location	Description of REC Evidence Found
Limonite Avenue bridge structure over I-15	Potential for Asbestos Containing Materials (ACM). New uses of ACM were banned by the EPA in 1989. Revisions to regulations issued by the Occupational Safety & Health Administration (OSHA) on June 30, 1995, require that all thermal systems insulation, surfacing materials, and resilient flooring materials installed prior to 1981 be considered Presumed Asbestos Containing Materials (PAC) and treated accordingly. In order to rebut the designation as PAC, OSHA requires that these materials be surveyed, sampled, and assessed in accordance with 40 CFR 763 (Asbestos Hazard Emergency Response Act [AHERA]). ACM have also been documented in the rail shim sheet packing, bearing pads, support piers, and expansion joint material of bridges.
Existing roadways within project boundaries including I-15 and associated on- and off-ramps to Limonite Avenue, Hamner Avenue, Wineville Avenue, and the Park & Ride facility within the project boundaries.	Potential lead and heavy metals associated with pavement striping. Implementation of improvements may require the removal and disposal of yellow traffic stripe and pavement marking materials (paint, thermoplastic, permanent tape, and temporary tape). Yellow paints made prior to 1995 may exceed hazardous waste criteria under Title 22, California Code of Regulations, and require disposal in a Class I disposal site.
Various pole- and pad-mounted electrical transformers within or immediately adjacent to the project boundaries.	Potential polychlorinated biphenyls (PCB)'s in pole- or pad-mounted electrical transformers. As of the date of the ISA, the existence and/or levels of PCB's associated with the pole- or pad-mounted electrical transformers, which may be encountered within the planned construction area, had not been determined.
The Gas Company high pressure gas pipeline located adjacent to, and parallel to the north side of Limonite Avenue (just west of I-15 and eastward) and crossing to Limonite to parallel the south side of Limonite Avenue westward beyond Hamner Avenue.	Potential explosive hazard associated with The Gas Company pipeline should construction activities extend into the pipeline easement.
Chevron gas station (located at the southwest quadrant of the intersection of Eastvale Gateway and Limonite Avenue), Ralphs gas station (located in the southwest quadrant of the intersection of Limonite Avenue and Hamner Avenue), and Vons gas station (located off the east side of Hamner Avenue approximately 700 feet north of Limonite Avenue).	Potential for underground fuel storage tank leaks from existing gas stations and other businesses that store fuel within or near to the project boundaries. At the time of the ISA, there was no documented evidence of soil or groundwater contamination associated with the existing gas stations adjacent to, or near the project study area.
Median of I-15 at Limonite Avenue Overcrossing	Intermittent soil staining observed along unpaved shoulder and median.
Source: Dokken Engineering 2013, 2015	

Soil samples from the project area were collected and analyzed for aerially deposited lead (ADL) and agricultural chemicals. None of the soil samples within the Limonite Interchange Project area were found to contain lead concentrations that exceeded the total threshold limit

concentrations (TTLC) of 50 milligrams per kilogram (mg/kg). It was concluded that the soil does not represent significant environmental or health hazards, and according to the Department of Toxic Substances Control (DTSC) variance issued to the Department, can be classified as soil type X, non-hazardous, and can be reused on site. Based on a site reconnaissance, potential RECs within the project boundaries included potential pesticide and herbicide residuals in soils at agricultural properties. Soil samples were acquired from the affected agricultural parcels and analyzed in the laboratory for the presence and levels of agricultural chemicals. Four soil samples were acquired and sent to the laboratory. No agricultural chemicals were detected at or above the reporting limit from the four samples acquired from the agricultural parcels (Assessor's Parcel Numbers [APNs] 160-050-031, 160-050-050, and 160-050-049). Results of the laboratory analysis of the soil samples utilized U.S. EPA or other Environmental Laboratory Accreditation Program (ELAP) approved methodologies. Field sampling of asbestos and traffic striping paint was collected and analyzed in a laboratory. The results indicated that no asbestos was detected in the samples collected from the survey and traffic striping paint sampled during the survey would not be considered California or Federal hazardous based on lead and other metal content.

As no asbestos was detected from the field samples, the Cal/OSHA asbestos standards do not apply for planned activities. Demolition debris would not be considered a California hazardous waste based on asbestos content. Regardless of whether asbestos is present or not, written notification to the South Coast Air Quality Management District is required ten working days prior to commencement of any demolition activities. Furthermore, traffic striping paint sampled and tested would not be considered hazardous, however, it is recommended that all paints be treated as lead-containing for purposes of determining the applicability of the Cal/OSHA lead standard during maintenance, renovation, and demolition activities. This recommendation is based on the fact that lead was a common ingredient of paints manufactured before 1978 and is still an ingredient of some paints. Standard measures and recommendations to address hazardous waste/materials are included in Section 2.8.2 below.

b) Less than Significant Impact: As discussed under Response (a), the proposed project would not involve hazardous materials, and no hazard to the public or environment is foreseen. Field sampling of asbestos and traffic striping paint was collected and analyzed in a laboratory. The results indicated that no asbestos was detected in the samples collected. Regardless of whether asbestos is present or not, written notification to the South Coast Air Quality Management District is required ten working days prior to commencement of any demolition activities. Traffic striping paint sampled during the survey would not be considered California or Federal hazardous based on lead and other metal content. However, it is recommended that all paints be treated as lead-containing for purposes of determining the applicability of the Cal/OSHA lead standard during maintenance, renovation, and demolition activities. This recommendation is based on the fact that lead was a common ingredient of paints manufactured before 1978 and is still an ingredient of some paints. Compliance with state and federal regulations would make this a less than significant impact. Standard measures and recommendations to address hazardous waste/materials are included in Section 2.8.2 below.

c) No Impact: There are no schools within one mile of the proposed project; therefore, the

proposed project would not emit or handle hazardous substances within one-quarter mile of a school site.

- d) **No Impact:** Government Code 65962.5 is known as the Cortese List. The Cortese database identifies public drinking water wells with detectable levels of contamination, hazardous substance sites selected for remedial action, sites with Underground Storage Tanks (USTs) having a reportable release and all solid waste disposal facilities from which there is known migration. A review of the Environmental Data Resources (EDR) report listing known hazardous substance sites within one mile of the project area was conducted as part of the ISA and ISA Addendum Memorandum preparation. The ISA indicated two Cortese sites were reported within a one-mile radius of the project area. Neither of these sites is located within or adjacent to the project area. The first was a gasoline spill at 5800 Hamner Avenue (Swan Lake Texaco). The case has since been cleaned up and closed and is not considered a REC. The second site is at 6500 Hamner Avenue (Western Sky Dairy). No release or cleanup information was reported. The site is not considered an REC for the proposed project. The ISA Addendum Memorandum indicated seven new sites within one mile of the project site. No violations were reported for the seven sites. Therefore, the proposed project is not located on a site included on a list compiled pursuant to Government Code 65962.5, and no impact would result.
- e) **No Impact:** The proposed project is located outside of the easternmost boundary of the Chino Airport Influence Area. The proposed project would not result in a safety hazard for people residing or working in the area.
- f) **No Impact:** The proposed project is not within the vicinity of a private airstrip; therefore, no impact would occur.
- g) **Less than Significant Impact:** The proposed project would improve the ability of emergency service providers to serve the community as it would reduce congestion in the interchange area, which would likely reduce response times for these services. Therefore, it would not interfere with an emergency response or evacuation plan. However, emergency response times could increase temporarily during construction of the proposed project due to increased congestion in the area of the Limonite Interchange, which could interfere with emergency response and evacuation plans. This impact would be temporary and would be less than significant with the implementation of a Traffic Management Plan (TMP).
- h) **No Impact:** The proposed project would improve an existing interchange and would not expose people to a greater risk of loss, injury, or death due to wildland fires than presently exists.

2.9.2 Avoidance, Minimization, and/or Mitigation Measures

No mitigation is required; however, the following avoidance and/or minimization measures will be implemented to minimize potential impacts:

- **HAZ-1:** To avoid impacts from pavement striping during construction, testing and removal requirements for yellow striping and pavement marking materials shall be performed in accordance with the Department's Standard Special Provision 15-2.02C(2) "REMOVE TRAFFIC STRIPES AND PAVEMENT MARKINGS CONTAINING LEAD". This Standard Special Provision requires a lead compliance plan for removal when residue is non-

hazardous.

- **HAZ-2:** Any leaking transformers observed during the course of the project shall be considered a potential PCB hazard. Should leaks from electrical transformers (that will either remain within the construction limits or will require the removal and/or relocation) be encountered during construction, the transformer fluid shall be sampled and analyzed by qualified personnel for detectable levels of PCBs. Should PCBs be detected, the transformer shall be removed and disposed of in accordance with Title 22, Division 4.5 of the California Code of Regulations and any other appropriate regulatory agency. Any stained soil encountered below electrical transformers with detectable levels of PCBs shall also be handled and disposed of in accordance with Title 22, Division 4.5 of the California Code of Regulations and any other appropriate regulatory agency.
- **HAZ-3:** Based on preliminary plans, right of way acquisition is not expected at the Chevron Gas Station, which is immediately adjacent to the project on the southwest corner of Limonite Avenue and Eastvale Gateway. Should final plans indicate that a portion of this parcel will be acquired for new right of way, a preliminary environmental screening (limited subsurface sampling and laboratory analysis) shall be performed for potentially elevated levels of petroleum hydrocarbons and methyl tertiary butyl ether (MTBE) contamination within the limits of proposed construction, and/or right of way acquisition, adjacent to the existing Chevron Gas Station. Should the preliminary screening encounter elevated levels of petroleum hydrocarbons and/or MTBE, a limited Phase II ISA shall be performed. The Phase II ISA shall consist of subsurface sampling and laboratory analysis and be of sufficient quantity to define the extent and concentration of contamination within the areal extent and depths of planned construction activities adjacent to the existing Chevron Gas Station. The Phase II ISA shall also provide both a Health and Safety Plan for worker safety and a Work Plan for handling and disposing contaminated soil during construction.
- **HAZ-4:** Should any previously unknown hazardous waste/material be encountered during construction, the Department's *Hazards Procedures for Construction* shall be followed.
- **HAZ-5:** In accordance with Section 112 of the Clean Air Act, which established the National Emission Standards for Hazardous Air Pollutants (NESHAP), specific work practices will be followed during demolitions and renovations of all facilities. As such, written notification to the South Coast Air Quality Management District is required ten working days prior to commencement of any demolition.

2.10 Hydrology and Water Quality

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
IX. HYDROLOGY AND WATER QUALITY: Would the project:				
a) Violate any water quality standards or waste discharge requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Substantially deplete groundwater supplies or interfere substantially with groundwater recharge, such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or off-site?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e) Create or contribute runoff water, which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f) Otherwise substantially degrade water quality?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
g) Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map, or other flood hazard delineation map?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
h) Place within a 100-year flood hazard area, structures which would impede or redirect flood flows?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
i) Expose people or structures to a significant risk of loss, injury, or death involving flooding; including flooding as a result of the failure of a levee or dam?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
j) Inundation by seiche, tsunamis, or mudflow?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Regulatory Setting

Federal Requirements: Clean Water Act

In 1972, Congress amended the Federal Water Pollution Control Act, making the addition of pollutants to the waters of the United States (U.S.) from any point source¹⁶ unlawful unless the discharge is in compliance with a National Pollutant Discharge Elimination System (NPDES) permit. This act and its amendments are known today as the Clean Water Act (CWA). Congress has amended the act several times. In the 1987 amendments, Congress directed dischargers of

¹⁶ A point source is any discrete conveyance such as a pipe or a man-made ditch.

storm water from municipal and industrial/construction point sources to comply with the NPDES permit scheme. The following are important CWA sections:

- Sections 303 and 304 require states to issue water quality standards, criteria, and guidelines.
- Section 401 requires an applicant for a federal license or permit to conduct any activity that may result in a discharge to waters of the U.S. to obtain certification from the state that the discharge will comply with other provisions of the act. This is most frequently required in tandem with a Section 404 permit request (see below).
- Section 402 establishes the NPDES, a permitting system for the discharges (except for dredge or fill material) of any pollutant into waters of the U.S. Regional Water Quality Control Boards (RWQCB) administer this permitting program in California. Section 402(p) requires permits for discharges of storm water from industrial/construction and municipal separate storm sewer systems (MS4s).
- Section 404 establishes a permit program for the discharge of dredge or fill material into waters of the United States. This permit program is administered by the U.S. Army Corps of Engineers (USACE).

The goal of the CWA is “to restore and maintain the chemical, physical, and biological integrity of the Nation’s waters.”

The USACE issues two types of 404 permits: General and Standard permits. There are two types of General permits: Regional permits and Nationwide permits. Regional permits are issued for a general category of activities when they are similar in nature and cause minimal environmental effect. Nationwide permits are issued to allow a variety of minor project activities with no more than minimal effects.

Ordinarily, projects that do not meet the criteria for a Nationwide Permit may be permitted under one of the USACE’s Standard permits. There are two types of Standard permits: Individual permits and Letters of Permission. For Standard permits, the USACE decision to approve is based on compliance with U.S. Environmental Protection Agency’s Section 404 (b)(1) Guidelines (U.S. EPA Code of Federal Regulations [CFR] 40 Part 230), and whether the permit approval is in the public interest. The Section 404(b)(1) Guidelines (Guidelines) were developed by the U.S. EPA in conjunction with the USACE, and allow the discharge of dredged or fill material into the aquatic system (waters of the U.S.) only if there is no practicable alternative which would have less adverse effects. The Guidelines state that the USACE may not issue a permit if there is a least environmentally damaging practicable alternative (LEDPA) to the proposed discharge that would have lesser effects on waters of the U.S. and not have any other significant adverse environmental consequences. According to the Guidelines, documentation is needed that a sequence of avoidance, minimization, and compensation measures has been followed, in that order. The Guidelines also restrict permitting activities that violate water quality or toxic effluent¹⁷ standards, jeopardize the continued existence of listed species, violate marine

¹⁷ The U.S. EPA defines “effluent” as “wastewater, treated or untreated, that flows out of a treatment plant, sewer, or industrial outfall.”

sanctuary protections, or cause “significant degradation” to waters of the U.S. In addition, every permit from the USACE, even if not subject to the Section 404(b)(1) Guidelines, must meet general requirements. See 33 CFR 320.4.

State Requirements: Porter-Cologne Water Quality Control Act

California’s Porter-Cologne Act, enacted in 1969, provides the legal basis for water quality regulation within California. This act requires a “Report of Waste Discharge” for any discharge of waste (liquid, solid, or gaseous) to land or surface waters that may impair beneficial uses for surface and/or groundwater of the state. It predates the CWA and regulates discharges to waters of the state. Waters of the state include more than just waters of the U.S., like groundwater and surface waters not considered waters of the U.S. Additionally, it prohibits discharges of “waste” as defined, and this definition is broader than the CWA definition of “pollutant.” Discharges under the Porter-Cologne Act are permitted by Waste Discharge Requirements (WDRs) and may be required even when the discharge is already permitted or exempt under the CWA.

The State Water Resources Control Board (SWRCB) and RWQCBs are responsible for establishing the water quality standards (objectives and beneficial uses) required by the CWA and regulating discharges to ensure compliance with the water quality standards. Details about water quality standards in a project area are included in the applicable RWQCB Basin Plan. In California, Regional Boards designate beneficial uses for all water body segments in their jurisdictions and then set criteria necessary to protect these uses. As a result, the water quality standards developed for particular water segments are based on the designated use and vary depending on that use. In addition, the SWRCB identifies waters failing to meet standards for specific pollutants. These waters are then state-listed in accordance with CWA Section 303(d). If a state determines that waters are impaired for one or more constituents and the standards cannot be met through point source or non-point source controls (NPDES permits or WDRs), the CWA requires the establishment of Total Maximum Daily Loads (TMDLs). TMDLs specify allowable pollutant loads from all sources (point, non-point, and natural) for a given watershed.

State Water Resources Control Board and Regional Water Quality Control Boards

The SWRCB administers water rights, sets water pollution control policy, and issues water board orders on matters of statewide application, and oversees water quality functions throughout the state by approving Basin Plans, TMDLs, and NPDES permits. RWQCBs are responsible for protecting beneficial uses of water resources within their regional jurisdiction using planning, permitting, and enforcement authorities to meet this responsibility.

- National Pollutant Discharge Elimination System (NPDES) Program

Municipal Separate Storm Sewer Systems (MS4)

Section 402(p) of the CWA requires the issuance of NPDES permits for five categories of storm water discharges, including Municipal Separate Storm Sewer Systems (MS4s). An MS4 is defined as “any conveyance or system of conveyances (roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, human-made channels, and storm drains) owned or operated by a state, city, town, county, or other public body having jurisdiction over storm water, that is designed or used for collecting or conveying storm water.” The SWRCB has identified the Department as an owner/operator of an MS4 under federal regulations. The Department’s MS4

permit covers all Department rights-of-way, properties, facilities, and activities in the state. The SWRCB or the RWQCB issues NPDES permits for five years, and permit requirements remain active until a new permit has been adopted.

The Department's MS4 Permit (Order No. 2012-0011-DWQ) was adopted on September 19, 2012 and became effective on July 1, 2013. The permit has three basic requirements:

1. The Department must comply with the requirements of the Construction General Permit (see below);
2. The Department must implement a year-round program in all parts of the State to effectively control storm water and non-storm water discharges; and
3. The Department storm water discharges must meet water quality standards through implementation of permanent and temporary (construction) Best Management Practices (BMPs), to the Maximum Extent Practicable, and other measures as the SWRCB determines to be necessary to meet the water quality standards.

To comply with the permit, the Department developed the Statewide Storm Water Management Plan (SWMP) to address storm water pollution controls related to highway planning, design, construction, and maintenance activities throughout California. The SWMP assigns responsibilities within the Department for implementing storm water management procedures and practices as well as training, public education and participation, monitoring and research, program evaluation, and reporting activities. The SWMP describes the minimum procedures and practices the Department uses to reduce pollutants in storm water and non-storm water discharges. It outlines procedures and responsibilities for protecting water quality, including the selection and implementation of Best Management Practices (BMPs). The proposed project will be programmed to follow the guidelines and procedures outlined in the latest SWMP to address storm water runoff.

For the project area outside the Department's right of way, the post-construction stormwater requirements will be in compliance with the NPDES No. CAS618033, Order No. R8-2010-0033.

Construction General Permit

Construction General Permit (Order No. 2009-009-DWQ), adopted on September 2, 2009, became effective on July 1, 2010. The permit regulates storm water discharges from construction sites that result in a Disturbed Soil Area (DSA) of one acre or greater, and/or are smaller sites that are part of a larger common plan of development. By law, all storm water discharges associated with construction activity where clearing, grading, and excavation result in soil disturbance of at least one acre must comply with the provisions of the General Construction Permit **unless the project disturbs more than one acre but less than five acres and qualifies for erosivity waiver**. Construction activity that results in soil disturbances of less than one acre is subject to this Construction General Permit if there is potential for significant water quality impairment resulting from the activity as determined by the RWQCB. Operators of regulated construction sites are required to develop storm water pollution prevention plans; to implement sediment, erosion, and pollution prevention control measures; and to obtain coverage under the Construction General Permit.

The 2009 Construction General Permit separates projects into Risk Levels 1, 2, or 3. Risk levels are determined during the planning and design phases, and are based on potential erosion and transport to receiving waters. Requirements apply according to the Risk Level determined. For example, a Risk Level 3 (highest risk) project would require compulsory storm water runoff pH and turbidity monitoring, and before construction and after construction aquatic biological assessments during specified seasonal windows. For all projects subject to the permit, applicants are required to develop and implement an effective Storm Water Pollution Prevention Plan (SWPPP). In accordance with the Department's Standard Specifications, a Water Pollution Control Plan (WPCP) is necessary for projects with DSA less than one acre.

Section 401 Permitting

Under Section 401 of the CWA, any project requiring a federal license or permit that may result in a discharge to a water of the United States must obtain a 401 Certification, which certifies that the project will be in compliance with state water quality standards. The most common federal permits triggering 401 Certification are CWA Section 404 permits issued by the USACE. The 401 permit certifications are obtained from the appropriate RWQCB, dependent on the project location, and are required before the USACE issues a 404 permit.

In some cases, the RWQCB may have specific concerns with discharges associated with a project. As a result, the RWQCB may issue a set of requirements known as Waste Discharge Requirements (WDRs) under the State Water Code (Porter-Cologne Act) that define activities, such as the inclusion of specific features, effluent limitations, monitoring, and plan submittals that are to be implemented for protecting or benefiting water quality. WDRs can be issued to address both permanent and temporary discharges of a project.

Executive Order (EO) 11988 (Floodplain Management) directs all federal agencies to refrain from conducting, supporting, or allowing actions in floodplains unless it is the only practicable alternative. The Federal Highway Administration requirements for compliance are outlined in 23 Code of Federal Regulations (CFR) 650 Subpart A.

To comply, the following must be analyzed:

The practicability of alternatives to any longitudinal encroachments.

Risks of the action.

Impacts on natural and beneficial floodplain values.

Support of incompatible floodplain development.

Measures to minimize floodplain impacts and to preserve/restore any beneficial floodplain values affected by the project.

The base floodplain is defined as “the area subject to flooding by the flood or tide having a one percent chance of being exceeded in any given year.” An encroachment is defined as “an action within the limits of the base floodplain.”

2.10.1 Discussion of Environmental Evaluation Question 2.9 – Hydrology and Water Quality

The information used in this section is from the June 2013 *Location Hydraulic Study for the I-15/Limonite Avenue Interchange Improvement Project* (Dokken 2013c) and the July 2013 *Final Scoping Questionnaire for Water Quality Issues for the I-15/Limonite Avenue Interchange Improvement Project* (Dokken 2013b).

- a) **No Impact:** Under the proposed project, Limonite Avenue would be widened, thereby increasing impervious surface area. The additional 7.1 acres of impervious surface area would increase stormwater runoff, which could contain various visible, floating, suspended, and/or petroleum product pollutants. Construction activities associated with the proposed project could result in sediment or other construction-related pollutants from contaminated runoff.

The conceptual roadway drainage system would continue to direct stormwater runoff in a north to south direction as it does currently. Along I-15, water would be captured by inlets and overside drains and conveyed to roadside ditches. These ditches would direct water to the south where it discharges to the Santa Ana River, which is the receiving water body. Similarly, along Limonite Avenue, runoff would be collected by inlets and conveyed via storm drain pipes south to the Santa Ana River. Permanent treatment BMPs such as biofiltration strips or swales and infiltration and/or detention basins are anticipated to be located within the available areas provided by the loop ramps, or as the interchange configuration would allow, and would be used to improve water quality and reduce the peak flow runoff from the project site. In order to ensure that no water quality standards or discharge requirements are violated, the proposed project would be required to implement temporary construction BMPs (refer to Measures **WQ-1**, **WQ-2**, and **WQ-4**), which are standard practices for erosion and water quality control. The BMPs would be included in the project-specific SWPPP and would provide adequate protection against water quality degradation during construction.

The construction activities of the proposed project would also be required to comply with the California Construction General Permit, NPDES Number CAS000002, Order No. 2009-0009-DWQ. Additionally, for the post-construction stormwater runoff requirements, the proposed project area within the Department's right of way would be required to comply with NPDES No. CAS000003, Order No. 2012-0011-DWQ, and the proposed project area outside the Department's right of way would comply with NPDES No. CAS618033, Order No. R8-2010-0033. Implementation of Measures **WQ-1** through **WQ-4**, which are standard practice on all Department projects, would ensure that potential water quality impacts are minimized or avoided. Therefore, the proposed project would not violate any water quality standards or waste discharge requirements, and no impacts are anticipated.

- b) **No Impact:** The Department of Water Resources (DWR) database of groundwater elevations identifies groundwater at an elevation of approximately 575 feet at the two closest monitoring wells to the project site, less than 2 miles away. Ground elevations at the project site are generally around 650 feet. Therefore, it is expected that groundwater is approximately 75 feet below ground surface. Groundwater was not observed in any of the borings performed at the project site. Borings were made to a maximum of 70 feet. The

proposed project would not require the use of groundwater, nor would it deplete the recharge of groundwater. Therefore, the proposed project would have no impact on groundwater or groundwater supplies.

- c) **Less than Significant Impact:** The widening of Limonite Avenue would contribute to an increase in impervious surface area, which would result in additional stormwater runoff. The drainage system would continue to direct stormwater runoff in a north/south direction as it does currently. It is not anticipated that this project would result in hydrologic impacts on the Santa Ana River—the downstream receiving body—because the anticipated proposed infiltration and/or detention basins would reduce the post-project peak flows, and any increase in roadway contaminants that could ultimately affect surface water quality would be minimized with implementation of Measures **WQ-1** through **WQ-4**. With implementation of Measures **WQ-1** through **WQ-4**, the project would not result in substantial erosion or silt, on- or off-site. Therefore, the proposed project would have a less than significant impact on the drainage pattern of the area, and would not result in substantial siltation or erosion on or off site.
- d) **Less than Significant Impact:** The proposed project would result in an increase in impervious surface area and runoff. However, due to the implementation of detention or infiltration basins and implementation of Measures **WQ-1** through **WQ-4**, it is not anticipated that the project would result in hydrologic impacts, such as flooding, on the Santa Ana River or project area because of the increased runoff. As a result, the proposed project would have a less than significant impact on the drainage pattern of the area and would not result in substantial flooding on or off site due to runoff.
- e) **Less than Significant Impact:** The proposed project would result in an increase in impervious surface area (7.1 acres), which would result in an increase in stormwater runoff. As mentioned earlier in Response (a), the conceptual roadway drainage system would continue to direct stormwater runoff in a north to south direction as it does currently. Along I-15, water would be captured by existing inlets and overside drains and conveyed to roadside ditches that direct water to the south where it discharges to the Santa Ana River. Along Limonite Avenue, runoff would be collected by inlets and conveyed via storm drain pipes south to the Santa Ana River. Permanent treatment BMPs such as biofiltration strips or swales and infiltration and/or detention basins are anticipated to be located within the available areas provided by the loop ramps, or as the interchange configuration would allow, and would be used to improve water quality and reduce the peak flow runoff from the project site. Therefore, the project would result in less than significant impacts related to the capacity of existing and planned stormwater drainage systems. In addition, an NPDES General Construction permit and a SWPPP (Measure **WQ-4**) would be required to address sediment control during construction activities. Impacts related to polluted runoff would be less than significant.
- f) **Less than Significant Impact:** As described above under Responses (a) through (e), the proposed project would result in less than significant short-term construction and long-term operational impacts on water quality. Construction impacts would be reduced through the implementation of Measures **WQ-1** through **WQ-4**. Water quality impacts would be less than significant.

- g) **No Impact:** The proposed project is an interchange improvement project and no housing is proposed. Therefore, no housing would be placed within a 100-year flood hazard area.
- h) **Less than Significant Impact:** The Federal Emergency Management Agency (FEMA) has performed a detailed study of the Santa Ana River, which is approximately 2 miles south of the project area. According to FEMA Flood Insurance Rate Map (FIRM) number 06065C0681G, the majority of the project area is located in Zone X, which is defined as an area within the 0.2% annual chance floodplain (500-year flood), but outside the 1.0% annual chance floodplain (100-year flood). The segment of the Limonite Avenue widening between Pats Ranch Road and Wineville Avenue is approximately 20 feet south of Zone A, which is defined as an area with a 1% chance of flooding in any given year (100-year frequency) with no base flood elevations determined. FEMA has also classified this area as a special flood hazard area. The floodplain within the project area is the result of backwater from the storm drain system known as Line J. This system runs south under Pats Ranch Road and ultimately conveys flows to the Santa Ana River.

The floodplain in the vicinity of the project covers an area of approximately 135 acres with a volume of approximately 365 acre-feet. The proposed project would widen Limonite Avenue 30 feet to the north. Although the roadway itself would not encroach on the floodplain, an existing ditch and berm adjacent to Limonite Avenue would be shifted to the north as required by the widening. This ditch and berm would encroach 0.8 acre into the floodplain, displacing the base flood volume by 0.6% chance (2.2 acre-feet). The incremental increase in water surface elevation over the entire floodplain is 0.2 inch, which will continue to be contained on the vacant agricultural parcel currently occupied by the floodplain. The change in water surface elevation is not anticipated to create an increased risk of potential damage to the surrounding areas or create flooding that would result in loss of life or property and there is no significant risk associated with implementation of the proposed project. Therefore, the proposed project would have a less than significant impact.

- i) **Less than Significant Impact:** As discussed above, under Response (h), the proposed project would place a ditch and berm within the floodplain. The incremental increase in surface water elevation would be inconsequential and would result in a less than significant impact. No roadways or other structures used or inhabited by people would be placed in the floodplain or any area that would expose them to significant loss or death involving flooding.
- j) **No Impact:** The proposed project is located in an area where there is no risk of tsunami or seiche. The topography of the area is flat; therefore, the risk of mudflow is low.

2.10.2 Avoidance, Minimization, and/or Mitigation Measures

No mitigation is required; however, the following avoidance and/or minimization measures will be implemented to minimize potential impacts:

- **WQ-1:** Construction site BMPs shall be implemented during construction for controlling potential pollutants on construction sites. The following BMP categories shall be considered and implemented, where feasible: Soil Stabilization Practices; Sediment Control Practices; Tracking Control Practices; Wind Erosion Control; Non-Storm Water Controls; and Waste Management and Material Pollution Controls.

- **WQ-2:** Implement Design Pollution Prevention, Low Impact Development (LID), source control, and treatment control BMPs (where feasible and applicable) in compliance with NPDES permit requirements.
- **WQ-3:** Construction will be scheduled to minimize soil-disturbing work during the rainy season.
- **WQ-4:** A Notice of Intent will be filed with the Santa Ana RWQCB for coverage under the state-wide NPDES permit for construction-related discharges. The contractor will prepare a SWPPP that sets forth the BMPs that will be implemented on site. The BMPs will be implemented to minimize spills and keep potentially contaminated materials used during construction out of the drainage waterways as documented in the SWPPP.

2.11 Land Use and Planning

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
X. LAND USE AND PLANNING: Would the project:				
a) Physically divide an established community?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Conflict with any applicable habitat conservation plan or natural community conservation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Regulatory Setting

Under the California Environmental Quality Act (CEQA), an economic or social change by itself is not to be considered a significant effect on the environment. However, if a social or economic change is related to a physical change, then social or economic change may be considered in determining whether the physical change is significant. Since this project would result in physical change to the environment, it is appropriate to consider changes to community character and cohesion in assessing the significance of the project’s effects.

Environment Justice

All projects involving a federal action (funding, permit, or land) must comply with Executive Order (EO) 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, signed by President William J. Clinton on February 11, 1994. This EO directs federal agencies to take the appropriate and necessary steps to identify and address disproportionately high and adverse effects of federal projects on the health or environment of minority and low-income populations to the greatest extent practicable and permitted by law. Low income is defined based on the Department of Health and Human Services poverty guidelines. For 2014, this was \$23,850 for a family of four.

All considerations under Title VI of the Civil Rights Act of 1964 and related statutes have also been included in this project. The Department’s commitment to upholding the mandates of Title VI is demonstrated by its Title VI Policy Statement, signed by the Director, which can be found in Appendix A of this document.

2.11.1 Discussion of Environmental Evaluation Question 2.10 – Land Use and Planning

The information used in this section is from the March 2014 *I-15/Limonite Avenue Interchange Improvement Project Community Impact Assessment (CIA) Memorandum* (Caltrans 2014c).

- a) **No Impact:** As described in Section 1.2 and the *CIA Memorandum*, improvements would be made to the existing interchange at I-15 and Limonite Avenue. An established community would not be divided by the proposed project.

No minority or low-income populations that would be adversely affected by the proposed project have been identified as determined above. Therefore, this project is not subject to the provisions of EO 12898.

- b) **No Impact:** As discussed in the *CIA Memorandum*, the proposed project is located within the City of Eastvale Land Use designation of Freeway and Commercial Retail, and the City of Jurupa Valley Land Use designations of Commercial Retail and General Plan Community Overlay (CCO), which includes a combination of small lot single-family residences, multi-family residences, commercial retail, office, business park uses, civic uses, transit facilities, and recreation open space. The proposed project is consistent with these land use designations.

The proposed project is needed to alleviate traffic congestion associated with approved area development. Based on the update to the Riverside County General Plan, the cities of Eastvale and Jurupa Valley will be adding numerous residences and businesses in the coming years, resulting in substantial increases in traffic.

The Build Alternative of the proposed project is also consistent with the relevant transportation planning documents with jurisdiction over the plan area. The proposed improvements to the I-15/Limonite Avenue Interchange are included in SCAG's 2015 Federal Transportation Improvement Program (2015 FTIP) and 2012 Regional Transportation Plan (2012 RTP). The current description in the FTIP and RTP are consistent with the proposed project.

- c) **No Impact:** The project area is located within the Western Riverside County MSHCP. As discussed in the NES (MI), the proposed project is a Covered Activity and take authorization for MSHCP Fully Covered Species is afforded under the plan. Improvements to the interchange are identified in the MSHCP as falling under the jurisdiction of the Department, as described in the MSHCP text for Covered Activities. Therefore, the proposed project would not conflict with the MSHCP. Further discussion of the MSHCP is included in Section 2.4.1 (Biological Resources).

2.11.2 Avoidance, Minimization, and/or Mitigation Measures

As a Covered Project under the MSHCP, avoidance and minimization Measures **BIO-2**, MSHCP Construction Guidelines, and **BIO-3**, Standard Best Management Practices, will be implemented.

2.12 Mineral Resources

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
XI. MINERAL RESOURCES: Would the project:				
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

2.12.1 Discussion of Environmental Evaluation Question 2.11 – Mineral Resources

The information used in this section is from the *Riverside County General Plan* (County of Riverside 2013) and *City of Eastvale General Plan* (City of Eastvale 2012).

- a) No Impact:** According to the Riverside County General Plan (<http://planning.rctlma.org/ZoningInformation/GeneralPlan.aspx>), the project area and vicinity are classified as Mineral Resource Zone (MRZ) 3: “area[s] where the available geologic information indicates that mineral deposits are likely to exist, however, the significance of the deposit is undetermined.” The Riverside County General Plan provides no specific policies for property identified as MRZ-3. Furthermore, the City of Eastvale General Plan EIR determined that Mineral Resources was one of several environmental resources determined to have no impact or less than significant impacts in the City. The City of Eastvale General Plan also does not designate the project site for mineral resource related uses nor does it indicate that past recovery of minerals have occurred at the project site. The project study area has been previously used as a roadway and for agricultural uses and has not been mined for mineral resources. The areas immediately adjacent to the project site are planned for commercial, residential, and transit-related development. Mineral resources are not expected to be located within the anticipated direct impact area associated with the proposed project due to the developed nature of the project site and surrounding areas. Therefore, no impacts on mineral resources are anticipated.
- b) No Impact:** The proposed project is not located in an area delineated as a locally important mineral resource recovery site. Therefore, there would be no impact.

2.12.2 Avoidance, Minimization, and/or Mitigation Measures

No avoidance, minimization, and/or mitigation measures are required.

2.13 Noise

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
XII. NOISE: Would the project result in:				
a) Exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Regulatory Setting

The National Environmental Policy Act (NEPA) of 1969 and the California Environmental Quality Act (CEQA) provide the broad basis for analyzing and abating highway traffic noise effects. The intent of these laws is to promote the general welfare and to foster a healthy environment. The requirements for noise analysis and consideration of noise abatement and/or mitigation, however, differ between NEPA and CEQA.

California Environmental Quality Act

CEQA requires a strictly baseline versus build analysis to assess whether a proposed project will have a noise impact. If a proposed project is determined to have a significant noise impact under CEQA, then CEQA dictates that mitigation measures must be incorporated into the project unless those measures are not feasible. The CEQA noise analysis is included at the end of this section.

National Environmental Policy Act and 23 CFR 772

For highway transportation projects with FHWA (and the Department, as assigned) involvement, the federal-Aid Highway Act of 1970 and the associated implementing regulations (23 CFR 772) govern the analysis and abatement of traffic noise impacts. The regulations require that potential noise impacts in areas of frequent human use be identified during the planning and design of a highway project. The regulations include noise abatement criteria (NAC) that are used to determine when a noise impact would occur. The NAC differ depending on the type of land use

under analysis. For example, the NAC for residences (67 dBA) is lower than the NAC for commercial areas (72 dBA). The following table lists the noise abatement criteria for use in the NEPA 23 CFR 772 analysis.

Table 2-5. NEPA Noise Abatement Criteria

Activity Category	NAC, Hourly A-Weighted Noise Level, Leq(h)	Description of Activity Category
A	57 (Exterior)	Lands on which serenity and quiet are of extraordinary significance and serve an important public need and where the preservation of those qualities is essential if the area is to continue to serve its intended purpose.
B ¹	67 (Exterior)	Residential.
C ¹	67 (Exterior)	Active sport areas, amphitheaters, auditoriums, campgrounds, cemeteries, day care centers, hospitals, libraries, medical facilities, parks, picnic areas, places of worship, playgrounds, public meeting rooms, public or nonprofit institutional structures, radio studios, recording studios, recreation areas, Section 4(f) sites, schools, television studios, trails, and trail crossings.
D	52 (Interior)	Auditoriums, day care centers, hospitals, libraries, medical facilities, places of worship, public meeting rooms, public or nonprofit institutional structures, radio studios, recording studios, schools, and television studios.
E	72 (Exterior)	Hotels, motels, offices, restaurants/bars, and other developed lands, properties, or activities not included in A–D or F.
F	No NAC—reporting only	Agriculture, airports, bus yards, emergency services, industrial, logging, maintenance facilities, manufacturing, mining, rail yards, retail facilities, shipyards, utilities (water resources, water treatment, electrical, etc.), and warehousing.
G	No NAC—reporting only	Undeveloped lands that are not permitted.
¹ Includes undeveloped lands permitted for this activity category.		

Figure 9 lists the noise levels of common activities to enable readers to compare the actual and predicted highway noise levels discussed in this section with common activities.

Figure 9. Noise Levels of Common Activities

Common Outdoor Activities	Noise Level (dBA)	Common Indoor Activities
Jet Fly-over at 300m (1000 ft)	110	Rock Band
Gas Lawn Mower at 1 m (3 ft)	100	
Diesel Truck at 15 m (50 ft), at 80 km (50 mph)	90	Food Blender at 1 m (3 ft)
Noisy Urban Area, Daytime	80	Garbage Disposal at 1 m (3 ft)
Gas Lawn Mower, 30 m (100 ft)	70	Vacuum Cleaner at 3 m (10 ft)
Commercial Area		Normal Speech at 1 m (3 ft)
Heavy Traffic at 90 m (300 ft)	60	Large Business Office
Quiet Urban Daytime	50	Dishwasher Next Room
Quiet Urban Nighttime	40	Theater, Large Conference Room (Background)
Quiet Suburban Nighttime		Library
Quiet Rural Nighttime	30	Bedroom at Night, Concert Hall (Background)
	20	Broadcast/Recording Studio
	10	
Lowest Threshold of Human Hearing	0	Lowest Threshold of Human Hearing

According to the Department’s *Traffic Noise Analysis Protocol for New Highway Construction and Reconstruction Projects, May 2011*, a noise impact occurs when the predicted future noise level with the project substantially exceeds the existing noise level (defined as a 12 dBA or more increase) or when the future noise level with the project approaches or exceeds the NAC. Approaching the NAC is defined as coming within 1 dBA of the NAC.

If it is determined that the project will have noise impacts, then potential abatement measures must be considered. Noise abatement measures that are determined to be reasonable and feasible at the time of final design are incorporated into the project plans and specifications. This document discusses noise abatement measures that would likely be incorporated in the project.

The Department’s *Traffic Noise Analysis Protocol* sets forth the criteria for determining when an abatement measure is reasonable and feasible. Feasibility of noise abatement is basically an engineering concern. A minimum 7 dBA reduction in the future noise level must be achieved for an abatement measure to be considered feasible. Other considerations include topography, access requirements, other noise sources, and safety considerations. The reasonableness determination

is basically a cost-benefit analysis. Factors used in determining whether a proposed noise abatement measure is reasonable include: residents' acceptance and the cost per benefited residence.

2.13.1 Discussion of Environmental Evaluation Question 2.12 – Noise

Information used in this section is from the May 2014 *I-15/Limonite Avenue Interchange Improvement Project Noise Study Report (NSR)* (Caltrans 2014b) and the August 2014 *Noise Abatement Decision Report (NADR)* (Caltrans 2014d).

a) Less than Significant Impact: A field investigation was conducted to identify land uses that could be subjected to traffic and construction noise impacts. Land uses identified in the project area included residential, commercial, agricultural, and undeveloped land uses with corresponding Activity Categories B, C, F, and G. Noise-sensitive receptors in the project area consist of residential land uses. The residential land uses are located primarily along the west side of I-15 to the north and south of Limonite Avenue. Temporary changes in noise levels in the vicinity of the project site are anticipated due to construction activities and permanent changes are anticipated due to operation of the proposed project. According to the Department's *Traffic Noise Analysis Protocol*, there is potential for a project to cause a significant adverse environmental effect due to noise if the project is predicted to result in a substantial noise increase (i.e., 12 decibel [dB] increase) over the existing noise level or when future predicted design-year noise levels with the project approach or exceed NAC. To determine if the substantial noise increase is a significant adverse environmental effect, consideration is given to the context and intensity of the substantial noise increase. Context refers to the project setting and uniqueness, or sensitive nature of the noise receiver(s). Intensity refers to the project-induced substantial noise increase (i.e., the increase over the "no-build" condition); it also refers to the number of residential units affected and to the absolute noise levels.

As part of the project, the realigned southbound off-ramp from I-15 would remove a portion of a 12- to 14-foot berm that provides shielding for residences located in the Swan Lake Mobile Home Park (Receivers M22-ST4, M23, and M24-ST5) (refer to Figure 10, Analysis Area, Noise Monitoring and Modeling Locations and Locations of Evaluated Noise Barriers). As shown in Table 2-6, these residences would experience a 0 dBA to 9 dBA (A-weighted decibel) $L_{eq(h)}$ (hourly equivalent energy noise level) increase in noise. These increases are well below the 12 dB increase and would not result in a substantial noise increase of the Department's *Traffic Noise Analysis Protocol*. However, because the predicted noise levels in the design year would approach or exceed the NAC of 67 dBA $L_{eq(h)}$, traffic noise impacts are predicted at residential land uses in this area and noise abatement was analyzed in the NADR. Under 23 CFR 772.11, noise abatement must be considered for Type I projects if the project is predicted to result in a traffic noise impact. Type I projects are defined as a proposed federal or federal-aid highway project for the construction of a highway at a new location, the physical alteration of an existing highway that significantly changes either the horizontal or vertical alignment, or an increase in the number of through traffic lanes. Type I projects include those that create a completely new noise source as well as those that increase the volume of speed of traffic or move the traffic closer to a receptor. Type I projects include those that add an interchange, ramp, auxiliary lane, or truck-climbing lane to an existing highway or widen an existing ramp by a full lane width for its entire length.

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Insert Figure 10 Analysis Area, Noise Monitoring and Modeling Locations and Locations
of Evaluated Noise Barriers

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Table 2-6. Project Future Worst Hour Noise Levels

Receiver	Land Use/Number of Dwelling Units	Existing Noise Level $L_{eq(h)}$, dBA	Design Year Noise Level with Project $L_{eq(h)}$, dBA	Design Year Noise Level with Project minus Existing Conditions $L_{eq(h)}$, dBA
M1	Undeveloped /0	68	72	4
M2	Residential /2	60	61	1
M3	Residential/ 2	61	63	2
M4-ST3	Residential /3	62	63	1
M5	Residential /8	54	56	2
M6	Residential /6	60	62	2
M7-ST9	Residential /5	58	60	2
M8	Residential /5	60	61	1
M9	Residential /4	59	60	1
M10	Residential /4	59	60	1
M11	Residential /3	58	59	1
M12-ST13	Commercial /0	59	62	3
M13-ST2	Commercial /0	67	76	9
M14-ST10	Commercial /0	62	65	3
M15	Residential /4	58	62	4
M16-ST11	Residential /3	59	63	4
M17	Residential /2	58	62	4
M18	Agricultural /0	64	68	4
M19-ST12	Residential /3	60	65	5
M20-ST8	Agricultural /0	78	81	3
M21-ST1	Commercial /0	67	70	3
M22-ST4	Residences /3	63	71	8
M23	Residences /2	64	69	5
M24-ST5	Residences /2	63	66	3
M25	Residential /1	63	64	1
M26	Residential /2	63	65	2
M27	Residential/2	63	64	1
M28-ST6	Residential /4	60	61	1
M29-ST7	Recreation /0	52	52	0

Overall, as shown in Table 2-6, noise levels associated with project operations at all receiver sites are predicted to increase approximately 0 to 9 dB above existing levels by the Year 2040 in the project area. The barrier evaluated in the NADR is identified as Barrier SB-1 (refer to Table 2-7, Predicted Future Noise Levels and Noise Barrier Analysis). Barrier SB-1 is intended to replace the portion of the existing berm that is being removed. Noise reductions were calculated and a reasonable allowance for each feasible barrier height ranging from 8 feet to 16 feet in height were analyzed for Barrier SB-1. As seen in Table 2-8, Barrier SB-1 is acoustically feasible for a height between 12 and 16 feet. Seven benefited residences yields a total reasonable allowance of \$385,000 for each barrier height considered. Based on the engineer's cost estimate to construct the barrier, the 12-, 14-, and 16-foot barriers are estimated to cost between \$303,660 and \$404,880 to construct. Comparing the total reasonable allowances to the estimated construction costs, all of the soundwalls are determined to be fiscally reasonable within 10%.

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Insert Table 2-7 Predicted Future Noise Levels and Noise Barrier Analysis. (include new table from May 2014 NSR.)

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Insert table page 2.

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Table 2-8. Summary of Barrier Cost for SB-1

Height (feet)	Location	Station	Breaks Line of Sight?	Acoustically Feasible?	Number of Benefited Residence	Total Reasonable Allowance	Estimated Construction Cost	Cost Less Than Allowance?
12	Along right of way	1039+69 to 1046+87	Yes	Yes	7	\$385,000	\$303,660	Yes
14	Along right of way	1039+69 to 1046+87	Yes	Yes	7	\$385,000	\$354,270	Yes
16	Along right of way	1039+69 to 1046+87	Yes	Yes	7	\$385,000	\$404,880	Yes

Source: Noise Abatement Decision Report, August 2014.

Several non-acoustical factors were also considered relating to the feasibility of the proposed sound barrier, including geometric standards, safety, maintenance, security, geotechnical considerations, and utility relocations. The sound barrier was considered in accordance with required geometric safety standards and to minimize or avoid utility and geotechnical considerations.

Based on the studies completed to date, the County of Riverside intends to incorporate noise abatement in the form of a barrier at SB-1, with respective lengths and average heights of 723 feet in length at a height of 12 feet. Barrier SB-1 is intended to replace the portion of the existing berm that is being removed. Calculations based on preliminary design data show that the barrier will reduce noise levels by 7 dBA for seven residences at a cost of \$303,660. If during final design conditions have substantially changed, noise abatement may not be necessary. A Noise Barrier Survey Response Form and figure was mailed to the residents and owners of the Swan Lake Mobile Home Park. At this location, the mobile homes are lessees/renters and the mobile home park owns the entire property within the mobile home park.¹⁸ As of November 1, 2015, of the nine mobile home spaces that are benefitted receptors, two are vacant. The property owner along with three of the seven lessees/renters provided responses in support of the noise barrier (see Appendix I for a sample of the letters/surveys that were sent and the responses received). No responses that indicated that a wall was not desired were received. The responses provided indicate a 50 percent or greater response in support of building the barrier as defined in the Caltrans Protocol and, as such, the survey supports implementation of Barrier SB-1.

As detailed in the *Noise Study Report*, there would be two types of short-term construction noise under the Build Alternative. The first type would be from construction crew commutes and the transport of construction equipment and materials to the project site, which would incrementally raise noise levels on access roads leading to the site. A high single-event noise exposure potential at a maximum level of 87 dBA L_{max} (maximum sound level) from trucks passing at 50 feet would exist. However, the projected construction traffic would be minimal when compared to existing traffic volumes on I-15 and other affected streets, and the associated

¹⁸ As defined in the Protocol owners get one vote and lessees/renters get 10 percent of one vote while the owner gets 90 percent of that same vote.

long-term noise level change would not be perceptible. Therefore, construction-related worker commutes and equipment transport noise impacts would be short term and less than significant.

The second type of short-term noise impact would be from construction activities. Construction of the proposed project is expected to require the use of earthmovers, bulldozers, paving machines, water trucks, dump trucks, concrete trucks, rollers, and pickup trucks. Noise associated with the use of construction equipment is estimated between 79 and 89 dBA L_{max} at a distance of 50 feet from the active construction area for the grading phase. Each piece of construction equipment operates as an individual point source. The worst-case composite noise level at the nearest residence during this phase of construction would be 91 dBA L_{max} (at a distance of 50 feet from an active construction area). In addition to the standard construction equipment, the project may require the use of pile drivers; however, the use of pile drivers is not anticipated at this time. Pile driving generates noise levels of up to 96 dBA L_{max} at 50 feet.

Construction would be conducted in accordance with applicable local noise standards and the Department's provisions in Section 14-8.02, "Noise Control," of the 2010 Standard Specifications and Special Provisions (**NOI-1**). Therefore, construction noise impacts would be less than significant.

- b) Less than Significant Impact:** Any groundborne noise or vibration would be limited to the construction period and would be short in duration. Compliance with local jurisdiction noise restrictions and the Department's Standard Specifications as outlined in **NOI-1** would minimize vibration effects. Therefore, vibration and noise effects are considered less than significant.

The proposed project does not involve changes that would result in noticeable increases in groundborne vibration or groundborne noise levels from use or maintenance of the roadway when compared with the No-Build Alternative. Once the project is complete, long-term increases in groundborne noise levels from use or maintenance of the roadway would be less than significant.

- c) Less than Significant Impact:** As shown in Table 2-6, Receivers M22-ST4, M23, and M24-ST5 would experience a 0 dBA to 9 dBA increase in noise above existing levels by the Year 2040. These increases are well below the 12 dB increase and would not result in a substantial noise increase of the Department's *Traffic Noise Analysis Protocol*. However, because the predicted noise levels in the design year would approach or exceed the NAC of 67 dBA $L_{eq(h)}$, traffic noise impacts are predicted at residential land uses in this area and noise abatement was analyzed in the NADR. The barrier evaluated in the NADR is identified as Barrier SB-1 (refer to Table 2-7, Predicted Future Noise Levels and Noise Barrier Analysis). Based on the studies completed to date, the Department intends to incorporate noise abatement in the form of a barrier at SB-1, with respective lengths and average heights of 723 feet in length at a height of 12 feet. Calculations based on preliminary design data show that the barrier will reduce noise levels by 7 dBA for seven residences at a cost of \$303,660. If during final design conditions have substantially changed, noise abatement may not be necessary. The final decision on noise abatement will be made prior to completion of the project design and the public involvement processes. Therefore, with the inclusion of the recommended Barrier SB-1, impacts would be less than significant.

- d) **Less than Significant Impact:** Construction of the proposed project could potentially result in a temporary increase in ambient noise levels in the project vicinity. Noise associated with the use of construction equipment is estimated between 79 and 89 dBA L_{max} at a distance of 50 feet from the active construction area for the grading phase. Each piece of construction equipment operates as an individual point source. The worst-case composite noise level at the nearest residence during this phase of construction would be 91 dBA L_{max} (at a distance of 50 feet from an active construction area). In addition to the standard construction equipment, the project may require the use of pile drivers; however, the use of pile drivers is not anticipated at this time. Pile driving generates noise levels of up to 96 dBA L_{max} at 50 feet. In order to ensure noise effects are minimized during the construction period, construction activities would be conducted in accordance with applicable local noise standards and the Department’s provisions in Section 14-8.02, “Noise Control,” of the 2010 Standard Specifications and Special Provisions (**NOI-1**). Temporary ambient noise increases due to construction would be considered less than significant.
- e) **No Impact:** The proposed project is located outside of the easternmost boundary of the Chino Airport Influence Area and no habitable structures are proposed as part of the proposed project. Therefore, no noise impacts related to air traffic would occur.
- f) **No Impact:** The proposed project is not located within the vicinity of a private airstrip and no habitable structures are proposed as part of the proposed project. Therefore, no noise impacts related to air traffic would occur.

2.13.2 Avoidance, Minimization, and/or Mitigation Measures

The following measure will be implemented to minimize potential impacts:

NOI-1: As directed by the Department, the contractor will implement appropriate additional noise mitigation measures, including changing the location of stationary construction equipment, turning off idling equipment, rescheduling construction activity, notifying adjacent residents in advance of construction work, and installing acoustic barriers around stationary construction noise sources.

SSP-14-8.02

1. Use with 2010 Standards.
2. Use for work in a residential or urban area (1) at night or (2) if night or Sunday noise restrictions exist.

5-1. NOISE CONTROL

1. General

This section applies to equipment on the project or associated with the project, including trucks, transit mixers, stationary equipment, and transient equipment.

2. Edit to include (1) specific local noise ordinances that the project manager has agreed to comply with or (2) work needing noise level restrictions that differ from those specified in Section 14. List exceptions in the table. Delete “except...table” and the table if exceptions are not needed. Delete paragraph 3.

The following are examples of work that exceed 86 dBA at 50 feet.

- a. Removing concrete
- b. Cold planing pavement
- c. Grooving and grinding concrete pavement
- d. Sawcutting PCC
- e. Driving piles

Do not exceed 86 dBA L_{max} at 50 feet from the job site activities from _____ p.m. to _____ a.m. except you may perform the following activities during the hours and for the days shown in the following table:

Noise Restriction Exceptions				
Activity	Hours		Days	
	From	To	From	Through

3. Use if night or Sunday noise restrictions exist. Delete par. 1.

Do not operate construction equipment or run the equipment engines from 7:00 p.m. to 7:00 a.m. or on Sundays except you may operate equipment within the project limits during these hours to:

1. Service traffic control facilities
2. Service construction equipment
3. Use if a sound meter is required.

Noise Monitoring

Provide one Type 1 sound level meter and 1 acoustic calibrator to be used by the Department until Contract acceptance. Provide training by a person trained in noise monitoring to 1 Department employee designated by the Engineer. The sound level meter must be calibrated and certified by the manufacturer or other independent acoustical laboratory before delivery to the Department. Provide annual recalibration by the manufacturer or other independent acoustical laboratory. The sound level meter must be capable of taking measurements using the A-weighting network and the slow response settings. The measurement microphone must be fitted with a windscreen. The Department returns the equipment to you at Contract acceptance. Work specified in this paragraph is paid for as noise monitoring.

4. Use if a sound meter is required.

The contract lump sum price paid for noise monitoring includes full compensation for furnishing all labor, material, tools, equipment, and incidentals and for doing all work involved in noise monitoring.

2.14 Population and Housing

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
XIII. POPULATION AND HOUSING: Would the project:				
a) Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Regulatory Setting

The Council on Environmental Quality (CEQ) regulations, which established the steps necessary to comply with the National Environmental Policy Act (NEPA) of 1969, require evaluation of the potential environmental effects of all proposed federal activities and programs. This provision includes a requirement to examine indirect consequences, which may occur in areas beyond the immediate influence of a proposed action and at some time in the future. The CEQ regulations (40 Code of Federal Regulations [CFR] 1508.8) refer to these consequences as indirect impacts. Indirect impacts may include changes in land use, economic vitality, and population density, which are all elements of growth.

The California Environmental Quality Act (CEQA) also requires the analysis of a project’s potential to induce growth. The CEQA guidelines (Section 15126.2[d]) require that environmental documents “...discuss the ways in which the proposed project could foster economic or population growth, or the construction of additional housing, either directly or indirectly, in the surrounding environment...”

The Department’s Relocation Assistance Program (RAP) is based on the Federal Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (as amended) and Title 49 Code of Federal Regulations (CFR) Part 24. The purpose of the RAP is to ensure that persons displaced as a result of a transportation project are treated fairly, consistently, and equitably so that such persons will not suffer disproportionate injuries as a result of projects designed for the benefit of the public as a whole.

All relocation services and benefits are administered without regard to race, color, national origin, or sex in compliance with Title VI of the Civil Rights Act (42 United States Code [USC] 2000d, et seq.). Please see Appendix A for a copy of the Department’s Title VI Policy Statement.

2.14.1 Discussion of Environmental Evaluation Question 2.13 – Population and Housing

Information used in this section is from the March 2014 *I-15/Limonite Avenue Interchange Improvement Project Community Impact Assessment (CIA) Memorandum* (Caltrans 2014c).

a) Less than Significant Impact: The I-15/Limonite Avenue Interchange ramps are projected to operate at an unacceptable LOS by 2040 unless improvements are made to the transportation system. Furthermore, some merge/diverge areas associated with the on- and off-ramps currently operate at an unacceptable LOS and some are also projected to operate at an unacceptable LOS in 2040 unless improvements are made (refer to Table 2-10 in Section 2.16.1). As such, the proposed project would provide relief for current and anticipated future traffic congestion associated with the projected population increases and planned development in the study area.

The proposed project is consistent with SCAG's 2015 FTIP and 2012 RTP/SCS and the goals and policies of the applicable planning documents of the various jurisdictions that compose the proposed project study area. The proposed project would not provide access to any developable lands that are currently inaccessible and would not lead to changes in already planned land use and density.

Several land uses are present within the project area. Portions of the Build Alternative would be located on soils mapped as "Prime Agriculture", Farmland of Statewide Importance", and "Unique Farmland" by data from the California Department of Conservation, Farmland Mapping and Monitoring Program (FMMP). However, the 2012 City of Eastvale and 2011 Jurupa Valley General Plan Land Use maps have designated these areas for future non-agricultural land uses with a time horizon of at least 20 years. Some of the area has recently been developed with retail land uses, such as the Eastvale Gateway South Center located at Limonite Avenue and Hamner Avenue. The western portion of the proposed project is located within the City of Eastvale General Plan Land Use designations of Freeway and Commercial Retail. The eastern portion is located within the City of Jurupa Valley General Plan Land Use designations of Industrial Park (I-P), One Family Dwellings (R-1), and General Plan Community Center Overlay (CCO). The CCO allows for development of a community center which includes a combination of small lot single family residences, multi-family residences, commercial retail, office, business park uses, civic uses, transit facilities, and recreational open space within a unified planned development area.

Based on the most recent update of the Riverside County General Plan, the City of Eastvale and City of Jurupa Valley would potentially add residences and businesses in the coming years, resulting in additional traffic. Operation of the I-15/Limonite Avenue interchange ramps are projected to operate at an unacceptable LOS by 2040 unless improvements are made to the transportation system. Furthermore, some merge/diverge areas associated with the on-and off-ramps currently operate at an unacceptable LOS and some are also projected to operate at an unacceptable LOS in 2040 unless improvements are made (refer to Table 2-10 in Section 2.16.1). As such, the proposed project would provide relief for current and anticipated future traffic congestion associated with the projected population increases and planned development in the study area. However, this increase in population as a result of development has been planned previously and therefore would not represent the inducement of unplanned population growth. This additional development is planned regardless of the improvements to the I-15/Limonite Avenue interchange. Because the proposed project is anticipated to accommodate existing and future travel demand in the corridor related to existing and planned growth approved by local jurisdictions and not contribute to unplanned growth in the area, the proposed project is not considered growth-inducing. The proposed

project is needed to reduce anticipated future traffic congestion at the interchange, as such, the project has been a part of the overall planning within the project area, which includes any anticipated growth in the area that is projected to occur. Therefore, no direct or indirect long-term impacts on growth are anticipated with the implementation of the proposed project.

- b) **No Impact:** The proposed project would result in partial acquisitions of properties adjacent to the project area. Table 2-9 lists the properties and the amount of temporary and/or permanent right of way needed from each.

These partial acquisitions consist of commercial parcels and a Park and Ride facility. However, none of these partial acquisitions would necessitate the relocation of people or any existing developments. Implementation of the proposed project would not result in the acquisition of any existing residences. The Park and Ride facility is being reconfigured within its currently allotted space so that it would remain viable and would contain, at minimum, the same number of parking spaces as currently exists. Furthermore, the proposed project would not prevent the construction of any future residences. No existing housing would be displaced as a result of the proposed project; therefore, no replacement housing would be needed.

Table 2-9. Right of Way Acquisitions

APN	Permanent Impact (acres)	Temporary Impact (acres)
152-630-001	-	0.1
152-630-007	-	0.1
152-630-008	2.3	1.8
152-630-017	-	0.2
152-630-018	-	0.1
152-630-019	-	0.1
152-630-028	0.1	0.3
152-630-029	0.1	0.4
152-640-001	2.1	1.1
160-030-055	2.7	-
160-030-070	-	0.1
160-050-021	-	0.5
160-050-023	0.3	1.7
160-050-027	-	0.3
160-050-031	-	0.4
160-050-049	-	0.4
160-050-050	-	0.3
Source: CIA, 2014.		

- c) **No Impact:** The proposed project would result in partial acquisitions of properties adjacent to the project area. These partial acquisitions consist of commercial parcels and a Park and Ride facility. However, none of these partial acquisitions would necessitate the relocation of people or any existing developments. Implementation of the proposed project would not

result in the acquisition of any existing residences. The Park and Ride facility is being reconfigured within its currently allotted space so that it would remain viable and would contain, at minimum, the same number of parking spaces as currently exists. Furthermore, the proposed project would not prevent the construction of any future residences. The proposed project would not require the acquisition of residential right of way. No persons would be displaced as a result of the proposed project; therefore, no replacement housing would be needed.

2.14.2 Avoidance, Minimization, and/or Mitigation Measures

No avoidance, minimization, and/or mitigation measures are required.

2.15 Public Services

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
XIV. PUBLIC SERVICES:				
a) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities; need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the following public services:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fire protection?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Police protection?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Schools?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Parks?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Other public facilities?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

2.15.1 Discussion of Environmental Evaluation Question 2.14 – Public Services

Information used in this section is from the March 2014 *I-15/Limonite Avenue Interchange Improvement Project Community Impact Assessment (CIA) Memorandum* (Caltrans 2014c).

a) **Less than Significant Impact:** According to the *CIA Memorandum*, the Build Alternative would improve the ability of fire, medical, and police service providers to serve the community, as the Build Alternative would reduce congestion in the interchange area, which would likely reduce response times for these services when compared to the No-Build condition. There are no schools within 0.5 mile of the project area that would be disrupted by construction activities or operation of the Build Alternative. Although congestion would increase during construction of the Build Alternative, a Traffic Management Plan (TMP) would be prepared that would ensure that disruptions are minimized.

Furthermore, the existing Park and Ride facility frontage located to the east of the I-15/Limonite interchange and along the north side of Limonite Avenue would be affected by the Build Alternative. The widening of Limonite Avenue to three lanes in each direction would require the Park and Ride facility footprint to be reconfigured within its currently allotted space. However, the adjusted footprint of the Park and Ride facility would not reduce the number of existing parking spaces. The Park and Ride facility would be closed for a period of time, anticipated to be several months, and inaccessible to patrons during construction. Closure of the Park and Ride facility would be short term and properly noticed in advance to reduce any inconvenience to patrons of the Park and Ride facility.

No schools are located within one mile of the project area. Home to school busing services for Harada Elementary School or Sky Country Elementary School are not provided by the Norco-Corona Unified School District or the Jurupa Unified School District, and therefore would not be affected by the proposed project.

The Riverside Transit Agency operates public bus routes 29 and 3 along Limonite Avenue, Hamner Avenue, and Pats Ranch Road. Bus stops and routes along Limonite Avenue would not be removed as a result of the proposed project, but may experience temporary delays during construction, which would be addressed through the implementation of the TMP.

No parks are located within the project area and none are anticipated to be directly or indirectly affected by the proposed project.

2.15.2 Avoidance, Minimization, and/or Mitigation Measures

No mitigation is required; however, the following standard measures will be implemented to minimize potential impacts:

PS-1: A TMP shall be developed by the Department to minimize potential impacts on emergency services and commuters during construction.

PS-2: As of November 7, 2014, the Department has adopted the California Manual on Uniform Traffic Control Devices (California MUTCD), 2014 edition, to provide for uniform standards and specifications for all official traffic control devices in California. This action was taken pursuant to the provisions of California Vehicle Code Section 21400 and the recommendation of the California Traffic Control Devices Committee. The Department requested and has received a letter to confirm substantial conformance from the FHWA for California MUTCD 2014 edition. The California MUTCD 2014 edition includes FHWA's MUTCD 2009 edition dated December 19, 2009, as amended for use in California. The California MUTCD 2014 also includes all policies on traffic control devices issued by the Department since January 13, 2012, and other corrections and format changes that were necessary to update the previous documents.

PS-3: Use lighting systems that are energy efficient, such as LED technology.

PS-4: Identification of all roadway locations where special construction techniques (e.g., directional drilling or night construction) would be used to minimize impacts on traffic flow.

PS-5: Development of circulation and detour plans to minimize impacts on local street circulation. This may include the use of signing and flagging to guide vehicles through and/or around the construction zone. This should be implemented in coordination with Measure **PS-1**.

PS-6: Limiting of lane closures during peak hours to the extent possible.

PS-7: Inclusion of detours for bicycles and pedestrians in all areas potentially affected by construction. This should be implemented in coordination with Measure **PS-1**.

PS-8: Coordination with local transit agencies for temporary relocation of routes or bus stops in work zones, as necessary. This should be implemented in coordination with Measure **PS-1**.

2.16 Recreation

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
XV. RECREATION:				
a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities, such that substantial physical deterioration of the facility would occur or be accelerated?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Does the project include recreational facilities or require the construction or expansion of recreational facilities, which might have an adverse physical effect on the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

2.16.1 Discussion of Environmental Evaluation Question 2.15 – Recreation

- a) **No Impact:** There are no parks located within the project area and none are anticipated to be directly or indirectly affected by the proposed project. The nearest park to the project site is Limonite Meadows Park, approximately 0.4 mile southeast of the project site. As detailed in the project description (Chapter 1), improvements would be made to the existing interchange at I-15 and Limonite Avenue. Neither alternative would result in the increased use of existing parks or recreational facilities.
- b) **No Impact:** The project proposes improvements to the I-15/Limonite Avenue Interchange only and does not propose the construction or expansion of any park or recreational facility.

2.16.2 Avoidance, Minimization, and/or Mitigation Measures

No avoidance, minimization, and/or mitigation measures are required.

2.17 Transportation and Traffic

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
XVI. TRANSPORTATION/TRAFFIC: Would the project:				
a) Conflict with an applicable plan, ordinance or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Conflict with an applicable congestion management program, including, but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Result in inadequate emergency access?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f) Conflict with adopted policies, plans or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Regulatory Setting

The Department, as assigned by FHWA, directs that full consideration should be given to the safe accommodation of pedestrians and bicyclists during the development of federal-aid highway projects (see 23 Code of Federal Regulations [CFR] 652). It further directs that the special needs of the elderly and the disabled must be considered in all federal-aid projects that include pedestrian facilities. When current or anticipated pedestrian and/or bicycle traffic presents a potential conflict with motor vehicle traffic, every effort must be made to minimize the detrimental effects on all highway users who share the facility.

In July 1999, the U.S. Department of Transportation (USDOT) issued an Accessibility Policy Statement pledging a fully accessible multimodal transportation system. Accessibility in federally assisted programs is governed by the USDOT regulations (49 CFR Part 27) implementing Section 504 of the Rehabilitation Act (29 United States Code [USC] 794). FHWA has enacted regulations for the implementation of the 1990 Americans with Disabilities Act (ADA), including a commitment to build transportation facilities that provide equal access for all persons. These regulations require application of the ADA requirements to federal-aid projects, including Transportation Enhancement Activities.

2.17.1 Discussion of Environmental Evaluation Question 2.16 – Transportation and Traffic

Information used in this section is from the October 2011 *Traffic Operations Analysis for the I-15/Limonite Avenue Interchange Improvement Project* (Dokken 2011), the *Traffic Validation Data Values Memorandum* (Dokken 2013d), the March 2014 *I-15/Limonite Avenue Interchange Improvement Project Community Impact Assessment (CIA) Memorandum* (Caltrans 2014c), and the *Riverside County General Plan* (County of Riverside 2013).

- a) **No Impact:** The proposed project is needed to reduce traffic congestion at the I-15/Limonite Avenue interchange. Based on the most recent update of the Riverside County General Plan, the cities of Eastvale and Jurupa Valley plan to add a substantial number of residences and businesses in the coming years, which is anticipated to result in traffic and would require a number of transportation and circulation improvements to accommodate this increased volume of traffic, including improvements to the I-15/Limonite Avenue interchange.

Although the I-15/Limonite Avenue interchange ramp intersections currently operate at an acceptable LOS, by design year 2040, the ramp intersections at the I-15/Limonite Avenue interchange would have insufficient capacity to accommodate the forecasted traffic demand¹⁹. Operation of the I-15/Limonite Avenue Interchange ramps are anticipated to worsen by opening year (2018) and to continue to degrade as traffic volumes increase unless improvements are made to the transportation system. Without the proposed project, it is projected that the northbound and southbound I-15 on- and off-ramp intersections with Limonite Avenue will function at an unacceptable LOS (F) during both the AM and PM peak hours in design year 2040. An analysis of the merge/diverge traffic operations at the I-15 on- and off-ramps indicate that in year 2018 the northbound I-15 off-ramp to Limonite Avenue will function at an unacceptable LOS (LOS F) during the PM peak hour and the northbound I-15 on-ramp from Limonite Avenue will function at an unacceptable LOS F during the AM peak hour; the southbound I-15 on-ramp from Limonite Avenue is also predicted to operate at an unacceptable LOS (E). In 2040 the I-15 off-ramp to Limonite Avenue is projected to operate at an unacceptable LOS during the AM and PM peak hours. This would conflict with the generally accepted Department minimum LOS threshold of LOS D for peak hour freeway operations.

Under the Build Alternative, in 2018, the northbound I-15 off-ramp to Limonite Avenue would function at an acceptable LOS A and B during the AM and PM peak hours, respectively, and the northbound I-15 on-ramp from Limonite Avenue would function at an acceptable LOS C and B during the AM and PM peak hours, respectively. In 2040, the northbound I-15 off-ramp to Limonite Avenue would function at an acceptable LOS A for both AM and PM peak hours, and the northbound on-ramp would function at an acceptable LOS B for both AM and PM peak hours. This would be consistent with the generally accepted Department minimum LOS threshold of LOS D for peak hour freeway operations. Therefore, the Build Alternative would not conflict with the standards established for the effectiveness of circulation. Furthermore, the proposed project would provide relief for

¹⁹ For traffic purposes, the design year is typically 20 years beyond the opening year, rounded to the nearest multiple of 5, as such, 2040 is utilized instead of 2038. This provides consistency with the regional models, which are typically updated every 5 years.

anticipated future traffic congestion associated with future growth in the area. This increase in population as a result of development has been planned and would not represent the inducement of unplanned growth. The proposed project is consistent with applicable state, regional, and local planning documents and is needed to reduce projected traffic congestion, and improve traffic flow on the regional transportation system.

Table 2-10 identifies the existing (2011), opening year (2018), and design year (2040)²⁰ LOS.

Table 2-10. Existing, Opening Year, and Design Year LOS

Location	Existing Year (2011)		Opening Year (2018)		Design Year (2040)	
	AM Peak Hour	PM Peak Hour	AM Peak Hour	PM Peak Hour	AM Peak Hour	PM Peak Hour
			(No-Build/Build)		(No-Build/Build)	
Intersection						
I-15/Limonite Avenue Southbound On/Off-Ramps	C	C	B/A	C/C	<u>F</u>/C	<u>F</u>/D
I-15/Limonite Avenue Northbound On/Off-Ramps	B	C	C/B	D/B	<u>F</u>/B	<u>F</u>/D
Merge/Diverge						
Limonite Avenue Off-Ramp (northbound)	D	D	D/A	<u>F</u>/B	<u>E</u>/A	<u>F</u>/A
Limonite Avenue On-Ramp (northbound)	<u>E</u>	D	<u>F</u>/C	D/B	D/B	D/B
Limonite Avenue Off-Ramp (southbound)	D	D	D/A	D/A	C/A	C/A
Limonite Avenue On-Ramp (southbound)	<u>E</u>	D	<u>E</u>/B	D/B	D/B	D/B

Bolded, underlined, entries exceed acceptable levels of service

- b) **No Impact:** The proposed project would not conflict with the County’s congestion management program as established by the county congestion management agency, Riverside County Transportation Commission (RCTC). In fact, the Build Alternative is consistent with relevant transportation planning documents as the proposed improvements to the I-15/Limonite Avenue Interchange are included in SCAG’s 2015 FTIP and 2012 RTP/SCS. Therefore, there would be no impact.
- c) **No Impact:** The proposed project would not cause a change in air traffic patterns, as it is outside of the easternmost boundary of the Chino Airport Influence Area. Therefore, there would be no impact.
- d) **No Impact:** The proposed project would not substantially increase hazards due to a design feature or incompatible uses. In general, the Build Alternative would improve traffic safety at the I-15/Limonite Interchange, as it would improve future traffic congestion. It would also improve safety by having increased acceleration and deceleration lane lengths at the freeway merge/diverge points for each of the on- and off-ramps.

²⁰ *ibid.*

- e) **Less than Significant Impact:** The Build Alternative would improve emergency access, as it would reduce congestion in the interchange area, which would likely reduce response times for emergency services. During construction, roads would remain open and access would be maintained. However, emergency response times could increase temporarily during construction of the Build Alternative due to increased congestion in the area of the Limonite Interchange. A TMP would be prepared to reduce potential construction-related traffic conflicts, detours, and delays. The TMP would include identification of detour routes within the construction area, placement of appropriate signs, cones, and barricades in the vicinity of construction, scheduling of construction activities during off-peak hours, and development of plans that ensure emergency access and entry to existing residences and businesses within the construction areas. Traffic control during construction may include off-peak lane closures and nighttime traffic detours to allow falsework construction. Long-term ramp closures and extensive congestion are not anticipated as a result of construction operations. A staged construction plan would be implemented to keep the existing bridge and ramps open to traffic. This impact would be temporary and would be less than significant with the implementation of Measure **PS-1** in Section 2.14.2.
- f) **No Impact:** The proposed project is not anticipated to conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities. In fact, the new proposed Limonite Avenue Overcrossing would accommodate 4-foot bike lanes, 8-foot shoulders, and 8-foot sidewalks in each direction, which would be consistent with the policies in the County of Riverside General Plan (2013) and City of Eastvale General Plan (2012). The Build Alternative would affect the existing Park and Ride facility frontage located to the east of the interchange. The Park and Ride layout would need to be reconfigured within its currently allotted space. This minor adjustment would not affect or change the current capacity or use of the facility. However, there would be temporary impacts during construction that would be addressed by the TMP. The Park and Ride facility would be closed for a period of time, anticipated to be several months, and inaccessible to patrons during construction. Closure of the Park and Ride facility would be short term and properly noticed in advance to reduce any inconvenience to patrons of the Park and Ride facility. Furthermore, the proposed project includes enhancement of non-motorized and pedestrian features along Limonite Avenue. Standard sidewalks and curb returns, in compliance with the ADA and all applicable provisions of the Department’s Design Information Bulletin 82, titled “Pedestrian Accessibility Guidelines for Highway Projects,” will be constructed along the widened portions of Limonite Avenue and the proposed Overcrossing structure. Bicycle lanes will also be provided along Limonite Avenue and on the proposed Overcrossing structure. The widths of these facilities on Limonite Avenue will be consistent with Department standards.

2.17.2 Avoidance, Minimization, and/or Mitigation Measures

No avoidance, minimization, and/or mitigation is required. Measure **PS-1** in Section 2.14.2 addresses impacts on emergency response.

2.18 Utilities and Service Systems

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
XVII. UTILITIES AND SERVICE SYSTEMS: Would the project:				
a) Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Result in a determination by the wastewater treatment provider, which serves or may serve the project, that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
g) Comply with federal, state, and local statutes and regulations related to solid waste?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

2.18.1 Discussion of Environmental Evaluation Question 2.17 – Utilities and Service Systems

Information used in this section is from the October 2011 *Traffic Operations Analysis for the I-15/Limonite Avenue Interchange Improvement Project* (Dokken 2011), the March 2014 *I-15/Limonite Avenue Interchange Improvement Project Community Impact Assessment (CIA) Memorandum* (Caltrans 2014c), and the Riverside County General Plan (County of Riverside 2013).

Existing utilities in the project area include the following: AT&T, AT&T Cellular, Jurupa Community Services District, Metro PCS, Southern California Edison, Southern California Gas Company, Sprint Cellular, Time Warner Telecom, T-Mobile, and Verizon Wireless. There are three existing cell towers directly adjacent to the existing Department right of way along the northbound I-15 on-ramp. All three towers would be avoided; however, underground utility lines that serve the towers would be affected and relocated. Southern California Gas Company owns and operates a high-pressure gas line that runs parallel to and north of Limonite Avenue. The line runs under the existing Park and Ride facility and crosses under the I-15 within Department right of way, north of the Overcrossing structure. Due to the sensitivity of the line, no relocation of the line would be allowed. Additionally, special precautions would be required during construction to ensure there are no impacts on the line. Furthermore, Riverside Public Utilities (RPU) is

analyzing the Riverside Transmission Reliability Project (RTRP), which proposes to construct a new 230 kilovolt transmission line in order to meet RPU's current and projected load growth. Southern California Edison will own the new transmission lines. The proposed alignment for the transmission tower corridor parallels the eastern edge of I-15 within the project area and will cross Limonite Avenue. The Project Team for the I-15/Limonite Interchange Improvements Project has continuously coordinated closely with Southern California Edison to identify potential conflicts between the proposed interchange and the transmission tower alignment.

The proposed project would also require potholing to determine if the underground utilities within the project limits would require relocation. The design profile of Limonite Avenue would be raised; as such, the existing underground utility lines are anticipated to be located below the proposed structural sections, and potholing would confirm any potential conflicts.

- a) **No Impact:** The proposed project is needed to reduce projected traffic congestion at the I-15/Limonite Interchange and would not generate the need for additional wastewater treatment. Therefore, there would be no impact.
- b) **No Impact:** The proposed project is needed to reduce projected traffic congestion at the I-15/Limonite Interchange and would not require or result in the construction of new water treatment facilities. Therefore, there is no impact.
- c) **Less than Significant Impact:** Storm water runoff in the project area generally flows from north to south and is currently conveyed through a series of roadside ditches/channels, culverts, inlets/storm drain pipes, and overside drains. As described in the July 2013 *Final Scoping Questionnaire for Water Quality Issues for the I-15/Limonite Avenue Interchange Improvement Project*, the proposed project would require the modification of existing storm water drainage facilities. The proposed roadway drainage system would continue to direct stormwater runoff in a north to south direction. However, the proposed roadway improvements along I-15 and in the interchange area itself would require that existing culverts be extended or realigned in order to accommodate the new roadway widths and geometry. Similarly, existing roadside ditches/channels would be re-established along the widened roadway or converted to underground pipes where there is no longer space for the roadside ditch. Along Limonite Avenue, where new curb, gutter, and sidewalk would be installed, the existing roadside ditches would be converted to an underground storm drain system. Ultimately, the stormwater runoff from the project area would continue to discharge to the Santa Ana River, which is the current receiving water body. Therefore, modification of the stormwater facilities under the proposed project would result in a less than significant impact.
- d) **No Impact:** The proposed project is needed to reduce projected traffic congestion at the I-15/Limonite Interchange and would not need new or expanded entitlements. Therefore, there would be no impact.
- e) **No Impact:** The proposed project would not require wastewater treatment. As a result, there would be no impact.

- f) **Less than Significant Impact:** The proposed project would require the use of a local landfill, if applicable, to dispose of demolition materials. The use of local landfills would be temporary during construction. It is the Department's policy to recycle materials whenever possible. It is not anticipated that the amount of construction waste would exceed the capacity of local landfills; therefore, impacts would be considered less than significant.
- g) **No Impact:** The proposed project would be in compliance with all federal, state, and local solid waste statutes and regulations; therefore, there would be no impact.

2.18.2 Avoidance, Minimization, and/or Mitigation Measures

No avoidance, minimization, and/or mitigation measures are required. Measures **WQ-1** through **WQ-4** in Section 2.9.2 address impacts on drainage facilities.

2.19 Mandatory Findings of Significance

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
XVIII. MANDATORY FINDINGS OF SIGNIFICANCE				
a) Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal; or eliminate important examples of the major periods of California history or prehistory?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Does the project have impacts that are individually limited, but cumulatively considerable? (“Cumulatively considerable” means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects.)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

2.19.1 Discussion of Environmental Evaluation Question 2.18 – Mandatory Findings of Significance

a) **Less than Significant Impact.** As discussed in Section 2.4 (Biological Resources), the project area is heavily disturbed and consists primarily of non-native and invasive plant species. Of the five vegetation communities identified in the BSA, only one, RSS, is considered sensitive. However, the RSS in the BSA is classified as “remnant,” meaning there are only noncontiguous patches of RSS that are too small to be considered a viable community.

There is potential for three special status bat species (pallid bat, California western mastiff bat, and big free-tailed bat) to forage within suitable habitat (ruderal and remnant RSS) in the BSA. The number of individuals that could potentially forage in the BSA is expected to be low. There is also a potential for impacts on the special-status California western mastiff bat roosting within mature trees in the BSA. Potential temporary indirect effects from the proposed project on special-status bats would be avoided by implementing avoidance Measures **BIO-3** through **BIO-5**.

There is low quality suitable habitat within the project impact area for the special-status burrowing owl. However, burrowing owls were only found outside the project impact area during focused surveys. Avoidance Measures **BIO-1** through **BIO-3** would ensure direct and indirect impacts on burrowing owl would not occur during construction of the proposed project.

There is also potential for several other special-status species to occur in the BSA, but they do not pose a constraint to the project because they were either confirmed to be absent by a focused survey or the species is already fully Covered under the MSHCP (i.e., take authorization is already provided to Permittees); therefore, any potential impacts (if the species is present) would be fully mitigated.

Nesting birds and raptors could be affected by the proposed project during the bird breeding season (March 1 through August 31 for birds and January 15 through June 30 for raptors). Avoidance and minimization Measures **BIO-2** through **BIO-4** would ensure there are no constraints to the project under the MBTA and the California Fish and Game Code.

The proposed project would not substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, or reduce the number or restrict the range of a rare or endangered plant or animal. Through the incorporation of avoidance and minimization measures, the proposed project would result in a less than significant impact on biological resources.

As discussed in Section 2.5 (Cultural Resources), Response (c), the proposed project is located in an area with soil deposits that have the potential to contain paleontological resources, thereby making it an area of high paleontological sensitivity. It is likely that construction of the proposed project, in particular excavation for widening and replacement of the Overcrossing structure, would potentially result in negative impacts on these deposits. In order to reduce these impacts, a PMP (Measure **PALEO-1**) will be prepared. Therefore, the proposed project would have a less than significant impact on a period of California prehistory through the incorporation of mitigation.

- b) Less than Significant Impact with Mitigation.** Planned recent and future projects within the vicinity of the proposed project are listed in Table 2-11. Due to distance and location from the proposed project, not all planned and future projects listed would result in cumulative impacts and are therefore not analyzed. There are several projects in the immediate vicinity of the project: the I-15 Express Lanes Project, the San Antonio Medical Plaza, RTRP, and the William Lyon Homes Residential Project. The Eastvale San Antonio Medical Plaza and the Lodge have already been constructed. The environmental documents for the William Lyon Homes Residential Project and I-15 Express Lanes Project are not yet available. RTRP involves the construction of electrical transmission lines. Specifically, portions of a 230 kilovolt transmission line are proposed to be routed near the I-15/Limonite interchange area. According to the Final EIR prepared for the project, significant unavoidable environmental impacts would result for aesthetics, agricultural, air quality, and hydrological resources. In the area of the I-15/Limonite Avenue interchange, RTRP's incremental effect to visual resources would not be cumulatively considerable or significant given the urban character of the study area. Construction of RTRP, if it occurs at the same time as the proposed project, would meet the cumulative project criteria for air quality. However, cumulative impacts, should they occur, would be minor and temporary, as adherence to SCAQMD Rule 403 by each project in the vicinity would be required. The IS/MND for the Eastvale San Antonio Medical Plaza concluded that the project's incremental effect on visual resources would not be cumulatively considerable or significant because the medical

buildings were all designed to satisfy the guidelines of the Eastvale I-15 Corridor Specific Plan and the design goals and polices of the Design Elements of the City of Eastvale's General Plan (City of Eastvale 2013). Furthermore, because the I-15 Express Lanes Project has been designed to be consistent with the Department's highway landscape and design policies and BMPs, the added express lanes would be consistent in form and scale with the visual character of the surrounding existing urban landscape. As detailed in Section 2.18.2 (Cumulative Impacts), the proposed project would potentially result in cumulatively considerable effects when combined with past, present, and reasonable foreseeable future projects; however, the proposed project includes measures to avoid and minimize potential impacts. Therefore, the proposed project would not contribute to cumulative impacts in combination with the planned and programmed projects listed in Table 2-11.

- c) **Less than Significant Impact.** Operation of the project would not result in the exposure of persons to any substantially adverse natural or human-made hazards that could directly or indirectly cause substantial adverse effects on human beings, such as geologic hazards, air emissions, noise, hazardous materials, or flooding. All potential effects that could result in substantial exposure of persons to hazards during construction of the project are fully addressed with recommended avoidance and minimization measures, and no permanent impacts have been identified as significant in this Initial Study. Avoidance and minimization measures would be incorporated into the project in order to reduce and control the effects the project would have on the environment.

2.19.2 Cumulative Impacts

Cumulative impacts are those that result from past, present, and reasonably foreseeable future actions, combined with the potential impacts of this proposed project. A cumulative effect assessment looks at the collective impacts posed by individual land use plans and projects. Cumulative impacts can result from individually minor but collectively substantial impacts taking place over a period of time.

Cumulative impacts to resources in the project area may result from residential, commercial, industrial, and highway development, as well as from agricultural development and the conversion to more intensive agricultural cultivation. These land use activities can degrade habitat and species diversity through consequences such as displacement and fragmentation of habitats and populations, alteration of hydrology, contamination, erosion, sedimentation, disruption of migration corridors, changes in water quality, and introduction or promotion of predators. They can also contribute to potential community impacts identified for the project, such as changes in community character, traffic patterns, housing availability, and employment.

California Environmental Quality Act (CEQA) Guidelines Section 15130 describes when a cumulative impact analysis is necessary and what elements are necessary for an adequate discussion of cumulative impacts. The definition of cumulative impacts under CEQA can be found in Section 15355 of the CEQA Guidelines. A definition of cumulative impacts under the National Environmental Policy Act (NEPA) can be found in 40 Code of Federal Regulations (CFR), Section 1508.7 of the Council on Environmental Quality (CEQ) Regulations.

The cumulative study area includes projects within vicinity of the project site. Table 2-11 summarizes recent and currently planned developments, as obtained from the city planning and development departments.

Table 2-11. Cumulative Projects List

Name	Jurisdiction	Description	Status
I-15 Express Lanes Project (EA 0J080)	RCTC	The project would construct one to two tolled express lanes between Cajalco Road to SR-60, post miles (PM) 36.8 and 51.4 in Riverside County, for a distance of 14.6 miles	The draft Environmental Document was circulated for public review July 29, 2015 through August 28, 2015. Adoption of the environmental document is anticipated in early 2016.
Riverside Transmission Reliability Project (RTRP)	City of Riverside	Proposed Project includes the construction, operation, and maintenance of a new approximately 10-mile double-circuit 230,000-volt (230 kV) transmission line, a new 230 kV substation (Wildlife Substation), a new 230/69 kV substation (Wilderness substation), and five new 69 kV subtransmission line segments integrated into Riverside Public Utilities' existing subtransmission system. The project is bordered to the north by SR-60, to the west by I-15, and to the south by SR-91.	Construction to start in 2017 and be completed in 2019.
Silverlakes Equestrian and Sports Park—5555 Hamner Avenue	Norco	Development of a 122-acre equestrian center and sports facility that would be used for various recreational uses, such as equestrian events, soccer, football, lacrosse, etc.	Project has been partially constructed.
Nexus by William Lyon Homes—southwest corner of Limonite Avenue and Hamner Avenue	Eastvale	Construction of 224 multi-family dwelling units.	Currently under construction and units are being sold.
The Lodge—north of Limonite Avenue, east of Sumner Avenue, west of Scholar Way	Eastvale	Construction of 350 single-family attached residential dwellings.	Homes are under construction and being sold.
Eastvale Business Park—southwest corner of Limonite Avenue and Archibald Avenue	Eastvale	Construction of 11 industrial and warehouse buildings totaling 694,770 square feet.	Approved in April 2014.
Estancia—southeast corner of Sumner Avenue and Citrus Street	Eastvale	Construction of 196 single-family residential development.	Homes are under construction and being sold.
The Trails at Eastvale by Richmond Communities (TR 36423)	City of Eastvale	A housing project located at the corner of Archibald Ave. and 65 th Street. Consists of 224 single family lots on 49 gross acres.	Approved by the City in May 2013. Homes are under construction and being sold.

Table 2-11. Cumulative Projects List

Name	Jurisdiction	Description	Status
Copper Sky by DR Horton	City of Eastvale	40.01-acre development located at Schleisman Rd. and Scholar Way. Consists of 224 condo units including a tot lot, 2 community facilities, park, one detention basin, 448 garaged parking spaces, 47 off street spaces, and 87 on street spaces.	Approved by Riverside County in 2007. Homes are under construction and being sold.
Eastvale San Antonio Medical Plaza	City of Eastvale	Located on the south side of Limonite Ave as part of Eastvale Gateway South. The project consists of two, two-story medical buildings totaling 69,562 square feet and 327 parking spaces to be constructed in two phases on a 5.4-acre project site. Phase II is anticipated to begin one to two years after completion of Phase I. No emergency services or ambulances on site.	Construction completed in 2015 and facility is now open.
Limonite Widening From Etiwanda Avenue to Bain Street	Riverside County Transportation Department	Widening along Limonite Avenue from Etiwanda Avenue to Bain Street.	Construction to start in late-2015 to early 2016
Goodman-Birtcher	City of Eastvale	Subdivision of approximately 193-acres into 10 parcels located at Eastside of Hamner Avenue between Cantu-Galleano Ranch Road and Bellegrave Avenue. Consists of two industrial buildings totaling 2,040,897 sq. ft. on two of the ten parcels. The remaining land use consists of 2 detention basins, business park, and other mixed use.	Construction underway. Anticipated project completion on 2020.
<p>Note: Not all projects on this table are within the cumulative/resource study area of the proposed project for all resources addressed. Please refer to each resource area discussion in Section 2.18.2 for the resource study area associated with each resource.</p>			

The following analysis evaluates the project’s potential to contribute considerably to a cumulative impact.

As discussed previously, the proposed project would have no effect on land use, mineral resources, and recreation, and would not contribute either directly or indirectly to a cumulatively considerable impact in these resource areas. The potential for the proposed project to result in cumulative impacts that would be considered significant in the above mentioned resource areas is considered low, and the proposed project does not have the potential to result in cumulative impacts that would affect the health or sustainability of any of these resource areas.

For resources identified as having a less than significant impact with mitigation or a less than significant impact, a preliminary review of the potential impacts identified was conducted to determine if a reasonably foreseeable cumulative impact could occur. Based on this review, it was determined that the resources that could potentially contribute to significant cumulative

impacts to a considerable degree when combined with past, present, and reasonably foreseeable future projects are: aesthetics, agricultural resources, air quality, biological resources, cultural resources, paleontological resources, hazards/hazardous materials, hydrology and water quality, geology/soils, land use and planning, noise, transportation/traffic, and public services and utilities. A cumulative evaluation for these environmental resource topic areas is provided below.

Aesthetics

The resource study area (RSA) for aesthetics is considered to be the area within one mile of the project. The typical land uses within this area include residential, commercial, agricultural, and undeveloped land. Cumulative projects within the visual study area include the San Antonio Medical Plaza, I-15 Express Lanes Project, William Lyon Homes Residential Project, the Lodge Residential Project, and the Silverlakes Equestrian Project, and RTRP. The EIR for RTRP concluded that the project's incremental effect on visual resources would not be cumulatively considerable or significant given the urban character of the study area and because the facilities that are being introduced are not uncommon in urban areas and would not result in a noticeable change to the area's overall visual resource (City of Riverside 2012). The IS/MND for the Eastvale San Antonio Medical Plaza also concluded that the project's incremental effect on visual resources would not be cumulatively considerable or significant because the medical buildings were all designed to satisfy the guidelines of the Eastvale I-15 Corridor Specific Plan and the design goals and polices of the Design Elements of the City of Eastvale's General Plan (City of Eastvale 2013). The Lodge Residential Project would also comply with the zoning and land use designations for residential development in the area. The I-15 Express Lanes Project has been designed to be consistent with the Department's highway landscape and design policies/BMPs. The added express lanes would be consistent in form and scale with the visual character of the existing urban landscape that surrounds the existing I-15 corridor. Furthermore, the express lanes would have continuity with the existing I-15, which is the dominant feature along the majority of the project corridor. The overall visual character of the project corridor is considered to be low; visual resources would not be altered by the project (ICF 2014). Although the project is pending, the Silverlakes Equestrian Project Final EIR indicates that the project is not expected to have significant cumulative aesthetic impacts, and would not make a significant contribution to cumulatively considerable visual impacts or impacts related to light and glare.

For this project, it has been determined that the cumulative visual impacts would not be significant. By constructing an improved interchange and incorporating aesthetic medians, hardscape, and aesthetic railing on the Overcrossing, the project would have a slightly improved visual resource change and cumulative effects on the surrounding area would be less than significant.

Agricultural Resources

Agricultural resources are present throughout Riverside County; however, through the years there has been a reduction in agricultural resources as a result of development and urbanization in the County. Cumulative projects within the study area include the San Antonio Medical Plaza, I-15 Express Lanes Project, The Lodge Residential Project, William Lyon Homes Residential Project, the Silverlakes Equestrian Project, and RTRP. The San Antonio Medical Plaza is constructed on an existing retail center location and conforms to the requirements of the City of Eastvale General Plan and Zoning Code. The Lodge Residential Project would comply with the

City's General Plan and Zoning Code and compatible with the land use designation for residential units. The environmental documents for the William Lyon Homes Residential Project and I-15 Express Lanes Project are not yet available. RTRP, as indicated in the Final EIR, would contribute incrementally to the decline of agricultural resources and permanently affect 1.5 acres of Farmland. Implementation of measures by the RTRP project to reduce these impacts, such as locating access roads, spur roads, staging areas, and construction sites to areas that minimize impacts on agricultural operations, would minimize impacts on agricultural resources but would not, however, reduce impacts related to the permanent reduction of agricultural land, which would be a significant and unavoidable impact. Furthermore, the Silverlakes Equestrian Project also contains prime agricultural soil; however, the project uses are consistent with agricultural uses in the City of Norco and the project would not construct substantial permanent buildings on the site. As such, the Silverlakes Equestrian Project would not make a significant cumulative contribution to agricultural resources, as the site could be used in the future for agriculture other than the equestrian uses. The proposed I-15/Limonite Avenue Interchange project would not result in the conversion of farmland, nor would it contribute to the cumulative impact on agricultural resources, as the area is committed for non-agricultural urban uses as designated in the City of Eastvale and City of Jurupa Valley General Plans.

Air Quality

The Resource Area for the project is within the South Coast Air Basin (SCAB), which includes the western portion of Riverside County, as well as all of Orange County, and the non-desert portions of Los Angeles, Riverside, and San Bernardino Counties. The nearest monitoring station to the proposed project is the Mira Loma-Van Buren Station, which is approximately 3.5 miles northeast of the project site. Criteria pollutants monitored at this station include ozone, NO₂, CO, PM₁₀, and PM_{2.5}. The ARB has classified the SCAB as an extreme nonattainment area for the state one-hour ozone standard and as a nonattainment area for the state eight-hour ozone standard. For the state CO standard, ARB has classified the SCAB as an attainment area. ARB has classified the SCAB as a nonattainment area for the state PM₁₀ and PM_{2.5} standards. U.S. EPA has classified the SCAB as an extreme nonattainment area for the federal eight-hour ozone standard. For both the one-hour and eight-hour federal CO standard, U.S. EPA has classified the SCAB as an attainment/maintenance area. U.S. EPA has classified the SCAB as a serious nonattainment area for the federal PM₁₀ standard and as a nonattainment area for the federal PM_{2.5} standard.

The construction schedule for some of the projects in Table 2-11 is uncertain, or some of the projects will be completed prior to or after completion of the proposed project. Therefore, there is the potential that construction of some of these projects would occur at the same time and would meet the cumulative project criteria for air quality. Measures for dust control during construction, as stipulated by SCAQMD Rule 403, would be implemented to ensure that the proposed project would not substantially contribute to potential cumulative impacts on air quality. Adherence to these regulations by each project in the project vicinity would also be required. Cumulative impacts, should they occur, would be minor and temporary.

The project is listed in the conforming 2015 FTIP and 2012–2035 RTP/SCS as well as the 2015 draft FTIP. The design concept and scope proposed are the same as the design concept and scope in the RTP and FTIP listings, and the project meets the regional and project-level air quality

conformity requirements. The air quality analysis is based on future traffic conditions in 2040. This accounts for future development in the project area and the region, as envisioned in local general plans; SCAG projections, amendments, and 2012–2035 RTP/SCS; and the roadway improvements listed in the 2015 FTIP. As a result, the analysis contained in Section 2.3 constitutes the operational cumulative analysis for the project. The analysis concluded that the proposed project would not conflict with or obstruct implementation of the applicable air quality management plan, violate any air quality standard, contribute substantially to an existing or projected air quality violation, or result in a cumulatively considerable net increase in any criteria pollutant for which the project region is in nonattainment status under an applicable federal or state ambient air quality standard.

Biological Resources

The cumulative study area for biological resources includes Western Riverside County. This part of the county is primarily developed, with undeveloped areas planned for future development. The proposed project is located within a mix of residential, commercial, and agricultural lands, which are also planned for future development. Implementation of the projects listed in Table 2-11 will facilitate new growth and development on undeveloped lands that contain sensitive habitat or species. Increased population growth as permitted by the City and County's General Plans would increase disturbance on open space lands from human use, vehicle travel, and domestic and opportunistic animals.

The preservation of land through the MSHCP would limit any cumulatively considerable regional disruption of wildlife. Given that sensitive species currently occur within the cumulative study area, development proposals will be required to adequately mitigate impacts on wildlife and habitat before development is permitted. Participation and enforcement of the MSHCP will reduce cumulative impacts on sensitive species, and its implementation will protect habitat for these species. These activities would reduce cumulative impacts on biological resources to less than significant levels. In addition, present and future projects would comply with requirements of the MBTA to avoid, minimize, and /or mitigate potential impacts on protected nests and, pursuant to existing federal and state regulations, would be required to implement restoration and replacement efforts for any impacts on special-status plants and wildlife. After the incorporation of measures provided in this IS related to biological resources, the proposed project's incremental contribution would not result in a cumulatively considerable impact.

Cultural Resources

The project vicinity represents an area of high paleontological sensitivity. In particular, the young eolian deposits (Qye) and very old alluvial channel deposits (Qoa) within the project site have the potential to contain paleontological resources. Project-related excavations and ground disturbance activities could potentially result in impacts in areas with high paleontological resource sensitivity. Mitigation measures have been proposed to reduce these impacts. Cumulative project impacts on cultural and paleontological resources would vary based on the footprint of each project. All projects that could potentially affect cultural and paleontological resources would be required to evaluate and assess impacts and, if necessary, provide mitigation measures.

Paleontological Resources

The RSA includes the project site and the areas immediately surrounding the project site. As detailed in the PIR/PER, the proposed project is located in an area of high paleontological sensitivity. The young eolian deposits (Qye) and very old alluvial channel deposits (Qoa) within the project site have the potential to contain paleontological resources. It is possible that construction of the proposed project, in particular excavation for widening and replacement of the Overcrossing structure, would potentially result in negative impacts on these deposits, which have been assigned a high paleontological resource sensitivity. In order to reduce these impacts, a PMP (Measure **PALEO-1**) will be prepared and implemented.

There are several other projects in the immediate vicinity of the project that were reviewed for paleontological impacts: the I-15 Express Lanes Project, the San Antonio Medical Plaza, the Lodge, RTRP, and the William Lyon Homes Residential Project. The San Antonio Medical Plaza was built, and the Lodge Residential Project is being built, on previously approved retail center sites and land use designated for residential development, respectively. The EIR for RTRP concluded that impacts on paleontological resources would be less than significant with mitigation. The environmental documents for the William Lyon Homes Residential Project and I-15 Express Lanes Project are not yet available. It is expected that the William Lyon Homes Residential project and I-15 Express Lanes Project could disturb nonrenewable paleontological resources due to their proximity to the project site. However, because the projects would be discretionary actions and subject to CEQA, the project would be required to incorporate measures to reduce impacts on unknown, nonrenewable paleontological resources. Therefore, construction activities associated with the project, in conjunction with other projects, would not result in cumulative impacts related to unknown and nonrenewable paleontological resources.

Once the proposed project and other projects are operational, they would not have the potential to affect unknown and nonrenewable paleontological resources. Therefore, operation of the proposed project, in conjunction with other projects, would not result in significant cumulative impacts under CEQA related to unknown and nonrenewable paleontological resources.

Hazards/Hazardous Materials

The RSA for hazards/hazardous materials includes the area within 0.5 mile of each side of the proposed project. The cumulative projects in the RSA for hazards/hazardous materials include the San Antonio Medical Plaza, I-15 Express Lanes Project, the Lodge, RTRP, and the William Lyon Homes Residential Project. As a condition of approval for the San Antonio Medical Plaza the owner and tenant are required to store, handle, and dispose of any hazardous or medical waste in a manner that is in accordance with all applicable federal, state, County, and City laws, regulations, and rules. Furthermore, prior to issuance of a certificate of occupancy, copies of medical waste transportation permits issued by the County of Riverside Department of Environmental Health shall be provided to the City of Eastvale Planning and Building departments. The Lodge Residential Project would not result in the storage, handling, or transport of hazards or hazardous materials. The environmental documents for the William Lyon Homes Residential Project and I-15 Express Lanes Project are not yet available, and RTRP is scheduled for construction in 2017.

According to the ISA prepared for the proposed project, several RECs are located within the proposed project boundaries (see Table 2-4). These include ACM, potential lead, and heavy metals associated with pavement striping; potential PCBs in pole- or pad-mounted electrical transformers; and a potential explosive hazard associated with the Gas Company pipeline should construction activities extend into the pipeline easement adjacent and parallel to the north side of Limonite Avenue. The EIR for RTRP concluded that the project would have less than significant impacts because it includes measures to ensure that hazardous wastes and materials are stored in a responsible manner and meet all regulatory requirements.

The proposed project, in conjunction with other projects, could expose the public to ACMs, LBP, PCBs, medical wastes, and pesticides during construction activities, should these materials be present. If construction of the William Lyon Homes were to occur at the same time, the potential would exist for additional exposure. However, adherence to project-specific requirements and measures would limit the potential for simultaneous exposure. Cumulative effects, should they occur, would be minor and temporary. Therefore, the proposed project, when combined with other projects, would not result in significant cumulative impacts under CEQA related to ACMs, LBP, PCBs, medical wastes, and pesticides.

Hydrology and Water Quality

The cumulative study area for hydrology and water quality is the Middle Santa Ana Hydrologic Area (HA), which encompasses approximately 520 square miles and includes portions of San Bernardino and northwestern Riverside County and is within the Santa Ana Hydrologic Basin Planning Area of the Santa Ana RWQCB. The Santa Ana River is the major drainage course in the Santa Ana Hydrologic Basin Planning Area.

The proposed project and other planned projects within the watershed are subject to compliance with the RWQCB's Santa Ana River Basin Plan, NPDES Permits, Riverside County codes, and pertinent city codes. Compliance with these plans and regulations would help minimize impacts on surface water runoff, groundwater recharge, groundwater elevations, and water quality impacts. As stated in the Final EIR for RTRP, with implementation of Environmental Protection Elements, BMPs as required by the SWPPP, and conformance to the standard Best Available Control Measures of both SCE and RPU, impacts on water resources would be less than significant and no mitigation measures would be required. Furthermore, the Final EIR for the Silverlakes Equestrian Project, which is pending, indicated that the project would not result in cumulatively considerable impacts on water resources, flood control, or water quality. Continued development in the project area is a continuation of the existing pattern of urban development that has resulted in extensive modifications to watercourses. The area's watercourses have been channelized, and drainage systems have been constructed in response to the urbanization and associated impervious surface area that has been created. The projects being considered for the cumulative analysis related to hydrology and water quality include all planned developments that would discharge to the Santa Ana River Hydrologic Unit. Because cumulative hydrology and water quality impacts are caused by the buildout of projects that increase the amount of impervious areas as well as pollutant loads, cumulative development is considered to be the development of all available parcels with plans for development within the Santa Ana River Hydrologic Unit over an extended period of time.

New development and redevelopment can increase urban pollutants in dry weather as well as stormwater runoff from project sites in wet weather. Each project must comply with NPDES permitting requirements and include BMPs to minimize impacts on water quality and local hydrology in compliance with local ordinances and plans adopted to comply with the MS4 Permit, Drainage Area Master Plan (DAMP), and Local Implementation Plan (LIP) as well as other applicable regulatory permits (e.g., De Minimus Permit, Construction General Permit, Section 404 Permit, 401 Water Quality Certification, CDFW Section 1600 Streambed Alteration Agreement). Each project must consider impaired receiving waters and the annual TMDL. The TMDL program identifies all constituents that adversely affect the beneficial uses of water bodies. It also identifies appropriate reductions in pollutant loads or concentrations from all sources so that the receiving waters can maintain/attain the beneficial uses found in the Basin Plan. Thus, by complying with TMDLs, the project's contribution to overall water quality improvement in the watershed, in context of the regulatory program, accounts for cumulative impacts.

The proposed project would include BMPs that would reduce pollutant concentrations in runoff from the roadway. In addition, the proposed storm drains would include longitudinal drainage systems and inlets and/or graded line drains that would be sized to accommodate runoff in the tributary watershed under buildout conditions.

Regional programs and BMPs, such as TMDL programs, the DAMP/LIP, and the MS4 Permit, have been designed in anticipation of future urbanization within the region. The regional control measures contemplate the cumulative effects of proposed development. The proposed project would be required to comply with the regulations in effect at the time the grading permits are issued. Compliance with these regional programs and the Construction General Permit constitutes compliance with programs to address cumulative water quality impacts. Therefore, the proposed project's contribution to cumulative hydrology and water quality impacts would not be substantial. The proposed project would not contribute to cumulative hydrology, floodplain, water quality, and/or stormwater runoff impacts in combination with the planned and programmed projects listed in Table 2-11.

Geology/Soils

The RSA includes the area within 0.5 mile of each side of the project. The cumulative projects in the RSA for geology and soils include the I-15 Express Lanes Project, San Antonio Medical Plaza, the Lodge, RTRP, and the William Lyon Homes Residential Project. Based on adoption of an Initial Study/Mitigated Negative Declaration, the San Antonio Medical Plaza would not have a significant effect on the environment, including geology and soils. The Lodge Residential Project would not result in significant effects on the environment, as the project would be built on land that is approved for residential development and built to standard engineering requirements. The environmental documents for the William Lyon Homes Residential Project and the I-15 Express Lanes Project are not yet available, and RTRP is scheduled for construction in 2017. Construction of RTRP and the proposed project have the potential to overlap. The EIR for RTRP concluded that the project would result in less than significant impacts on geology and soils.

The proposed project, in conjunction with other planned projects in the vicinity, may result in short-term increases in erosion due to grading activities. Increased development density in the surrounding areas could expose persons and property to potential impacts due to seismic activity.

However, construction in accordance with the accepted engineering standards and building codes, on a project-by-project basis, will reduce the potential for structural damage due to seismic activity to the maximum extent feasible.

Noise

The RSA for noise includes the area within 0.5 mile of each side of the project. The cumulative projects in the noise RSA include the I-15 Express Lanes Project, San Antonio Medical Plaza, the Lodge, RTRP, and the William Lyon Homes Residential Project. The San Antonio Medical Plaza is constructed within a retail center and complies with the City of Eastvale General Plan and Zoning Code and consistent with the development of the vicinity. Based on adoption of an Initial Study/Mitigated Negative Declaration, significant noise impacts are not anticipated to occur. The Lodge Residential Project would comply with applicable City construction noise standards to limit noise exposure to surrounding sensitive receptors. The environmental documents for the William Lyon Homes Residential Project and the I-15 Express Lanes Project are not yet available, and RTRP is scheduled for construction in 2017. The Final EIR for RTRP concludes less than significant impacts related to noise impacts, and no significant unavoidable impacts associated with noise. The timing of construction and potential alignment of RTRP and the proposed project could overlap. Compliance with city and county municipal codes would place restrictions and time limits on construction activities. Due to adherence to these codes, the cumulative impact associated with the two projects' construction noise would be less than significant. In addition, because construction-related noise generated under the proposed project would be addressed by implementation of the noise control measures provided in **NOI-1**, construction-related impacts from the proposed project would not result in a cumulatively considerable impact.

Cumulative noise impacts were considered for the future design year 2040, which accounts for future development in the project area. As a result, the analysis contained in Section 2.12 constitutes the operational noise cumulative analysis for the project.

Traffic/Transportation

The RSA for construction traffic includes the area within 0.5 mile of each side of the project. The cumulative projects in the RSA include the I-15 Express Lanes Project, San Antonio Medical Plaza, RTRP, and the William Lyon Homes Residential Project. Construction of the San Antonio Medical Plaza conforms to the requirements of the City of Eastvale General Plan and Zoning Code for its permitted use and was designed to meet and exceed the minimum development standards of the zoning district. The San Antonio Medical Plaza project does not conflict with on-street vehicular traffic of adjacent land uses. The Lodge Residential Project would comply with the General Plan and Zoning Code for residential development and be subjected to fair share improvements to lessen any impacts related to traffic. The environmental documents for the William Lyon Homes Residential Project and the I-15 Express Lanes Project are not yet available, and RTRP is scheduled for construction in 2017. The Final EIR for RTRP states that mitigation measures would reduce all potential transportation-related impacts to less than significant levels and a statement of overriding considerations would not be required. Construction of RTRP and the proposed project could occur at the same time. The proposed project includes the preparation of a TMP to reduce potential construction-related traffic conflicts, detours, and delays. The TMP would include identification of detour routes within the construction area, placement of appropriate signs, cones, and barricades in the vicinity of construction, scheduling

of construction activities during off-peak hours, and development of plans that ensure emergency access and entry to existing residences and businesses within the construction areas. Traffic control during construction may include off-peak lane closures and nighttime traffic detours to allow falsework construction. A staged construction plan would be implemented to keep the existing bridge and ramps open to traffic. This impact would be temporary and would be less than significant with the implementation of Measure **PS-1** in Section 2.14.2. Construction-related impacts from the proposed project would not result in a cumulatively considerable traffic impacts.

The traffic analysis for the proposed project is based on future traffic conditions in the Year 2040, which accounts for future development in the project area. As a result, the analysis in Section 2.16 constitutes the operational cumulative analysis for the proposed project. In 2040, without the proposed project, the northbound I-15 off-ramp to Limonite Avenue would function at an unacceptable LOS (E and F) during both the AM and PM peak hours. With the proposed project, the northbound I-15 off-ramp to Limonite Avenue would function at an acceptable LOS A for both AM and PM peak hours, and the northbound on-ramp would function at an acceptable LOS B for both AM and PM peak hours in 2040. The proposed project would generally reduce vehicle delays and improve LOS in the project area. Therefore, the proposed project is not anticipated to contribute to permanent cumulative impacts that affect mobility in the project area.

Other projects in the area may be under construction in the same timeframe as the proposed project. To the extent that construction periods overlap, there is a potential for cumulative local level traffic impacts from multiple project detours and lane reductions occurring simultaneously in and adjacent to the project area, potentially resulting in deterioration of traffic operations on local roadways. The Cities and County would coordinate the timing of project detours and lane closures for all projects in the area in order to minimize traffic impacts. With minimization Measure **PS-1**, the proposed project would have no adverse short-term impacts on traffic/transportation; therefore, the project would not contribute either directly or indirectly to a cumulatively considerable impact.

Public Services and Utilities

The RSA for the project includes the project site and properties immediately adjacent to the project. The cumulative projects in the RSA include the I-15 Express Lanes Project, San Antonio Medical Plaza, RTRP, and the William Lyon Homes Residential Project. Based on adoption of an Initial Study/Mitigated Negative Declaration, the San Antonio Medical Plaza would not result in significant impacts to public service and utilities. As a condition of approval, the developer would be required to submit a plan of water and sewer service to determine connection points. The Jurupa Community Services District will provide services contingent upon approval of an availability letter by the Board of Directors, compliance with Jurupa Community Service District rules, regulations, and payment of appropriate fees. The Lodge Residential Project would require approval and service agreements from utilities prior to permitting approval. The environmental documents for the William Lyon Homes Residential Project and the I-15 Express Lanes Project are not yet available, and RTRP is scheduled for construction in 2017. As stated in the Final EIR for RTRP, significant impacts on public services and utilities are not anticipated to occur. Furthermore, RTRP would not result in any significant unavoidable impacts on public services or utility systems. Construction of RTRP and the proposed project could occur at the same time.

Construction activities of one or more projects at the same time in the project area could result in temporary, localized, site-specific disruptions, including partial and/or complete street and lane closures, and detours. This could lead to an increase in delay times for emergency response vehicles during construction. The potential for disruption or obstruction of emergency services access in the project area to occur as a result of construction activities would be avoided with Measure **PS-1**. Cumulative effects of construction, if they occur, would be minor and temporary.

2.18.3 Avoidance, Minimization, and/or Mitigation Measures

No additional avoidance, minimization, or mitigation measures are needed beyond those proposed under the individual resource discussions.

Chapter 3 Coordination and Comments

Early and continuing coordination with the general public and appropriate public agencies is an essential part of the environmental process to determine the scope of environmental documentation, the level of analysis, potential impacts and mitigation measures, and related environmental requirements. Agency consultation and public participation for this proposed project have been accomplished through a variety of formal and informal methods, including project development team meetings, interagency coordination meetings, and coordination with resource agencies and Native American individuals and organizations. This chapter summarizes the results of the Department's efforts to fully identify, address, and resolve project-related issues through early and continuing coordination.

Consultation with several agencies occurred in conjunction with preparation of the proposed project technical reports and this Initial Study. These agencies are identified in the various technical reports and include CDFW, USFWS, and NAHC.

Members of the local government agencies have also attended monthly Project Development Team (PDT) meetings. The PDT meetings involve discussions, status, and progress of the proposed project. The representative attendees included the Department, the County of Riverside, City of Jurupa Valley, the City of Eastvale, and various consultants.

3.1 Coordination with Resource Agencies

The Department, as a State Permittee to the MSHCP, is responsible for following the State Permittee Project Review process (MSHCP, Vol. 1, Section 6.0, pages 6-84). The Department submitted the NES (MI) to CDFW and USFWS for MSHCP consistency review. Following review and consultation, the Wildlife Agencies provided the Department with a concurrence e-mail documenting MSHCP consistency (see Appendix F). An updated USFWS species list was received on October 12, 2015. One new species, thread-leaved brodiaea (*Brodiaea filifolia*), was identified on the list. However, this species is a fully covered species under the MSHCP and no suitable habitat is present, thus no survey or additional evaluation is necessary.

The NAHC was contacted on October 17, 2012 and was sent a letter and map depicting the project location. A Sacred Lands Data Files search and list of potentially interested Native American Groups and Individuals was requested. The NAHC responded on October 18, 2012. They stated that a search of their Sacred Lands Database did not yield any sacred lands or traditional cultural properties within the APE. In addition, the NAHC provided a list of Native American contacts in the region. On February 25, 2013, the Department sent letters and maps showing the project location, and a project layout map, to the contact received from the NAHC. Follow-up phone calls and emails were sent on April 10, 2013 and May 6, 2013. As of October 12, 2015, no additional responses have been received.

3.2 Coordination with Property Owners

3.2.1 Park and Ride

Coordination Meetings have also occurred to discuss the Park and Ride Facility. These meetings occurred on January 8, 2013 and March 26, 2013. The layout of the Park and Ride Facility was also presented and discussed during multiple PDT meetings. All stakeholders were in agreement with the proposed reconstruction of the Park and Ride Facility. A summary of the coordination meeting discussion is included below.

January 8, 2013 Park and Ride Facility Coordination Meeting

This meeting was attended by the property owner's representative, consultants, and the County of Riverside. Due to the impacts of the interchange project, a discussion took place to either relocate or reconfigure the Park and Ride Facility. Two options were presented for review. Option 1 places the Park and Ride Facility in a similar footprint to existing conditions, but moved slightly northerly. Option 2 places the Park and Ride Facility under the proposed utility corridor easement with an access road along the Limonite Avenue frontage. As a result of current or planned land uses, relocation would not be feasible.

March 26, 2013 Park and Ride Coordination Meeting

This meeting was attended by the property owner's representative, consultants, and the County of Riverside. A status update meeting between the Department and the project team indicated a willingness to incorporate the Park and Ride Facility parking spaces into the adjacent planned commercial development. An interim condition would be required until the adjacent commercial development is built. A preliminary interim layout was presented and discussed. The preliminary interim layout discussion topics included bus access, entrance driveways, cell tower access, grading, parking spaces, retaining wall, sidewalks, and the development proposed for the northwest quadrant of the Wineville Avenue/Limonite Avenue intersection.

3.2.2 Request for Documents

Two adjacent property owners requested copies of the technical reports that have been prepared for the project. These documents were provided to the property owners in August 2014 and November 2014, respectively.

3.3 Circulation

The Initial Study (with Proposed) Mitigated Negative Declaration (IS/MND) was circulated for public review from July 20, 2015 to August 19, 2015. The document was made available for review at the Riverside County Transportation Department, Eastvale Public Library, Glen Avon Public Library, and also made available online at www.dot.ca.gov/dist8/Project-I-15-Limonite-Interchange.html. Notices regarding the document availability were published in the Press Enterprise and La Prensa (see Appendix G). A Public Meeting was held on August 6, 2015 from 6:30 pm to 8:30 pm at Dr. Augustine Ramirez Intermediate School in the City of Eastvale and a Public Outreach Meeting was held on August 19, 2015 from 6 pm to 8 pm at the Jurupa Valley City Hall in the City of Jurupa Valley.

A total of fifteen comment letters/e-mails were received during the availability period for the Draft IS/MND. Copies of the letters/e-mails and comments, along with the responses, are

provided in Appendix H. A CD containing the Final ISMND document will be sent to those who submitted a comment (between the public review comment submittal deadline period of July 20, 2015 to August 19, 2015) and provided a valid mailing address.

Commenter	Date
A. State Clearinghouse and Planning Unit	August 19, 2015
B. South Coast Air Quality Management District	August 19, 2015
C. CA Department of Fish and Wildlife	August 18, 2015
D. Southern California Edison	August 18, 2015
E. Riverside County Flood Control and Water Conservation District	August 18, 2015
F. Public Works Department, City of Eastvale	August 19, 2015
G. Albert A. Webb Associates	August 20, 2015
H. Soboba Band of Luiseno Indians	August 17, 2015
I. Diane Vencek	July 27, 2015
J. Mike Ritchie	August 5, 2015
K. Betty Anderson	August 6, 2015
L. Stephen Anderson	August 6, 2015
M. R. O' Quinn	August 6, 2015
N. Robert Zavana	August 6, 2015
O. Diane Vencek	August 7, 2015

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Chapter 4 List of Preparers

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Bahram Karimi	Associate Environmental Planner/Paleontology
Laura Chaffin	Associate Environmental Planner/Cultural Studies
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Kyle Myrick	Associate Environmental Planner/Biology
Scott Quinnell	Senior Environmental Planner/Biology
Farhana Islam	Environmental Engineering Oversight
Donald Cheng	Environmental Engineering Oversight
Olufemi Odufalu	Senior Environmental Planner/Environmental Engineering
Roy King	Floodwater

4.2 Riverside County

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John Marcinek	Riverside County, Project Manager
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4.5 ICF International

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Peter Hardie Environmental Specialist/Noise

Tricia Campbell Fellow Technical Director/Biology

Marisa Flores Environmental Planner/Biologist

Zackry West Senior Regulatory Specialist/Biologist

Soraya Swiontek GIS Analyst

Chapter 5 Distribution List

The IS or an NOP was distributed to local and regional agencies; and utility providers affected by the proposed project. In addition, property owners directly affected by the project were provided with Notice of Availability of the document. Updates to the names/address under Local Elected Officials indicate changes that have occurred since the draft IS/MND was circulated.

Federal and State Agencies

U.S. Fish & Wildlife Service
2800 Cottage Way
Room W-2605
Sacramento CA 95825

U.S. Army Corps of Engineers
Los Angeles District
P.O. Box 532711
Los Angeles CA 90053-2325

U.S. Fish & Wildlife Service
777 E. Tahquitz Canyon Way, Suite 208
Palm Springs California 92262

California Dept. of Fish & Wildlife, Region 6
3602 Inland Empire Boulevard, Suite C-220
Ontario CA 91764

California Department of Conservation
Director
801 K Street, 24th Floor
Sacramento CA 95814

California Highway Patrol
Inland Division (801)
847 East Brier Drive
San Bernardino CA 92408-2820

California Department of Water Resources
1416 9th Street
Sacramento CA 95814

Native American Heritage Commission
915 Capitol Mall, Room 364
Sacramento CA 95814

California Air Resources Board
1001 I Street
Sacramento CA 95812

State Clearinghouse
Executive Officer
Office of Planning and Research
1400 Tenth Street
Sacramento CA 95814

State Water Resources Control Board
1001 I Street
Sacramento CA 95814

California Transit Association
Director
1415 L Street, Suite 200
Sacramento CA 95814

Regional/County/Local Agencies

Southern California Association of Governments
3600 Lime Street, Suite 216
Riverside CA 92501

Riverside County Fire Department
2300 Market Street, Suite 150
Riverside CA 92501

Water Quality Control Board
Santa Ana Region
3737 Main Street #500
Riverside CA 92501

Cal Fire/Riverside County Fire Department
210 West San Jacinto Ave,
Perris CA 92570

South Coast AQMD
IGR Coordinator
21865 East Copley Drive
Diamond Bar CA 91765

Riverside County Sheriff's Department
Jurupa Valley Station
Danny Feltenberger, Captain
7477 Mission Blvd
Riverside CA 92509

City of Eastvale
Public Works Department
12363 Limonite Ave., Suite 910
Eastvale CA 91752

Riverside County Flood Control and Water Conservation District
Warren Williams
1995 Market Street
Riverside CA 92501

City of Eastvale
Planning Department
12363 Limonite Ave., Suite 910
Eastvale CA 91752

Riverside County Planning Department
P.O. Box 1409
Riverside CA 92502-1409

Eastvale Branch Library
7447 Scholar Way
Eastvale CA 92880

Riverside County Building and Safety
4080 Lemon St. 2nd Floor
Riverside CA 92502

City of Jurupa Valley
Planning Department
8304 Limonite Avenue, Suite "M"
Jurupa Valley CA 92509

Riverside Transit Agency
1825 Third Street
P.O. Box 59968
Riverside CA 92517-1968

City of Jurupa Valley
Public Works Department
8304 Limonite Avenue, Suite "M"
Jurupa Valley CA 92509

Riverside County Transportation Commission
4080 Lemon Street, 3rd Floor
Riverside CA 92501

Glen Avon Library
9244 Galena
Jurupa Valley CA 92509

Regional Water Quality Control Board (8)
3737 Main Street, Suite 500
Riverside CA 92501

Jurupa Community Services District
8621 Jurupa Rd
Riverside CA 92509

City of Norco
City Clerk’s Office
2870 Clark Ave
Norco CA 92860

Louis Rubidoux Library
5840 Mission Blvd
Jurupa Valley CA 92509

Local Elected Officials

Hon. Ike Bootsma, Mayor
City of Eastvale
12363 Limonite Ave., Suite 910
Eastvale CA 91752

Hon. Laura Roughton, Council Member
City of Jurupa Valley
8304 Limonite Avenue, Suite “M”
Jurupa Valley CA 92509

Hon. William Link, Mayor Pro Temp
City of Eastvale
12363 Limonite Ave., Suite 910
Eastvale CA 91752

Hon. John Tavaglione, Supervisor
Riverside County Board of Supervisors,
Second District
4080 Lemon Street
P.O. Box 1646
Riverside CA 92502-1646

Hon. Clint Lorimore., Council Member
City of Eastvale
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Eastvale CA 91752

Hon. Verne Lauritzen, Council Member
City of Jurupa Valley
8304 Limonite Avenue, Suite “M”
Jurupa Valley CA 92509

Hon., Adam Rush, Council Member
City of Eastvale
12363 Limonite Ave., Suite 910
Eastvale CA 91752

Hon. William Link, Council Member
City of Eastvale
12363 Limonite Ave., Suite 910
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Hon. Frank Johnston, Mayor
City of Jurupa Valley
8304 Limonite Avenue, Suite “M”
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Hon. Michael Goodland, Mayor Pro-Tem
City of Jurupa Valley
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Hon. Brad Hancock, Council Member
City of Jurupa Valley
8304 Limonite Avenue, Suite “M”
Jurupa Valley CA 92509

Hon. Joseph Tessari, Council Member
City of Eastvale
12363 Limonite Avenue, Suite 910
Eastvale, CA 91752

Interested Groups, Organizations, and Individuals

Soboba Band of Luiseno Indians
Joseph Ontiveros, Cultural Resource
Department
P.O. Box 487
San Jacinto CA 92581

Rincon Band of Mission Indians
Bo Mazzetti, Chairperson
P.O. Box 68
Valley Center CA 92082

Morongongo Band of Mission Indians
Michael Contreras
Cultural Heritage Program Manager
13000 Field Road
Cabazon CA 92230

Ramona Band of Cahuilla Indians
John Gomez, Jr., Cultural Resources
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Anza CA 92539

Pechanga Cultural Resources Department
Anna Hoover, Cultural Analyst
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Temecula CA 92593

Utilities, Services, Businesses, and Other Property Owners

AT&T Communications
Susan Blackwell
1265 N. Van Buren, Room 180
Anaheim CA 92807

Southern California Gas Company
Albert Cardoza
Planning Department
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AT&T Cellular
Matt Kang
Cable Engineering Services
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Sprint Cellular
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CPM for Riverside Area
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Time Warner Telecom
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Jurupa Community Services District
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T Mobile
Robert Norton
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Burrtec
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Fontana CA 92335

Mr. Rick Bondar
McCune & Associates, Inc.
12080 Bellegrave Ave.
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Metro PCS
John Beke
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APV INV PA 16
C/O Anthony P Vernola
P.O. Box 217
Upland CA 91784

Riverside Transmission Reliability Project
City of Riverside, Public Utilities Dept.
George Hanson
3901 Orange Street
Riverside CA 92522

Kohls Department Stores Inc
C/O Accting
1156 N Mountain Avenue
Upland CA 91786

Corona Norco Unified School District
C/O Ted E. Rozzi
28213 Clark Avenue
Norco CA 92860

WLPX Eastvale
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Michael Jason Hull
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Phelan CA 92329

Homecoming III at Eastvale
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MGP X Vernola
C/O Merlone Geir Management
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1156 N Mountain Ave
Upland CA 91786

County of Riverside
C/O Assistant Director Real Estate
P.O. Box 1180
Riverside CA 92502

Eastvale Gateway III
C/O Lewis Operating Corp
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Upland CA 91785

Mira Loma JC
C/O Farmers & Merchants Bank
302 Pine Ave
Long Beach CA 90802

Eastvale Gateway I
C/O Lewis Operating Corp
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Upland CA 91785

Eastvale San Antonio Mob
C/O San Antonio Comm Hospital
999 San Bernardino Rd
Upland CA 91786

Tarpon Prop Ownership 2
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18021 Von Karman Ste 1170
Irvine CA 92612

Nu Way Industries Inc
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Arcadia CA 91066

Southern California Edison
Orestes Boborques
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Fontana CA 92336

Ter Maaten Family Partnership
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Escalon CA 95320

RHKIDS
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Beverly Hills CA 90212

Jurupa Area Recreation Park Dist
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Riverside CA, 92509

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Karraa Real Property 2
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Tarzana CA 91356

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C/O Laila Rose
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Moorpark CA 93021

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Jurupa Area Recreation & Park Dist
C/O Brehm Comm
2714 Loker Ave W Ste 300
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C/O San Antonio Comm Hospital
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Santa Ana River Water Co
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Mira Loma CA 91752

Walgreen Co
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C/O Real Estate Division
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Homecoming IV at Eastvale
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C/O Real Estate Dept
7132 Regal Ln
Knoxville TN 37918

Cloverdale Marketplace
C/O Richard Teaman
P.O. Box 6317
Norco CA 92860

Chino Basin Desalter Authority
C/O Jurupa Comm Services Dist
11201 Harrell St
Mira Loma CA 91752

CFT Dev
C/O Legal Dept
1683 Walnut Grove Ave
Rosemead CA 91770

James C McGrew
P.O. Box 493
Fawnskin CA 92333

Lowes HIW Inc
C/O Legal Dept
P.O. Box 1111
North Wilkesboro NC 28659

Serafina Community Assn
C/O Euclid Mgmt Co
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Upland CA 91786

Homecoming II at Eastvale
C/O Lewis Operating Corp
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Upland CA 91785

Eastvale San Antonio Land Co
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P.O. Box 105842
Atlanta GA 30348

J & R Hock Enterprises Inc
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P.O. Box 661238
Arcadia CA 91066

Chino Basin Desalter Authority
C/O Jurupa Comm Services Dist
11201 Harrel St
Mira Loma CA 91752

Vons Companies Inc
C/O Donn Matsuzaki
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Walnut Creek CA 94596

12071 Bellegrave Ave
C/O IDI Inc
3424 Peachtree Rd No 1500
Atlanta GA 30326

Eastvale Gateway
C/O Lewis Operating Corp
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Upland CA 91785

Target Corp
RE Existing Purchase Agreement Ca
1000 Nicollet Mall TPN 12
Minneapolis MN 55403

Mira Loma Smiles Dentistry
Evelyn Lindley, Office Manager
6445 Pats Ranch Rd
Mira Loma CA 91752

BevMo!
Jamie Wojick
6477 Pats Ranch Rd
Mira Loma CA 91752

Jojo's Pizza Kitchen
Miguel Hernandez
6237 Pats Ranch Rd
Mira Loma CA 91752

Denny's
General Manager
6285 Pats Ranch Rd
Mira Loma CA 91752

Del Taco
Store Manager
6269 Pats Ranch Rd
Mira Loma CA 91752

Lowe's Home Improvement
Tim Overon
6413 Pats Ranch Rd
Mira Loma CA 91752

Fitness 19
Store Manager
6429 Pats Ranch Rd
Mira Loma CA 91752

Eastvale Gateway South
C/O Lewis Retail Centers
12471 Limonite Ave
Mira Loma CA 91752

Yogurtland Mira Loma
Store Manager
12530 Limonite Ave
Eastvale CA 91752

Starbucks
Karl Smith
6170 Hamner Ave
Riverside CA 92505

Petco Animal Supplies
Roger P.
6301 Pats Ranch Rd
Mira Loma CA 91752

Vernola Marketplace
Katy Noel, Property Contact
6237 Pats Ranch Rd
Jurupa CA 91752

Ross Dress for Less
Rosie, Store Manager
6317 Pats Ranch Rd
Mira Loma CA 91752

Five Guys Burgers and Fries
Store Manager
6285 Pats Ranch Rd
Jurupa Valley CA 91752

Michaels
Store Manager
6381 Pats Ranch Rd
Mira Loma CA 91752

Kristie Vo Optometrist: Vo Kristie OD
Kristie Vo
6445 Pats Ranch Rd
Mira Loma CA 91752

Walgreens Store Eastvale
Suya Xie
12574 Limonite Ave
Eastvale CA 91752

Vons
Marwan Dababanh
6170 Hamner Ave
Eastvale CA 91752

The Home Depot
A Qiang
6140 Hamner Ave
Mira Loma CA 91752

Starbucks
Store Manager
6170 Hamner Avenue
Mira Loma CA 91752

T.J. Maxx
Julia P.
12387 Limonite Ave
Mira Loma CA 91752

Sport Chalet
Michael Berlock
12399 Limonite Ave
Mira Loma CA 91752

Buffalo Wild Wings
Store Manager
12411 Limonite Ave #650
Mira Loma CA 91752

Kohl's Mira Loma
Nancy Neal
12315 Limonite Ave
Mira Loma CA 91752

Edwards Theaters Eastvale Gateway
Stadium 14 Movie Theater
Store Management
12285 Limonite Ave
Mira Loma CA 91752

Little Caesars Pizza
Store Manager
12552 Limonite Ave #100
Eastvale CA 91752

DV Urgent Care & Family Practice
Office Manager
6080 Hamner Ave #100
Mira Loma CA 91752

Tutor Time in Eastvale CA
Tammie, Director
6020 Hamner Ave
Eastvale CA 91752

One Touch Beauty
Store Manager
12552 Limonite Ave
Mira Loma CA 91752

Hair Elegance
Monique or Store Manager
12523 Limonite Ave
Mira Loma CA 91752

GNC
Jerome Watts
12523 Limonite Ave
Mira Loma CA 91752

Bank of America
Branch Manager
12511 Limonite Ave.
Mira Loma CA 91752

The UPS Store
Robert Wang
12523 Limonite Ave
Mira Loma CA 91752

Banfield Pet Hospital
Office Manager
12483 Limonite Ave
Mira Loma CA 91752

Target
Store Manager
12471 Limonite Ave
Mira Loma CA 91752

Carino's Italian Grill
Tad Stockery
12447 Limonite Ave,
Mira Loma CA 91752

Sunrise Optometry
Dr. Vinnie Tieu, OD
12435 Limonite Ave #560
Mira Loma CA 91752

Party City
Marie Hidalgo
12339 Limonite Ave
Mira Loma CA 91752

Styles For Less
Amanda Gomez
12363 Limonite Ave
Eastvale CA 91752

Pinkberry
Store Manager
12257 Limonite Ave
Mira Loma CA 91752

Tilly's
Store Manager
12327 Limonite Ave
Mira Loma CA 91752

Nutrishop
Store Manager
12303 Limonite Ave
Mira Loma CA 91752

On the Border
Heather Colburn
12269 Limonite Ave
Mira Loma CA 91752

Best Buy
Jimmy Morris
12281 Limonite Ave
Eastvale CA 91752

Game Stop
Chris Acker
12303 Limonite Ave
Mira Loma CA 91752

Staples
Tom Johnson
12495 Limonite Ave
Mira Loma CA 91752

Chase Bank
Branch Manager
6060 Hamner Ave
Eastvale CA 91752

Applebee's
Rafael Vasquez
12375 Limonite Ave
Mira Loma CA 91752

Chapter 6 References

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_____. 2013d. *Traffic Validation Data Values Memorandum*. August.

_____. 2013e. *Final Aerially Deposited Lead Report for the Interstate 15/Limonite Avenue Interchange Improvement Project*. August.

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Appendix A – Title VI Policy Statement

DEPARTMENT OF TRANSPORTATION

OFFICE OF THE DIRECTOR
P.O. BOX 942873, MS-49
SACRAMENTO, CA 94273-0001
PHONE (916) 654-5266
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*Flex your power!
Be energy efficient!*

March 2013

**NON-DISCRIMINATION
POLICY STATEMENT**

The California Department of Transportation, under Title VI of the Civil Rights Act of 1964 and related statutes, ensures that no person in the State of California shall, on the grounds of race, color, national origin, sex, disability, religion, sexual orientation, or age, be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity it administers.

For information or guidance on how to file a complaint based on the grounds of race, color, national origin, sex, disability, religion, sexual orientation, or age, please visit the following web page: http://www.dot.ca.gov/hq/bep/title_vi/t6_violated.htm.

Additionally, if you need this information in an alternate format, such as in Braille or in a language other than English, please contact the California Department of Transportation, Office of Business and Economic Opportunity, 1823 14th Street, MS-79, Sacramento, CA 95811. Telephone: (916) 324-0449, TTY: 711, or via Fax: (916) 324-1949.

A handwritten signature in blue ink, appearing to read "Malcolm Dougherty".

MALCOLM DOUGHERTY
Director

Appendix B – Environmental Commitment Record

Date: (February 2016
of approved ED)
Project Phase:
 PA/ED (DED/FED)
 PS&E Submittal
 Construction

ENVIRONMENTAL COMMITMENTS RECORD (I-15/Limonite Avenue Interchange Improvements Project)

08-RIV-15
PM 46.7 / 49.7

EA 0E-150
PN 0800020201

Avoidance, Minimization, and/or Mitigation Measures	Page # in Env. Doc.	Environmental Analysis Source (Technical Study, Environmental Document, and/or Technical Discipline)	Responsible for Development and/or Implementation of Measure	Timing/ Phase	If applicable, corresponding construction provision: (standard, special, non- standard)	Action(s) Taken to Implement Measure	Measure Completed (Date and Initials)	Remarks	Environmental Compliance	
									YES	NO
Visual/Aesthetics										
AES-1 Per Department standards regarding erosion control, exposed slopes will be revegetated.	p. 2-4	VIA	Resident Engineer / Contractor, Landscape Architect	Construction						
AES-2 Lighting for the project will be shielded.	p. 2-4	VIA	Resident Engineer / Contractor	Construction						
AES-3 The design and implementation of aesthetic elements shall be coordinated between local agencies and the Department and incorporated during final design.	p. 2-4	VIA	Resident Engineer / Contractor, Landscape Architect	Final Design						
AES-4 Aesthetic treatments shall be coordinated during final design. At a minimum, decorative railing shall be used at the overcrossing, medians shall be aesthetically treated with hardscaping and wall treatments for the overcrossing and retaining walls shall include fractured rib texture (or other similarly aesthetic texture).	p. 2-4	VIA	Resident Engineer / Contractor, Landscape Architect	Final Design						
AES-5 Existing landscaping will be replaced in-kind (ratio of 1:1) (24-inch box), or if smaller plant material is chosen, then a 5:1 plant replacement ratio and one type of ground cover (grass) will be installed.	p. 2-4	VIA	Resident Engineer/ Contractor, Landscape Architect	Construction						
AES-6 Plant material will be installed with irrigation in a meandering design within the interchange.	p. 2-4	VIA	Resident Engineer/ Contractor, Landscape Architect	Construction						
AES-7 The sound wall shall have front planting vines and an irrigation system (controller included) shall be applied to it.	p. 2-4	ISMND	Resident Engineer/ Contractor, Landscape Architect	Construction						

Date: (February 2016
of approved ED)
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Avoidance, Minimization, and/or Mitigation Measures	Page # in Env. Doc.	Environmental Analysis Source (Technical Study, Environmental Document, and/or Technical Discipline)	Responsible for Development and/or Implementation of Measure	Timing/ Phase	If applicable, corresponding construction provision: (standard, special, non-standard)	Action(s) Taken to Implement Measure	Measure Completed (Date and Initials)		Remarks	Environmental Compliance	
										YES	NO
AES-8 The meter with non-potable water will be installed as part of this project. The front planting will also be installed.	p. 2-4	ISMND	Resident Engineer/ Contractor, Landscape Architect	Construction							
Air Quality											
AQ-1 The construction contractor shall comply with Caltrans' Standard Specifications in Section 14 (2010). <ul style="list-style-type: none"> Section 14-9.01 specifically requires compliance by the contractor with all applicable laws and regulations related to air quality, including air pollution control district and air quality management district regulations and local ordinances. Section 14-9.02 is directed at controlling dust. If dust palliative materials other than water are to be used, material specifications are contained in Section 18. 	p. 2-9	Air Quality Report	Resident Engineer / Contractor	Grading/ Construction	Standard Specification 14-9						
AQ-2 Apply water or dust palliative to the site and equipment as frequently as necessary to control fugitive dust emissions. Fugitive emissions generally must meet a "no visible dust" criterion either at the point of emission or at the right of way line, depending on local regulations.	p. 2-9	Air Quality Report	Resident Engineer / Contractor	Grading/ Construction	Standard Specification 19-9.03A						
AQ-3 Spread soil binder on any unpaved roads used for construction purposes and all project construction parking areas.	p. 2-9	Air Quality Report	Resident Engineer / Contractor	Grading/ Construction							
AQ-4 Wash off trucks as they leave the right of way as necessary to control fugitive dust emissions.	p. 2-10	Air Quality Report	Resident Engineer / Contractor	Grading/ Construction							
AQ-5 Properly tune and maintain construction equipment and vehicles. Use low-sulfur fuel in all construction equipment, as provided in California Code of Regulations Title 17, Section 93114.	p. 2-10	Air Quality Report	Resident Engineer / Contractor	Grading/ Construction							

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										YES	NO
AQ-6 Develop a dust control plan documenting sprinkling, temporary paving, speed limits, and expedited revegetation of disturbed slopes as needed to minimize construction impacts on existing communities.	p. 2-10	Air Quality Report	Resident Engineer / Contractor	Grading/ Construction							
AQ-7 Locate equipment and material storage sites as far away from residential and park uses as practical. Keep construction areas clean and orderly.	p. 2-10	Air Quality Report	Resident Engineer / Contractor	Grading/ Construction							
AQ-8 Establish Environmentally Sensitive Areas (ESAs) or their equivalent near sensitive air receptors where construction activities involving extended idling of diesel equipment would be prohibited, to the extent feasible.	p. 2-10	Air Quality Report	Resident Engineer/ Contractor/ District Air Quality	Prior to Construction							
AQ-9 Use track-out reduction measures such as gravel pads at project access points to minimize dust and mud deposits on roads affected by construction traffic.	p. 2-10	Air Quality Report	Resident Engineer/ Contractor	Grading/ Construction							
AQ-10 Cover all transported loads of soils and wet materials prior to transport or provide adequate freeboard (space from the top of the material to the top of the truck) to minimize emissions of dust (particulate matter) during transportation.	p. 2-10	Air Quality Report	Resident Engineer/ Contractor	Grading/ Construction							
AQ-11 Promptly and regularly remove dust and mud on paved public roads from construction activity and traffic to decrease particulate matter.	p. 2-10	Air Quality Report	Resident Engineer/ Contractor	Grading/ Construction							
AQ-12 Route and schedule construction traffic to avoid peak travel times as much as possible to reduce congestion and related air quality impacts caused by idling vehicles along local roads.	p. 2-10	Air Quality Report	Resident Engineer/ Contractor, County	Prior to/ During Construction							
AQ-13 Install mulch or plant vegetation as soon as practicable following completion of all site disturbance activities to reduce windblown particulate in the area. Be aware that certain methods of mulch placement, such as straw blowing, may themselves cause dust	p. 2-10	Air Quality Report	Resident Engineer/ Contractor	During/ After Construction							

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EA 0E-150
PN 0800020201

Avoidance, Minimization, and/or Mitigation Measures	Page # in Env. Doc.	Environmental Analysis Source (Technical Study, Environmental Document, and/or Technical Discipline)	Responsible for Development and/or Implementation of Measure	Timing/ Phase	If applicable, corresponding construction provision: (standard, special, non-standard)	Action(s) Taken to Implement Measure	Measure Completed (Date and Initials)		Remarks	Environmental Compliance	
										YES	NO
and visible emission issues; controls, such as dampened straw, may be needed.											
AQ-14 To control the generation of construction-related fugitive dust emissions, the Department will require construction contractors to comply with SCAQMD's Rule 403 requirements.	p. 2-10	Air Quality Report	Resident Engineer/ Contractor	During Grading/ Construction							
AQ-15 Use of lighter colored pavement where feasible.	p. 2-10	Initial Study	Resident Engineer/ Contractor	Include during Final Design/ Implement during construction							
AQ-16 Use EPA Tier-3 compliant off-road construction equipment during construction.	p.2-10	Initial Study	Resident Engineer/ Contractor	During grading/ construction							
AQ-17: The following measures would ensure that adverse air quality impacts during construction are minimized: <ul style="list-style-type: none"> - Require the use of 2010 and newer diesel haul trucks (e.g., material delivery trucks and soil import/export) and if the lead agency determines that 2010 model year or newer diesel trucks cannot be obtained, the lead agency shall use trucks that meet EPA 2007 model year NOx emissions requirements. - Require all on-site construction equipment to meet the following: <ul style="list-style-type: none"> o All off road diesel-powered construction equipment greater than 50 hp shall meet the Tier 4 emission standards, where available. In addition, all construction equipment shall be outfitted with BACT devices certified by CARB. Any emissions control device used by the contractor shall achieve emissions reductions that are no less than what could be achieved by a Level 3 diesel 	p.2-10	Initial Study	Resident Engineer/ Contractor, County	During construction/After Construction							

Date: (February 2016
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Project Phase:
 PA/ED (DED/FED)
 PS&E Submittal
 Construction

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										YES	NO
<p>emissions control strategy for a similarly sized engine as defined by CARB regulations.</p> <ul style="list-style-type: none"> o A copy of each unit's certified tier specification, BACT documentation, and CARB or SCAQMD operating permit shall be provided at the time of mobilization of each applicable unit of equipment. o Encourage construction contractors to apply for SCAQMD "SOON" funds. Incentives could be provided for those construction contractors who apply for SCAQMD "SOON" funds. The "SOON" program provides funds to accelerate clean up of off-road diesel vehicles, such as heavy duty construction equipment. More information on this program can be found at the following website: Bhttp://www.aqmd.gov/home/programs/business/business-detail?title=off-road-diesel-engines. <ul style="list-style-type: none"> - Require the use of electricity from power poles rather than temporary diesel or gasoline power generators, when feasible. - Provide temporary traffic controls such as a flag person, during all phases of significant construction activity to maintain smooth traffic flow. - - Reroute construction trucks away from congested streets or sensitive receptor areas, to the extent possible. - Appoint a construction relations officer to act as a community liaison concerning on-site construction activity including resolution of issues related to PM10 generation. - Improve traffic flow by signal synchronization. 											

Date: (February 2016
of approved ED)
Project Phase:
 PA/ED (DED/FED)
 PS&E Submittal
 Construction

ENVIRONMENTAL COMMITMENTS RECORD (I-15/Limonite Avenue Interchange Improvements Project)

08-RIV-15
PM 46.7 / 49.7

EA 0E-150
PN 0800020201

Avoidance, Minimization, and/or Mitigation Measures	Page # in Env. Doc.	Environmental Analysis Source (Technical Study, Environmental Document, and/or Technical Discipline)	Responsible for Development and/or Implementation of Measure	Timing/ Phase	If applicable, corresponding construction provision: (standard, special, non- standard)	Action(s) Taken to Implement Measure	Measure Completed (Date and Initials)		Remarks	Environmental Compliance	
							YES	NO		YES	NO
<ul style="list-style-type: none"> - Limit soil disturbance to the amounts analyzed in the Draft MND. - All materials transported off-site shall be securely covered. - Reduce traffic speeds on all unpaved roads to 15 mph or less. - Construct or build with materials that do not require painting, to the extent feasible. - Require the use of pre-painted construction materials where possible. 											
Biological Resources											
<p>BIO-1 Burrowing Owl Preconstruction Survey and Avoidance. A preconstruction presence/absence survey for burrowing owl following MSHCP protocol must be conducted within 30 days prior to construction. The preconstruction survey will include the project impact area and a 300-foot buffer if between March 1 and August 31 (nesting season), and a 100-foot buffer if outside of this window. If the species is found nesting construction will not occur within a 300-foot buffer until either (1) a qualified ornithologist has confirmed that the pair is no longer nesting and all young (if present) are independently foraging or (2) active relocation by a properly permitted biologist will be performed with concurrence from CDFW and the U.S. Fish and Wildlife Service (USFWS). If active relocation is required then CDFW and USFWS shall be notified prior to any relocation occurring. Development of a relocation plan shall be prepared and concurred with by USFWS, CDFW, and the Riverside Conservation Authority (RCA) prior to relocation. Passive relocation will not be utilized if burrowing owl relocation is required. This measure would be superseded by any burrowing owl preconstruction survey protocol required in an aquatic</p>	p. 2-41	NES/MI	Qualified Biologist	30 days prior to construction. During owl breeding season (March 1 – August 31)	Standard Special Provision 14-6.03A						

Date: (February 2016
of approved ED)
Project Phase:
 PA/ED (DED/FED)
 PS&E Submittal
 Construction

ENVIRONMENTAL COMMITMENTS RECORD (I-15/Limonite Avenue Interchange Improvements Project)

08-RIV-15
PM 46.7 / 49.7

EA 0E-150
PN 0800020201

Avoidance, Minimization, and/or Mitigation Measures	Page # in Env. Doc.	Environmental Analysis Source (Technical Study, Environmental Document, and/or Technical Discipline)	Responsible for Development and/or Implementation of Measure	Timing/ Phase	If applicable, corresponding construction provision: (standard, special, non- standard)	Action(s) Taken to Implement Measure	Measure Completed (Date and Initials)		Remarks	Environmental Compliance	
										YES	NO
permit (Clean Water Act [CWA] 401, 404; CDFW 1602) as long as no mortality occurs to burrowing owl.											
<p>BIO-2 MSHCP Construction Guidelines. The project will implement the construction guidelines in MSHCP Volume I, Section 7.5.3, as applicable. These will be incorporated in conjunction with the BMP measures in BIO-3.</p> <ul style="list-style-type: none"> o Plans for water pollution and erosion control will be prepared for all Discretionary Projects involving the movement of earth in excess of 50 cubic yards. The plans will describe sediment and hazardous materials control, dewatering or diversion structures, fueling and equipment management practices, use of plant material for erosion control. Plans will be reviewed and approved by the County of Riverside and participating jurisdiction prior to construction. o Clearing of natural vegetation will be performed outside of the active breeding season for birds as defined in the MSHCP (March 1 through June 30). If work needs to occur during this window, BIO-4 (below) will be implemented. o When work is conducted during the fire season (as identified by the Riverside County Fire Department) adjacent to vegetation, appropriate firefighting equipment (e.g., extinguishers, shovels, water tankers) shall be available on the site during all phases of project construction to help minimize the chance of human-caused wildfires. Shields, protective mats, and/or other fire preventative methods shall be used during grinding, welding, and other spark-inducing activities. Personnel trained in fire hazards, preventative actions, and responses to fires shall advise contractors regarding fire risk from all construction-related activities. 	p. 2-42	NES/MI	Resident Engineer/ Contractor/ Qualified Biologist	Construction							

Date: (February 2016
of approved ED)
Project Phase:
 PA/ED (DED/FED)
 PS&E Submittal
 Construction

ENVIRONMENTAL COMMITMENTS RECORD (I-15/Limonite Avenue Interchange Improvements Project)

08-RIV-15
PM 46.7 / 49.7

EA 0E-150
PN 0800020201

	Page # in Env. Doc.	Environmental Analysis Source (Technical Study, Environmental Document, and/or Technical Discipline)	Responsible for Development and/or Implementation of Measure	Timing/ Phase	If applicable, corresponding construction provision: (standard, special, non- standard)	Action(s) Taken to Implement Measure	Measure Completed (Date and Initials)		Remarks	Environmental Compliance	
										YES	NO
Avoidance, Minimization, and/or Mitigation Measures											
<ul style="list-style-type: none"> o Training of construction personnel will be provided. A qualified biologist will conduct a training session for Project personnel prior to grading. The training will include a description of the species of concern and its habitats, the general provisions of the Federal Endangered Species Act (FESA) and the MSHCP, the need to adhere to the provisions of the FESA and the MSHCP, the penalties associated with violating the provisions of the FESA, the general measures that are being implemented to conserve the species of concern as they relate to the Project, and the access routes to and Project site boundaries within which the Project activities must be accomplished. o The qualified Project biologist will monitor construction activities for the duration of the Project to ensure that practicable measures are being employed to avoid incidental disturbance of habitat and species of concern outside the Project footprint (MSHCP Vol. I, Section 7.5.3). Additionally, ongoing monitoring and reporting will occur for the duration of the construction activity to ensure implementation of best management practices (BMPs). o Construction employees will strictly limit their activities, vehicles, equipment, and construction materials to the proposed Project footprint and designated staging areas and routes of travel. The construction area(s) will be the minimal area necessary to complete the Project and will be specified in the construction plans. Construction limits will be demarcated using environmentally sensitive area fencing (e.g., orange snow screen). Exclusion fencing should be maintained until the completion of all construction activities. 											

Date: (February 2016
of approved ED)
Project Phase:
 PA/ED (DED/FED)
 PS&E Submittal
 Construction

ENVIRONMENTAL COMMITMENTS RECORD (I-15/Limonite Avenue Interchange Improvements Project)

08-RIV-15
PM 46.7 / 49.7

EA 0E-150
PN 0800020201

Avoidance, Minimization, and/or Mitigation Measures	Page # in Env. Doc.	Environmental Analysis Source (Technical Study, Environmental Document, and/or Technical Discipline)	Responsible for Development and/or Implementation of Measure	Timing/ Phase	If applicable, corresponding construction provision: (standard, special, non- standard)	Action(s) Taken to Implement Measure	Measure Completed (Date and Initials)		Remarks	Environmental Compliance	
										YES	NO
<ul style="list-style-type: none"> o Exotic species removed during construction will be properly handled to prevent sprouting or regrowth. o Sediment and erosion control measures will be implemented until such time soils are determined to be successfully stabilized. o Short-term stream diversions will be accomplished by use of sand bags or other methods that will result in minimal instream impacts. Short-term diversions will consider effects on wildlife. o Silt fencing or other sediment trapping materials will be installed at the downstream end of construction activities to minimize the transport of sediments off-site. o No erodible materials will be deposited into water courses. Brush, loose soils, or other debris material will not be stockpiled within stream channels or on adjacent banks. o The footprint of disturbance will be minimized to the maximum extent feasible. Access to sites will occur on pre-existing access routes to the greatest extent possible. o The limits of disturbance, including the upstream, downstream and lateral extents, will be clearly defined and marked in the field. Monitoring personnel will review the limits of disturbance prior to initiation of construction activities. o During construction, the placement of equipment within the stream or on adjacent banks or adjacent upland habitats occupied by Covered Species that are outside of the project footprint will be avoided. 											

Date: (February 2016
of approved ED)
Project Phase:
 PA/ED (DED/FED)
 PS&E Submittal
 Construction

ENVIRONMENTAL COMMITMENTS RECORD (I-15/Limonite Avenue Interchange Improvements Project)

08-RIV-15
PM 46.7 / 49.7

EA 0E-150
PN 0800020201

	Page # in Env. Doc.	Environmental Analysis Source (Technical Study, Environmental Document, and/or Technical Discipline)	Responsible for Development and/or Implementation of Measure	Timing/ Phase	If applicable, corresponding construction provision: (standard, special, non- standard)	Action(s) Taken to Implement Measure	Measure Completed (Date and Initials)		Remarks	Environmental Compliance	
										YES	NO
Avoidance, Minimization, and/or Mitigation Measures											
<ul style="list-style-type: none"> ○ Ongoing monitoring and reporting will occur for the duration of the construction activity to ensure implementation of best management practices. ○ Active construction areas shall be watered regularly to control dust and minimize impacts to adjacent vegetation (MSHCP Vol. I, Section 7.5.3). ○ All equipment maintenance, staging, and dispensing of fuel, oil, coolant, or any other toxic substances shall occur only in designated areas within the proposed grading limits of the project site. These designated areas shall be clearly marked and located in such a manner as to contain run-off. 											
<p>BIO-3 Standard Best Management Practices. MSHCP best management practices (BMPs) will be implemented during construction (MSHCP Volume I, Appendix C), as applicable. Some of the measures in BIO-2 would also be considered BMPs and would apply in conjunction with the measures below.</p> <ul style="list-style-type: none"> ○ Water pollution and erosion control plans shall be developed and implemented in accordance with Regional Water Quality Control Board (RWQCB) requirements. ○ The footprint of disturbance shall be minimized to the maximum extent feasible. Employees will be instructed that their activities are restricted to the construction areas. Access to sites shall be via pre-existing access routes to the greatest extent possible. ○ When stream flows must be diverted, the diversions shall be conducted using sandbags or other methods requiring minimal instream impacts. Silt fencing of other sediment trapping materials shall be installed at the downstream end of construction activity to minimize the transport of 	p. 2-43	NES/MI	Resident Engineer/ Contractor/ Qualified Biologist	Construction							

Date: (February 2016
of approved ED)
Project Phase:
 PA/ED (DED/FED)
 PS&E Submittal
 Construction

ENVIRONMENTAL COMMITMENTS RECORD (I-15/Limonite Avenue Interchange Improvements Project)

08-RIV-15
PM 46.7 / 49.7

EA 0E-150
PN 0800020201

Avoidance, Minimization, and/or Mitigation Measures	Page # in Env. Doc.	Environmental Analysis Source (Technical Study, Environmental Document, and/or Technical Discipline)	Responsible for Development and/or Implementation of Measure	Timing/ Phase	If applicable, corresponding construction provision: (standard, special, non- standard)	Action(s) Taken to Implement Measure	Measure Completed (Date and Initials)		Remarks	Environmental Compliance	
										YES	NO
<p>sediments offsite. Settling ponds where sediment is collected shall be cleaned out in a manner that prevents the sediment from reentering the stream.</p> <ul style="list-style-type: none"> o Care shall be exercised when removing silt fences, as feasible, to prevent debris or sediment from returning to the stream. o Equipment storage, fueling, and staging areas shall be located on upland sites with minimal risks of direct drainage into riparian areas or other sensitive habitats. These designated areas shall be located in such a manner as to prevent any runoff from entering sensitive habitat. Necessary precautions shall be taken to prevent the release of cement or other toxic substances into surface waters. Project related spills of hazardous materials shall be reported to appropriate entities including but not limited to applicable jurisdictional city, USFWS, and CDFW, RWQCB and shall be cleaned up immediately and contaminated soils removed to approved disposal areas. o The qualified project biologist shall monitor construction activities for the duration of the project to ensure that practicable measures are being employed to avoid incidental disturbance of habitat and species of concern outside the project footprint. o The removal of native vegetation shall be avoided and minimized to the maximum extent practicable. Temporary impacts shall be returned to pre-existing contours and revegetated with appropriate native species. o To avoid attracting predators of the species of concern, the project site shall be kept as clean of debris as possible. All 											

Date: (February 2016
of approved ED)
Project Phase:
 PA/ED (DED/FED)
 PS&E Submittal
 Construction

ENVIRONMENTAL COMMITMENTS RECORD (I-15/Limonite Avenue Interchange Improvements Project)

08-RIV-15
PM 46.7 / 49.7

EA 0E-150
PN 0800020201

Avoidance, Minimization, and/or Mitigation Measures	Page # in Env. Doc.	Environmental Analysis Source (Technical Study, Environmental Document, and/or Technical Discipline)	Responsible for Development and/or Implementation of Measure	Timing/ Phase	If applicable, corresponding construction provision: (standard, special, non- standard)	Action(s) Taken to Implement Measure	Measure Completed (Date and Initials)		Remarks	Environmental Compliance	
										YES	NO
food related trash items shall be enclosed in sealed containers and regularly removed from the site(s). o The Permittee shall have the right to access and inspect any sites of approved projects including any restoration/enhancement area for compliance with project approval conditions including these BMPs.											
BIO-4 A pre-construction nesting bird survey will be conducted no more than 3 days prior to vegetation clearing, ground disturbance, or construction activities(including staging) during the breeding season (March 1 to August 31 for nonraptors, January 15 to June 30 for raptors). The survey will occur within the 300-foot buffer area for raptors and within the 200-foot buffer area for other birds. If nesting birds (or raptors) are found, an avoidance buffer will be established by a qualified biologist and will remain until a qualified biologist has determined that young have fledged or nesting activities have ceased. This measure will be superseded by any preconstruction nesting bird survey measure(s) required in an aquatic permit (CWA 401, 404; CDFW 1602).	p. 2-44	NES/MI	Qualified Biologist	Prior to Construction (30 days prior to vegetation clearing, ground disturbance, or construction if work would occur between January 15 to August 31 [remainder of measure would apply only if nesting birds or raptors are found])	Standard Special Provision 14-6.03A						
BIO-5 Preconstruction Bat Survey. To prevent impacts on daytime bat roosts and maternity roosts, a qualified biologist experienced	p. 2-45	NES/MI	Qualified Biologist	Prior to Construction							

Date: (February 2016
of approved ED)
Project Phase:
 PA/ED (DED/FED)
 PS&E Submittal
 Construction

ENVIRONMENTAL COMMITMENTS RECORD (I-15/Limonite Avenue Interchange Improvements Project)

08-RIV-15
PM 46.7 / 49.7

EA 0E-150
PN 0800020201

	Page # in Env. Doc.	Environmental Analysis Source (Technical Study, Environmental Document, and/or Technical Discipline)	Responsible for Development and/or Implementation of Measure	Timing/ Phase	If applicable, corresponding construction provision: (standard, special, non- standard)	Action(s) Taken to Implement Measure	Measure Completed (Date and Initials)		Remarks	Environmental Compliance	
										YES	NO
<p>Avoidance, Minimization, and/or Mitigation Measures</p> <p>with southern California bat species will conduct bat and bat roosting site surveys prior to removal of mature trees. This preconstruction survey will be conducted at any mature tree proposed for removal and within any man-made structure (e.g. bridges and culverts) that would be suitable for bat species within 100 feet of the PIA. If roosting sites or bats are not found, a report confirming their absence will be sent to the CDFW and no further mitigation will be required.</p> <p>If the preconstruction survey determines bats are roosting, and tree removal is scheduled to occur between October 1 and March 30 (outside of the maternity season of April 1 through September 30), the following two-step cutting process would occur:</p> <ol style="list-style-type: none"> 1. Surrounding branches that do not house bats at the time that the eviction would occur would be removed. This would alter the condition of the roost tree, causing bats to abandon the roost. 2. The tree can then be fully removed. A visual inspection of the roost tree would be required prior to removal to verify that all bats have been successfully excluded. This work will be completed by a bat exclusion professional. <p>If the preconstruction survey finds bats to be roosting and tree removal is scheduled to occur during the maternity season (April 1 through September 30), a qualified biologist will monitor the roost to determine if the roost site is a maternal roost. This may be determined by either visual inspection of the roost for bat pups, if possible, or monitoring the roost after the adults leave for the night to listen for bat pups. If the roost is determined to not be a maternal roost, then the bats will be evicted as described above. If the roost is determined to be a maternal</p>				(Surveys to be conducted prior to removal of any mature trees [remainder of measure would be implemented if any bats are found])							

Date: (February 2016
of approved ED)
Project Phase:
 PA/ED (DED/FED)
 PS&E Submittal
 Construction

ENVIRONMENTAL COMMITMENTS RECORD (I-15/Limonite Avenue Interchange Improvements Project)

08-RIV-15
PM 46.7 / 49.7

EA 0E-150
PN 0800020201

	Page # in Env. Doc.	Environmental Analysis Source (Technical Study, Environmental Document, and/or Technical Discipline)	Responsible for Development and/or Implementation of Measure	Timing/ Phase	If applicable, corresponding construction provision: (standard, special, non- standard)	Action(s) Taken to Implement Measure	Measure Completed (Date and Initials)		Remarks	Environmental Compliance	
							YES	NO		YES	NO
Avoidance, Minimization, and/or Mitigation Measures											
<p>roost, eviction cannot occur during the nursery season, as bat pups cannot leave the roost until they have reached maturity. In this case, a 250-foot-wide buffer zone (or an alternative width, as determined in consultation with CDFW) will be established around the roosting site, within which no construction-related impacts will occur until the bat pups are mature enough to permanently leave the roost.</p> <p>If bat roosts are found within man-made structures during the maternity season (April 1 through September 30), no work will be permitted. In this case, a 250-foot-wide buffer zone (or an alternative width, as determined in consultation with CDFW) will be established around the roosting site, within which no construction-related impacts will occur until the bat pups are mature enough to permanently leave the roost. If the roost is determined to not be a maternal roost, then bats will be evicted by a bat exclusion professional.</p>											
Cultural Resources											
CR-1	If cultural materials are discovered during construction, all earth-moving activity within and around the immediate discovery area will be diverted until a qualified archeologist can assess the nature and significance of the find.	p. 2-48	HPSR/ASR	Resident Engineer / Contractor	All ground disturbing activities/ Construction	Standard Specification 14-2.02A					
CR-2	In the event that human remains are found, the county coroner shall be notified and ALL construction activities within 60 feet of the discovery shall stop. Pursuant to Public Resources Code Section 5097.98, if the remains are thought to be Native American, the coroner will notify the Native American Heritage Commission (NAHC) who will then notify the Most Likely Descendent (MLD). The person who discovered the remains will contact the District 8 Division of Environmental Planning;	p. 2-48	HPSR/ASR	Resident Engineer / Contractor	All ground disturbing activities/ Construction						

Date: (February 2016
of approved ED)
Project Phase:
 PA/ED (DED/FED)
 PS&E Submittal
 Construction

ENVIRONMENTAL COMMITMENTS RECORD (I-15/Limonite Avenue Interchange Improvements Project)

08-RIV-15
PM 46.7 / 49.7

EA 0E-150
PN 0800020201

Avoidance, Minimization, and/or Mitigation Measures	Page # in Env. Doc.	Environmental Analysis Source (Technical Study, Environmental Document, and/or Technical Discipline)	Responsible for Development and/or Implementation of Measure	Timing/ Phase	If applicable, corresponding construction provision: (standard, special, non- standard)	Action(s) Taken to Implement Measure	Measure Completed (Date and Initials)		Remarks	Environmental Compliance	
										YES	NO
Gabrielle Duff, DEBC: (909)383-6933 and Gary Jones, DNAC: (909)383-7505. Further provisions of PRC 5097.98 are to be followed as applicable.											
Paleontology											
<p>PALEO-1 A Paleontological Mitigation Plan (PMP) shall be developed and implemented prior to commencement of project construction. The PMP shall follow the guidelines of the Department and the recommendations of the Society of Vertebrate Paleontology (SVP). These recommendations include:</p> <ul style="list-style-type: none"> Attendance by a qualified paleontologist at the preconstruction meeting to consult with the grading and excavation contractors. On-site presence of a paleontological monitor to inspect for paleontological resources on a full-time basis during the original cutting of previously undisturbed deposits of high paleontological resource potential and on a part-time basis during the original cutting of previously undisturbed deposits of low paleontological resource potential. Salvage and recovery of paleontological resources by the qualified paleontologist or paleontological monitor. Collection of stratigraphic data by the qualified paleontologist and/or paleontological monitor to provide a stratigraphic context for recovered paleontological resources. Preparation (repair and cleaning), sorting, and cataloguing of recovered paleontological resources. 	p. 2-48	PIR/PER	Qualified Paleontologist	During PS&E							

Date: (February 2016
of approved ED)
Project Phase:
 PA/ED (DED/FED)
 PS&E Submittal
 Construction

ENVIRONMENTAL COMMITMENTS RECORD (I-15/Limonite Avenue Interchange Improvements Project)

08-RIV-15
PM 46.7 / 49.7

EA 0E-150
PN 0800020201

Avoidance, Minimization, and/or Mitigation Measures	Page # in Env. Doc.	Environmental Analysis Source (Technical Study, Environmental Document, and/or Technical Discipline)	Responsible for Development and/or Implementation of Measure	Timing/ Phase	If applicable, corresponding construction provision: (standard, special, non- standard)	Action(s) Taken to Implement Measure	Measure Completed (Date and Initials)		Remarks	Environmental Compliance		
							YES	NO		YES	NO	
<ul style="list-style-type: none"> Donation of prepared fossils, field notes, photographs, and maps to a scientific institution with permanent paleontological collections, such as the San Bernardino county Museum (SBCM). Completion of a final summary report that outlines the results of the mitigation program. <p>The PMP shall also incorporate the general guidelines for conformable impact mitigation to significant nonrenewable paleontological resources as developed by the SVP (1995). A PMP shall be prepared and submitted to the Department for review during the Plans, Specifications, and Estimates (PS&E) phase of the project</p>												
Hazards and Hazardous Materials												
HAZ-1 To avoid impacts from pavement striping during construction, testing and removal requirements for yellow striping and pavement marking materials shall be performed in accordance with Caltrans Standard Special Provision 15 2.02C(2) "REMOVE TRAFFIC STRIPES AND PAVEMENT MARKINGS CONTAINING LEAD". This Standard Special Provision requires a lead compliance plan for removal when residue is non-hazardous.	p. 2-69	ISA	Resident Engineer/ Contractor	Prior to Construction								
HAZ-2 Any leaking transformers observed during the course of the project shall be considered a potential PCB hazard. Should leaks from electrical transformers (that will either remain within the construction limits or will require the removal and/or relocation) be encountered during construction, the transformer fluid shall be sampled and analyzed by qualified personnel for detectable levels of PCBs. Should PCBs be detected, the transformer shall be removed and disposed of in accordance with Title 22, Division 4.5 of the California Code of Regulations	p. 2-69	ISA	Resident Engineer/ Contractor	During Construction								

Date: (February 2016
of approved ED)
Project Phase:
 PA/ED (DED/FED)
 PS&E Submittal
 Construction

ENVIRONMENTAL COMMITMENTS RECORD (I-15/Limonite Avenue Interchange Improvements Project)

08-RIV-15
PM 46.7 / 49.7

EA 0E-150
PN 0800020201

Avoidance, Minimization, and/or Mitigation Measures	Page # in Env. Doc.	Environmental Analysis Source (Technical Study, Environmental Document, and/or Technical Discipline)	Responsible for Development and/or Implementation of Measure	Timing/ Phase	If applicable, corresponding construction provision: (standard, special, non- standard)	Action(s) Taken to Implement Measure	Measure Completed (Date and Initials)		Remarks	Environmental Compliance	
										YES	NO
and any other appropriate regulatory agency. Any stained soil encountered below electrical transformers with detectable levels of PCBs shall also be handled and disposed of in accordance with Title 22, Division 4.5 of the California Code of Regulations and any other appropriate regulatory agency.											
HAZ-3 Based on preliminary plans, right-of-way acquisition is not expected at the Chevron Gas Station, which is immediately adjacent to the project on the southwest corner of Limonite Avenue and Eastvale Gateway. Should final plans indicate that a portion of this parcel will be acquired for new right-of-way, a preliminary environmental screening (limited subsurface sampling and laboratory analysis) shall be performed for potentially elevated levels of petroleum hydrocarbons and MTBE contamination within the limits of proposed construction, and/or right-of way acquisition, adjacent to the existing Chevron Gas Station. Should the preliminary screening encounter elevated levels of petroleum hydrocarbons and/or MTBE a limited Phase II ISA shall be performed. The Phase II ISA shall consist of subsurface sampling and laboratory analysis and be of sufficient quantity to define the extent and concentration of contamination within the areal extent and depths of planned construction activities adjacent to the existing Chevron Gas Station. The Phase II ISA shall also provide both a Health and Safety Plan for worker safety and a Work Plan for handling and disposing contaminated soil during construction.	p. 2-69	ISA	Resident Engineer	Prior to Construction							
HAZ-4 Should any previously unknown hazardous waste/material be encountered during construction, Caltrans Hazards Procedures for Construction shall be followed.	p. 2-70	ISA	Resident Engineer/ Contractor	During Construction							

Date: (February 2016
of approved ED)
Project Phase:
 PA/ED (DED/FED)
 PS&E Submittal
 Construction

ENVIRONMENTAL COMMITMENTS RECORD (I-15/Limonite Avenue Interchange Improvements Project)

08-RIV-15
PM 46.7 / 49.7

EA 0E-150
PN 0800020201

Avoidance, Minimization, and/or Mitigation Measures	Page # in Env. Doc.	Environmental Analysis Source (Technical Study, Environmental Document, and/or Technical Discipline)	Responsible for Development and/or Implementation of Measure	Timing/ Phase	If applicable, corresponding construction provision: (standard, special, non- standard)	Action(s) Taken to Implement Measure	Measure Completed (Date and Initials)		Remarks	Environmental Compliance	
										YES	NO
HAZ-5: In accordance with Section 112 of the Clean Air Act, which established the National Emission Standards for Hazardous Air Pollutants (NESHAP), specific work practices will be followed during demolitions and renovations of all facilities. As such, written notification to the South Coast Air Quality Management District is required ten working days prior to commencement of any demolition.	P 2-70	ED	Resident Engineer/ Contractor	Prior to demolition							
Hydrology and Water Quality											
WQ-1 Construction site BMPs shall be implemented during construction for controlling potential pollutants on construction sites. The following BMP categories shall be considered and implemented, where feasible: Soil Stabilization Practices; Sediment Control Practices; Tracking Control Practices; Wind Erosion Control; Non-Storm Water Controls; and Waste Management and Material Pollution Controls.	p. 2-78	Location Hydraulic Study, Water Quality Questionnaire, Preliminary Geotech Design Report, Preliminary Materials Report.	Resident Engineer / Contractor	Final Design (incorporate BMPs into project), Prior to/ during grading and construction (implement BMPs)	Standard Specification 13-4.01						
WQ-2 Implement Design Pollution Prevention, Low Impact Development (LID), source control, and treatment control BMPs (where feasible and applicable) in compliance with NPDES permit requirements.	p. 2-78	Location Hydraulic Study, Water Quality Questionnaire, Preliminary Geotech Design Report, Preliminary	Resident Engineer / Contractor	Final Design (incorporate BMPs into Project), Prior to/ during grading and construction (implement BMPs)							

Date: (February 2016
of approved ED)
Project Phase:
 PA/ED (DED/FED)
 PS&E Submittal
 Construction

ENVIRONMENTAL COMMITMENTS RECORD (I-15/Limonite Avenue Interchange Improvements Project)

08-RIV-15
PM 46.7 / 49.7

EA 0E-150
PN 0800020201

Avoidance, Minimization, and/or Mitigation Measures	Page # in Env. Doc.	Environmental Analysis Source (Technical Study, Environmental Document, and/or Technical Discipline)	Responsible for Development and/or Implementation of Measure	Timing/ Phase	If applicable, corresponding construction provision: (standard, special, non- standard)	Action(s) Taken to Implement Measure	Measure Completed (Date and Initials)		Remarks	Environmental Compliance	
										YES	NO
		Materials Report.									
WQ-3 Construction will be scheduled to minimize soil-disturbing work during the rainy season.	p. 2-78	Location Hydraulic Study, Water Quality Questionnaire, Preliminary Geotech Design Report, Preliminary Materials Report.	Resident Engineer / Contractor	During ground-disturbing activities and construction							
WQ-4 A Notice of Intent will be filed with the Santa Ana Regional Water Quality Control Board (SARWQCB) for coverage under the state-wide NPDES permit for construction-related discharges. The contractor will prepare a Stormwater Pollution Prevention Plan (SWPPP) that sets forth the BMPs that will be implemented on site. The BMPs will be implemented to minimize spills and keep potentially contaminated materials used during construction out of the drainage waterways as documented in the SWPPP.	p. 2-79	Location Hydraulic Study, Water Quality Questionnaire, Preliminary Geotech Design Report, Preliminary Materials Report.	Resident Engineer / Contractor/ District Stormwater, NPDES	Final Design(incorporate BMPs into project), Prior to/ during grading and construction (implement BMPs)							
Noise											
NOI-1 As directed by the Department, the contractor will implement appropriate additional noise mitigation measures, including changing the location of stationary construction equipment, turning off idling equipment, rescheduling construction activity,	p. 2-97	NSR, NADR	Resident Engineer / Contractor	Post PS&E	Standard Special Provision 14-8.02						

Date: (February 2016
of approved ED)
Project Phase:
 PA/ED (DED/FED)
 PS&E Submittal
 Construction

ENVIRONMENTAL COMMITMENTS RECORD (I-15/Limonite Avenue Interchange Improvements Project)

08-RIV-15
PM 46.7 / 49.7

EA 0E-150
PN 0800020201

Avoidance, Minimization, and/or Mitigation Measures	Page # in Env. Doc.	Environmental Analysis Source (Technical Study, Environmental Document, and/or Technical Discipline)	Responsible for Development and/or Implementation of Measure	Timing/ Phase	If applicable, corresponding construction provision: (standard, special, non- standard)	Action(s) Taken to Implement Measure	Measure Completed (Date and Initials)		Remarks	Environmental Compliance	
										YES	NO
notifying adjacent residents in advance of construction work, and installing acoustic barriers around stationary construction noise sources.											
Public Services, Transportation and Traffic											
PS-1 A Transportation Management Plan (TMP) shall be developed by the Department to minimize potential impacts to emergency services and commuters during construction.	p. 2-104	CIA	Resident Engineer/ Contractor, County	Final Design/ Prior to construction	Standard Specification 12-4.01						
PS-2 As of November 7, 2014 California Department of Transportation has adopted the California Manual on Uniform Traffic Control Devices (California MUTCD) 2014 edition to provide for uniform standards and specifications for all official traffic control devices in California. This action was taken pursuant to the provisions of California Vehicle Code Section 21400 and the recommendation of the California Traffic Control Devices Committee (CTCDC). The Department requested and has received a letter to confirm substantial conformance from the Federal Highway Administration (FHWA) for California MUTCD 2014 edition. The California MUTCD 2014 edition includes FHWA's MUTCD 2009 edition dated December 19, 2009, as amended for use in California. The California MUTCD 2014 also includes all policies on traffic control devices issued by the Department since January 13, 2012, and other corrections and format changes that were necessary to update the previous documents.	p. 2-104	Initial Study	Resident Engineer / Contractor	Final Design/ During construction							
PS-3 Use lighting systems that are energy efficient, such as LED technology.	p. 2-104	Initial Study	Resident Engineer / Contractor	Final Design/ During construction							
PS-4 Identification of all roadway locations where special construction techniques (e.g., directional drilling or night construction) would be used to minimize impacts to traffic flow.	p. 2-104	Initial Study	Resident Engineer/ Contractor, County	Final Design/ Prior to construction							

Date: (February 2016
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Avoidance, Minimization, and/or Mitigation Measures	Page # in Env. Doc.	Environmental Analysis Source (Technical Study, Environmental Document, and/or Technical Discipline)	Responsible for Development and/or Implementation of Measure	Timing/ Phase	If applicable, corresponding construction provision: (standard, special, non- standard)	Action(s) Taken to Implement Measure	Measure Completed (Date and Initials)		Remarks	Environmental Compliance	
										YES	NO
PS-5 Development of circulation and detour plans to minimize impacts to local street circulation. This may include the use of signing and flagging to guide vehicles through and/or around the construction zone. This should be implemented in coordination with Measure PS-1 .	p. 2-104	Initial Study	Resident Engineer/ Contractor, County	Final Design/ Prior to construction							
PS-6 Limiting of lane closures during peak hours to the extent possible.	p. 2-104	Initial Study	Resident Engineer/ Contractor, County	Final Design/ Prior to construction							
PS-7 Inclusion of detours for bicycles and pedestrians in all areas potentially affected by construction. This should be implemented in coordination with Measure PS-1 .	p. 2-104	Initial Study	Resident Engineer/ Contractor, County	Final Design/ Prior to construction							
PS-8 Coordination with local transit agencies for temporary relocation of routes or bus stops in work zones, as necessary. This should be implemented in coordination with Measure PS-1 .	p. 2-104	Initial Study	Resident Engineer/ Contractor, County	Final Design/ Prior to construction							

PERMITS AND AGREEMENTS:

AGENCY	Type	Issue Date	Expiration Date
California Department of Fish and Wildlife	Section 1602 Streambed Alteration Agreement	Application to be submitted after approval of Environmental Document.	
State Water Resources Control Board	Clean Water Act Section 402 – National Pollutant Discharge Elimination System (NPDES)	SWPPP to be submitted after approval of Environmental Document.	
Regional Water Quality Control Board	Clean Water Act Section 401 Water Quality Certification	Application to be submitted after approval of Environmental Document	
U.S. Army Corps of Engineers	Clean Water Act Section 404 Nationwide Permit 14	Permit application to be submitted after approval of Environmental Document	
U.S. Fish and Wildlife Service	Section 7 Consultation, MSHCP Consistency Determination	Obtained, see Appendix F	

Appendix C – Acronyms

AB	Assembly Bill
ACM	Asbestos Containing Materials
ADA	Americans with Disabilities Act
ADL	aerially deposited lead
AHERA	Asbestos Hazard Emergency Response Act
APE	area of potential effect
APN	Assessor's Parcel Number
ARB	California Air Resources Board
ASR	Archaeological Survey Report
AULs	Activity and Use Limitations
BMPs	best management practices
BSA	biological study area
Cal/EPA	California Environmental Protection Agency
CARB (ARB)	California Air Resources Board
CCO	Community Overlay
CDFW	California Department of Fish and Wildlife
CEQ	Council on Environmental Quality
CEQA	California Environmental Quality Act
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act of 1980
CERFA	Community Environmental Response Facilitation Act
CESA	California Endangered Species Act
CFR	Code of Federal Regulations
CH ₄	methane
CHP	California Highway Patrol
CIA	Community Impact Assessment
CO	carbon monoxide
CO ₂	carbon dioxide
County	County of Riverside
CTP	California Transportation Plan
CWA	Clean Water Act
DAMP	Drainage Area Master Plan
dB	decibel
dBA	A-weighted decibel
Department (Caltrans)	California Department of Transportation
DOC	California Department of Conservation
DSA	Disturbed Soil Area
DTSC	Department of Toxic Substances Control
DWR	Department of Water Resources
EDR	Environmental Data Resources
ELAP	Environmental Laboratory Accreditation Program
EPA (U.S. EPA)	U.S. Environmental Protection Agency
EO	Executive Order
FCAA	Federal Clean Air Act

FEMA	Federal Emergency Management Agency
FESA	Federal Endangered Species Act
FHWA	Federal Highway Administration
FIFRA	Federal Insecticide, Fungicide, and Rodenticide Act
FIRM	Flood Insurance Rate Map
FMMP	Farmland Mapping and Monitoring Program
FPPA	Farmland Protection Policy Act
FTIP	Federal Transportation Improvement Program
GHG	greenhouse gas
Guidelines	Section 404(b)(1) Guidelines
H ₂ S	hydrogen sulfide
HA	Hydrologic Area
HOV	high occupancy vehicles
HPSR	Historic Property Survey Report
I-15	Interstate 15
IGR	Intergovernmental Review
IPCC	Intergovernmental Panel on Climate Change
IS	Initial Study
ISA	Initial Site Assessment
ITS	Intelligent Transportation System
kV	kilovolt
LEDPA	least environmentally damaging practicable alternative
L _{eq(h)}	hourly equivalent energy noise level
LID	Low Impact Development
LIP	Local Implementation Plan
L _{max}	maximum sound level
LOS	level of service
MBTA	Migratory Bird Treaty Act
mg/kg	milligrams per kilogram
MMT	Million Metric Tons
MND	Mitigated Negative Declaration
MPO	Metropolitan Planning Organization
MRZ	Mineral Resource Zone
MS4s	municipal separate storm sewer systems
MSHCP	Multiple Species Habitat Conservation Plan
MTBE	methyl tertiary butyl ether
MUTCD	Manual on Uniform Traffic Control Devices
N ₂ O	nitrous oxide
NAAQS	National Ambient Air Quality Standards
NAC	noise abatement criteria
NADR	Noise Abatement Decision Report
NAHC	Native American Heritage Commission
NEPA	National Environmental Policy Act
NES (MI)	Natural Environment Study (Minimal Impacts)
NESHAP	National Emissions Standards for Hazardous Air Pollutants
NHPA	National Historic Preservation Act

NHTSA	National Highway Traffic Safety Administration
NO ₂	nitrogen dioxide
NOAA	National Oceanic and Atmospheric Administration
NOAA Fisheries Service	National Oceanic and Atmospheric Administration's National Marine Fisheries Service
NOP	Notice of Preparation
NO _x	nitrogen oxide
NPDES	National Pollutant Discharge Elimination System
NSR	Noise Study Report
O ₃	ozone
OC	Overcrossing
OPR	Office of Planning and Research
OSHA	Occupational Safety and Health Act
OSHA	Occupational Safety and Health Administration
PA	Programmatic Agreement
PAC	Presumed Asbestos Containing Materials
PB	lead
PCB	polychlorinated biphenyls
PDT	Project Development Team
PIA/LOD	project impact area/limits of disturbance
PIR/PER	Paleontological Identification Report/Paleontological Evaluation Report
PM	particulate matter
PM	post mile
PM ₁₀	particles of 10 micrometers or smaller
PM _{2.5}	particles of 2.5 micrometers and smaller
PMP	Paleontological Mitigation Plan
PQP	Public/Quasi-Public
PRC	Public Resources Code
PS&E	Plans, Specifications, and Estimates
Qoa	very old alluvial channel deposits
Qye	young eolian deposits
RAP	Relocation Assistance Program
RCRA	Resource Conservation and Recovery Act of 1976
RCTC	Riverside County Transportation Commission
REC	Recognized Environmental Condition
ROG	reactive organic gas
RPU	Riverside Public Utilities
RSA	resource study area
RSS	Riversidian Sage Scrub
RTP	Regional Transportation Plan
RTRP	Riverside Transmission Reliability Project
RWQCB	Regional Water Quality Control Board
SB	Senate Bill
SBCM	San Bernardino County Museum
SCAB	South Coast Air Basin
SCAG	Southern California Association of Governments

SCAQMD	South Coast Air Quality Management District
SCS	Sustainable Communities Strategy
SDC	Seismic Design Criteria
SF ₆	sulfur hexafluoride
SHPO	State Historic Preservation Officer
SO ₂	sulfur dioxide
SSP	Standard Special Provision
SVP	Society of Vertebrate Paleontology
SWMP	Storm Water Management Plan
SWPPP	Storm Water Pollution Prevention Plan
SWRCB	State Water Resources Control Board
TMDL	Total Maximum Daily Load
TMP	Traffic Management Plan
TSCA	Toxic Substances Control Act
TTLC	total threshold limit concentrations
TUMF	Transportation Uniform Mitigation Fee
U.S.	United States
U.S. EPA	United States Environmental Protection Agency
UBC	Uniform Building Code
USACE	U.S. Army Corps of Engineers
USC	United States Code
USDOT	U.S. Department of Transportation
USFWS	U.S. Fish and Wildlife Service
UST	Underground Storage Tank
VIA	Visual Impact Assessment
VMT	vehicle miles traveled
WDR	Waste Discharge Requirement
WoS	Waters of the State
WoUS	Waters of the U.S.
WPCP	Water Pollution Control Plan

Appendix D – USFWS Species List



United States Department of the Interior



FISH AND WILDLIFE SERVICE

Carlsbad Fish and Wildlife Office
2177 SALK AVENUE - SUITE 250
CARLSBAD, CA 92008

PHONE: (760)431-9440 FAX: (760)431-5901

URL: www.fws.gov/carlsbad/

Consultation Code: 08ECAR00-2015-SLI-0036

October 12, 2015

Event Code: 08ECAR00-2016-E-00058

Project Name: I-15 Limonite IC -- created on October 20, 2014 12:24

Subject: Updated list of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, and proposed species, designated critical habitat, and candidate species that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>; <http://www.towerkill.com>; and <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment