HEARING DATE: April 5, 2018

Project Description

APN: 0498-232-47
Applicant: Kiewit Infrastructure West Company
Community: Kramer Junction/1st Supervisorial District
Location: North side of SR-58, 3.5 miles west of Kramer Junction.

Project No: AP20170102
Staff: Linda Mawby
App Rep: Martin Derus, Liburn Corp
Proposal: Mining Conditional Use Permit and Reclamation Plan for a 63.75-acre portion of a 100-acre parcel to provide fill material for construction of the Caltrans SR-58 Expressway over a 3-year period of operation.

Newspaper Publication Date: March 25, 2018
35 Hearing Notices Sent On: March 23, 2018
Report Prepared By: Linda Mawby

SITE INFORMATION

Project Size: 63.75 Acres
Terrain: Generally flat Mojave Desert alluvial terrain and dry lake bed.
Vegetation: Saltbush and alkali sink scrub.

SURROUNDING LAND DESCRIPTION:

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AGENCY

City Sphere of Influence: None
Water Service: Well and bottled water for employees
Sewer Service: Portable Toilets

STAFF RECOMMENDATION: That the Planning Commission APPROVE the Addendum to the Caltrans SR-58 Kramer Junction Expressway EIR/EIS, ADOPT the Findings, APPROVE the Mining Conditional Use Permit and Reclamation Plan 2018M-01 subject to the attached Conditions of Approval and incorporated Mitigation Measures, and FILE the Notice of Determination.

In accordance with Section 86.08.010 of the Development Code, the action taken by the Planning Commission may be appealed to the Board of Supervisors within ten (10) calendar days after the Planning Commission hearing.
Figure 1

REGIONAL LOCATION

Kiewit Infrastructure West Co. – Kramer Junction Borrow Pit
Figure 2
OFFICIAL LAND USE DISTRICT & VICINITY MAP

ZONING DESIGNATION
Resource Conservation (RC)
Figure 3
MINING SITE PLAN

LEGEND

- Project Site Property Boundary
- Parcel Line
- Proposed Limits of Pit and Top of Slope
- Proposed Design Contour
- Proposed Drainage Indicator
- Proposed Pit and Construction Haul Road Per NEPA/CEQA Re-validation Form (08/09/2017) (will incorporate desert tortoise fencing)
- Existing Right-of-way or Road For Pit Site Access
- Proposed Desert Tortoise Fence
- Existing USGS Drainage
- Existing Topography
- Existing Dirt Road
Figure 4
RECLAMATION SITE PLAN

LEGEND

- Project Site Property Boundary
- Parcel Line
- Proposed Limits of Pit and Top of Slope
- Proposed Design Contour
- Proposed Drainage Indicator
- Area to be Reclaimed and Revegetated (Desert Tortoise Fence to be removed upon completion of revegetation)
- Existing USGS Drainage
- Existing Topography
- Existing Dirt Road
Figure 5
SITE PHOTOS 1 and 2
Kramer Junction Borrow Pit

View of Nearby Residence South of the Southwest Corner of Parcel

View of Nearby Residence at the Southeast Corner of Parcel
Figure 6
SITE PHOTOS 3 and 4
Kramer Junction Borrow Pit

View across Borrow Site toward the Northwest

Easterly View along the Southern Property Boundary
Figure 7
SITE PHOTOS 5 and 6
Kramer Junction Borrow Pit

Northeasterly View along Former Airstrip and Singular Joshua Tree

Westerly View along the Northern Property Boundary
Kiewit Infrastructure West Co. – Kramer Junction Borrow Pit
AP20170102 APN# 0498-232-47
Planning Commission Staff Report
April 5, 2018

PROJECT DESCRIPTION AND BACKGROUND:

Project Summary
The Kiewit Infrastructure West Company (Kiewit) has submitted an application to establish a Mining Conditional Use Permit (CUP) and Reclamation Plan 2018M-01 (Reclamation Plan) for a surface mining operation known as the Kramer Junction Borrow Pit. The mine would be established on a 63.75-acre portion of a 100-acre privately-owned parcel located north of SR-58 and 3.5 miles west of Kramer Junction within the Resource Conservation (RC) land use zoning district. (See Figure 1, Regional Location Map.) The borrow pit will be the source for up to 3 million cubic yards (cy) of landscape and fill material for the State Route 58 (SR-58) Kramer Junction Expressway Project.

The California Department of Transportation (Caltrans) is realigning and widening to four lanes approximately 13 miles of SR-58 from the Kern County line eastward to about 7.5 miles east of Kramer Junction. Currently, SR-58 lies to the west and south of the mine site; the new alignment is located to the north and east. The new alignment will bypass the SR-58/CA-395 intersection in Kramer Junction. This project is also known as the Kramer Junction Gap Closure Project and is being constructed as a joint project by Caltrans and the Federal Highway Administration (FHWA). Both expressway construction and mining of material from the Kramer Junction Borrow Pit are anticipated to be completed within three years.

Location and Site Description
The site is located between the existing SR-58 to the south and proposed SR-58 to the north, in the southwest 1/4 of Section 34 in Township 11 North, Range 7 West, San Bernardino Base and Meridian as indicated on the Saddleback Mtn., California U.S.G.S. Topographical 15’ Quadrangle. The proposed borrow pit is 63.75 acres of privately owned land being leased by the mine operator, Kiewit. Access to the borrow site is via existing SR-58 and Amarillo Road/Sand Hill Road at the western end of the property. Access to the new SR-58 construction right-of-way will be via a lease agreement with the adjacent parcel to the north along the easterly edge of the mine. (See Figure 2, Official Land Use District & Vicinity Map and Figure 3, Mining Site Plan.)

The project site is vacant, though there are three private airstrips that cross the site and several airstrip access roads. The area surrounding the site is also primarily vacant, with the exception of the property owner’s residence, which lies approximately 650 feet south on the westerly end of the borrow pit on an adjacent parcel, and three other residences located approximately 1,000, 500, and 600 feet south of the borrow pit on adjacent parcels. The proposed site and surrounding properties are also zoned Resource Conservation (RC). The Revegetation Plan prepared by Jericho Systems, Inc. indicates the natural vegetation at the site and surrounding areas appears to have been impacted by historic grazing [see Exhibit A, Kramer Junction Borrow Pit Mine Reclamation Plan 2018M-01, Appendix 1, page 5].

Mining
This application is for a Conditional Use Permit to mine a 63.75-acre portion of a 100-acre parcel of privately held land within the Resource Conservation District. The disturbance areas for mining and corresponding reclamation are shown in Figures 3, Mining Site Plan and Figure 4, Reclamation Site Plan and described in detail in the Reclamation Plan. Actual mining will take place on approximately 61.5 acres; with additional ancillary uses including an equipment storage/parking area, well and pond area, and haul truck road at the northeast corner.

Fill material will be excavated directly from in-bank via front-end loader and loaded into haul trucks for export to the SR-58 right of way. Plant operating hours at the mine may be up to 20 hours per day and seven days per week as required to meet the Caltrans project schedule. No phasing of mining activities is proposed.
Prior to excavation of the aggregate material in undisturbed areas, the top 6-12 inches of “topsoil” material, including any growth media, will be removed and placed into separate stockpiles and clearly identified as “topsoil” material for protection and subsequent use during reclamation.

Mining of the site will be achieved with one loader, two excavators, and a dozer to break up, move, and load material directly into double belly truck trailers with a typical capacity of up to approximately 50 cy. No phasing of mining activities is proposed as the project is to provide raw materials for the short-term construction of the SR-58 Kramer Junction Expressway. There will be no crushing, screening, or conveying of material conducted on-site. On occasion, a grader may be used on-site for mining or haul road development and maintenance.

Site operations will be conducted primarily from 5:30 am till 8 pm, 6 days per week. Occasionally operations may be conducted 24 hours/day and up to 7 days per week depending on construction needs. The County residential standard for adjacent mobile noise sources of 45 dB(A) for interiors and 60 dB(A) for exteriors shall apply. With closed windows and the use of ventilation this threshold can increase to 65db(A).

Slopes of 3H:1V (horizontal: vertical) to depths of 25 to 40 feet will be formed during excavation of the pit. Excavations will adhere to standard hillside mining techniques and will comply with Mine Safety and Health Administration (MSHA) requirements. Setbacks of 50 feet in width will be maintained on the west and east. A 200- to 350-foot setback will be established on the south to increase distance from the existing residences. All setbacks will include desert tortoise and 4-strand wire fencing with warning signs on the outside edge of the property, secured gates, and a one-lane dirt perimeter access road inside the fence.

Once off the project site, the transport trucks will utilize a 50-foot wide haul road within a leased easement for a distance of approximately 630 feet on the east side as a direct path to the SR-58 right of way. If the alternate haul road on the northwest is needed as a direct 1,200-foot path to the right of way, an agreement with the property owners, and all mitigation measures, including reclamation, will be required.

Truck traffic is anticipated at a maximum rate of 500 loads per day depending on truck capacity and construction demand. Production and material transport will be approximately 15,000 cy/day, 350,000 cy/month, and 2 million cy per year. If operations utilize double belly transport trucks with a capacity of approximately 50 cy, the number of truck trips would average about 300 trips/day. A total of up to 3 million cy of fill material is estimated to be removed. The trucks will not travel on any public roads or interact with public traffic. The proposed haul road(s) to the north allows the trucks to travel directly from the borrow pit to the construction alignment.

To minimize dust generation, a water truck will be retained for use during excavation and loading of haul trucks prior to departing from the site. The mine operator shall water spray working mine areas and access roads on a regular basis and more frequently as needed during windy conditions. Un-surfaced haul roads and access roads may also have dust controlled with biodegradable dust suppressants or covered with road base material as needed. Water used for dust control will be obtained via an on-site well located in the southwest corner of the site. In addition, a lined pond (100 feet by 300 feet) constructed in the southwest corner of the excavation area will be used to hold water for dust control.

No blasting or drilling is proposed and no explosive materials will be handled or stored on-site. No screening or sorting of material will take place onsite. No flotation, amalgamation, smelting, leaching or other processes are proposed throughout the life of the project.
Reclamation
The Mine Reclamation Plan 2018M-01 details the methods and procedures to be employed to mine and reclaim all disturbed areas as shown in the Reclamation Plan Map. As with all surface mines pursuant to California’s Surface Mining and Reclamation Act of 1975 (“SMARA”), a monitoring program and financial assurances will be required to ensure reclamation is completed in accordance with the approved Reclamation Plan.

Reclamation is designed to eliminate or reduce environmental impacts from mining operations by reclaiming the site into a beneficial, post-mining condition. End uses include open space/habitat and the option of re-establishing the previous air strips. Mining features and all disturbed areas will be reshaped and revegetated to minimize aesthetic and biological impacts and to eliminate hazards to public health and safety.

The finished slope grade will be a moderate 3H:1V (horizontal/vertical). Should evidence of erosion, such as rills and channels, appear as a result of storm events, slopes will be regraded and backfilled as necessary. All onsite precipitation will be directed to and collected within the borrow pit for percolation and/or evaporation. There will be no run-off away from the site and water retained within the pit will not impact adjacent properties or local roads. Revegetation will be established for the long-term control of erosion. All rock or gravel placed on the roads to control dust will be removed and used as fill in the pit area.

Although the site is located in a relatively barren environment with minimal topsoil, extreme temperatures, and low annual rainfall, all disturbed areas will be reclaimed and revegetated. The method for establishing the reclaimed standard is described in the Revegetation Plan and is based on data collected during a pre-disturbance vegetation survey. Final graded slopes, the pit floor, storage areas, and roads will be revegetated with a site-specific, prescribed seed mix designed to replicate the naturally occurring vegetation present, prior to disturbance. Success standards for density and variety are also prescribed in the Revegetation Plan to replicate existing conditions.

Reclamation of disturbed areas will commence immediately after mining is completed and return the site to it prior vacant status consistent with the Resource Conservation (RC) Land Use District. Final reclamation should be completed approximately five (5) years following termination of mining activities, which is scheduled for January 31, 2021. Complete reclamation of the site will include:

- Removal of all equipment.
- Contour grading of slopes where necessary at a proposed 3H:1V inclination.
- Mitigation of any potential hazards.
- Erosion Control and Revegetation with native plant species.

ANALYSIS

Land Use Compatibility
The Kramer Junction Borrow Pit is located within the Resource Conservation (RC) Land Use District, which allows for mineral resource development (mining) with Planning Commission approval and subject to meeting County Development Code requirements and established Findings. All properties adjacent to and within the vicinity of the Project are also zoned RC. Project-specific Conditions of Approval have been generated and are included herewith as Exhibit B.

Adjacent Land Uses: Although the area surrounding the Project is substantially vacant and undeveloped, there are three single family residences, in addition to the owner’s residence, located near the mine site to the south. (See Figure 2, Official Land Use District & Vicinity Map) Residence 1 lies approximately 1,000 feet directly south of the mine pit on an adjacent parcel. Residences two
and three are on adjacent parcels south of and toward the easterly end of the mine pit approximately 500 feet and 600 feet, respectively, from the excavation pit boundary. This south-westerly excavation boundary has been set back 350 feet from the parcel boundary to establish a protective buffer zone. All mining activity and haul roads will be restricted to the north side of the mine and away from these residences. Protective mitigation measures as described below, have been established in the Mine Reclamation Plan and the Project’s Conditions of Approval. Locating the mine close to the SR-58 Expressway construction right of way and north of existing residences protects the community from being physically divided.

**Truck Traffic and Dust Control:** As the mine haul roads will cross undeveloped land in a direct path to the SR-58 construction right-of-way, truck haul traffic will not affect the adjacent roadway system. Neither will the haul road pass by existing residences. Access to the site from existing SR-58 will utilize Amarillo Road/Sand Hill Road on the east side of the property for employee and initial equipment access only. This street access will pass by the owner’s residence as shown in Figure 2. Official Land Use District & Vicinity Map. Street access will be limited in volume to employee and equipment access. All excavation and roadway movement will require implementation of dust control measures pursuant to Development Code Sections 88.02.040 Dust Control - Desert Region and 83.04.080 Compliance with Dust Control Regulations. The mine operation and Caltrans expressway construction are also required to meet regulations monitored by the Mojave Desert Air Quality Management District. Establishment of a 20 mph speed limit, the use of gravel along roadways, pre-watering, soil amendments, and limiting activity during periods of high wind all work together to minimize this negative impact.

**Noise and Vibration:** The County has established noise and vibration standards designed to protect adjacent land uses that will apply to this project. The County residential standard per Development Code Section 83.01.080 for adjacent mobile noise sources of 45 dB(A) for interiors and 60 dB(A) for exteriors shall apply. With closed windows and the use of ventilation this threshold can increase to 65 dB(A). The vibration standard threshold per Section 83.01.090 is a particle velocity no greater than or equal to two-tenths (0.2) inches per second measured at or beyond the lot line. As necessary, an acoustical study to confirm compliance may be required along with implementation of mitigation as established in Condition #61.

**Aesthetics:** The large size of the pit and gradual 3H:1V slope, along with revegetation requirements will have an end result with minimal aesthetic disturbance upon reclamation sign-off. During mining, all excavation and roadway movement will require implementation of dust control measures pursuant to Development Code Sections 88.02.040 Dust Control - Desert Region and 83.04.080 Compliance with Dust Control Regulations. Caltrans expressway construction is also required to meet regulations monitored by the Mojave Desert Air Quality Management District.

**Groundwater Consumption:** Well water will be utilized to meet the dust control demands of the mining operation, as well as supply water needs for reclamation and revegetation. A water well assessment, prepared by Liburn Corporation for the project describes the groundwater source and expected volume of use (Exhibit C). Well monitoring and improvement requirements have been included in Condition #50 to protect wells on neighboring properties.

**Biological Resources:** Caltrans included the Kramer Junction Borrow Pit (identified as “Area 2 Borrow Area”) in their SR-58 Kramer Junction Expressway environmental impacts assessment. The Final EIR/EIS for the SR-58 Kramer Junction Expressway Project (FEIR) was adopted July 1, 2014. A NEPA/CEQA Re-Validation Form (dated August 8, 2017) states the document remains valid with implementation of the established project design and mitigation measures. Applicable assessments and mitigation measures from this adopted Caltrans FEIR have been brought into the Reclamation Plan and Project Conditions of Approval.
Public Input
In response to a Project Notice sent to reviewing agencies and adjacent property owners, several letters and phone calls were received, some positive and others expressing concerns. The owner of two homes adjacent and to the south expressed concerns related to aesthetics, truck traffic, and groundwater consumption in response to both the initial Project Notice in December and the Public Hearing Notice in March. Applicable information as described above was provided in response to questions and concerns. (See Exhibit D.)

Mine Permitting under SMARA
Mine permitting and reclamation is regulated by Chapter 88.03 of the County’s Development Code, which incorporates California’s Surface Mining and Reclamation Act of 1975 (“SMARA”, Public Resources Code Section [PRC] 2710 et seq. and California Code of Regulations Section 3500 et seq.). The County is the “lead agency” (ref. PRC Section 2728) with a State Mining and Geology Board-certified surface mining and reclamation Ordinance (ref. PRC Section 2774.3) with principal responsibility for administering SMARA.

Planning staff received a comment letter from the California Department of Conservation Division of Mine Reclamation (DMR), dated February 22, 2018, in response to the County’s request for review of the Mine Reclamation Plan (see Exhibit E). The Reclamation Plan was modified to address DMR’s comments as described in the letter, and the Reclamation Plan as presented meets SMARA and County Development Code requirements. Staff’s response to DMR’s comments, along with a notification of intent to adopt the Reclamation Plan in compliance with PRC Section 2772.1(b)6(A), was returned to DMR on March 1, 2018. (See Exhibit F.)

Findings
The required Findings for approval of a Mining CUP pursuant to Development Code Section 85.06.040 and Section 88.03.060(k) have been met and the Project is consistent with all applicable land use policies and regulations of the County’s General Plan and Development Code with the established Conditions of Approval in place. (See Exhibit G.)

Tribal Consultation
Extensive cultural resource surveys and assessments along with tribal outreach and consultation were completed as part of the Caltrans SR-58 FEIR. The process began in 2007, with a second, more detailed, round of surveys in 2012 after the Preferred Alternative alignment for the project was selected. The Caltrans SR-58 FEIR was certified in 2014. Two sites were identified as Environmentally Sensitive Areas (ESAs) requiring further potential protection and delineation for cultural affects in the SR-58 FEIR. As a follow-up, County staff was able to get confirmation from Caltrans that neither of the two cultural sites identified were located within the area known as Borrow Area #2. Standard County conditions of approval will also serve to protect unanticipated discoveries.

California Environmental Quality Act (CEQA).
As previously stated, the Kramer Junction Borrow Pit was assessed under CEQA as Borrow Area #2 in the Caltrans State Route 58 (SR -58) Kramer Junction Expressway Project Final EIR/EIS [SCH No. 2007051051] (FEIR), which was approved in 2014. Review of this FEIR and its supporting documents led to the preparation of an Addendum for this FEIR to ensure compliance with CEQA requirements specific to the Mining CUP. This Addendum reflects the independent judgment of County Planning staff. (See Exhibit H.)

All mitigation Measures applicable to Borrow Area #2 contained within the SR-58 Kramer Junction Expressway FEIR have been incorporated into the Mine Reclamation Plan and Mining CUP Conditions of Approval. As a summary, the table below describes the conclusions discussed in the Addendum.
Comparison of Environmental Findings for the SR-58 Expressway and the Kramer Junction Borrow Pit

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RECOMMENDATION: That the Planning Commission:

1) APPROVE the Addendum to the Caltrans SR-58 Kramer Junction Expressway EIR/EIS based on a finding that the Final Environmental Impact Report included the Kramer Junction Borrow Pit as Borrow Area #2 and was completed in compliance with CEQA, that it has been reviewed and considered prior to approval of the Project, and that it and its supporting documents reflects the independent judgment of the County of San Bernardino;

2) ADOPT the Findings per Development Code Sections 85.06.040 and 88.03.060(k);

3) APPROVE the Mining Conditional Use Permit and Reclamation Plan subject to the Conditions of Approval;

4) FILE the Notice of Determination.

ATTACHMENTS:

Exhibit A: Kiewit Kramer Junction Mine Reclamation Plan - February 2018
Exhibit B: AP20170102 Conditions of Approval
Exhibit C: Water Well Mitigation – March 2, 2018
Exhibit D: Property Owner Comments – Gunn Family Estate
Exhibit E: DMR Comment Letter - February 22, 2018
Exhibit F: County Response Letter to DMR – March 1, 2018
Exhibit G: AP20170102 Findings
Exhibit H: Addendum to the Caltrans SR-58 Kramer Junction Expressway Final EIR
MINE RECLAMATION PLAN
FOR THE
KRAMER JUNCTION BORROW PIT

Prepared For:
Kiewit Infrastructure West Co.
12700 Stowe Dr. Suite 180
Poway, CA 92064

Submitted To:
County of San Bernardino
Land Use Services
385 North Arrowhead Avenue, 1st Floor
San Bernardino, California 92415

Prepared By:
Lilburn Corporation
1905 Business Center Drive
San Bernardino, California 92408

February 2018
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<tr>
<td>2.15</td>
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</tr>
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<td>3.0</td>
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APPENDICIES

1  Revegetation Plan; Jericho Systems October 2017 (revised per DMR Comments February 2018)


MAP SHEETS (attached)

1  Kramer Junction Borrow Pit Mine Plan
2  Kramer Junction Borrow Pit Reclamation Plan
1.0 MINE PLAN

Kiewit Infrastructure West Co. (Kiewit) is submitting an application for a Mine Reclamation Plan (Plan) for the Kramer Junction Borrow Pit. The borrow pit will be the source for up to 3 million cubic yards (cy) of material for the State Route 58 (SR-58) Kramer Junction Expressway Project. The California Department of Transportation (Caltrans) is realigning and widening to four lanes approximately 13 miles of SR-58 from the Kern County line east about 7.5 miles east of Kramer Junction. The project also includes a partial cloverleaf at the SR-58 and US 395 junction and railroad grade separation alleviating existing traffic issues.

The proposed project site is located approximately 2 miles east of the SR-58 and Boron interchange and 1 mile east of the Kern County boundary (see Figure 1 - Regional Map). The privately-held 100-acre parcel (APN 0498-23-2-47) is within the west part of San Bernardino County in the SW¼ of Section 34, Township 11 North, Range 7 West, SBBM (see Figure 2 - Vicinity Map). The site is being leased by Kiewit from the landowner. Access for workers to the site will be from the existing SR-58 highway about 1/3 mile north on either Sand Hill Road easement on the west or Castle Road on east (if allowable). The material will be transported to the new SR-58 alignment approximately 630 to 1,200 feet north of the project site on right-of-ways or easements with adjacent parcel owners on the west and east sides as shown on Caltrans National Environmental Policy Act/California Environmental Quality Act (NEPA/CEQA) Re-Validation Form (August 8, 2017) to be supplied prior to transporting material. The site has three 60-foot wide private landing strips that run diagonally across the site which is known as the Boron air field. The remainder of the site is vacant open desert land.

The purpose of this application is to permit the borrow site for a 3-year period to provide mostly landscape and fill material for construction of the SR-58 Kramer Junction Expressway Project. This project is also known as the Kramer Junction Gap Closure Project, is being constructed as a joint project by Caltrans and the Federal Highway Administration (FHWA) tentatively starting in early 2018 and completed by the end of the year 2020. Kiewit is proposing to utilize approximately 63.75 acres of the 100-acre parcel for the removal of up to 3 million cubic yards (mcy) for a mining period of three years. Reclamation of the site will commence immediately upon termination of mining. Mined products will include landscape and general fill material.

Caltrans included the proposed project site and access routes defined by Caltrans as Area 2 Borrow Area, in their project design and environmental review. Caltrans concluded in their NEPA/CEQA Re-Validation Form (August 8, 2017) that the Environmental Impact Report/Environmental Impact Statement (EIR/EIS) for SR-58 Kramer Junction Expressway Project (July 1, 2014) remains valid with implementation of project design and mitigation measures for the potential impacts of the Kramer Junction Borrow Pit area.

The borrow pit site is vacant, appears to have been impacted by historic grazing and by 3 unpaved air strips, and consists of saltbush and alkali sink scrub. The adjacent properties are vacant to the west, north, and east. The owner’s residence lies to the southwest and two other residences are located 600 to 1,000 feet to the south. The existing SR-58 Highway lies to the west and south and the new alignment is aligned west to east to the north.
**Land Owner:** Kramer Apartments Corporation  
40716 Highway 395  
Boron, Ca 93516  
760-762-5220  
kramerservices@yahoo.com

**Lease Holder/Operator:** Kiewit Infrastructure West Co.  
12700 Stowe Dr. Suite 180  
Poway, CA 92064  
Tim Howells  
858-486-3410  
Tim.howells@kiewit.com

**Representative:** Lilburn Corporation  
1905 Business Center Drive  
San Bernardino, California 92408  
Martin Derus - President  
909-890-1818  
marty@lilburncorp.com

**General Plan Designation:** Resource Conservation (RC)

**APN:** 0498-323-47; SW¼ of Section 34, T11N, R7W ex south 990.7 feet

**Parcel Size:** 100 acres

**Mine Area:** approx. 63.75 acres (6.75 acres currently disturbed; 57 acres undisturbed)

**General Plan Designation:** Resource Conservation (RC)

**Estimate Operating Life:** 3 years from County approval

**Estimated Operations Termination Date:** January 31, 2021 (with approval by February 1, 2018) or 3 years from date of County approval

**Area to be Reclaimed:** 63.75 acres

**Estimated Reclamation Completion:** January 31, 2022 (followed by approx. 5 years revegetation monitoring/remediation or until success criteria achieved)

**Reclaimed End Use:** Open space; private air strips
REGIONAL LOCATION
Kramer Junction Pit - State Route 58 Kramer Junction Expressway Project
County of San Bernardino, California
Kramer Junction Pit - Kiewit Infrastructure West, Inc.
County of San Bernardino, California

FIGURE 2
1.1 MINING OPERATIONS

Please refer to Figure 3 and/or Sheet 1 to review the Mine Plan and cross sections. Mining operations will be undertaken over a period of up to 3 years beginning in early 2018 and extending until early 2021. The site and haul roads to the new SR-58 alignment will be fenced with a combination of desert tortoise fencing and 4-strand wire according to the protocols in Chapter 8 of the Desert Tortoise Field Manual (USFWS 2009).

Mining will take place on approximately 61.5 acres; additional ancillary uses include an equipment storage/parking area, well and pond area, and haul truck road on the northeast or northwest depending on location of an access easement to be determined. The approximate acreages are included in Table 1 below and total roughly 64 acres.

Table 1

<table>
<thead>
<tr>
<th>Use</th>
<th>Existing Disturbed</th>
<th>Undisturbed</th>
<th>Total Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Borrow Pit and Slopes</td>
<td>6</td>
<td>55.5</td>
<td>61.5</td>
</tr>
<tr>
<td>Equipment Storage</td>
<td>0</td>
<td>1.25</td>
<td>1.25</td>
</tr>
<tr>
<td>Well and Storage Pond</td>
<td>0.25</td>
<td>0</td>
<td>0.25</td>
</tr>
<tr>
<td>Haul Road within the Project Site</td>
<td>0.5</td>
<td>0.25</td>
<td>0.75</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td><strong>6.75</strong></td>
<td><strong>57.0</strong></td>
<td><strong>63.75</strong></td>
</tr>
</tbody>
</table>

Source: Kiewit and Lilburn 2017.

Mining of the site is achieved with one loader, two excavators, and a dozer to break, move, and load material directly into double belly truck trailers with capacity of up to approximately 50 cy (typical). A complete list of the typical equipment to be used on-site and for transport to the SR-58 construction alignment is included in Table 2. There will be no crushing, screening, or conveying conducted on-site. There will be no buildings or scale on-site. On occasion, a grader may be used on-site for mining or haul road development and maintenance.

Slopes of 3H:1V (horizontal: vertical) to depths of 25 to 40 feet will be produced from excavation of the pit. The top of the pit will range from 2,485 feet amsl on the north with a depth elevation of 2,445 feet amsl to a top of pit elevation of 2,495 feet amsl to a depth of 2,455 feet amsl on the south. Setbacks of 50 feet in width will be maintained on the west and east. A 200 to 350-foot setback will be established on the south to provide setbacks from the residences to the south. These setbacks will include desert tortoise and 4-strand wire fencing with warning signs on the outside edge of the property, secured gates, and a one-lane dirt perimeter access road inside the fence. Access into the borrow pit will be via a 5% decline ramp 50 feet in width located on the northeast side of the pit to allow direct access to the SR-58 construction alignment. Note that the ramp may be on the northwest slope if the alternative haul road is utilized. There will also be a ramp for vehicles on the southwest side as well. Once off the project site, the transport trucks will utilize a 50-foot wide haul road within an acquired easement or right-of-way to be negotiated with properties to the north for a distance of approximately 630 feet on the east side or 1,200 feet on the west side to the construction alignment.
### Table 2

<table>
<thead>
<tr>
<th>Equipment Make / Model</th>
<th>Typical Number</th>
<th>Hours/day</th>
<th>Tier Level</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAT D9 Dozer</td>
<td>1</td>
<td>20</td>
<td>Tier 4 Final</td>
<td>Excavate and loosen material. Road construction and maint.</td>
</tr>
<tr>
<td>Peterbilt/Freightliner Double Belly Trailers</td>
<td>20-26</td>
<td>20</td>
<td>Compliant</td>
<td>Transportation of material to new SR 58 alignment.</td>
</tr>
<tr>
<td>CAT 16 Grader</td>
<td>1</td>
<td>4</td>
<td>Tier 3</td>
<td>Maintain roads.</td>
</tr>
<tr>
<td>CAT 390 Excavator</td>
<td>2</td>
<td>20</td>
<td>Tier 4 Final</td>
<td>Excavate and load material into trucks.</td>
</tr>
<tr>
<td>Cat 980M Loader</td>
<td>1</td>
<td>20</td>
<td>Tier 4</td>
<td>Excavate and load material into trucks.</td>
</tr>
<tr>
<td>Cat 740 Water Truck</td>
<td>1</td>
<td>4</td>
<td>Tier 3</td>
<td>Water for dust control on mining areas, haul roads, and stockpiles.</td>
</tr>
<tr>
<td>Kentworth T300 Lube Truck (Fuel)</td>
<td>1</td>
<td>4</td>
<td>Compliant</td>
<td>Maintain and fuel on-site equipment.</td>
</tr>
<tr>
<td>John Deere 9560</td>
<td>1</td>
<td>4</td>
<td>Tier 4i</td>
<td>Haul Road Maintenance</td>
</tr>
</tbody>
</table>

Source: Kiewit August 2017

Note that equipment listed is typical and makes and models may be interchanged with like equipment.

Truck traffic is anticipated at a maximum rate of 500 loads per day depending on the truck capacity and construction demand. Production and material transport will be approximately 15,000 cy/day, 350,000 cy/month, and 2 million cy per year. If operations utilize the double belly transport trucks with a capacity of approximately 50 cy, the number of truck trips would average about 300 trips/day. A total of up to 3 million cy of fill and landscape material is estimated to be removed.

The trucks will not travel on any public roads or interact with any public traffic. The proposed haul roads on easements or right-of-ways on the north to be determined allow the trucks to travel directly from the borrow pit to the construction alignment. To minimize dust generation, a water truck will be retained for use during excavations and loading of haul trucks, prior to departing from the site. The mine operator shall water spray working mine areas and access roads on a regular basis and more frequently as needed during windy conditions. Water used for dust control shall be obtained by an on-site well located in the southwest corner of the site. In addition, a lined pond (100 feet by 300 feet) constructed in the southwest corner of the excavation area will be used to hold water for dust control. Un-surfaced haul roads and access roads may also have dust controlled with biodegradable dust suppressants or covered with road base material as needed.

Site operations will be conducted primarily from 5:30 am till 8 pm, 6 days per week. Occasionally operations may be conducted 24 hours/day and up to 7 days per week depending on construction needs. All refuse shall be disposed into approved trash bins and removed by a commercial vendor. Portable toilets will be used on-site and serviced by a commercial vendor. Bottled water will be provided to employees.
1.2 MINE WASTE

The top one-foot of surface material will be pushed into storage berms along the outside of the pit as shown on the mine plan. No overburden or waste material is expected; therefore, no method is required or planned for handling of mine waste.

There will be no imported waste materials or chemicals brought to the project site besides fuel and equipment maintenance fluids. Maintenance and fueling will be conducted by a mobile maintenance truck and Best Management Practices (BMPs) will be implemented. All used fluids will be removed from the equipment and from the site following standard regulations. No used fluids will be stored on-site.

1.3 ORE PROCESSING

The borrow pit material will be loaded directly into trucks for transport to the construction alignment to the north. No crushing or screening or any process plant facilities are utilized on-site. There is no need for on-site diesel-powered electricity or commercial power. No fuel tanks will be placed on-site.

1.4 PRODUCTION WATER

Water use on-site will be utilized to minimize dust generation. A water truck will be used for wetting-down material and roads during mining activities and for wetting-down haul trucks prior to site departure. Approximately 16,000 gallons of water a day may be used for dust suppression activities with a 20-hour work day. The 8,000-gallon water truck will fill at the on-site well or pond and spray roads and operation areas as needed. It is not anticipated that there will be any excess water from the wetting-down procedure; therefore, no recycling is required or planned.

1.5 EROSION AND SEDIMENTATION CONTROL

The Applicant is required per Caltrans contract for complying with Statewide National Pollutant Discharge Elimination System (NPDES) and preparing and implementing a Storm Water Pollution Protection Plan (SWPPP) including applicable BMPs. The control of drainage, erosion, and sedimentation of the mine site will primarily involve the following primary BMPs:

- Limiting surface disturbance to the minimum area required for active operations;
- Monitoring erosion on slopes and implementation of one or more soil stabilization practices as applicable for the site such as: earthen berms or dikes; silt fence; fiber rolls; straw bales; gravel bags; sediment basin(s); and straw mulch.
- Stabilizing disturbed areas through grading slopes to 3H:1V; and
- After project completion - final revegetation by seeding or hydro-seeding with native species.
The project site is relatively flat with a slight gradient of less than 1% to the north-north west. There are no drainage or run-off channels that will be affected by the pit. Principally only direct precipitation may affect the site. The pit is designed with a 1% grade towards the northwest to collect any run-off that may collect in the pit and off the slopes in that area that will act as a sediment or percolation basin. The slopes are designed at very gentle 3H:1V that would reduce possible slope erosion and runoff channeling down the slopes. There will no run-off off away from the site. All precipitation will be collected within the borrow pit and allowed to evaporate or percolate.

During the course of mining and the final design of the 3H:1V slope contouring, some erosion may occur during heavy rainfall on the slopes. Erosion caused by rainfall will be retained at the bottom of the pit and rills or channels backfilled. Any water retained within the pit will not impact adjacent properties or local roads due to its containment.

After each major storm event or at least quarterly, any final slopes and the access and haul roads will be visually inspected to determine if any substantial erosion is evident such as sheet, rill or gully erosion. A major storm event is defined as precipitation totals of 0.5 inches per 24-hour period. Any rills or gullies in excess of 8 square inches in cross sectional area and are more than 10 linear feet located on final slopes shall be arrested using methods listed above.

Revegetation will be used for the long-term control of erosion. Access roads and mined surfaces will be water sprayed as necessary to reduce wind erosion during operations.

The following mitigation measures are included in the EIS/EIR and will be implemented by the Applicant as required per contract with Caltrans to protect water quality. Note that the measures below are summarized and that the complete list of mitigation measures relevant to the proposed project is included in Appendix 2.

- **WQ-1:** Contractor will comply with the provisions of the Statewide NPDES permit.
- **WQ-2:** Contractor will be responsible for preparing a SWPPP according to the Department’s (Caltran’s) standards, incorporating all the BMPs listed in the contract plans.
- **WQ-3:** (Updated reference) Table 2-1 of the Department’s Construction Site BMPs Manuel (Caltrans CTSW-RT-17-314.18.1; May 2017) include BMPs; the contractor will implement all the appropriate BMPs.

### 1.6 BLASTING

There will be no blasting on this project site, therefore, no explosives will be used or stored on site.
2.0 RECLAMATION PLAN

2.1 LAND USE

The Kramer Junction Borrow Pit is vacant with the 3 unpaved air strips and consists of saltbush and alkali sink scrub vegetation. The adjacent properties are vacant to the west, north, and east. The owner’s residence lies to the southwest and two other residences are located 600 to 1,000 feet to the south. The existing SR-58 Highway lies to the west and south and the new alignment is aligned west to east to the north.

Approximately 7 acres are disturbed by the air strips and the site is flat with elevations ranging from 2,485 to 2,495 feet amsl. The planned depth of the pit will range from 2,445 to 2,455 feet amsl.

The surrounding land uses are as follows:

<table>
<thead>
<tr>
<th>North</th>
<th>Adjacent properties are vacant desert open space. The new SR-58 alignment is about 650 to 1,200 feet to the north.</th>
</tr>
</thead>
<tbody>
<tr>
<td>South</td>
<td>South of this mine is mostly vacant desert land with the exception of three residences; one belonging to the land owner of the project site.</td>
</tr>
<tr>
<td>East</td>
<td>Adjacent property is vacant desert land.</td>
</tr>
<tr>
<td>West</td>
<td>Adjacent property is vacant desert land with the existing SR-58 to the west.</td>
</tr>
</tbody>
</table>

2.2 VISIBILITY

The mine site is located approximately 2 miles east of the community of Boron within unincorporated land within San Bernardino County. The borrow pit, after initial excavation, will be below grade and there will be no process plants on-site. As operations reach a depth of 10 feet, mining operations will be screened from the scattered residences. Note that there will over 13 mils of road construction being undertaken in the vicinity.

2.3 VEGETATION

Caltrans included the proposed project site and access roads defined by Caltrans as the Area 2 Borrow Area in their project design and environmental review. Caltrans concluded in their NEPA/CEQA Re-Validation Form (August 8, 2017) that the EIR/EIS for the SR-58 Kramer Junction Expressway Project (July 1, 2014) remains valid with implementation of project design and mitigation measures for the potential impacts of the Kramer Junction Borrow Pit area. Information, impacts, and mitigation measures discussed below for plants are from the two documents referenced above.

The site consists of atriplex (saltbush or spinescale) scrub with desert sink scrub located to the north of the pit which is outside of the project footprint. No natural communities of special
concern (as listed in the California Natural Diversity Database (CNNDB)) are present. The site is co-dominated by spinescale saltbush (*Atriplex spinifera*) and white bursage (*Ambrosia dumosa*). Other shrub species include burrobush (*Ambrosia salsola*), winter fat (*Krascheninnikovia lanata*), Mojave cottonthorn (*Tetradymia stenolepis*), and all-scale (*Atriplex polycarpa*). Approximately 57 acres of the site is atriplex scrub and 7 acres are disturbed by the dirt air strips.

**Threatened and Endangered Plants and Other Special Status Plants**

According to the CNNDB maintained by the CDFW, no plant species designated as threatened or endangered by the State of California or the Federal Government were identified on the site. During rare plant surveys, a total of four plant species listed as a 1B.2 or 4.2 listed plants on the California Native Plant Society (CNPS) Rare Plant Inventory were present in the vicinity with habitat present on the project site. These include: Barstow woolly sunflower (*Eriophyllum mohavense*) (CNPS List 1B.2); desert cymopterus (*Cymopterus deserticola*) (CNPS List 1B.2); Mojave spineflower (CNPS List 1B.2); and crowned muilla (*Muilla coronate*) (CNPS List 4.2). CNPS Designations are defined as follows:

- **1B.2**: Plants rare and endangered in California and throughout their range; Fairly endangered in California (20 – 80% occurrences threatened).
- **4.2**: Plants of limited distribution, a watch list; fairly endangered in California (20%–80% occurrences threatened).

The following avoidance, minimization, and mitigation measures are included in the EIS/EIR and will be implemented by the Applicant as required per contract with Caltrans to protect the special-status plants that could be present.

- **BIO-6**: Preconstruction surveys for rare plants will be conducted by a qualified biologist during the appropriate blooming period. Any plants identified will be flagged and avoided, if feasible.
- **BIO-7**: The project design will minimize impacts to special-status plants to the extent feasible.
- **BIO-8**: Temporary Fence (Type ESA). ESA fencing will be established around those populations of special-status plants that are to be protected in place to prohibit all construction activities and access from impacting the rare plant populations within the project area.
- **BIO-9**: Seeds will be collected from all those plant populations deemed appropriate for seed relocation if suitable habitat is available.
- **BIO-10**: Biological Monitor. A qualified biological monitor will monitor construction activities to ensure avoidance of any construction related impacts to special status plant species.
• **BIO-11:** Species Protection Measures will be made to ensure that temporary staging areas, storage areas, and access roads involved with this project will occur in the area of permanent direct impact. Access to the project site will be gained from the existing SR-58. No new access roads will be built as part of this project accept what was analyzed on project maps (refer to area 2-DARR’S 75 acres). Staging areas and equipment storage will take place on existing right-of-way of the realigned SR-58.

• **BIO-12:** Joshua trees within the direct impact area with a circumference of 50 inches measured at four feet, measuring 15 feet high, or occurring in a cluster of 10 or more within close proximity to each other will be transplanted or stockpiled for future transplanting to the extent feasible. Joshua trees will be shown on the plans for avoidance or transplanting.

• **BIO-13:** An Environmentally Sensitive Area (ESA) will be established around all Joshua Trees within the project area that are to be protected in place. To prohibit all construction activities and access from impacting the Joshua trees within the project area, temporary ESA fencing would be placed around the Joshua trees.

2.4 **WILDLIFE**

Caltrans included the proposed project site and access roads defined by Caltrans as the Area 2 Borrow Area in their project design and environmental review. Caltrans concluded in their NEPA/CEQA Re-Validation Form (August 8, 2017) that the EIR/EIS for the SR-58 Kramer Junction Expressway Project (July 1, 2014) remains valid with implementation of project design and mitigation measures for the potential impacts of the Kramer Junction Borrow Pit area. Information, impacts, and mitigation measures discussed below for wildlife are from the two documents referenced above.

A total of six non-listed special-status animals are known to occur in the general region, and four have the potential to occur within the project area. These four are burrowing owl (*Athene cunicularia*), loggerhead shrike (*Lanius ludovicianus*), Le Conte’s thrasher (*Toxostoma lecontei*), and America badger (*Taxidea taxus*). Potential habitat for the other two species, prairie falcon (*Falco mexicanus*) and silver-haired bat (*Lasionycteris noctivagans*), is not present in the project area.

The following avoidance, minimization, and mitigation measures are included in the EIS/EIR and will be implemented by the Applicant as required per contract with Caltrans to protect the special-status animals that could be present. Lands acquired to mitigate the effects of the project on the desert tortoise and the Mohave ground squirrel will also mitigate any potential effect to migratory bird species.

• **BIO-14:** A preconstruction survey of the project site for burrowing owl will be conducted; the time lapse between surveys and site disturbance will be as short as possible and will be determined based on consultation with CDFW, but will not exceed 7 days prior to commencing construction activities.
• **BIO-16**: Species Protection. If burrowing owls are found on-site during the preconstruction sweep:
  
o Occupied burrows shall not be disturbed during the nesting season (February 1 through August 31) unless a biologist can verify through non-invasive methods that either the owls have not begun egg laying and incubation or that juveniles from the occupied burrows are foraging independently and are capable of independent flight.
  
o A Burrowing Owl Mitigation and Monitoring Plan will be submitted to CDFW for review and approval.
  
o All relocation shall be approved by CDFW.

• **BIO-17**: If, during preconstruction surveys, a burrowing owl is encountered, habitat compensation will be assessed and coordinated with CDFW during preparation of the Burrowing Owl Mitigation and Monitoring Plan. Appropriate mitigation lands for burrowing owl will be determined during preparation and CDFW agency approval of the Burrowing Owl Mitigation and Monitoring Plan. CDFW may allow the mitigation lands acquired following the above mitigation ratios to account for more than just burrowing owl, if species-specific habitat criteria are met in the habitat acquisition proposal. As provided in CDFW (2012), the mitigation for permanent habitat loss necessitates replacement with an equal or greater habitat area.

• **BIO-18**: To avoid any impacts to migratory birds (including loggerhead shrike and Le Conte’s thrasher), vegetation removal must take place between September 15 and February 15 (outside of the breeding season). If, because of construction schedules, it is necessary to remove vegetation during the breeding season (February 16 through September 14), a biological construction monitor must perform a preconstruction survey of the entire area where vegetation will be removed. All measures shall be taken to minimize impacts on nesting birds. A preconstruction sweep for nesting birds will be conducted prior to construction activities outside of the nesting season as well. The sweep will include areas used for staging, storage, sign placement, or parking. If an active bird nest is detected during surveys, a nest avoidance buffer will be implemented with a radius of 100 feet or as determined by the biological monitor. Depending on the species and nesting stage, it may be prudent to have a biological monitor present during construction to monitor nest activity while still allowing construction to take place.

• **BIO-19**: A preconstruction survey will take place to ensure that no American badgers are located within the project limits.

• **BIO-20**: Biological Monitor. A qualified biological monitor will monitor construction activities to ensure avoidance of any construction-related impacts on American badger.

• **BIO-21**: Species Protection. If a burrow occupied by badgers is found during construction, all construction activities will cease in the vicinity of the burrow, and coordination with CDFW will take place so that appropriate protective measures can be implemented.
Threatened and Endangered Animals

Two animal species listed as threatened under state and federal endangered species laws were found along portions of the new SR-58 alignment and have potential for occurrence in the project area: the desert tortoise (Gopherus agassizii) (federally and state Threatened) and the Mohave ground squirrel (Xeropermophilus mohavensis) (state Threatened).

The proposed borrow pit which consists of saltbush scrub and is impacted by graded air strips and proximity to the existing SR-58, was deemed low quality for desert tortoise in the EIR/EIS. The site was surveyed by Caltrans biologists and no sign were detected. The site is not within critical habitat and will be further isolated by the new SR-58 alignment to the north.

As part of the overall project, Caltrans has been in contact with the U.S. Fish and Wildlife Service (FWS) and the California Department of Fish and Wildlife (CDFW) over the course of the project’s environmental review. The original Biological Opinion (BO) (FWS-SB/KRN-12BO2013-14FO423) dated June 30, 2014 was amended with BO (FWS-SBR-12BO230-17A0886) dated June 14, 2017. This amendment assessed several additional impact areas including the 100-acre Area 2 Borrow Area (proposed project). The amended BO concluded that as long as the avoidance and mitigation measures are followed from the original BO, the May Affect But Not Likely To Adversely Affect determination for desert tortoise and No Take determination for Mojave Ground Squirrel will be maintained.

The following avoidance, minimization, and mitigation measures are included in the EIS/EIR and will be implemented by the Applicant as required per contract with Caltrans to protect the special-status animals that could be present. Lands are to be acquired by Caltrans to mitigate the effects of the project on the desert tortoise and the Mohave ground squirrel and will also mitigate any potential effect to migratory bird species. Note that the measures below are summarized and that the complete list of mitigation measures relevant to the proposed project is included in Appendix 2.

- **BIO-22**: Field Contact Representative or Resident Engineer. Caltrans will assign/designate a staff person to act as the Field Contact Representative (FCR) or Resident Engineer (RE) with specific experience in the implementation of environmental compliance programs.

- **BIO-23**: Authorized Biologists and Biological Monitors. Caltrans will review the credentials of all individuals seeking approval as Authorized Biologists prior to being submitted to USFWS to ensure the individuals possess the appropriate experience and training to serve as Authorized Biologists.

- **BIO-24**: Pre-Construction Surveys. Within desert tortoise habitat, Authorized Biologists will conduct pre-construction surveys of the project area including the right-of-way, staging areas, access routes, and all other construction sites.
• **BIO-25**: Biological Resource Information Program. Caltrans will be responsible for ensuring that all workers at the site receive worker environmental awareness training prior to and throughout construction.

• **BIO-26**: Species Protection. Caltrans will ensure that the Authorized Biologist(s) will follow the procedures for handling tortoises in the USFWS field manual (2009). Only the Authorized Biologist(s) will move desert tortoises and then solely for the purpose of moving them from harm’s way.

• **BIO-27**: Locating a Dead or Injured Tortoise. The Authorized Biologist will notify USFWS within 24 hours upon locating a dead or injured desert tortoise during construction, operation, and maintenance of the project.

• **BIO-28**: Designated Areas. Caltrans will confine all project activities to the right-of-way, approved access roads, and storage areas.

• **BIO-29**: Permanent Fence. Following preconstruction surveys and the relocation of desert tortoises if determined necessary by the Authorized Biologist but prior to the start of construction, Caltrans will require the contractor to install permanent fencing to exclude desert tortoises from all work areas and rights-of-way under the direction of an Authorized Biologist. Caltrans will construct the fence according to the protocols provided in Chapter 8 of the Desert Tortoise Field Manual (USFWS 2009).

• **BIO-30**: Construction Monitoring. An appropriate number of Authorized Biologists and Biological Monitors will be available during construction for the protection of desert tortoise.

In addition to the measures listed above for desert tortoise, the following measures will be implemented to protect MGS and to ensure a Will Not Jeopardize the Continued Existence determination under the California Endangered Species Act (CESA).

• **BIO-31**: Biological Monitor. A qualified biological monitor will monitor construction activities to ensure avoidance of any construction activities related to MGS.

• **BIO-32**: Biological Resource Information Program. MGS Awareness Training will be provided and integrated with WEAP Training prior to construction.

• **BIO-33**: Species Protection. If any MGS are injured or killed during the course of construction, work must stop in the immediate area, the animal must be left in place as is, and the project monitor and the Resident Engineer will be immediately notified.

In Mitigation Measures **BIO-34 through 37** in the EIR/EIS, Caltrans, CDFW, and USFWS have agreed to mitigate affected areas of the overall project area at specific compensation ratios of 5:1 to 3:1 depending on location and habitat for both the desert tortoise and the Mojave Ground Squirrel. The areas of compensation take into account the proposed project area.
2.5 RECLAMATION

The intent of SMARA is to “maintain an effective and comprehensive surface mining and reclamation policy with regulation of surface mining operations so as to assure that: (a) adverse environmental effects are prevented or minimized and that mined lands are reclaimed to a usable condition which is readily adaptable for alternative uses; (b) the production and conservation of minerals are encouraged, while giving consideration to values relating to recreation, watershed, wildlife, range and forage, and aesthetic enjoyment; and (c) residual hazards to the public health and safety are eliminated” (Section 2712).

Article 9, Section 3700 of SMARA states the following: “Reclamation of mined lands shall be implemented in conformance with standards in this Article (Reclamation Standards). The standards shall apply to each surface mining operation to the extent that:

(1) they are consistent with required mitigation identified in conformance with CEQA; and
(2) they are consistent with the planned or actual subsequent use or uses of the mining site.”

The objectives of this Reclamation Plan are to:

- Eliminate or reduce environmental impacts from mining operations;
- Reclaim in a usable condition for post-mining end uses which will include open space/habitat and re-grading of existing air strips;
- Reshape mining features and revegetate disturbed areas to minimize aesthetic and biological impacts; and
- Reclaim the site as necessary to eliminate hazards to public health and safety.

Please refer to Figure 4 and/or Sheet 2 to review the Reclamation Plan. Reclamation of the mine will be undertaken at the completion of with the mining operations related to the construction of the SR-58 Kramer Junction Expressway. Final reclamation will occur upon termination of excavation activities. Any over-steepened slopes will be backfilled or recontoured to 3H:1V. Fill material will be excess material pushed up onto slopes to create 3H:1V. The fill will be compacted by tracking the dozer over the slope to achieve necessary compaction consistent with final end use of open space. Any rock or gravel on the roads will be removed and used as fill in the pit area. Final graded slopes, the pit floor, storage areas, and roads will be revegetated. Surface material in all compacted working areas and roads will be loosened by mechanical means to a depth of 1-foot. Revegetation activities will generally commence in late fall to correspond with the rainy season of the area. The recontoured slopes and pit floor will be seeded with the recommended seed mix in this Reclamation Plan.
2.6 REVEGETATION

The revegetation plan will implement a series of activities to revegetate portions of the site after completion of mining operations. All 64 acres if disturbed will be reclaimed and revegetated. The site is a relatively barren environment due to lack of topsoil and the extreme hot temperatures and very dry conditions. Daytime temperatures average over 100º F. from May through September and annual rainfall is less than 6 inches.

Physical reclamation procedures will include regrading to achieve planned slopes of 3H:1V as needed, ripping compacted surfaces to a depth of about 1-foot to hold moisture, adding stockpiled surface material containing banked seeds in a stable, uniform thickness to a depth up to one-foot deep, seeding or hydro-seeding with commercial available native seeds, and staking or flagging reclaimed areas to eliminate additional disturbance.

Baseline Data

Jericho Systems prepared a Revegetation Plan and collected baseline vegetation data on-site including detailed plant diversity, density, and richness information for use in the revegetation plan. This report is included in Appendix 1, dated October 2017. The site consists of spinescale salt bush scrub community.

Jericho established plant plots in undisturbed portions of the mine site to sample and record existing plant occurrences per SMARA recommendations. Table 3 shows the results of the plant plot data gathered on-site in terms of cover, density and species richness. The revegetation effort will focus on the perennial pioneer shrubs, herbs, and annuals that aid in providing organic material, holding moisture, and breaking up the surface.

The dominant vegetation at the reference site is salt bush scrub. Average shrub cover was measured at 26% co-dominated by spinescale saltbush (15%) and white bursage (10%); average shrub density measured 15 shrubs per 1,000 square foot plot (6 spinescale saltbush and 7 white bursage); and an average of 5 species was observed to occur per 1,000 square foot plot. Complete data tables are included in Appendix 1.

Site Preparation

Prior to mining undisturbed areas, specific rare plants (Barstow woolly sunflower, desert cymopterus, Mojave spineflower, and crowned muilla), seeds from these rare plants if on-site, and soil will be salvaged under the direction of a project botanist per the mitigation measures in Section 2.3 above. Selected species of cacti found on-site favorable for salvage will be marked and salvaged for transplanting to an area on-site ready for reclamation under the direction of the botanist. On-site vegetation will be removed and crushed with the soil salvaged.

Per Sections 88.01.050(f) and 88.01.060(c) of the County of San Bernardino’s Development Code, all Joshua trees that are proposed to be removed will be transplanted or stockpiled for future transplanting wherever possible. As previously discussed, there are several scattered Joshua trees within the 63.75-acre site. Salvaged Joshua trees as well as any silver cholla shall be
transplanted to the nearest feasible areas, within the leased 100-acre parcel, following approved transplant methods for this species as required per contract with Caltrans designated biologists, their guidelines and mitigation measure BIO-12 in the EIS/EIR and listed above.

The available surface material will be salvaged to a depth of one-foot and graded into temporary shallow stockpiles during initial grading then into more long-term stockpiles below grade as shown on the Mine Plan, Sheet 1 and Figure 3 for future reclamation. The salvaged material will be stockpiled separately and clearly identified. This surface material will be used as growth media and seed bank for the revegetation effort. If the stockpiles are susceptible to wind erosion, there will be water sprayed to form a surface crest or covered with larger gravel materials.

**Revegetation**

Upon completion of mining, all disturbed slopes, access roads, and the pit floor will be reclaimed and revegetated within one year. Any rock or gravel on the roads will be removed and used as fill in the pit area. The slope, pit floor, storage areas, and roads will be ripped to a depth of 1.5 feet or greater parallel to the slope to break up compacted areas and aid in holding moisture and seeds. The stored surface material will be spread evenly over the areas to be reclaimed up to 1-foot in depth with ridges and furrows graded to aid in holding moisture and windblown seeds. The revegetation area will be seeded with a certified weed-free seed mix applied hydraulically (hydro-seeded). No invasive, non-native plant species will be used in the revegetation plan. Only native seeds tolerant to existing soil and rainfall conditions will be used.

Seeding will take place between November and February after the first substantial rains to take advantage of winter precipitation and eliminate the need for irrigation. Reclaimed areas will be clearly staked and flagged to eliminate additional disturbance. The seed mix will be applied by hydroseeding with a hydroseed slurry containing seed, natural fiber mulch, and organic tackifier. Although hydroseed mulch with seed can be carried and moved by flowing water, the mulch will help more of the seed stay in place and germinate compared to hand seeding.

A unique seed mix was developed for the spinescale scrub habitat occurring in the project impact area. The recommended seed mix and seeding rate for spinescale scrub is outlined in Table 3 (below) and may be modified or species re-placed due to availability of the seed that year and seed costs. Quick-growing, shallow-rooted species will be included in the seed mix to provide short-term erosion control. By providing short-term erosion control, more favorable growing conditions will be created for climax species that will provide long-term erosion control.

**Test Plots**

In addition, the operator shall establish four 10-square meter test plots. The test plots will be located in the southeastern portion of the site, refer to Sheet 1 of the Mine Plan. The plot areas shall be representative of disturbed slope and pit floor areas with the following treatments: (1) ripping to depth of 1-foot with no seeding; and (2) ripping and covering with available topsoil and seeding. The test plots will be maintained and monitored and tests conducted to refine revegetation techniques and seeding rates.
Table 3
Recommended Seed Mix
Kramer Junction Borrow Pit

<table>
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<tr>
<th>Species</th>
<th>Life Form</th>
<th>Pure Live Seed lbs./Acre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambrosia dumosa (white bursage)</td>
<td>shrub</td>
<td>1.0</td>
</tr>
<tr>
<td>Ambrosia salsola (burrobush)</td>
<td>shrub</td>
<td>0.5</td>
</tr>
<tr>
<td>Amsinckia tessellata (bristly fiddleneck)</td>
<td>annual herb</td>
<td>1.0</td>
</tr>
<tr>
<td>Atriplex polycarpa (allscale saltbush)</td>
<td>shrub</td>
<td>1.0</td>
</tr>
<tr>
<td>Atriplex spinifera (spinescale saltbush)</td>
<td>shrub</td>
<td>2.5</td>
</tr>
<tr>
<td>Krascheninnikovia lanta (winterfat)</td>
<td>shrub</td>
<td>0.5</td>
</tr>
<tr>
<td>Lasthenia gracilis (needle goldfields)</td>
<td>annual herb</td>
<td>0.5</td>
</tr>
<tr>
<td>Sphaeraicea ambiguа (Desert mallow)</td>
<td>perennial herb</td>
<td>0.5</td>
</tr>
<tr>
<td>Stipa hymenoides (Indian rice grass)</td>
<td>perennial grass</td>
<td>8.0</td>
</tr>
<tr>
<td>Stipa speciosa (desert needle grass)</td>
<td>perennial grass</td>
<td>1.0</td>
</tr>
</tbody>
</table>

Source: S&S Seeds, Jericho Systems, DMR - October 2017; revised February 2018 (typical depending on seed availability)

Irrigation

The plant palette proposed for the mine site consists of primarily drought-tolerant plants species that should perform well without additional water. The average precipitation in the area should be sufficient for seed germination and root establishment of native species.

Planting in the fall, prior to the winter rains, will be sufficient for seed germination and root establishment and reduce weed growth that is typically associated with supplemental irrigation. Scarification of the soil and the creation of surface rills and furrows will allow for maximized collection of water from rain events and run-off.

Fertilization

No fertilization of the site is recommended. The native seeds used for revegetation will be tolerant of existing soil conditions. Additionally, the mechanical loosening, and creation of surface rills and furrows, will create conditions favorable for seed germination and root establishment by native species. Widespread use of fertilizers on desert sites appears to benefit non-native weedy species and not the native species sought as the goal of the revegetation plan (Clary, 1987).

Weed Control

The purpose of the non-native invasive species control plan is to reduce or eliminate the occurrence of non-native invasive plant species that may invade the site where active and natural revegetation is taking place. Non-native invasive species (weeds) can compete with native plant species for available moisture and nutrients and consequently interfere with revegetation of the site.
Several non-native plant species were identified on site, including Saharan mustard (*Brassica tauraneftorii*), foxtail chess (*Bromus madritensis*), cheatgrass (*B. tectorum*), redstem fillaree (*Erodium cicutarium*), Russian thistle (*Salsola paulsenii*) and Mediterranean grass (*Schismus* ssp.). The latter species is prevalent within the herbaceous layer and comprises approximately 40% of the ground cover within the sampled areas.

The occurrence of non-native invasive species on-site after revegetation shall be monitored by visual inspection quarterly for the first year and then annually thereafter. The goal is to prevent non-native invasive species from becoming established and depositing seeds in revegetated areas.

Non-native vegetation will be removed using the most efficient method as determined by the site conditions. Removal may occur regularly in the first year and may consists of using mechanized equipment, hand tools and/or herbicide spraying. Herbicides may be applied to control an instance where there is an aggressive and extensive weed invasion on site. Cover and density of non-native grass species within the revegetation area shall be no greater than the baseline and in comparable surrounding lands that have not been disturbed by the project. For non-native species other than non-native grasses (i.e. Saharan mustard, Russian thistle, etc.), no areas will be allowed to have more than 10 percent non-native invasive species ground cover. Due to the surrounding areas of non-native grasses and wind-blown seeds, it is not achievable to reduce these non-native grasses to 10% levels. However, weed control application of herbicides would reduce non-native grasses.

If inspections reveal that non-native invasive species are becoming or have become established on site, then removal will be initiated. Inspections shall be made in conjunction with revegetation monitoring. Reports of inspections and weed control implementation shall be part of the annual revegetation monitoring and kept on file by the operator.

In addition, the following avoidance, minimization, and mitigation measures are included in the EIS/EIR and will be implemented by the Applicant as required per contract with Caltrans would reduce potential impacts from the introduction of invasive species during construction:

- **BIO-38**: Measures to minimize the introduction or spread of nonnative species would include cleaning all equipment and vehicles with water (or another Caltrans approved method) to remove dirt, seeds, vegetative material, or other debris before entering and upon leaving the project site and the removal and disposal off site of existing nonnative species within the project area.

- **BIO-39**: Landscaping and erosion control measures proposed during this Caltrans project will not contain invasive species in the plant selections or seed mixtures.

**Monitoring**

The Revegetation Monitoring Plan will be an ongoing effort to assess the results of revegetation on the disturbed areas of the site. The monitoring plan will be followed annually to monitor and assess completed revegetated areas (and test plots) and areas where revegetation is being planned or just beginning. A Revegetation Monitoring Report submitted by the operator to the County...
will be part of the overall compliance with conditions. Revegetated areas will be assessed utilizing success criteria with successful methods being implemented for future revegetation.

Revegetation efforts will be monitored annually for five years after seeding or until revegetation meets the success criteria and is self-sustaining. Revegetation observations will be summarized annually as part of the overall-monitoring program. This schedule may be revised depending on the results of the revegetation effort and the meeting of the success criteria. Monitoring and revegetation results will be reported to the County in an annual monitoring report.

**Success Criteria**

The site consists of salt bush scrub with minimal vegetation. Success criteria will be based on the overall quality of the revegetation results compared to the recorded baseline vegetation data. Following completion of the revegetation, the surviving perennial plant species shall be evaluated annually by the consulting botanist for relative growth as determined by cover, diversity and density. Individual specimens or areas shall receive appropriate remedial attention as necessary. Remedial actions include removing invasive weed species or reseeding. The above procedure will be repeated annually for a total of five years or until success criteria achieved. Successful revegetation based on baseline data and DMR standards will be achieved when the reseeded areas have met the following in Table 4 five years after reclamation.

### Table 4

**Kramer Junction Borrow Pit**

*Recommended Revegetation Success Criteria*

<table>
<thead>
<tr>
<th>Mixed Desert Scrub</th>
<th>Baseline Mean</th>
<th>Standard Success Percentage</th>
<th>Success Criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cover (%)</td>
<td>26</td>
<td>40%</td>
<td>11% cover of native perennials</td>
</tr>
<tr>
<td>Density</td>
<td>15</td>
<td>70%</td>
<td>10 native perennials/1,000 sq. ft. or 6 native perennials per 50-m x 1-m (50 m²) transect or 540 sq. ft.</td>
</tr>
<tr>
<td>Species Richness or Diversity</td>
<td>5</td>
<td>75%</td>
<td>4 native perennials/1,000 sq. ft. or 50 m²</td>
</tr>
</tbody>
</table>

Source: Revegetation Plan – Jericho Systems Inc. and DMR comments February 2018 (see Appendix 1)

**Revegetation Monitoring**

The ongoing revegetation activities will be monitored throughout the life span of the mining operation and will be summarized annually as part of the overall monitoring plan and report. Data on plant species diversity, cover, density, survival and vigor will be collected on revegetated sites and compared qualitatively to undisturbed sites to evaluate success. The operator will seed with the seed mix listed in Table 2 which includes four perennial species.

Per DMR comment, “Data for cover, density, and species richness will be collected along 14 randomly placed 50-meter by 1-meter transects. Cover will be evaluated using the line-intercept method along the 50-meter tape. Density and species richness will be recorded by counting all
native perennials rooted within the belt transect. All values will then be averaged and compared to the performance standards for each criterion.”

All data will be recorded and permanent photo documentation stations will also be established for representative transects in order to visually document annual vegetation changes and community development.

If at any time the revegetation efforts are found unsuccessful as compared to surrounding areas, the botanist will reevaluate the revegetation guidelines and recommend procedures to ensure successful plant propagation. Remedial activities may include but not limited to additional seeding, change of seed mix, removal of invasive non-native species, and additional protection from human and animal impacts as deemed necessary. Monitoring of the revegetation will continue for five years after cessation of mining or until the site is deemed successfully revegetated by the County. These results will be reported to the County of San Bernardino annually.

2.7 CLEANUP

At the completion of mining activities, all equipment will be removed from the project site. All debris will be removed and disposed at a permitted facility. The pond will be allowed to evaporate, the liner will be placed into the pond, and the pond backfilled to grade. All quarry fencing and gates will remain in place to prevent unauthorized access.

2.8 POST RECLAMATION AND FUTURE MINING

The reclaimed site will allow the land owner to re-grade the existing air strips for private use. The reclaimed site will not preclude or necessitate any future mining activities with depth or surface modification. Upon completion of mining activities, the site will be open space/habitat and used as a private air field as it functioned historically. The site will be 25 to 40 feet below the adjacent properties with contoured and revegetated 3H:1V slopes.

2.9 SLOPE AND SLOPE TREATMENT

Stabilization of the mine slopes will be accomplished during the final excavations per area and phase and may include some backfilling of slopes if over-steepened. Slope stabilization will improve the aesthetics of the site; reduce slope erosion; eliminate slope sliding; and eliminate hazards such as un-safe drop-offs.

Final slopes will be excavated at 3H:1V so no backfilling will be required. If some minor fill is required to create final 3H:1V slopes, the fill will be compacted by tracking the dozer over the slope to achieve appropriate compaction consistent with the final end use of open space. Overly compacted final-graded slopes and/or the pit floor may require being loosened by mechanical means to aid the reseeding effort.

Preserved topsoil (as described in Section 2.11 Soils) will be placed over this prepared compacted/loosened surface, with final treatment and subsequent revegetation to follow pursuant
to Section 2.6 Revegetation. Revegetation activities will generally commence in late fall to correspond with the rainy season of the area.

2.10 PONDS, WASTES

The water holding pond on-site will be allowed to evaporate, its liner will be cut and placed within the pond, and the pond backfilled to grade.

Chemicals are not used on-site; no processing occurs on-site. There will be no chemical waste or pollution from the mining operations.

2.11 SOILS

Stantec drilled boreholes on-site for Caltrans (Soil Survey Investigation Report, December 2, 2016). The samples indicated that the surface and to depths of 25 feet consisted of silty to clayey sand, light brown to brown; with some fines and clays.

The mine site is generally underlain by recent age alluvium, lake, playa, and terrace deposits made up of weathered rock and sand; unconsolidated and semi-consolidated. All identified topsoil, or at minimum the top 6 inches of surface soils and material, will be graded into stockpiles to preserve as much of the organic material and seeds as practicable. Locations for temporary and more long-term surface material stockpiles are identified on Sheet 1 of the Mine Plan. For 60 acres at 0.5 feet, approximately 48,000 cubic yards would be salvaged.

2.12 DRAINAGE AND EROSION CONTROLS

Post-reclamation drainage on-site will be contained by the resulting shallow basin. Only minor sheet flow may drain into the pit. No defined drainages will be interested by the project site. Refer to Section 1.5 for a description of drainage and erosion controls that will be maintained after termination of mining.

2.13 PUBLIC SAFETY

All equipment and debris will be removed from the site upon project completion. Public access to the site will be restricted by the site perimeter 4-strand wire fence with attached desert tortoise fencing per USFWS protocol and locked access gates during operations and until revegetation is deemed successful. Warning signs with contrasting background lettering will be installed every 250 feet along the approved surface mine boundary shall be installed and shall read “No Trespassing - Keep Out; Surface Mining Operation” or similar during mining. Signs will be approximately 1-foot high and 2 feet wide.

The reclaimed 3H:1V slopes will be of sufficient low gradient as not to cause a hazard to public safety if the public illegally trespasses onto the site.
2.14 MONITORING AND MAINTENANCE

The County as lead agency to implement SMARA requires annual reporting of Mining and Reclamation activities. The reports are filed with the State Division of Mine Reclamation and the County. Revegetated areas will be monitored over a five-year period or until success criteria achieved following initial planting. Data on plant species diversity, cover, survival and vigor will be collected on revegetated sites and compared to baseline data from undisturbed sites to evaluate project success.

Monitoring and maintenance of reclamation is an ongoing responsibility of the applicant and if accepted, by the land owner.

Ongoing operations and reclamation activities require monitoring and maintenance as applicable. The operator will provide onsite review of the following among others:

a. Storm Water Pollution Prevention per the NPDES plan and SWPPP required by State and Federal rules and per Caltrans contract as discussed under Section 1.5 above. Erosion control will be reviewed and addressed within the SWPPP.

b. Implementation and effectiveness of dust control measures;

c. Maintenance and managing idling for trucking operations;

d. Inspection of fencing and signs; and

e. Test revegetation plots.

2.15 RECLAMATION ASSURANCE

The applicant through a lease with the property owner shall post or cause to be posted reclamation assurance in an amount sufficient to pay for the cost of reclamation as outlined in Section 2. The reclamation assurance shall be reviewed by the Lead Agency annually as required by the Surface Mining and Reclamation Act (SMARA). San Bernardino County is the lead agency for SMARA compliance and will review the Reclamation Assurance and inspect the mine site annually.

In addition to the monitoring through inspections and reporting, the operator is required to assure reclamation of the site in accordance to the approved Reclamation Plan in compliance with Section 2773.1 of SMARA. The operator shall continue to post reclamation assurance mechanisms in an amount sufficient to pay for the cost of reclamation as outlined in Section 2. The financial assurances must be approved by and payable to the County and the California Department of Conservation.
3.0 GEOLOGY

Kramer Junction area is located approximately 30 miles north of the city of Adelanto in the Mojave Desert. The Mojave Desert province is characterized by an interior region of isolated mountain ranges separated by expanses of desert plains. In general, the province has an interior enclosed drainage and many playas. Two important fault trends control topography in the Mojave province, one being a prominent northwest/southeast trend and the other a secondary east-west trend. The Study Area is generally underlain by recent age alluvium, lake, playa, and terrace deposits made up of weathered rock and sand; unconsolidated and semi-consolidated.

The Study Area, as is most of Southern California, is located in a seismically active area. According to the DMG Preliminary Fault Activity Map of San Bernardino, the nearest recently active faults include the Kramer Junction Area Faults and South Lockhart Fault (CDMG, 1994). The Study Area is not located within an Alquist Priolo Special Studies Zone (A-P Zone). The nearest A-P Zone is for the South Lockhart Fault which intersects SR-58 approximately 7 miles east of the Kramer Junction intersection (CDMG, 2000). These and other faults are capable of generating significant seismic events (greater than 5.0 magnitude).

The project site does not fall within a Geological Hazard Zone, as identified on the San Bernardino County General Plan Map Atlas, overlay map, CHDHC. There are no geologic conditions that could adversely affect this project.
4.0 HYDROLOGY

Surface Hydrology

The project area is within the Mojave hydrologic basin of the Antelope-Fremont Valleys and Coyote-Cuddeback Lakes watersheds. The overall Mojave hydrologic basin, which has a surface area of approximately 4,500 square miles, is located entirely within the County of San Bernardino. The Mojave River, located approximately 15 miles southeast of the project site, is the nearest major watercourse. Most of the Mojave River is subterranean, but flows breach the surface between the cities of Barstow and Victorville.

The site is relatively flat with a slight gradient to the north-northwest to a low playa or drainage area with a slight gradient to the west towards Boron and Rogers Dry Lake. No drainages are intersected by the proposed excavation area.

Groundwater

Groundwater is anticipated to flow northwest and west generally mimicking surface topography. The EIR/EIS reports groundwater at depths greater than 150 feet below ground surface (bgs). The Antelope Valley and Harper Valley groundwater basins underlie the project area.

According to the GeoTracker website (Stantec report), depth to groundwater is reported to be approximately 70 feet below the ground surface (bgs) in wells located near the area of Kramer Junction (DWR, 2016a) with a historical high groundwater elevation reported at 64.5 feet bgs in 2012 (DWR, 2016b). The proposed project site is to be excavated to an average depth of 25 to 40 feet, which is not anticipated to impact the water table. Water used for dust suppression on site will be pumped from an on-site well. Water usage for dust suppression is not expected to have an impact or potential to increase siltation on the project site as most will evaporate.
REFERENCES


California Department of Transportation, District 8; Stantec. *Soil Survey Investigation Report, Task Order No. 34; Soil Survey for 4 Parcels*. Location: 08-SBD-58-PM R0.0/R12.9 San Bernardino County, California. December 2, 2016

California State Water Resources Control Board - GeoTracker website. [https://geotracker.waterboards.ca.gov/](https://geotracker.waterboards.ca.gov/)

County of San Bernardino 2007 Development Code, amended September 23, 2016. Chapter 88.03 Surface Mining and Land Reclamation.


CROSS REFERENCE MATRIX

Kramer Junction Borrow Pit
Mine Reclamation Plan
Surface Mining and Reclamation Act of 1975 (SMARA) &
California Code of Regulations (CCR Title 14)

Prepared by Lilburn Corporation – December 2017

Including reference to:
ARTICLE 1. GENERAL PROVISIONS. SECTION 2710 et seq.
ARTICLE 2. DEFINITIONS. SECTION 2725 et seq.
ARTICLE 3. DISTRICT COMMITTEES. SECTION 2740 – 2741
ARTICLE 4. STATE POLICY FOR THE RECLAMATION OF MINED LANDS. SECTION 2755 et seq.
ARTICLE 5. RECLAMATION PLANS AND THE CONDUCT OF SURFACE MINING OPERATIONS. SECTION 2770 et seq., as amended
CCR TITLE 14 (REGISTER 85, No. 18-5-4-83)
CHAPTER 8. MINING AND GEOLOGY
SUBCHAPTER 1. STATE MINING AND GEOLOGY BOARD
ARTICLE 1. SURFACE MINING AND RECLAMATION PRACTICE. SECTION 3500 et seq.
ARTICLE 9. RECLAMATION STANDARDS. SECTION 3700 et seq.

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<td>Name and Address of operator/agent</td>
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<td>2</td>
<td>1.0</td>
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<tr>
<td>SMARA 2772 (c) (2)</td>
<td>Quantity &amp; type of minerals to be mined.</td>
<td>1, 7</td>
<td>1.0, 1.1</td>
<td></td>
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<tr>
<td>SMARA 2772 (c) (3)</td>
<td>Initiation and termination date.</td>
<td>2</td>
<td>1.0</td>
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<tr>
<td>SMARA 2772 (c) (4)</td>
<td>Maximum anticipated depth of mining.</td>
<td>5, 23</td>
<td>1.1, 2.8, 2.9</td>
<td></td>
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<tr>
<td>SMARA 2772 (c) (5)</td>
<td>Description, including map with boundaries, topographic details, geology, streams, roads, utilities.</td>
<td>1 – 9 Sheets 1 &amp; 2</td>
<td>1.0 - 1.6</td>
<td></td>
</tr>
<tr>
<td>SMARA 2772 (c) (6)</td>
<td>Mining plan and time schedule for reclamation (concurrent or phased reclamation).</td>
<td>1- 7, 16</td>
<td>1.0, 1.1, 2.5</td>
<td></td>
</tr>
<tr>
<td>SMARA 2772 (c) (7)</td>
<td>Proposed subsequent use.</td>
<td>23</td>
<td>2.8</td>
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<tr>
<td>SMARA 2772 (c) (8)</td>
<td>Description of reclamation measures adequate for proposed end use.</td>
<td>16 -23</td>
<td>2.5 -2.7</td>
<td></td>
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<tr>
<td>SMARA/CCR SECTION</td>
<td>DESCRIPTION</td>
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<td><strong>MINING OPERATIONS AND CLOSURE</strong></td>
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<tr>
<td>SMARA 2772 (c) (8) (a)</td>
<td>Description of containment control and mine waste disposal.</td>
<td>8</td>
<td>1.2</td>
<td></td>
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<tr>
<td>SMARA 2772 (c) (8) (b)</td>
<td>Rehabilitation of stream banks/beds to minimize erosion</td>
<td>X</td>
<td>---</td>
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<tr>
<td>SMARA 2772 (c) (9)</td>
<td>Impact of reclamation on future mining.</td>
<td>23</td>
<td>2.8</td>
<td></td>
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<tr>
<td>SMARA 2772 (c) (10)</td>
<td>Applicant statement accepting responsibility for reclamation per the reclamation plan.</td>
<td>Attached to application</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SMARA 2773 (a)</td>
<td>Water quality monitoring plan specific to property.</td>
<td>8, 24</td>
<td>1.5, 2.12</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>SWPPP to be prepared upon approval</td>
<td></td>
<td></td>
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<tr>
<td>SMARA 2773 (a)</td>
<td>Sediment and erosion control monitoring plan specific to property.</td>
<td>8, 24</td>
<td>1.5, 2.12</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>SWPPP to be prepared upon approval</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SMARA 2773 (a)</td>
<td>Revegetation plan specific to property. Monitoring Plan.</td>
<td>18-23</td>
<td>2.6</td>
<td></td>
</tr>
<tr>
<td>SMARA 2773.1</td>
<td>Performance (financial) assurances.</td>
<td>Draft attached to application</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SMARA 2777</td>
<td>Amended reclamation plans required prior to substantial deviations to approved plans.</td>
<td>X</td>
<td>INFORMATIONAL</td>
<td></td>
</tr>
<tr>
<td>CCR 3502 (b) (1)</td>
<td>Environmental setting and impact of reclamation on surrounding land uses. (Identify sensitive species, wildlife habitat, sensitive natural communities, e.g., wetlands, riparian zones, etc.).</td>
<td>10-16</td>
<td>2.1 – 2.5</td>
<td></td>
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<tr>
<td>CCR 3502 (b) (2)</td>
<td>Public health and safety (exposure).</td>
<td>24</td>
<td>2.13</td>
<td></td>
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<tr>
<td>CCR 3502 (b) (3)</td>
<td>Slopes: critical gradient, consider physical properties and landscaping.</td>
<td>5, 23</td>
<td>1.1, 2.9</td>
<td></td>
</tr>
<tr>
<td>CCR 3502 (b) (4)</td>
<td>Fill materials in conformance with current engineering practice.</td>
<td>X</td>
<td>---</td>
<td></td>
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<tr>
<td>SMARA/CCR SECTION</td>
<td>DESCRIPTION</td>
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<tr>
<td>CCR 3502 (b) (5)</td>
<td>Disposition of old equipment</td>
<td></td>
<td>23</td>
<td>2.7</td>
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<tr>
<td>CCR 3502 (b) (6)</td>
<td>Temporary stream and water diversions shown.</td>
<td>X</td>
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<tr>
<td>CCR 3503 (a) (1)</td>
<td>Removal of vegetation and overburden preceding mining kept to a minimum.</td>
<td></td>
<td>16-22</td>
<td>2.5, 2.6</td>
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<tr>
<td>CCR 3503 (a) (2)</td>
<td>Overburden stockpiles managed to minimize water and wind erosion.</td>
<td>X</td>
<td>---</td>
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<tr>
<td>CCR 3503 (a) (3)</td>
<td>Erosion control facilities (dikes, ditches, etc.) as necessary.</td>
<td></td>
<td>8, 24</td>
<td>1.5, 2.12</td>
</tr>
<tr>
<td>CCR 3503 (b) (1)</td>
<td>Settling ponds (sedimentation and water quality).</td>
<td>X</td>
<td></td>
<td></td>
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<tr>
<td>CCR 3503 (b) (2)</td>
<td>Prevent siltation of groundwater recharge areas.</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CCR 3503 (c)</td>
<td>Protection of fish and wildlife habitat (all reasonable measures).</td>
<td></td>
<td>10-15</td>
<td>2.3, 2.4</td>
</tr>
<tr>
<td>CCR 3503 (d)</td>
<td>Disposal of mine waste and overburden (stable-no natural drainage restrictions without suitable provisions for diversion).</td>
<td>X</td>
<td>---</td>
<td></td>
</tr>
<tr>
<td>CCR 3503 (e)</td>
<td>Erosion and drainage (grading to drain to natural courses or interior basins).</td>
<td></td>
<td>8, 24</td>
<td>1.5, 2.12</td>
</tr>
<tr>
<td>CCR 3503 (f)</td>
<td>Resoiling (fine material on top plus mulches).</td>
<td></td>
<td>18-19, 24</td>
<td>2.6, 2.11</td>
</tr>
<tr>
<td>CCR 3503 (g)</td>
<td>Revegetation and plant survival (use available research).</td>
<td></td>
<td>18-22</td>
<td>2.6</td>
</tr>
<tr>
<td>CCR 3703 (a)</td>
<td>Sensitive species conserved or mitigated</td>
<td></td>
<td>10-12</td>
<td>2.3</td>
</tr>
<tr>
<td>CCR 3703 (b)</td>
<td>Wildlife habitat at least as good as pre-project, if approved end use is habitat.</td>
<td></td>
<td>18-22</td>
<td>2.6</td>
</tr>
<tr>
<td>CCR 3703 (c)</td>
<td>Wetlands avoided or mitigated at 1:1 minimum</td>
<td>X</td>
<td></td>
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<tr>
<td>SMARA/CCR SECTION</td>
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<tr>
<td>CCR 3704 (a)</td>
<td>For urban use, fill compacted in accordance with UBC or local grading ordinance.</td>
<td>X</td>
<td></td>
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<tr>
<td>CCR 3704 (b)</td>
<td>For resource conservation, compare to standard for that end use</td>
<td>X</td>
<td></td>
<td></td>
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<tr>
<td>CCR 3704 (c)</td>
<td>Mine waste stockpiled to facilitate phased reclamation and separate from growth media.</td>
<td>X</td>
<td></td>
<td></td>
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<tr>
<td>CCR 3704 (d)</td>
<td>Final reclamation fill slopes not exceed 2:1, except when engineering and revegetation analysis allow.</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CCR 3704 (e)</td>
<td>Final landforms or fills conform with surrounding topography or end use.</td>
<td>16, 23</td>
<td>2.5, 2.9</td>
<td></td>
</tr>
<tr>
<td>CCR 3704 (f)</td>
<td>Cut slopes have minimum factor of safety for end use and conform with surrounding topography.</td>
<td>16, 23</td>
<td>2.5, 2.9</td>
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<tr>
<td>CCR 3704 (g)</td>
<td>Piles or dumps not placed in wetlands without mitigation.</td>
<td>X</td>
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<tr>
<td>CCR 3705 (a)</td>
<td>Vegetative cover, suitable to end use, self-sustaining. Baseline studies documenting cover, density and species richness.</td>
<td>18-22; Table 4</td>
<td>2.6; Appendix 1</td>
<td></td>
</tr>
<tr>
<td>CCR 3705 (b)</td>
<td>Test plots if success has not been proven previously</td>
<td>20</td>
<td>2.6</td>
<td></td>
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<tr>
<td>CCR 3705 (c)</td>
<td>Decompaction of site.</td>
<td>16, 18</td>
<td>2.5, 2.6</td>
<td></td>
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<tr>
<td>CCR 3705 (d)</td>
<td>Roads stripped of road base materials, resoiled and revegetated, unless exempted.</td>
<td>16, 19</td>
<td>2.5, 2.6</td>
<td></td>
</tr>
<tr>
<td>CCR 3705 (e)</td>
<td>Soil altered or other than native topsoil, required soil analysis. Amend if necessary.</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CCR 3705 (f)</td>
<td>Temporary access not bladed. Barriers installed.</td>
<td>X</td>
<td></td>
<td></td>
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<tr>
<td>SMARA/CCR SECTION</td>
<td>DESCRIPTION</td>
<td>N/A</td>
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<td><strong>MINING OPERATIONS AND CLOSURE</strong></td>
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</tr>
<tr>
<td>CCR 3705 (g)</td>
<td>Use native plant species, unless exotic species meet end use.</td>
<td>18-19</td>
<td>2.6</td>
<td></td>
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<tr>
<td>CCR 3705 (h)</td>
<td>Plant during correct season.</td>
<td>16, 19</td>
<td>2.5, 2.6</td>
<td></td>
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<tr>
<td>CCR 3705 (i)</td>
<td>Erosion control and irrigation, when necessary.</td>
<td>8, 24</td>
<td>1.5, 2.12</td>
<td></td>
</tr>
<tr>
<td>CCR 3705 (j)</td>
<td>If irrigated, demonstrate self-sustaining without for two-year minimum.</td>
<td>X</td>
<td></td>
<td></td>
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<tr>
<td>CCR 3705 (k)</td>
<td>Weeds managed.</td>
<td>20-21</td>
<td>2.6</td>
<td></td>
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<tr>
<td>CCR 3705 (l)</td>
<td>Plant protection measures, fencing, caging.</td>
<td>X</td>
<td></td>
<td></td>
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<tr>
<td>CCR 3705 (m)</td>
<td>Success quantified by cover, density and species-richness. Standards proposed in plan. Sample method set forth in plan and sample size provides 80 percent confidence level, as minimum.</td>
<td>21-22; Table 4</td>
<td>2.6</td>
<td></td>
</tr>
<tr>
<td>CCR 3706 (a)</td>
<td>Mining and reclamation to protect downstream beneficial uses.</td>
<td>X</td>
<td></td>
<td></td>
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<tr>
<td>CCR 3706 (b)</td>
<td>Water quality, recharge, and groundwater storage shall not be diminished, except as allowed by plan.</td>
<td>X</td>
<td></td>
<td></td>
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<tr>
<td>CCR 3706 (c)</td>
<td>Erosion and sedimentation controlled during all phases as per RWQCB/SWRCB.</td>
<td>8, 24</td>
<td>1.5, 2.12</td>
<td></td>
</tr>
<tr>
<td>CCR 3706 (d)</td>
<td>Surface runoff and drainage controlled and methods designed for not less than 20 year/1 hour intensity storm event.</td>
<td>8, 24</td>
<td>1.5, 2.12</td>
<td></td>
</tr>
<tr>
<td>CCR 3706 (e)</td>
<td>Altered drainages shall not cause increased erosion or sedimentation.</td>
<td>X</td>
<td>---</td>
<td></td>
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<tr>
<td>CCR 3706 (f)</td>
<td>Stream diversions constructed in accordance with DFG 1603, EPA 404, Sec. 10 Rivers and Harbors.</td>
<td>X</td>
<td>---</td>
<td></td>
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<tr>
<td>SMARA/CCR SECTION</td>
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<tr>
<td>CCR 3706 (g)</td>
<td>All temporary diversions eventually removed.</td>
<td>X</td>
<td>---</td>
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<tr>
<td>CCR 3707 (a)</td>
<td>Return prime ag to prime ag, unless exempted.</td>
<td>X</td>
<td>---</td>
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<tr>
<td>CCR 3707 (b)</td>
<td>Segregate and replace topsoil by horizon.</td>
<td>X</td>
<td>---</td>
<td></td>
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<tr>
<td>CCR 3707 (c)</td>
<td>Productivity rates equal pre-project or similar site for two consecutive years. Rates set forth in plan.</td>
<td>X</td>
<td>---</td>
<td></td>
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<tr>
<td>CCR 3707 (d)</td>
<td>Fertilizers and amendments not contaminate water.</td>
<td>X</td>
<td>---</td>
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<tr>
<td>CCR 3708</td>
<td>Other ag capable of sustaining crops of area.</td>
<td>X</td>
<td>---</td>
<td></td>
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<tr>
<td>CCR 3709 (a)</td>
<td>Equipment stored in designated area and waste disposed of according to ordinance.</td>
<td></td>
<td>8, 1.2</td>
<td></td>
</tr>
<tr>
<td>CCR 3709 (b)</td>
<td>Structures and equipment dismantled and removed.</td>
<td></td>
<td>23, 2.7</td>
<td></td>
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<tr>
<td>CCR 3710 (a)</td>
<td>Surface and groundwater protected.</td>
<td></td>
<td>8, 24, 1.5, 2.12</td>
<td></td>
</tr>
<tr>
<td>CCR 3710 (a)</td>
<td>Surface and groundwater projected in accordance with Porter Cologne and Clean Water Acts (RWQCB/SWRCB).</td>
<td>8, 24</td>
<td>1.5, 2.12</td>
<td></td>
</tr>
<tr>
<td>CCR 3710 (b)</td>
<td>In-stream in accordance with CFG 1600, EPA 404, and Sec. 10 Rivers and Harbors.</td>
<td></td>
<td>X</td>
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<tr>
<td>CCR 3710 (c)</td>
<td>In-stream channel elevations and bank erosion evaluated annually using extraction quantities, cross-sections, and aerial photos.</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CCR 3710 (d)</td>
<td>In-stream mining activities shall not cause fish to become entrapped in pools or in off-channel pits. California Fish and Game Code section 1600.</td>
<td>X</td>
<td></td>
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<td>SMARA/CCR SECTION</td>
<td>DESCRIPTION</td>
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<tr>
<td>CCR 3711(a)</td>
<td>All salvageable topsoil removed. Topsoil and vegetation removal not proceed mining by more than one year.</td>
<td></td>
<td>24</td>
<td>2.11</td>
</tr>
<tr>
<td>CCR 3711 (b)</td>
<td>Topsoil resources mapped prior to stripping, location of stockpiles on map. Topsoil and growth media in separate stockpiles.</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CCR 3711 (c)</td>
<td>Soil salvage and phases set forth in plan, minimize disturbance, designed to achieve revegetation success.</td>
<td></td>
<td>24</td>
<td>2.11</td>
</tr>
<tr>
<td>CCR 3711 (d)</td>
<td>Topsoiling phased ASAP. Stockpiles not to be disturbed until needed. Stockpiles clearly identified and planted with vegetation or otherwise protected.</td>
<td></td>
<td>24</td>
<td>2.11</td>
</tr>
<tr>
<td>CCR 3711 (e)</td>
<td>Topsoil redistributed in stable site and consistent thickness.</td>
<td></td>
<td>16, 18, 24</td>
<td>2.5, 2.6, 2.11</td>
</tr>
<tr>
<td>CCR 3712</td>
<td>Waste and tailings, and waste disposal governed by SWRCB (Article 7, Chapter 15, Title 23, CCR).</td>
<td></td>
<td>8</td>
<td>1.2</td>
</tr>
<tr>
<td>CCR 3713 (a)</td>
<td>Drill holes, water wells, monitoring wells abandoned in accordance with laws.</td>
<td>X</td>
<td></td>
<td>---</td>
</tr>
<tr>
<td>CCR 3713 (b)</td>
<td>All portals, shafts, tunnels, or openings, gated or protected from public entry, but preserve access for wildlife.</td>
<td>X</td>
<td></td>
<td>---</td>
</tr>
</tbody>
</table>
APPENDIX 1

REVEGETATION PLAN
JERICHO SYSTEMS
OCTOBER 2017
(REVISED PER DMR COMMENTS
FEBRUARY 2018)
Revegetation Plan
For the SR-58 Kramer Junction Expressway Project
Kramer Junction Borrow Pit

Unincorporated Area East of Boron and West of Kramer Junction
San Bernardino County, California

Prepared for:

Lilburn Corporation
Attn: Martin Derus
1905 Business Center Drive
San Bernardino, CA 92408

Prepared October 2017 (revised per DMR Comments February 2018)

Prepared by:

Jericho Systems, Inc.
Shay Lawrey, President
47 1st Street, Suite 1
Redlands, CA 92373-4601
Certification

Jericho Systems, Inc.
47 1st Street, Suite 1
Redlands, CA 92373-4601
(909) 915-5900

Contact: Shay Lawrey, President and Ecologist/Regulatory Specialist

Certification: I hereby certify that the statements furnished herein, and in the attached exhibits present data and information required for this Biological Resources Report to the best of my ability, and the facts, statements, and information presented are true and correct to the best of my knowledge and belief. This report was prepared in accordance with professional requirements and standards. Fieldwork conducted for this assessment was performed by me. I certify that I have not signed a non-disclosure or consultant confidentiality agreement with the project proponent and that I have no financial interest in the project.

Shay Lawrey, Ecologist/Regulatory Specialist
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Appendix B – Data Sheets

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Lilburn Corporation
Kramer Junction Borrow Pit
Revegetation Plan

JERICHO SYSTEMS, INC.
1 Introduction

This Revegetation Plan is designed to meet the Surface Mining and Reclamation Act (SMARA) performance guidelines for revegetation (Article 9, Section 3709) and soil salvage (Article 9, Section 3711) for the proposed Kramer Junction Borrow Pit Project (project). The borrow pit will be the source for up to 3 million cubic yards (cy) of material for the State Route 58 (SR-58) Kramer Junction Expressway Project. Reclamation of the site will commence immediately upon termination of mining. The proposed project area is approximately 63.75 acres of which 6.75 acres are currently disturbed and 57 acres are undisturbed. The 63.75-acre site is situated on an approximately 100-acre parcel (APN #: 0498-323-47) owned by Kramer Services and leased by Kiewit Infrastructure West Co. The goal of the revegetation program is to establish the guidelines to monitor, maintain, and assess the results of the completed revegetation program through comparison to the established baseline data and recommended success criteria.

1.1 Project Location

The proposed project site is located approximately 2 miles east of the SR-58 and Boron interchange and 1 mile east of the Kern County border. The privately-held 100-acre parcel (APN #: 0498-23-47) is within the west part of San Bernardino County and depicted on the SW¼ of the U. S. Geological Survey’s (USGS) Saddleback Mountain 7.5-minute Quadrangle Map in the SW¼ of Section 34, Township 11 North, Range 7 West, San Bernardino Base Meridian (Figures 1&2). Access to the site will be from the existing SR-58 highway about 1/3 mile north on Castle Road. The mined material will be transported to the new SR-58 alignment approximately 630 feet north of the project site via a Caltrans right-of-way. The site has three 60-foot wide private landing strips that run diagonally across the site which is known as the Boron Air Field. The remainder of the project site is vacant open desert land.

1.2 Project Description

The California Department of Transportation (Caltrans) is realigning and widening to four lanes approximately 13 miles of SR-58 from the Kern County line east to about 7.5 miles east of Kramer Junction. The SR-58 Kramer Junction Expressway Project also includes a partial cloverleaf at the SR-58 and US-395 junction and railroad grade separation alleviating existing traffic issues. This project, also known as the Kramer Junction Gap Closure Project, is being constructed as a joint project by Caltrans and the Federal Highway Administration (FHWA) tentatively starting in late 2017 and completed by the end of the year 2020. Kiewit Infrastructure West Co. is proposing to utilize approximately 63.75 acres of the 100-acre parcel for the removal of up to 3 million cy for a mining period of three years. Mined products will include landscape and general fill material for the SR-58 Kramer Junction Expressway Project.

Caltrans included the proposed project site defined by Caltrans as Area 2 Borrow Area, in their project design and environmental review. Caltrans concluded in their National Environmental Policy Act/Californian Environmental Quality Act (NEPA/CEQA) Re-Validation Form (August 8, 2017) that the Environmental Impact Report/Environmental Impact Statement (EIR/EIS) for SR-58 Kramer Junction Expressway Project (July 1, 2014) remains valid with implementation of project design and mitigation measures for the potential impacts of the Kramer Junction Borrow Pit area.

The borrow pit site is currently vacant with the three unpaved air strips and consists of Atriplex spinifera Shrubland Alliance (spinescale scrub) habitat. The adjacent properties are vacant to the west, north, and east. The owner’s residence lies to the southwest and two other residences are located 600 to 1,000 feet to the south. The existing SR-58 Highway lies to the west and south and the new alignment is aligned west to east to the north.
2 Environmental Setting

The general project vicinity consists primarily of open space and scattered private residences. The project site is in the Boron area of the western Mojave Desert, situated between the Transverse Mountain Ranges and the southern end of the Sierra Nevada Mountains, south of the Rand and Lava Mountain ranges and northwest of the Mojave River in San Bernardino County, California. The Boron area is subject to both seasonal and annual variations in temperature and precipitation. Average annual maximum temperatures typically peak at 98 degrees Fahrenheit (° F) in July, and fall to an average annual minimum temperature of 36° F in January. Average annual precipitation is greatest from November through March and reaches a peak in February (1.32 inches). Precipitation is lowest in the month of June (0.03 inches). Annual precipitation averages 6.41 inches. The topography of the project area is very flat and the elevation within the project site ranges from approximately 2,484 feet above mean sea level (amsl) at the northwest corner of the site to 2,500 feet amsl along the southern boundary of the site.

The U.S. Department of Agriculture (USDA) Natural Resources Conservation Service’s (NRCS) Web Soil Survey was accessed to determine what soil type(s) occur within the proposed project area. The project site is within an area for which no digital data is available. However, per the NRCS Web Soil Survey report, the surrounding mapped areas are dominated by the following four soil types:

- **Cajon-Norob complex, 2 to 9 percent slopes** – Cajon Family (2 to 9 percent slope) soils are comprised of loamy sand, from aeolian deposits derived from granite. This soil type is typical of sand sheets, is somewhat excessively-drained with a high to very high runoff class and is not considered a hydric soil. Norob Family (2 to 9 percent slope) soils are comprised of sandy loam, loam, clay loam, sandy clay loam and stratified gravelly loamy sand to sandy clay loam, from aeolian deposits derived from granite. This soil type is typical of alluvial flats, is moderately well-drained with a moderately low to moderately high runoff class and is not considered a hydric soil.

- **Cajon loamy sand, 0 to 5 percent slopes** – Cajon loamy sand (0 to 5 percent slope) soils are comprised of loamy sand to gravelly loamy sand, from alluvium derived from granite. This soil type is typical of alluvial fans and flood plains, is somewhat excessively-drained with a high to very high runoff class and is not considered a hydric soil.

- **Norob-Neuralia complex, 0 to 5 percent slopes** – Norob Family (0 to 5 percent slope) soils are comprised of sand, sandy clay loam, sandy clay loam and gravelly sandy loam, from alluvium derived from mixed sources. This soil type is typical of alluvial fans and flood plains, is moderately well-drained with a moderately low to moderately high runoff class and is not considered a hydric soil. Neuralia Family (0 to 5 percent slope) soils are comprised of sandy loam, sandy clay loam and stratified gravelly loamy sand to gravelly sandy clay loam, from alluvium derived from granite. This soil type is typical of alluvial fans and flood plains, is well-drained with a moderately high runoff class and is not considered a hydric soil.

- **Neuralia sandy loam, 2 to 5 percent slopes** – Neualia sandy loam (2 to 5 percent slope) soils are comprised of sandy loam, sandy clay loam and stratified gravelly loamy sand to gravelly sandy clay loam, from alluvium derived from granite. This soil type is typical of alluvial fans and flood plains, is well-drained with a moderately high runoff class and is not considered a hydric soil.

Based on aerial imagery and field observations, the soils within the project area appear similar to those identified by the NRCS Web Soil Survey in the surrounding area. Therefore, the soils within the project area likely consist of some combination of these four soil types.
2.1 Existing Vegetation
The baseline inventory of flora was conducted on September 15, 2017 by Jericho Systems, Inc. The survey was conducted to provide data upon which to base the revegetation plan of the proposed Borrow Pit site, and the success criteria for the site.

One homogeneous vegetation community was identified on site: *Atriplex spinifera* Shrubland Alliance (spinescale scrub). This habitat type occurs throughout the proposed project impact area and is typical of desert alluvial fans and old lake beds perched above current drainages (Sawyer et al., 2009). This habitat type is associated with soils that are moderately sandy clay loams to fine, silty clays that may be carbonate rich (Sawyer et al., 2009). The spinescale scrub habitat on site is co-dominated by spinescale saltbush (*Atriplex spinifera*) and white bursage (*Ambrosia dumosa*) in the shrub canopy. Please refer to the attached Site Photographs for a representation of conditions on site. A complete list of observed plant species is included as Appendix A. Field data sheets are included as Appendix B.

2.2 Method for Collecting Baseline Vegetation
To collect data needed to establish revegetation criteria, two sampling plot sites were randomly chosen (Sample Plot 1 and Sample Plot 2). Sample point locations were recorded on a handheld GPS. To evaluate vegetative cover, a series of nested plots were established, beginning with a 25-square foot (sq ft) area. All species were recorded within this area, then the sample area was enlarged to twice the size (50 sq ft), then to four and eight times the size, etc. All additionally occurring species were recorded separately for each increased subplot. The sample size was increased, doubling in size, until no new species were recorded in the subplot. The total area of Sample Plot 1 was 20 feet by 20 feet (400 sq ft) and the total area of Sample Plot 2 was 40 feet by 80 feet (3,200 sq ft). The overall coverage, density and species diversity were then recorded for each sample plot.

Although the herbaceous layer was sampled and all identified species will be included in the list of species observed on site (Appendix A), the percent (%) cover, density, and species diversity within this layer could not accurately be assessed. Given that the site was sampled in September, many of the annual species were dead and/or absent (i.e blown away) at the time of survey.

SMARA requires that sample sizes be sufficient to produce at least an 80% confidence level. In accordance with the recommendations for standard statistical methods for determining an 80% confidence level, provided in Section 3705 (Performance Standards for Revegetation) of the SMARA requirements, the methods described for determining the minimum area of the nested plot sample in D. Mueller-Dombois and H. Ellenberg, 1974, “Aims and Methods of Vegetation Ecology” were used. Per D. Mueller-Dombois and H. Ellenberg, the number of species per area (Species/Area in sq ft) was plotted on a graph (see example below) and the area on the curve containing 80% of the species observed was determined to be the minimum sample size. However, since the sample size was increased, doubling in size, until no new species were recorded in the subplot(s), the actual areas sampled were greater than what was determined to be the minimum sample area.
Example of Method for Determining 80% Confidence Level (Sample Plot 1)

2.2.1 Baseline Survey Results
As previously mentioned, the plant community identified within the sample areas is spinescale scrub, which is co-dominated by spinescale saltbush (Atriplex spinifera) and white bursage (Ambrosia dumosa) in the shrub canopy. Other shrub species identified within the sample areas include burrobush (Ambrosia salsola), winterfat (Krascheninnikovia lanata) and Mojave cottonthorn (Tetradymia stenolepis). Additionally, several scattered individuals of allscale saltbush (Atriplex polycarpa), Cooper's box thorn (Lycium cooperi), Joshua tree (Yucca brevifolia) and one individual silver cholla (Cylindropuntia echinocarpa) were observed within the proposed Borrow Pit site, but outside the sample areas.

Absolute shrub cover within the sample areas measured approximately 26% (see Table 1 below).

Table 1. % Cover within the Shrub Layer

<table>
<thead>
<tr>
<th>Species</th>
<th>%Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>Atriplex spinifera</td>
<td>15</td>
</tr>
<tr>
<td>Ambrosia dumosa</td>
<td>10</td>
</tr>
<tr>
<td>Tetradymia stenolepis</td>
<td></td>
</tr>
<tr>
<td>Ambrosia salsola</td>
<td>&lt; 1</td>
</tr>
<tr>
<td>Krascheninnikovia lanata</td>
<td>&lt; 1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>≈ 26</td>
</tr>
</tbody>
</table>

Total shrub density measured 15 shrubs per 1,000 sq ft, or 653.4 shrubs per acre (see Table 2 below); and a total of five (5) shrub species were observed to occur within the sample areas.
Table 2. Shrub Density per 1,000 sq ft.,/acre, and 50 m²

<table>
<thead>
<tr>
<th>Species</th>
<th>Density/1,000 sq ft</th>
<th>Density/acre</th>
<th>Density/50 m²</th>
</tr>
</thead>
<tbody>
<tr>
<td>Atriplex spinifera</td>
<td>5.83</td>
<td>254.1</td>
<td>3.13</td>
</tr>
<tr>
<td>Ambrosia dumosa</td>
<td>7.22</td>
<td>314.6</td>
<td>3.89</td>
</tr>
<tr>
<td>Tetradymia stenolepis</td>
<td>0.28</td>
<td>12.1</td>
<td>0.15</td>
</tr>
<tr>
<td>Ambrosia salsola</td>
<td>0.56</td>
<td>24.2</td>
<td>0.30</td>
</tr>
<tr>
<td>Krascheninnikovia lanata</td>
<td>1.11</td>
<td>48.4</td>
<td>0.60</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
<td><strong>653.4</strong></td>
<td><strong>8.07</strong></td>
</tr>
</tbody>
</table>

Much of the site appears to have been impacted by historic grazing and there are currently three private airstrips that cross the site, as well as several dirt access roads. Additionally, several non-native plant species were identified on site, including Saharan mustard (*Brassica tournefortii*), foxtail chess (*Bromus madritensis*), cheatgrass (*B. tectorum*), redstem fillaree (*Erodium cicutarium*), Russian thistle (*Salsola paulsenii*) and Mediterranean grass (*Schismus* ssp.). The latter species is prevalent within the herbaceous layer and comprises approximately 40% of the ground cover within the sampled areas.

3 Revegetation

Revegetation of the site upon termination of mining would follow a series of steps. These steps may be modified or changed should new information or techniques that would improve the results of the revegetation activities become available. The proposed borrow pit site would be reclaimed to approximately 63.75 acres of spinescale scrub vegetation (Figure 4). Success criteria and revegetation strategies were designed specifically to meet the needs of the vegetative community and environmental conditions at the site.

3.1 Joshua Tree Relocation

Per Sections 88.01.050(f) and 88.01.060(c) of the County of San Bernardino’s Development Code, all Joshua trees that are proposed to be removed will be transplanted or stockpiled for future transplanting wherever possible. As previously discussed, there are several scattered Joshua trees and silver cholla within the 63.75-acre site. Salvaged Joshua trees and cholla shall be transplanted to the nearest feasible areas, within the leased 100-acre parcel, following approved transplant methods for this species as required per contract with Caltrans designated biologists, guidelines and mitigation measure BIO-12 in the EIS/EIR.

3.2 Soil Salvage

The top 12 inches of topsoil shall be salvaged, stockpiled for restoration. Soil salvage activities will occur over approximately 63.75 acres, of which 6.75 acres are currently disturbed (bare ground) and 57 acres are undisturbed (spinescale scrub). Prior to topsoil salvage, any available vegetated soils onsite will be stockpiled in separate identified stockpiles for use as a seed bank during revegetation. The topsoil salvage stockpiles will be kept on site, within the leased 100-acre parcel. Exact locations of the soil stockpiles will be determined prior to clearing/grubbing activities and will be dependent upon grading plans and available space. The soil stockpiles will be clearly marked and stabilized with a breathable erosion control method such as jute netting. If the native seed bank within the removed topsoil is desired for revegetation, then the topsoil should be piled in wide rows that are a maximum of 3 feet high to prevent sterilization of the seed bank during soil storage. If the desired goal is only to retain the developed soil and chemical composition to provide additional soil richness for reseeding, then creating taller, more condensed stockpiles would be appropriate.
3.3  Seed Collection
The goal of seed collection is to preserve the local genetic diversity of the existing plant community while providing seed that is well suited for growth at the site. Seed collection must be undertaken and monitored by a professional seed collecting firm or a qualified botanist. When seed collection is not possible, a certified weed free seed mix may be used in lieu of seed collected at the site. Certified weed free seed mixes are available and may be purchased from professional nurseries.

3.4  Site Preparation
The proposed operation would involve the removal of up to 3 million cy of material. Upon termination of mining activities, the surfaces to be revegetated would be returned to their original land contours, except for the borrow pit slopes. Where possible, revegetation surfaces would be ripped to about 18 to 36 inches in depth to break up compacted areas and would be left in a textured or rough condition with shallow rills and furrows to create optimal conditions for revegetation with a native seed mix. Any available soils will be deposited in a stable, uniform thickness and seeded.

Quick-growing, shallow-rooted species will be included in the seed mix to provide short-term erosion control. By providing short-term erosion control, more favorable growing conditions will be created for climax species that will provide long-term erosion control.

3.5  Irrigation
The plant palette proposed for the mine site consists of primarily drought-tolerant plants species that should perform well without additional water. The average precipitation in the area should be sufficient for seed germination and root establishment of native species.

Planting in the fall, prior to the winter rains, will be sufficient for seed germination and root establishment and reduce weed growth that is typically associated with supplemental irrigation. Scarification of the soil and the creation of surface rills and furrows will allow for maximized collection of water from rain events and run-off.

3.6  Fertilization
No fertilization of the site is recommended. The native seeds used for revegetation will be tolerant of existing soil conditions. Additionally, the mechanical loosening, and creation of surface rills and furrows, will create conditions favorable for seed germination and root establishment by native species. Widespread use of fertilizers on desert sites appears to benefit non-native weedy species and not the native species sought as the goal of the revegetation plan (Clary, 1987).

3.7  Weed Control
The purpose of the non-native invasive species control plan is to reduce or eliminate the occurrence of non-native invasive plant species that may invade the site where active and natural revegetation is taking place. Non-native invasive species (weeds) can compete with native plant species for available moisture and nutrients and consequently interfere with revegetation of the site.

The occurrence of non-native invasive species on-site shall be monitored by visual inspection quarterly for the first year and then annually thereafter. The goal is to prevent non-native invasive species from becoming established and depositing seeds in revegetated areas.

Non-native vegetation will be removed using the most efficient method as determined by the site conditions. Removal may occur regularly in the first year and may consists of using mechanized equipment, hand tools
and/or herbicide spraying. Herbicides may be applied to control an instance where there is an aggressive and extensive weed invasion on site. All non-native, invasive weeds will be removed before they produce seed or reach a height of 8 inches, whichever comes first. Once the weed growth is under control, weeding will take on a more selective approach and be completed with hand tools and such as hoes, shovels and rakes and spraying, if essential to meet success criteria.

As previously discussed, Mediterranean grass (*Schismus* ssp.) is prevalent within the herbaceous layer on site, as well as the surrounding areas, and comprised approximately 40% of the ground cover within the sampled areas. Cover and density of non-native grass species within the revegetation area shall be no greater than the baseline and in comparable surrounding lands that have not been disturbed by the project. For non-native species other than non-native grasses (i.e. Saharan mustard, Russian thistle, etc.), no areas will be allowed to have more than 10 percent non-native invasive species ground cover. If inspections reveal that non-native invasive species are becoming or have become established on site, then removal will be initiated. Inspections shall be made in conjunction with revegetation monitoring. Weed control application of herbicides would also reduce non-native grasses.

Reports of inspections and weed control implementation shall be part of the annual revegetation monitoring and kept on file by the operator.

### 3.8 Seeding Methods and Rates

The revegetation area will be seeded with a certified weed-free seed mix applied hydraulically (hydroseeded). Seed will be delivered to the site in sealed and labeled packaging, along with a California State Agricultural Code seed certification that includes the supplier’s name, geographic location, and collection date, and the tested purity and germination percentage rates. The seed mix will be applied by hydroseeding with a hydroseed slurry containing seed, natural fiber mulch, and organic tackifier. Although hydroseed mulch with seed can be carried and moved by flowing water, the mulch will help more of the seed stay in place and germinate compared to hand seeding.

A unique seed mix was developed for the spinescale scrub habitat occurring in the project impact area. The recommended seed mix and seeding rate for spinescale scrub is outlined in Table 3 (below) and may be modified or species re-placed due to availability of the seed that year and seed costs.

#### Table 3. Kramer Junction Borrow Pit Recommended Seed Mix and Rates

<table>
<thead>
<tr>
<th>Species</th>
<th>Life Form</th>
<th>Pure Live Seed Lbs/Acre</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Ambrosia dumosa</em> (white bursage)</td>
<td>shrub</td>
<td>1.0</td>
</tr>
<tr>
<td><em>Ambrosia salsola</em> (burrobush)</td>
<td>shrub</td>
<td>0.5</td>
</tr>
<tr>
<td><em>Amsinckia tessellata</em> (bristly fiddleneck)</td>
<td>annual herb</td>
<td>1.0</td>
</tr>
<tr>
<td><em>Atriplex polycarpa</em> (allscale saltbush)</td>
<td>shrub</td>
<td>1.0</td>
</tr>
<tr>
<td><em>Atriplex spinifera</em> (spinescale saltbush)</td>
<td>shrub</td>
<td>2.5</td>
</tr>
<tr>
<td><em>Krascheninnikovia lanta</em> (winterfat)</td>
<td>shrub</td>
<td>0.5</td>
</tr>
<tr>
<td><em>Lasthenia gracilis</em> (needle goldfields)</td>
<td>annual herb</td>
<td>0.5</td>
</tr>
<tr>
<td><em>Sphaeraicea ambigua</em> (Desert mallow)</td>
<td>perennial herb</td>
<td>0.5</td>
</tr>
<tr>
<td><em>Stipa hymenoides</em> (Indian rice grass)</td>
<td>perennial grass</td>
<td>8.0</td>
</tr>
<tr>
<td><em>Stipa speciosa</em> (desert needle grass)</td>
<td>perennial grass</td>
<td>1.0</td>
</tr>
</tbody>
</table>
3.9 Schedule of Revegetation
Seeding of the revegetation area shall occur at the appropriate time of the year and at an application rate for optimum seed sprouting and growth. The ideal window for seeding native plants in Southern California, is in winter generally, between November and February. The contractor will need to coordinate installation efforts with any rain events to ensure that work is not being conducted on the site during periods of inundation.

Following the initial seeding, revegetation areas will be monitored quarterly for the first year and then annually thereafter. Appropriate remediation action such as reseeding and weed removal will be determined at the time of monitoring.

3.10 Test Plots
Per Section 3705 (b) of the SMARA requirements:

“Test plots conducted simultaneously with mining shall be required to determine the most appropriate planting procedures to be followed to ensure successful implementation of the proposed revegetation plan. The lead agency may waive the requirement to conduct test plots when the success of the proposed revegetation plan can be documented from experience with similar species and conditions or by relying on competent professional advice based on experience with the species to be planted.”

The operator shall establish at a minimum, four test plots representative of the slope aspect and floor elevation that will result from the burrow area. Test plots will include surface ripping/no seeding (control plot); surface ripping and seeding as described above with the recommended seed mixture. Additional tests will be conducted if the initial tests and any active revegetation are not successful and may include various types and amounts of seeds and different surface/soil preparation.

4 Revegetation Monitoring

4.1 Success Criteria
Successful revegetation will be achieved when a self-sustaining native plant cover is established in the disturbed area of the proposed project. The revegetated site must resemble and blend into the natural surrounding environment. The success of the revegetation effort will be determined through statistical comparison of the revegetated areas to the baseline inventory.

Acceptable performance standards for mine reclamation are based on a percentage of cover, density, and species diversity when compared with the baseline. An acceptable standard at the Kramer Junction Borrow Pit would measure success at 40% of the baseline cover, 70% of the baseline density, and 75% of the baseline species diversity within the shrub canopy, five years after reclamation. See table below.

Table 4. Kramer Junction Borrow Pit Recommended Revegetation Success Criteria (Per DMR)

<table>
<thead>
<tr>
<th>Mixed Desert Scrub</th>
<th>Baseline Mean</th>
<th>Standard Success Percentage</th>
<th>Success Criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cover (%)</td>
<td>26</td>
<td>40%</td>
<td>11% cover of native perennials</td>
</tr>
<tr>
<td>Density</td>
<td>15</td>
<td>70%</td>
<td>10 native perennials/1,000 sq. ft. or 6 native perennials per 50-m x 1-m</td>
</tr>
<tr>
<td>Species Richness or Diversity</td>
<td>5</td>
<td>75%</td>
<td>4 native perennials/1,000 sq. ft. or 50 m²</td>
</tr>
</tbody>
</table>

### 4.2 Technical Assessment

The permanence and sustainability of the revegetated plant community will be determined annually after the initial seeding. Annual assessments of the reclamation area will be conducted by a qualified botanist to determine the success of the revegetation effort. Interim success standards may be used as thresholds for annual monitoring and to ensure the success of revegetation. Although quarterly monitoring will be conducted during the first year the first and annually thereafter, sustainability will be assessment once a year.

The plant species will be evaluated for relative success as determined by the cover, density, and species diversity success criteria. Remedial actions include removing non-native invasive species and reseeding based on annual assessment results. An evaluation of the surviving species will be repeated annually following initial seeding for five years or until the success criteria are achieved.

Per DMR comment, “Data for cover, density, and species richness will be collected along 14 randomly placed 50-meter by 1-meter transects. Cover will be evaluated using the line-intercept method along the 50-meter tape. Density and species richness will be recorded by counting all native perennials rooted within the belt transect. All values will then be averaged and compared to the performance standards for each criterion.”

All data will be recorded on a standard form and copies will be submitted as an appendix to each Annual Report. Photo documentation will also be included for representative transects in order to visually document annual vegetation changes and community development.

### 4.3 Reporting

The Operator will document the progress of the revegetation effort and submit Annual Maintenance and Monitoring reports to the County of San Bernardino.

### 5 Conclusion

Upon termination of mining activities, the surfaces to be revegetated would be returned to their original land contours, except for the borrow pit slopes, and revegetation surfaces will be scarified to create conditions optimal for seeding. The revegetation areas will be covered with available surface materials in a stable, uniform thickness and hydro-seeded. Seeding would occur following the first rain of the fall season and before the winter rains.

An acceptable performance standard at the Kramer Junction Borrow Pit would measure success at 40% of the baseline cover, 70% of the baseline density, and 75% of the baseline species diversity, five years after reclamation. The baseline shrub cover within the sample areas measured approximately 26%, the density was approximately 653.4 shrubs per acre and the diversity showed five shrub species. Accordingly, successful revegetation in the spinescale scrub habitat revegetation area would be achieved at 11% cover by native shrub species, an approximate density of 457 shrubs per acre and a species diversity of four shrub species per acre.

An acceptable performance standard relative to the cover and density of non-native grass species within the revegetation area shall be no greater than the baseline (40%) and in comparable surrounding lands that have not been disturbed by the project. For non-native species other than non-native grasses (i.e. Saharan...
mustard, Russian thistle, etc.), no areas will be allowed to have more than 10 percent non-native invasive species ground cover.

All Joshua trees that cannot be avoided shall be transplanted or stockpiled for future transplanting wherever possible. Salvaged Joshua trees and cholla shall be transplanted to the nearest feasible areas, within the leased 100-acre parcel, following approved transplant methods for this species.

Annual assessments of the reclamation area will be conducted by a revegetation specialist to determine the success of the revegetation effort until said criteria are achieved. Remedial action would occur per the recommendation of the revegetation specialist.

6 References


FIGURES
Figure 2 - Site Location (Topo Base)

Legend

- Project Boundary

Date: 9/28/2017

1 inch = 1,667 feet

Lilburn Corporation
Kramer Junction Borrow Pit
Revegetation Plan

JERICHO SYSTEMS, INC.
Legend

- Project Boundary
- *(Atriplex spinifera Shrubland Alliance)*

Figure 4 - Vegetation Overlay

Date: 9/28/2017

Revegetation Plan
Kramer Junction Borrow Pit
Photo 1. Representative photo of eastern portion of the proposed Borrow Pit site; looking northeast from vicinity of Sample Plot 1.

Photo 2. Representative photo of eastern portion of the proposed Borrow Pit site; looking west from vicinity of Sample Plot 1.
Photo 3. Representative photo of middle portion of the proposed Borrow Pit site; looking north from vicinity of Sample Plot 2.

Photo 4. Representative photo of middle portion of the proposed Borrow Pit site; looking west from vicinity of Sample Plot 2.
Appendix A
Floral Species Observed
<table>
<thead>
<tr>
<th>Scientific Name</th>
<th>Common Name</th>
<th>Life Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agavaceae</td>
<td>Century-plant Family</td>
<td></td>
</tr>
<tr>
<td>Yucca brevifolia</td>
<td>Joshua tree</td>
<td>Tree</td>
</tr>
<tr>
<td><strong>Asteraceae</strong></td>
<td><strong>Composite Family</strong></td>
<td></td>
</tr>
<tr>
<td>Ambrosia dumosa</td>
<td>White bursage</td>
<td>Shrub</td>
</tr>
<tr>
<td>Ambrosia salsola</td>
<td>Burrobush</td>
<td>Shrub</td>
</tr>
<tr>
<td>Lasthenia gracilis</td>
<td>Needle goldfields</td>
<td>Annual herb</td>
</tr>
<tr>
<td>Tetradymia stenolepis</td>
<td>Mojave cottonthorn</td>
<td>Shrub</td>
</tr>
<tr>
<td><strong>Boraginaceae</strong></td>
<td><strong>Borage Family</strong></td>
<td></td>
</tr>
<tr>
<td>Amsinckia tessellata var. tessellata</td>
<td>Bristly fiddleneck</td>
<td>Annual herb</td>
</tr>
<tr>
<td><strong>Brassicaceae</strong></td>
<td><strong>Mustard Family</strong></td>
<td></td>
</tr>
<tr>
<td>Brassica tournefortii**</td>
<td>Saharan mustard**</td>
<td>Annual herb</td>
</tr>
<tr>
<td>Lepidium flavum</td>
<td>Yellow pepper grass</td>
<td>Annual herb</td>
</tr>
<tr>
<td>Lepidium lasiocarpum ssp. lasiocarpum</td>
<td>Shaggyfruit pepperweed</td>
<td>Annual herb</td>
</tr>
<tr>
<td><strong>Cactaceae</strong></td>
<td><strong>Cactus Family</strong></td>
<td></td>
</tr>
<tr>
<td>Cylindropuntia echinocarpa</td>
<td>Silver cholla</td>
<td>Shrub (stem succulent)</td>
</tr>
<tr>
<td><strong>Chenopodiaceae</strong></td>
<td><strong>Goosefoot Family</strong></td>
<td></td>
</tr>
<tr>
<td>Atriplex polycarpa</td>
<td>allscale saltbush</td>
<td>Shrub</td>
</tr>
<tr>
<td>Atriplex spinifera</td>
<td>spinescale saltbush</td>
<td>Shrub</td>
</tr>
<tr>
<td>Krascheninnikiovia lanata</td>
<td>winter fat</td>
<td>Shrub</td>
</tr>
<tr>
<td>Salsola paulsenii**</td>
<td>barbwire russian thistle**</td>
<td>Annual, perennial herb</td>
</tr>
<tr>
<td><strong>Geraniaceae</strong></td>
<td><strong>Geranium Family</strong></td>
<td></td>
</tr>
<tr>
<td>Erodium cicutarium**</td>
<td>redstem filaree**</td>
<td>Annual herb</td>
</tr>
<tr>
<td><strong>Poaceae</strong></td>
<td><strong>Grass family</strong></td>
<td></td>
</tr>
<tr>
<td>Bromus madritensis*</td>
<td>foxtail chess*</td>
<td>Annual grass</td>
</tr>
<tr>
<td>Scientific Name</td>
<td>Common Name</td>
<td>Life Form</td>
</tr>
<tr>
<td>------------------------------------</td>
<td>----------------------</td>
<td>--------------------</td>
</tr>
<tr>
<td><em>Bromus tectorum</em>*</td>
<td>cheatgrass**</td>
<td>Annual grass</td>
</tr>
<tr>
<td><em>Schismus ssp. (arabicus, barbatus)</em>*</td>
<td>Mediterranean grass**</td>
<td>Annual grass</td>
</tr>
<tr>
<td>*Stipa hymenoides</td>
<td>Indian rice grass</td>
<td>Perennial grass</td>
</tr>
<tr>
<td>*Stipa speciosa</td>
<td>desert needle grass</td>
<td>Perennial grass</td>
</tr>
<tr>
<td>Polemoniaceae</td>
<td>Phlox Family</td>
<td></td>
</tr>
<tr>
<td>*Linanthus sp. (bigelovii or dichotomus)</td>
<td>linanthus</td>
<td>Annual herb</td>
</tr>
<tr>
<td>Polygonaceae</td>
<td>Buchwheat Family</td>
<td></td>
</tr>
<tr>
<td>*Eriogonum gracillimum</td>
<td>rose and white buckwheat</td>
<td>Annual herb</td>
</tr>
<tr>
<td>Solanaceae</td>
<td>Potato Family</td>
<td></td>
</tr>
<tr>
<td>*Lycium cooperi</td>
<td>Cooper's box thorn</td>
<td>Shrub</td>
</tr>
</tbody>
</table>

*non-native
**invasive
Appendix B
Data Sheets
**Nested Plot Vegetative Sampling Data Sheet**

**Project Name:** Kramer Borrow Pit  
**Surveyors:** Daniel Smith, Bailey Bingham, Gene Jennings, Shannon Dye

**Project Location:** NW of Kramer Junction, West of Castle Road, N of SR-58; San Bernardino Co., California  
**Plant Community(ies):** *Atriplex spinifera* Shrubland Alliance; (spinescale scrub)

**Final Plot Size/Description:** 20 x 20 feet (Sample Plot #1)  
**Stratification Information:** Shrub Layer < 3 feet; Herb Layer < 20 inches

**Comments/Site Description:** Flat; spinescale scrub. Individual Joshua tree (*Yucca brevifolia*) and silver cholla (*Cylindropuntia echinocarpa*) observed outside of sample plot area.

<table>
<thead>
<tr>
<th>Subplot #</th>
<th>Subplot Dimensions/Area (ft)</th>
<th>Total Species</th>
<th>% New Species (new species / total species)</th>
<th>% Area Increased (Area of n / Area of n-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>5 x 5</td>
<td>4</td>
<td>100</td>
<td>N/A</td>
</tr>
<tr>
<td>2</td>
<td>5 x 10</td>
<td>7</td>
<td>43</td>
<td>200</td>
</tr>
<tr>
<td>3</td>
<td>10 x 10</td>
<td>9</td>
<td>22</td>
<td>400</td>
</tr>
<tr>
<td>4</td>
<td>10 x 20</td>
<td>10</td>
<td>10</td>
<td>800</td>
</tr>
<tr>
<td>5</td>
<td>20 x 20</td>
<td>10</td>
<td>0</td>
<td>1600</td>
</tr>
</tbody>
</table>
Nested Plot Vegetative Sampling Species List (Sample Plot 1)

<table>
<thead>
<tr>
<th>Subplot #</th>
<th>Species Name</th>
<th>Abundance/ Vitality</th>
<th>Strata</th>
<th>Overall Abundance</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Atriplex spinifera</td>
<td>2/ ●</td>
<td>S₂</td>
<td>3</td>
</tr>
<tr>
<td>1</td>
<td>Shismus sp.</td>
<td>3/ ●</td>
<td>H₃</td>
<td>3</td>
</tr>
<tr>
<td>1</td>
<td>Lepidium lasiocarpum</td>
<td>1</td>
<td>H₃</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>Lasthenia gracilis</td>
<td>1</td>
<td>H₃</td>
<td>2</td>
</tr>
<tr>
<td>2</td>
<td>Erodium cicutarium</td>
<td>2/ ●</td>
<td>H₃</td>
<td>2</td>
</tr>
<tr>
<td>2</td>
<td>Brassica tournefortii</td>
<td>+</td>
<td>H₂</td>
<td>+</td>
</tr>
<tr>
<td>2</td>
<td>Eriogonum gracillimum</td>
<td>+</td>
<td>H₂</td>
<td>+</td>
</tr>
<tr>
<td>3</td>
<td>Linanthus sp.</td>
<td>r</td>
<td>H₃</td>
<td>r</td>
</tr>
<tr>
<td>3</td>
<td>Lepidium flavum</td>
<td>1</td>
<td>H₃</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>Unidentified Asteraceae</td>
<td>+</td>
<td>H₃</td>
<td>+</td>
</tr>
<tr>
<td>5</td>
<td>No new species</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**Abundance Scale:** 5—covers more than ¾ of the plot 4—covers ½ to ¾ of the plot 3—¼ to ½ the plot 2—½ to ¼ the plot 1—Numerous, but less than ½ cover, or scattered with cover up to ½cover +—Few, with little cover r—Solitary

**Vitality Scale:** ●Exceptionally vigorous ° Feeble °° Very feeble; never fruiting

**Strata Scale:** T—>5m S₁—2-5m S₂—2m-50cm H₁—50cm-30cm H₂—30cm-10 cm H₃—<10cm
Nested Plot Vegetative Sampling Data Sheet

Project Name: Kramer Borrow Pit

Surveyors: Daniel Smith, Bailey Bingham, Gene Jennings, Shannon Dye

Project Location: NW of Kramer Junction, West of Castle Road, N of SR-58; San Bernardino Co., California N 35° 0 8.75, W 117° 36 34.13

Plant Community(ies): Atriplex spinifora Shrubland Alliance; (spinescale scrub)

Final Plot Size/Description: 40 x 80 feet (Sample Plot #2)

Stratification Information: Shrub Layer < 3 feet; Herb Layer < 20 inches

Comments/Site Description: Flat; spinescale scrub. Individual Joshua tree (Yucca brevifolia) observed outside of sample plot area.

<table>
<thead>
<tr>
<th>Subplot #</th>
<th>Subplot Dimensions/Area (ft)</th>
<th>Total Species</th>
<th>% New Species</th>
<th>% Area Increased</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>5 x 5</td>
<td>6</td>
<td>100</td>
<td>N/A</td>
</tr>
<tr>
<td>2</td>
<td>5 x 10</td>
<td>8</td>
<td>25</td>
<td>200</td>
</tr>
<tr>
<td>3</td>
<td>10 x 10</td>
<td>9</td>
<td>11</td>
<td>400</td>
</tr>
<tr>
<td>4</td>
<td>10 x 20</td>
<td>10</td>
<td>10</td>
<td>800</td>
</tr>
<tr>
<td>5</td>
<td>20 x 20</td>
<td>11</td>
<td>9</td>
<td>1600</td>
</tr>
<tr>
<td>6</td>
<td>20 x 40</td>
<td>11</td>
<td>0</td>
<td>3200</td>
</tr>
<tr>
<td>7</td>
<td>40 x 40</td>
<td>16</td>
<td>31</td>
<td>6400</td>
</tr>
<tr>
<td>8</td>
<td>40 x 80</td>
<td>16</td>
<td>0</td>
<td>12800</td>
</tr>
</tbody>
</table>
## Nested Plot Vegetative Sampling Species List (Sample Plot 2)

<table>
<thead>
<tr>
<th>Subplot #</th>
<th>Species Name</th>
<th>Abundance/Vitality</th>
<th>Strata</th>
<th>Overall Abundance</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Shismus sp.</td>
<td>3/●</td>
<td>H₃</td>
<td>3</td>
</tr>
<tr>
<td>1</td>
<td>Atriplex spinifera</td>
<td>3/●</td>
<td>S₂</td>
<td>2</td>
</tr>
<tr>
<td>1</td>
<td>Amsinckia tessellata</td>
<td>+</td>
<td>H₂</td>
<td>2</td>
</tr>
<tr>
<td>1</td>
<td>Erodium cicutarium</td>
<td>3/●</td>
<td>H₃</td>
<td>2</td>
</tr>
<tr>
<td>1</td>
<td>Brassica tournefortii</td>
<td>r</td>
<td>H₂</td>
<td>2</td>
</tr>
<tr>
<td>1</td>
<td>Lepidium lasiocarpum</td>
<td>r</td>
<td>H₃</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Eriogonum gracillimum</td>
<td>1</td>
<td>H₂</td>
<td>+</td>
</tr>
<tr>
<td>3</td>
<td>Linanthus sp.</td>
<td>+</td>
<td>H₃</td>
<td>+</td>
</tr>
<tr>
<td>3</td>
<td>Lasthenia gracilis</td>
<td>+</td>
<td>H₃</td>
<td>+</td>
</tr>
<tr>
<td>4</td>
<td>Ambrosia dumosa</td>
<td>3/●</td>
<td>S₂</td>
<td>2</td>
</tr>
<tr>
<td>5</td>
<td>Tetradyphia stenolepis</td>
<td>r/●</td>
<td>S₂</td>
<td>r</td>
</tr>
<tr>
<td>6</td>
<td>No new species</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>7</td>
<td>Ambrosia salsola</td>
<td>1/●</td>
<td>S₂</td>
<td>+</td>
</tr>
<tr>
<td>7</td>
<td>Krascheninnikovia lanata</td>
<td>r</td>
<td>S₂</td>
<td>+</td>
</tr>
<tr>
<td>7</td>
<td>Salsola palmae</td>
<td>r/●</td>
<td>S₂</td>
<td>r</td>
</tr>
<tr>
<td>7</td>
<td>Bromus tectorum</td>
<td>+</td>
<td>H₂</td>
<td>+</td>
</tr>
<tr>
<td>7</td>
<td>Bromus madritensis</td>
<td>+</td>
<td>H₂</td>
<td>+</td>
</tr>
<tr>
<td>8</td>
<td>No new species</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

### Abundance Scale:
- 5—covers more than ⅞ of the plot
- 4—covers ½ to ⅞ of the plot
- 3—⅞ to ½ the plot
- 2—⅝ to ¼ the plot
- 1—Numerous, but less than ⅝ cover, or scattered with cover up to ⅝ of the plot
- 0—Few, with little cover
- 1—Solitary

### Vitality Scale:
- ● Exceptionally vigorous
- ○ Feeble
- ○○ Very feeble; never fruiting

### Strata Scale:
- T—>5m
- S₁—2-5m
- S₂—2m-50cm
- H₁—50cm-30cm
- H₂—30cm-10cm
- H₃—<10cm
APPENDIX 2

APPENDIX G
MITIGATION MEASURES FROM THE FINAL ENVIRONMENTAL IMPACT REPORT/ENVIRONMENTAL IMPACT STATEMENT STATE ROUTE 58 KRAMER JUNCTION EXPRESSWAY PROJECT (SCH#2007051051) VOLUMES I AND II JULY 2014
### Section 3.4 Community Impacts

<table>
<thead>
<tr>
<th>No.</th>
<th>Task and Brief Description</th>
<th>Responsible Party</th>
<th>Timing/Phase</th>
<th>Action Taken to Comply with Task</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>CI-1</td>
<td>Caltrans will ensure that direct vehicle access to all businesses and residences from both northbound and southbound directions of US-395 is achieved following construction.</td>
<td>District Design/District Right of Way/Resident Engineer/Contractor</td>
<td>Final Design/Construction</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CI-2</td>
<td>A Construction Management Plan and a Transportation Management Plan (see TR-1) will be prepared for the project and include coordination efforts that will inform the community about project activities, maintain access to and from the project area during construction, minimize construction-period traffic, and control glare, dust, and noise. Measures to minimize construction impacts in these sections also apply to minimizing permanent community cohesion/character impacts.</td>
<td>Resident Engineer/Contractor</td>
<td>Final Design</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CI-3</td>
<td>To address bypass impacts, Caltrans will coordinate with the community and County regarding the possibility of placing a Welcome sign at both ends of the proposed expressway with brief information encouraging visitors to visit services offered at Kramer Junction.</td>
<td>Project Engineer/Design/Resident Engineer/</td>
<td>Design Phase</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CI-4</td>
<td>During Final Design and Construction, every effort will be made to further minimize the amount of right-of-way needed for the facility and to further minimize community and environmental impacts.</td>
<td>Project Engineer/Design/Resident Engineer/</td>
<td>Design/Construction</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON-1</td>
<td>Sufficient relocation resources will be made available to displaced businesses in accordance with the Uniform Relocation Assistance and Property Acquisition Act to 1970 as amended (42 USC Secs. 4601-4655).</td>
<td>Resident Engineer</td>
<td>Project Approval/Environmental Document</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON-2</td>
<td>Businesses displaced by the project alternatives will be relocated in an area that is comparable to the existing location in terms of accessibility and traffic volume.</td>
<td>Resident Engineer/CT Right of Way Agent</td>
<td>Final Design/PS&amp;E</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON-3</td>
<td>Signage provisions will be made available to businesses whose temporary or permanent visibility and vehicular access change as a result of the project.</td>
<td>Resident Engineer</td>
<td>Final Design/Construction</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Section 3.5 Utilities/Emergency Services

<table>
<thead>
<tr>
<th>No.</th>
<th>Task and Brief Description</th>
<th>Responsible Party</th>
<th>Timing/Phase</th>
<th>Action Taken to Comply with Task</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON-4</td>
<td>For APN# 049219104, the permanent replacement site or a reconfiguration on the current site will accommodate the hangars and runway.</td>
<td>Resident Engineer</td>
<td>Final Design/Construction</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**UT-1**

Caltrans will coordinate all utility relocation work with the affected utility companies to ensure minimum disruption to customers in the service areas during construction. If Alternative 2 is selected as the preferred alternative, a coordination plan shall be established with SCE. The coordination plan shall include specific measures to minimize electrical service disruption that would occur with relocation of the existing SCE substation. This coordination plan will be in place and agreed upon by Caltrans and SCE before any relocation activities occur as a result of the proposed project.

| | | Resident Engineer | Final Design/PS&E | | |

**TR-1**

Preparation of a Traffic Management Plan (TMP) to ensure that local and regional traffic moves efficiently during construction. The information provided will include access and traffic management plans that describe any projected temporary street closures or expected traffic delays due to construction vehicles on the roadways.

| | | Resident Engineer | Final Design | | |

**TR-2**

The TMP and the construction plans will be provided to the community business and local agencies as the fire department, prior to project commencement.

| | | Resident Engineer | Final Design | |
### Section 3.6. Traffic and Transportation/Pedestrian and Bicycle Facilities

<table>
<thead>
<tr>
<th>No.</th>
<th>Task and Brief Description</th>
<th>Responsible Party</th>
<th>Timing/Phase</th>
<th>Action Taken to Comply with Task</th>
<th>Date</th>
</tr>
</thead>
</table>
| TR-1 | Caltrans will prepare a TMP to ensure that local and regional traffic moves efficiently during construction. The TMP and the construction plans will be provided to community agencies, such as the fire department, prior to project commencement. The information provided will include access and traffic management plans that describe any projected temporary street closures or expected traffic delays due to construction vehicles on the roadways. The following elements will be major components of the project TMP:  
  - A public awareness campaign related to the scheduling of work;  
  - A construction zone enforcement enhancement program (COZEEP);  
  - Use of portable changeable message signs (PCMS);  
  - Advance information signing that will communicate the date, time, and duration of ramp closures;  
  - Plan road closures to minimize impacts on local circulation to the maximum extent feasible; and  
  - Preparation of temporary detour plans, if needed, during the plans, specifications, and estimates (PS&E) phase of the project. (Note: No detours are anticipated at this time.) | District Design/Resident Engineer/Contractor | Final Design/Construction | |

### Section 3.7 Visual/Aesthetics

<p>| AES-1 | All lighting used for the project will be directional, directing light to the highway facility and away from homes and habitats to minimize glare impacts to the night sky, and to avoid affecting background sky views. Glare shields will be used. | District Design/District Landscape Architect/District Biological Studies/Resident Engineer/Contractor | Final Design/Construction | |
| AES-2 | Detention basins and bioswales will be designed and addressed as visually integrated elements of the landscape planting. Contour grading of basins will minimize the visual impact by blending with the surrounding natural landscape features. | District Design/District Landscape Architect/ Resident Engineer/Contractor | Final Design/Construction | |</p>
<table>
<thead>
<tr>
<th>No.</th>
<th>Task and Brief Description</th>
<th>Responsible Party</th>
<th>Timing/Phase</th>
<th>Action Taken to Comply with Task</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>AES-3</td>
<td>Bridge structures will be pigmented an earth tone that is compatible with the native soil color within the project limits. Bridge structures, signs, and other highway appurtenances will be selected for their form, scale, color, aesthetic treatment, spacing, and configuration to enhance compatibility with the rural community and desert landscape design contexts.</td>
<td>District Design/District Landscape Architect/Resident Engineer/Contractor</td>
<td>Final Design/Construction</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AES-4</td>
<td>Native plantings will be used to minimize the visual impact of the highway and associated detention basins. Drought-tolerant native trees and shrubs will be planted at appropriate locations, especially near the drainages and drainage basins, and at the two proposed interchanges and railroad overcrossing to soften the structures. These interchanges will become the gateways into the community and will be landscaped. Inert materials will also be considered where appropriate to beautify these areas and reduce erosion. The restoration of desert scrub vegetation will include replanting of native vegetation and Joshua trees on disturbed sites, including staging areas, borrow pits, and other areas of surface disturbance. Any portion of existing SR-58 roadway pavement which is no longer needed will be removed, leaving an earthen surface that will be seeded with native seeds.</td>
<td>District Design/District Landscape Architect/District Biological Studies/Resident Engineer/Contractor</td>
<td>Final Design/Construction</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AES-5</td>
<td>Where possible, concrete drainage ditches will be avoided in favor of soft-bottom ditches to reduce urbanizing elements, and to encourage infiltration and vegetation growth. Where required, concrete ditches will be pigmented to blend with adjacent soil.</td>
<td>District Design/District Landscape Architect/Resident Engineer/Contractor</td>
<td>Final Design/Construction</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AES-6</td>
<td>All disturbed soil areas will be treated with erosion control measures, including seeding with native plant/native grass seeds. For further detail see Measure GEO-2.</td>
<td>District Design/District Landscape Architect/District Biological Studies/Resident Engineer/Contractor</td>
<td>Final Design/Construction</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AES-7</td>
<td>During construction, existing vegetation will be retained to the maximum extent feasible by minimizing the amount of clearing and earthwork. During construction, Environmentally Sensitive Area (ESA) fencing will be provided around trees and vegetation to ensure its preservation.</td>
<td>District Design/District Landscape Architect/District Biological Studies/Resident Engineer/Contractor</td>
<td>Final Design/Construction</td>
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<tr>
<td>No.</td>
<td>Task and Brief Description</td>
<td>Responsible Party</td>
<td>Timing/Phase</td>
<td>Action Taken to Comply with Task</td>
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<td>AES-8</td>
<td>Joshua trees that would be removed will be replanted away from the proposed pavement areas. If onsite relocation is not feasible, Caltrans will contact the San Bernardino County Building and Safety Office for a list of residents willing to adopt and care for the relocated trees. Transportation standards will follow best nursery practices.</td>
<td>District Design/District Landscape Architect/District Biological Studies/Resident Engineer/Contractor</td>
<td>Final Design/Construction</td>
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<tr>
<td>AES-9</td>
<td>Slopes will be landscaped with native vegetation to reflect vegetation in the surrounding area and to mask the hard lines created by engineered cuts and embankments.</td>
<td>District Design/District Landscape Architect/Resident Engineer/Contractor</td>
<td>Final Design/Construction</td>
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</table>

**Section 3.8 Cultural Resources**

| CR-1 | If cultural materials are discovered during construction, all earthmoving activity within and around the immediate discovery area will be diverted until a qualified archaeologist can assess the nature and significance of the find. | Qualified Archaeologist/Resident Engineer/Contractor | Construction                    |                                              |      |
| CR-2 | If human remains are discovered, State Health and Safety Code Section 7050.5 states that further disturbances and activities shall cease in any area or nearby area suspected to overlie remains, and the county coroner contacted. Pursuant to Public Resources Code Section 5097.98, if the remains are thought to be Native American, the coroner will notify the NAHC, which will then notify the MLD. At this time, the person who discovered the remains will contact Gary Jones, District 8 Native American Coordinator at (909) 383-7505 so that they may work with the MLD on the respectful treatment and disposition of the remains. Further provisions of PRC Section 5097.98 are to be followed as applicable. | Resident Engineer/Contractor | Construction                    |                                              |      |
| CR-3 | An Osteologically Trained Archaeological Monitor(s) and Native American Monitor(s) shall be present during all ground disturbing construction activities in sensitive areas, which will be defined after the buried site testing and before completion of final design. In the event that additional cultural deposits are uncovered during construction operations, the archaeological monitor shall be empowered to halt or divert work in the vicinity of the find until the archaeologist is able to determine the nature and the significance of the discovery. | Qualified Archaeologist/Resident Engineer/Contractor | Construction                    |                                              |      |
## APPENDIX G: Environmental Commitments Record (ECR)

### State Route 58 (SR-58)
Kramer Junction Expressway Project
PN: 0800000616
EA 08-347700

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>CR-3a</td>
<td>Prior to construction, buried site testing will be performed to further define the boundaries of the “sensitive areas.” The buried site testing will include a geo-archaeological analysis of the potential for the presence of buried subsurface deposits. If the results of the buried sites testing indicate that the presence of buried subsurface deposits are “likely,” a Discovery Plan will be prepared and implemented in the event of inadvertent discoveries.</td>
<td>Qualified Archaeologist/Resident Engineer/Contractor</td>
<td>Construction</td>
<td></td>
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<tr>
<td>CR-4</td>
<td>An Environmentally Sensitive Area (ESA) will be delineated around the prehistoric component of CA-SBR-15073/H as described in the ESA Action Plan in the Finding of Effect.</td>
<td>Resident Engineer/Contractor</td>
<td>Construction</td>
<td></td>
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<tr>
<td>CR-5</td>
<td>An Environmentally Sensitive Area (ESA) will be delineated around a portion of site CA-SBR-15085 as described in the ESA Action Plan in the Finding of Effect.</td>
<td>Resident Engineer/Contractor</td>
<td>Construction</td>
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</table>

### Section 3.9 Hydrology and Floodplains

| HF-1 | The project will be designed so that stormwater flows do not overtop the roadway section. | Project Engineer/Resident Engineer | Final Design/PS&E | | |
| HF-2 | Culverts in the part of the project area where it is very flat and no flow lines approach the new alignment may require training dikes to concentrate flows into the inlets. The exact size and location will be determined during the project’s final design phase. | Resident Engineer | Final Design | | |
| HF-3 | All culverts will be constructed with their inverts on natural ground that approximates the gradient flow line they serve. Placement in such a manner helps prevent bedload deposition in the culvert. | Resident Engineer | Final Design/Construction | | |
| HF-4 | As the project area is entirely within a desert area, all culverts will be designed for the 100-year AMC II storm. | Resident Engineer | Final Design | | |
The following preliminary design features and recommendations will be incorporated during the final design phase of the project in accordance with Caltrans’ standard design practice:

- Stormwater flows will not be allowed to overtop the road section,
- Channels and ditches will be used to collect and convey flows into one main flow before crossing the road,
- A bulking factor between 25 and 50 percent will be considered,
- Box culverts will be as wide in span as economically feasible,
- Training dikes will be considered for culverts to concentrate flows into the inlets,
- Box culverts will be constructed with their inverts on natural ground that approximates the gradient of the flow line they serve,
- All culverts will be designed for the 100-year AMC II storm, and
- Water velocity at the culvert will be limited to 10 feet per second to prevent excessive scour.

### Section 3.10 Water Quality and Stormwater Runoff

The project will comply with the provisions of the Statewide NPDES permit. Treatment BMPs, as described in Section 3 of the Department’s Statewide SWMP (Department 2003b) and the Project Planning and Design Guide (PDDG) (Department 2010), will be evaluated prior to completion of the Project Approval and Environmental Document phase and incorporated into the project’s engineering plans and specifications during final design. Design pollution prevention BMPs are selected to reduce post-construction discharges. If greater than 90 percent of the Water Quality Volume cannot be infiltrated within State right of way, approved Treatment BMPs will be included to remove general pollutants; for example, infiltration devices or detention basins. Construction site BMPs, as described in WQ-3, will be itemized in the final contract documents, incorporated into the SWPPP, and implemented during the construction period.

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<tr>
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<tbody>
<tr>
<td>HF-5</td>
<td>The following preliminary design features and recommendations will be incorporated during the final design phase of the project in accordance with Caltrans’ standard design practice: Stormwater flows will not be allowed to overtop the road section, Channels and ditches will be used to collect and convey flows into one main flow before crossing the road, A bulking factor between 25 and 50 percent will be considered, Box culverts will be as wide in span as economically feasible, Training dikes will be considered for culverts to concentrate flows into the inlets, Box culverts will be constructed with their inverts on natural ground that approximates the gradient of the flow line they serve, All culverts will be designed for the 100-year AMC II storm, and Water velocity at the culvert will be limited to 10 feet per second to prevent excessive scour.</td>
<td>Resident Engineer</td>
<td>Final Design</td>
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<tr>
<td>WQ-1</td>
<td>The project will comply with the provisions of the Statewide NPDES permit. Treatment BMPs, as described in Section 3 of the Department’s Statewide SWMP (Department 2003b) and the Project Planning and Design Guide (PDDG) (Department 2010), will be evaluated prior to completion of the Project Approval and Environmental Document phase and incorporated into the project’s engineering plans and specifications during final design. Design pollution prevention BMPs are selected to reduce post-construction discharges. If greater than 90 percent of the Water Quality Volume cannot be infiltrated within State right of way, approved Treatment BMPs will be included to remove general pollutants; for example, infiltration devices or detention basins. Construction site BMPs, as described in WQ-3, will be itemized in the final contract documents, incorporated into the SWPPP, and implemented during the construction period.</td>
<td>Resident Engineer/Contractor</td>
<td>Final Design/Construction</td>
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<tr>
<td>WQ-2</td>
<td>The contractor will be responsible for preparing a SWPPP according to the Department’s standards, incorporating all the BMPs listed in the contract plans, and amending the SWPPP during the course of construction as necessary. The Resident Engineer will review and</td>
<td>Resident Engineer/Contractor</td>
<td>Final Design/Construction</td>
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</table>
### Table 1

<table>
<thead>
<tr>
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<td>approve the SWPPP. The general contractor will also implement, inspect, and maintain all measures with oversight by the Resident Engineer.</td>
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<td></td>
<td>Table 1-1 of the Department’s Construction Site Best Management Practices Manual (Department 2003c) and/or the Department’s Storm Water Quality Handbooks, Project Planning and Design Guide (Department 2010) include the following BMPs:</td>
<td>Resident Engineer/Contractor</td>
<td>Final Design/Construction</td>
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<tr>
<td>WQ-3</td>
<td>Temporary soil stabilization</td>
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<td></td>
<td>Temporary sediment control</td>
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<td>Tracking control</td>
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<td></td>
<td>Non-stormwater management</td>
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<td></td>
<td>Waste management</td>
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<td></td>
<td>Materials storage and handling controls</td>
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<td></td>
<td>At a minimum, the contractor will implement all of the appropriate BMPs under the minimum requirement column of Table 1-1of the Department’s Construction Site Best Management Practices Manual (Department 2003c) and/or the Department’s Storm Water Quality Handbooks, Project Planning and Design Guide (Department 2010). During completion of the final engineering and design plans, specific BMPs will be specified in the contract documents to protect water quality. Specified BMPs would be implemented by the contractor through the SWPPP. The plan will also include post-construction erosion control measures such as stabilization of all disturbed soil areas.</td>
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<tr>
<td>WQ-4</td>
<td>Coordination with the LRWQCB and SCE will be required should Alternative 2 be selected to avoid water quality impacts from relocation of the utility substation and the waste water impoundments.</td>
<td>Resident Engineer/Contractor</td>
<td>Final Design/Construction</td>
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<tr>
<td>WQ-5</td>
<td>Coordination with the USACE, CDFW, and LRWQCB is ongoing and required to minimize water quality impacts to the 13 natural drainages that cross the project alternatives. It is necessary to obtain a WDR from the LRWQCB. The project will require an Approved Jurisdictional Determination from the USACE, a 1602 Lake and Streambed Alteration Agreement from the CDFW, and a 401 Water Quality Certification from LRWQCB.</td>
<td>Resident Engineer/Contractor</td>
<td>Final Design/Construction</td>
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</table>
### Section 3.11 Geology/Soils/Seismic/Topography

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<tr>
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</thead>
<tbody>
<tr>
<td>GEO-1</td>
<td>Earthwork in the project area shall be performed in accordance with the latest edition of the Caltrans Standard Specifications.</td>
<td>Resident Engineer/Contractor</td>
<td>Construction</td>
<td></td>
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<tr>
<td>GEO-2</td>
<td>During grading and site preparation, all onsite earthwork would be performed in accordance with the following:</td>
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<tr>
<td></td>
<td>1. Cut slope. Cut slope for this project shall be 1:1.5 (V:H) or flatter. For planning purposes, the earthwork factor is 1.3 for rock cuts, and 1.05 for cut in alluvium.</td>
<td>Resident Engineer/District Landscape Architect/Contractor</td>
<td>Construction</td>
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<tr>
<td></td>
<td>2. Grading Factor. A value of 1.3 for earthwork factor in the rock cuts and a value of 1.05 for cuts in alluvium are recommended. These values may be adjusted based on further field exploration and laboratory testing.</td>
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<td>3. Embankment. Embankment slope shall be 1:2 (V:H) or flatter. Where the future embankment will be constructed across natural drainage courses, 0.5 feet of alluvium shall be sub-excavated (over-excavated) from the embankment culvert foundation area and replaced as compacted fill. Embankment foundations shall be prepared in accordance with Section 19 of the Standard Specifications. Where embankment foundations cross existing cultivated land, the embankment foundation shall be sub-excavated 2.6 feet and restored to grade with compacted fill. The recommendation may be modified or deleted based on supplemental exploration and testing for the Geotechnical Design Report. Embankment foundations areas disturbed by building demolition or basement backfilling operations should be over-excavated and restored with compacted fill.</td>
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<tr>
<td></td>
<td>a. Retaining wall. The wall foundation soils should be sub-</td>
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</table>
**APPENDIX G: Environmental Commitments Record (ECR)**

### State Route 58 (SR-58)
Kramer Junction Expressway Project
PN: 0800000616
EA 08-347700

<table>
<thead>
<tr>
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<tr>
<td></td>
<td>excavated and restored as compacted fill; either a Type 1 or Type 2 Standard Plan retaining wall can be used. Alternatively, a Mechanically Stabilized Embankment (MSE) wall could be used. The MSE walls are more tolerable to settlement and sub-excavation, and recompaction of the foundation soils would be significantly reduced or eliminated. For planning purposes, assume no sub-excavation for an MSE wall.</td>
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<td></td>
<td>b. During preparation of the Geotechnical Design Report, bulk samples will be taken from the proposed sub-excavated area for laboratory compaction, remolded, direct shear, sieve analysis, and sand equivalent testing. This data will be used to analyze the bearing capacity, external stability, and suitability of on-site soils as structure backfill.</td>
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<td></td>
<td>5. Erosion.</td>
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<tr>
<td></td>
<td>a. Vegetate and mulch the slope surface and include the use of erosion protection coverings. Specifications would require the embankment construction to be done in phases, with completed slopes covered following each phase of grading. The Preliminary Geotechnical Report defers to the District Landscape Architect for techniques, specifications, and materials in vegetating slopes.</td>
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<td></td>
<td>b. Time the embankment construction to minimize soil exposure. Precipitation is a key factor in slope erosion. If possible, it would be best not to perform embankment construction during the relatively wet season. The embankment could be constructed during late spring to early summer months and vegetated/mulched prior to the rainy season.</td>
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<td></td>
<td>c. Divert runoff away from slope surface. Use a combination of pavement cross-slope and AC dikes to prevent flow over the toe of the slope.</td>
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<td>d. Roughen the slope surface by applying salvaged topsoil (with vegetation) from the clearing and grubbing operation. This would reduce the runoff velocity and enhance the growth of native vegetation.</td>
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<td>e. Armor the slope using rock fragments derived from blasting/cutting the cut slopes section on the west side of the proposed alignment.</td>
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<td>f. Build “zoned” embankments such that the sides of the</td>
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### Section 3.12 Paleontology

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<th>No.</th>
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<tbody>
<tr>
<td>PA-1</td>
<td>Grading, excavation, and other surface and subsurface excavation in defined areas of the proposed project have the potential to affect nonrenewable fossil resources. A Paleontological Mitigation Plan (PMP) shall be prepared during final project design by a qualified paleontologist. The PMP will detail monitoring and the measures to be implemented in the event of paleontological discoveries. The PMP will include, at a minimum, the following elements.</td>
<td>Qualified Paleontologist/Resident Engineer/Contractor</td>
<td>Pre-Construction/Construction</td>
<td></td>
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<tr>
<td>PA-2</td>
<td>Required 1-hour preconstruction paleontological awareness training for earthmoving personnel, including documentation of training, such as sign-in sheets, and hardhat stickers, to establish communications protocols between construction personnel and the Principal Paleontologist.</td>
<td>Qualified Paleontologist/Resident Engineer/Contractor</td>
<td>Pre-Construction</td>
<td></td>
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<tr>
<td>PA-3</td>
<td>There will be a signed repository agreement with an appropriate repository that meets Caltrans requirements and is approved by Caltrans.</td>
<td>Environmental Liaison/Resident Engineer/Contractor</td>
<td>Final Design/Pre-Construction</td>
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<tr>
<td>PA-4</td>
<td>Monitoring, by a Principal Paleontologist, of Pleistocene older alluvium during excavation.</td>
<td>Qualified Paleontologist/Resident Engineer/Contractor</td>
<td>Construction</td>
<td></td>
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</tr>
<tr>
<td>PA-5</td>
<td>Field and laboratory methods that meet the curation requirements of the appropriate repository will be implemented for monitoring, reporting, collection, and curation of collected specimens. Curation requirements are available for public review at the appropriate repository.</td>
<td>Resident Engineer/Contractor</td>
<td>Construction</td>
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<tr>
<td>PA-6</td>
<td>All elements of the PMP will follow the PMP Format published in the Caltrans Standard Environmental Reference (Caltrans 2003).</td>
<td>Resident Engineer/Contractor</td>
<td>Construction</td>
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### APPENDIX G: Environmental Commitments Record (ECR)

#### State Route 58 (SR-58)
Kramer Junction Expressway Project
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EA 08-347700

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<tbody>
<tr>
<td>PA-7</td>
<td>A Paleontological Mitigation Report discussing findings and analysis will be prepared by a Principal Paleontologist upon completion of project earthmoving. The report will be included in the environmental project file and also submitted to the curation facility.</td>
<td>Qualified Paleontologist/Resident Engineer/Contractor</td>
<td>Final Design/Construction</td>
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</table>

### Section 3.13 Hazardous Waste/Materials

#### HAZ-2

- **Task and Brief Description:** A geophysical survey and exploratory potholing will be performed to confirm the location of the abandoned oil well and determine whether it is located within the construction zones of Alternative 1 and Alternative 1A. A Preliminary Site Investigation was performed; no evidence of an oil well was observed.
- **Responsible Party:** Resident Engineer/Contractor
- **Timing/Phase:** Design/PS&E/Construction
- **Action Taken to Comply with Task:** Site investigation
- **Date:** February 2014

#### HAZ-3

- **Task and Brief Description:** Shallow soil sampling for petroleum, VOCs, metals, and PCBs will be conducted near identified drum storage areas, USTs, ASTs, sumps/clarifiers, wastewater trenches, and debris-covered areas within the environmental footprint of all alternatives to determine if special handling and soil disposal is needed. A Preliminary Site Investigation was performed, including soil sampling; no hazardous waste was detected.
- **Responsible Party:** Resident Engineer/Contractor
- **Timing/Phase:** Design/PS&E/Right of Way
- **Action Taken to Comply with Task:** Site investigation
- **Date:** February 2014

#### HAZ-4

- **Task and Brief Description:** Soil sampling for petroleum hydrocarbons, VOCs, metals, and PCBs will be conducted in the wastewater treatment pond where it encroaches onto the selected alternative’s right-of-way. The preferred alternative (Alternative 1A) does not encroach in this area. No site investigations were performed.
- **Responsible Party:** Resident Engineer/Contractor
- **Timing/Phase:** Design/PS&E/Right of Way
- **Action Taken to Comply with Task:**  |

#### HAZ-5

- **Task and Brief Description:** Shallow soil sampling for petroleum hydrocarbons, VOCs, metals, asbestos, pesticides, semi-VOCs, and PCBs will be performed at areas around the railroad tracks that may be disturbed during construction activities. A Preliminary Site Investigation was performed, including soil sampling. No hazardous waste was detected.
- **Responsible Party:** Resident Engineer/Contractor
- **Timing/Phase:** Design/PS&E/Construction
- **Action Taken to Comply with Task:**  |

#### HAZ-6

- **Task and Brief Description:** All soil excavation conducted on-site will be monitored by the construction contractor for visible soil staining, odor, and the possible presence of unknown hazardous-material sources. Contaminated soils will be segregated and profiled for disposal.
- **Responsible Party:** Resident Engineer/Contractor
- **Timing/Phase:** Design/PS&E/Construction
- **Action Taken to Comply with Task:**  |

#### HAZ-7

- **Task and Brief Description:** Septic tanks and leach fields that fall within the construction zone will be removed and disposed of.
- **Responsible Party:** Resident Engineer/Contractor
- **Timing/Phase:** Design/PS&E/Construction
- **Action Taken to Comply with Task:**  |
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<tr>
<td>HAZ-8</td>
<td>For structures within the proposed right-of-way of the selected alternative that require demolition, an asbestos pre-demolition survey will be completed prior to the disturbance of building materials to determine the asbestos content. A certified asbestos contractor will be retained to abate any identified ACM issues in accordance with all applicable laws, including OSHA guidelines.</td>
<td>Resident Engineer/Contractor</td>
<td>Design/PS&amp;E/Construction</td>
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<tr>
<td>HAZ-9</td>
<td>In the event that ACMs that were not identified in the asbestos study are uncovered during demolition/renovation activities, the contractor must stop work and have the materials tested for asbestos content. Any demolition or renovation of a structure will require the Mojave Desert Air Quality Management District (MDAQMD) to be notified and fees to be submitted at least 10 days prior to proceeding with demolition work; failure to do so may result in being fined for regulatory non-compliance.</td>
<td>Resident Engineer/Contractor</td>
<td>Design/PS&amp;E/Construction</td>
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<tr>
<td>HAZ-10</td>
<td>In the event that alteration or demolition of the painted roadway is required, a LBP survey shall be conducted prior to disturbing highway structural materials to evaluate the lead content of the painted surface.</td>
<td>Resident Engineer</td>
<td>Design/PS&amp;E/Pre-Construction</td>
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<tr>
<td>HAZ-11</td>
<td>Because of the possible presence of elevated lead concentrations in the yellow thermoplastic and yellow painted traffic stripes along the existing highway, it is recommended that special provisions be included that require the contractor to manage removed striping and pavement markings properly (i.e., as a hazardous waste) and have and implement a lead compliance plan prepared by a Certified Industrial Hygienist (CIH).</td>
<td>Resident Engineer</td>
<td>Design/PS&amp;E/Pre-Construction</td>
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<tr>
<td>HAZ-12</td>
<td>Caltrans Waste Management and Materials Pollution Control BMPs, Material Delivery and Storage and Material Use: Thermoplastic waste will be disposed of in accordance with Standard Specification 14-11.07. Environmental rules and requirements, as outlined in the Caltrans Construction Manual, 7-103D (1), Caltrans- and Contractor-Designated Disposal, Staging, and Borrow Sites, will be followed and/or implemented.</td>
<td>Resident Engineer/Contractor</td>
<td>Final Design/PS&amp;E/Construction</td>
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<td>No.</td>
<td>Task and Brief Description</td>
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<td>HAZ-13</td>
<td>A site safety plan that addresses issues related to the management of potential health and safety hazards to workers and the public will be prepared and implemented prior to initiation of the proposed construction activities. Instructions, guidelines, and requirements for handling hazardous materials will be included in the site safety plan to ensure employee safety, as provided in Chapter 16, Hazardous Materials Communication Program, of the Caltrans Safety Manual.</td>
<td>Resident Engineer/Contractor</td>
<td>Final Design PS&amp;E</td>
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<td>HAZ-14</td>
<td>Wastes and petroleum products used during construction will be collected, transported, and removed from the project site in accordance with RCRA regulations and federal OSHA standards, including Waste Management and Materials Pollution Control BMPs, Spill Prevention and Control, and Materials and Waste Management BMPs, Hazardous Waste Management. All hazardous waste will be stored, transported, and disposed of as required in Title 22, CCR, Divisions 4.5 and 49; CFR 261-263; and Caltrans requirements, as stated in Section 7-109, Solid Waste Disposal and Recycling Reporting, of the Caltrans Construction Manual.</td>
<td>Resident Engineer/Contractor</td>
<td>Final Design PS&amp;E/Pre-Construction</td>
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<tr>
<td>HAZ-15</td>
<td>Additional ADL studies will be performed at locations where the selected right-of-way crosses or includes the existing right-of-way and previous ADL studies were not performed. An ADL survey was completed in December 2013. ADL is non-hazardous in the project area.</td>
<td>Resident Engineer/Contractor</td>
<td>Final Design PS&amp;E/Pre-Construction</td>
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<td>HAZ-16</td>
<td>A lead compliance plan will be prepared under Section 7-1.02K(6)(j)(ii) of the Caltrans Standard Specifications. The lead compliance plan will include provisions regarding the use of earth material. If earth material will be relinquished to the contractor, the level of lead concentration and the depth of the earth material in which the lead was detected will be disclosed. If earth material will not be relinquished to the contractor, all excavated earth material with lead, which is typically found within the top two feet of material in unpaved areas of the highway, will be reused within the project limits.</td>
<td>Resident Engineer/Contractor</td>
<td>Final Design PS&amp;E/Pre-Construction</td>
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<tr>
<td>HAZ-17</td>
<td>Earth material containing lead will be handled according to all applicable laws, rules, and regulations, including those of the following agencies: (1) Cal/OSHA, (2) the California Regional Water Quality Control Board, Region 6 – Lahontan, and (3) the California Department of Toxic Substances Control.</td>
<td>Resident Engineer/Contractor</td>
<td>Final Design PS&amp;E/Pre-Construction</td>
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<td>No.</td>
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<td>HAZ-18</td>
<td>As recommended in the BNSF railroad investigation conducted as part of the Preliminary Site Investigation, the contractor will ensure that excess soils not used on site are disposed of as non-hazardous waste at a Class II facility. Excess soils may be reused within the construction zone, but off-site reuse is not permitted. In the event that stained or odorous soils are encountered during excavation, soils will be segregated, stockpiled, and characterized for disposition in accordance with local, state, and federal regulations and requirements. All work will be conducted under the guidance of a soil management plan (SMP) prepared by a Professional Engineer or Professional Geologist. The purpose of the SMP is to identify measures that would be implemented during construction activities to minimize dust and potential exposure to workers.</td>
<td>Resident Engineer/Contractor</td>
<td>Final Design PS&amp;E/Pre-Construction</td>
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<tr>
<td>HAZ-19</td>
<td>If a commercial landfill will be used to dispose of earth material, (1) the earth material will be transported to a Class II or Class III landfill that is appropriately permitted to receive the material and (2) the contractor will be responsible for identifying the appropriately permitted landfill that will receive the earth material and paying all associated trucking and disposal costs, including costs for any additional sampling and analysis required by the receiving landfill. If hazardous waste material is discovered during construction, such material must be transported under manifest to a permitted Class I disposal facility.</td>
<td>Resident Engineer/Contractor</td>
<td>Final Design PS&amp;E/Pre-Construction</td>
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<td>HAZ-20</td>
<td>Coordination with the San Bernardino County Department of Airports and impacted airstrip and Boron Airport owners will be conducted to establish the appropriate construction or closure notification and safety procedures. The airstrip and Boron Airport do not appear to meet the requirements of CFR Title 14 Part 77.9; however, if during the coordination process it is determined that the FAA should be notified, then all notification requirements in accordance with CFR Title 14 Part 77.9 will be followed.</td>
<td>Resident Engineer/Contractor</td>
<td>Final Design PS&amp;E/Pre-Construction</td>
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</table>
## Section 3.14 Air Quality

The Department will require implementation of effective and comprehensive avoidance and minimization measures, as detailed in the Department’s Standard Specifications, Section 7-1.01F (Air Pollution Control), and MDAQMD Rule 403.2 (Fugitive Dust Control).

Measures to reduce exhaust emissions specified in Section 7-1.01F (Air Pollution Control) may include the following:

- Maintain and operate construction equipment to minimize exhaust emissions. During construction, trucks and vehicles in loading and unloading queues would have their engines turned off when not in use to reduce vehicle emissions. Construction emissions should be phased and scheduled to avoid emissions peaks and discontinued during second-stage smog alerts.

- Properly tune and maintain all equipment in accordance with the manufacturer’s specifications.

- Use electricity from power poles rather than temporary diesel- or gasoline-powered generators if and/or where feasible.

- Use on-site mobile equipment powered by alternative fuel sources (i.e., methanol, natural gas, propane, butane) as feasible.

- Develop a construction traffic management plan that includes: (1) consolidating truck deliveries; (2) providing a rideshare or shuttle service for construction workers; and (3) providing dedicated turn lanes for construction trucks and equipment on- and off-site.

- Use solar-powered changeable message signs.

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<tr>
<td>AQ-1</td>
<td>The Department will require implementation of effective and comprehensive avoidance and minimization measures, as detailed in the Department’s Standard Specifications, Section 7-1.01F (Air Pollution Control), and MDAQMD Rule 403.2 (Fugitive Dust Control). Measures to reduce exhaust emissions specified in Section 7-1.01F (Air Pollution Control) may include the following:</td>
<td>Resident Engineer/Contractor</td>
<td>Construction</td>
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**APPENDIX G:** Environmental Commitments Record (ECR)

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<td>Measures to reduce particle emissions specified in MDAQMD Rule 403.2 (Fugitive Dust Control) include the following:</td>
<td>Resident Engineer/Contractor</td>
<td>Construction</td>
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<td>The owner or operator of any construction/demolition source shall:</td>
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<td>• Use periodic watering for short-term stabilization of disturbed surface areas to minimize visible fugitive dust emissions. For purposes of this rule, use of a water truck to moisten disturbed surfaces and actively spread water during visible dusting episodes shall be considered adequate to maintain compliance.</td>
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<td>• Take actions to prevent project-related trackout onto paved surfaces.</td>
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<td>• Cover loaded haul vehicles while operating on publicly maintained paved surfaces.</td>
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<td>• Stabilize graded site surfaces upon completion of grading when subsequent development is delayed or expected to be delayed more than 30 days, except when such a delay is due to precipitation that dampens the disturbed surface enough to eliminate visible fugitive dust emissions.</td>
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<td></td>
<td>• Clean up project-related trackout or spills on publicly maintained paved surfaces within 24 hours.</td>
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<td>• Reduce nonessential earthmoving activity under high wind conditions. For purposes of this rule, a reduction in earthmoving activity when visible dusting occurs shall be considered enough to maintain compliance.</td>
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AQ-2
**NOI-1**

To reduce noise levels from construction to the extent that is technically feasible and avoid unnecessary annoyance from construction noise, the construction noise control measures listed below will be implemented.

- To the extent practicable, avoid using construction equipment or any other activity that could generate high noise levels near homes. If nighttime construction is required, the community will be advised.
- Place maintenance yards, batch plants, haul roads, and other construction-oriented operations in locations that would be the least disruptive to the community.
- Hold community meetings to explain to area residents the construction work, time involved, and control measures to be taken to reduce the impact of construction work, as appropriate.
- Schedule the timing and duration of construction activities to minimize noise impacts at noise-sensitive locations.
- As practicable, use noise-attenuating “jackets” or portable noise screens to provide shielding for pavement breaking, jack hammering, or other similar activities when work is close to noise-sensitive areas.
  - Do not exceed 86 dBA Lmax at 50 feet from the job site activities from 9 p.m. to 6 a.m.
  - Equip an internal combustion engine with the manufacturer-recommended muffler. Do not operate an internal combustion engine on the job site without the appropriate muffler.

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<tr>
<td></td>
<td>To reduce noise levels from construction to the extent that is technically feasible and avoid unnecessary annoyance from construction noise, the construction noise control measures listed below will be implemented.</td>
<td>Resident Engineer/Contractor</td>
<td>Construction</td>
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### Section 3.17 Natural Communities

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<tr>
<th>No.</th>
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<tr>
<td>BIO-1</td>
<td>In coordination with USFWS and CDFW two oversized culverts, east and west of US-395, will be installed as part of the project. These culverts will be a minimum of six feet tall and 10 feet wide. These will be box culverts, which are a specific requirement for desert tortoise and Mohave ground squirrel and have been designed as such. They will also accommodate small to medium sized animals. Desert tortoise fencing will be used to direct wildlife to them.</td>
<td>Environmental Coordinator/District Biological Studies/Project Engineer/Resident Engineer/Contractor</td>
<td>Final Design/PS&amp;E/Construction</td>
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### Section 3.18 Wetlands and Other Waters

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<th>No.</th>
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<tbody>
<tr>
<td>BIO-2</td>
<td>Water Pollution Control: Avoidance and minimization measures to be utilized in order to protect aquatic resources during the course of the project will include the implementation of BMPs (Department 2003a) and the Storm Water Pollution Prevention Plan (SWPPP) (Department 2003b) during all phases of construction.</td>
<td>Environmental Coordinator/ District Biological Studies/Project Engineer/Resident Engineer/Contractor</td>
<td>Final Design/PS&amp;E/Construction</td>
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<tr>
<td>BIO-3</td>
<td>Temporary Environmentally Sensitive Area (ESA) fencing: An ESA fence will be installed around all washes within the right of way that will not be impacted by the project.</td>
<td>Qualified Biologist District Biological Studies/Project Engineer/Resident Engineer/Contractor/ Construction Liaison</td>
<td>Final Design/PS&amp;E/Pre-Construction</td>
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<tr>
<td>BIO-4</td>
<td>Biological Monitor. A qualified construction monitor will assure that construction activities will not impact the washes delimited by the ESA fencing.</td>
<td>Qualified Biologist District Biological Studies/Project Engineer/Resident Engineer/Contractor/ Construction Liaison</td>
<td>Final Design/PS&amp;E/Construction</td>
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<tr>
<td>BIO-5</td>
<td>The proposed project will require the acquisition of mitigation for federal and state listed species. Mitigation ratios varied from 3:1 to 5:1. This land is expected to include desert washes that should offset the impact for the project. There is no aquatic/riparian vegetation that will require any other additional mitigation. If the mitigation land acquired for the project does not include sufficient desert washes, supplementary mitigation may be required by the agencies with jurisdiction over the waters.</td>
<td>Qualified Biologist District Biological Studies/Project Engineer/Resident Engineer/Contractor/ Construction Liaison</td>
<td>Final Design/PS&amp;E/Construction</td>
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### Section 3.19 Plant Species

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<th>No.</th>
<th>Task and Brief Description</th>
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<th>Timing/Phase</th>
<th>Action Taken to Comply with Task</th>
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<tr>
<td>BIO-6</td>
<td>Preconstruction surveys for rare plants will be conducted by a qualified biologist during the appropriate blooming period. Any plants identified will be flagged and avoided, if feasible.</td>
<td>Environmental Liaison/Resident Engineer/Contractor/Construction Liaison</td>
<td>Final Design/PS&amp;E/Pre-Construction</td>
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<td>BIO-7</td>
<td>The project design will avoid impacts to special-status plants to the extent feasible.</td>
<td>District Biological Studies/Project Engineer/Resident Engineer/Contractor/Construction Liaison</td>
<td>Final Design/PS&amp;E/Construction</td>
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<tr>
<td>BIO-8</td>
<td>Temporary Fence (Type ESA). ESA fencing will be established around those populations of special-status plants that are to be protected in place to prohibit all construction activities and access from impacting the rare plant populations within the project area.</td>
<td>Environmental Liaison/District Biological Studies/Project Engineer/Resident Engineer/Contractor/Construction Liaison</td>
<td>Final Design/PS&amp;E/Pre-Construction</td>
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<tr>
<td>BIO-9</td>
<td>Seeds will be collected from all those plant populations deemed appropriate for seed relocation if suitable habitat is available.</td>
<td>Qualified Biologist/District Biological Studies/Project Engineer/Resident Engineer/Contractor/Construction Liaison</td>
<td>Final Design/PS&amp;E/Construction</td>
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<tr>
<td>BIO-10</td>
<td>Biological Monitor. A qualified biological monitor will monitor construction activities to ensure avoidance of any construction-related impacts to special status plant species.</td>
<td>Qualified Biologist/District Biological Studies/Project Engineer/Resident Engineer/Contractor/Construction Liaison</td>
<td>Final Design/PS&amp;E/Construction</td>
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<tr>
<td>BIO-11</td>
<td>Species Protection Measures will be made to ensure that temporary staging areas, storage areas, and access roads involved with this project will occur in the area of permanent direct impact. Access to the project site will be gained from the existing SR-58. No new access roads will be built as part of this project. Staging areas and equipment storage will take place on existing roads or within the proposed right-of-way of the realigned SR-58.</td>
<td>District Biological Studies/Project Engineer/Resident Engineer/Contractor/Construction Liaison</td>
<td>Final Design/PS&amp;E/Construction</td>
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### APPENDIX G: Environmental Commitments Record (ECR)

#### State Route 58 (SR-58)
**Kramer Junction Expressway Project**
**PN: 0800000616**
**EA 08-347700**

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<th>No.</th>
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<tr>
<td>BIO-12</td>
<td>Joshua trees within the direct impact area with a circumference of 50 inches measured at four feet, measuring 15 feet high, or occurring in a cluster of 10 or more within close proximity to each other will be transplanted or stockpiled for future transplanting to the extent feasible. Joshua trees will be shown on the plans for avoidance or transplanting.</td>
<td>District Biological Studies/Project Engineer/Resident Engineer/Contractor/Construction Liaison</td>
<td>Final Design/PS&amp;E/Construction</td>
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<tr>
<td>BIO-13</td>
<td>An Environmentally Sensitive Area (ESA) will be established around all Joshua trees within the project area that are to be protected in place, as shown on plans. To prohibit all construction activities and access from impacting the Joshua trees within the project area, temporary ESA fencing would be placed around the Joshua trees.</td>
<td>District Biological Studies/Project Engineer/Resident Engineer/Contractor/Construction Liaison</td>
<td>Final Design/PS&amp;E/Pre-Construction</td>
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### Section 3.20 Animal Species

#### BIO-14
A preconstruction survey of the project site for burrowing owl will be conducted; the time lapse between surveys and site disturbance will be as short as possible and will be determined based on consultation with CDFW, but will not exceed 7 days prior to commencing construction activities.

**Responsible Party:**
- Qualified Biologist/District Biological Studies/Project Engineer/Resident Engineer/Construction Liaison

**Timing/Phase:** Final Design/PS&E/Pre-Construction

#### BIO-15
Species Protection. Measures will be implemented to ensure that temporary staging areas, storage areas, and access roads for this project will occur in the area of permanent direct impact. Access to the project site will be gained from the existing SR-58. No new access roads will be built as part of this project. Staging areas and equipment storage will take place on existing roads or within the proposed right-of-way of the realigned SR-58.

**Responsible Party:**
- District Biological Studies/Project Engineer/Resident Engineer/Contractor/Construction Liaison

**Timing/Phase:** Final Design/PS&E/Pre-Construction

#### BIO-16
Species Protection: If burrowing owls are found on-site during the preconstruction sweep:

- Occupied burrows shall not be disturbed during the nesting season (February 1 through August 31) unless a biologist can verify through non-invasive methods that either the owls have not begun egg laying and incubation or that juveniles from the occupied burrows are foraging independently and are capable of independent flight.
- A Burrowing Owl Mitigation and Monitoring Plan will be submitted to CDFW for review and approval.
- All relocation shall be approved by CDFW.

**Responsible Party:**
- District Biological Studies/Project Engineer/Resident Engineer/Contractor/Construction Liaison

**Timing/Phase:** Final Design/PS&E/Construction
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| BIO-17 | **If, during preconstruction surveys, a burrowing owl is encountered, habitat compensation will be assessed and coordinated with CDFW during preparation of the Burrowing Owl Mitigation and Monitoring Plan.**  
  Appropriate mitigation lands for burrowing owl will be determined during preparation and CDFW agency approval of the Burrowing Owl Mitigation and Monitoring Plan. CDFW may allow the mitigation lands acquired following the above mitigation ratios to account for more than just burrowing owl, if species-specific habitat criteria are met in the habitat acquisition proposal. As provided in CDFW (2012) the mitigation for permanent habitat loss necessitates replacement with an equal or greater habitat area. | Qualified Biologist District Biological Studies/Project Engineer/Resident Engineer/Contractor/Construction Liaison | Final Design/PS&E/Pre-Construction                                                                                                                                |                                                                                                           |                                |
| BIO-18 | **To avoid any impacts to migratory birds (including loggerhead shrike and Le Conte’s thrasher), vegetation removal must take place between September 15 and February 15 (outside of the breeding season). If, because of construction schedules, it is necessary to remove vegetation, including trees, during the breeding season (February 16 through September 14), a biological construction monitor must perform a preconstruction survey of each individual tree and/or the entire area where vegetation will be removed. All measures shall be taken to minimize impacts on nesting birds. A preconstruction sweep for nesting birds will be conducted prior to construction activities outside of the nesting season as well. The sweep will include areas used for staging, storage, sign placement, or parking. If an active bird nest is detected during surveys, a nest avoidance buffer will be implemented with a radius of 100 feet or as determined by the biological monitor. Depending on the species and nesting stage, it may be prudent to have a biological monitor present during construction to monitor nest activity while still allowing construction to take place.** | Qualified Biologist District Biological Studies/Project Engineer/Resident Engineer/Construction Liaison | Final Design/PS&E/Pre-Construction                                                                                                                                |                                                                                                           |                                |
| BIO-19 | **A preconstruction survey will take place to ensure that no American badgers are located within the project limits.**                                                                                                                                                                                                                                                                                                                                                                                                   | Qualified Biologist District Biological Studies/Project Engineer/Resident Engineer/Construction Liaison | Final Design/PS&E/Pre-Construction                                                                                                                                |                                                                                                           |                                |
| BIO-20 | **Biological Monitor: A qualified biological monitor will monitor construction activities to ensure avoidance of any construction-related impacts on American badger.**                                                                                                                                                                                                                                                                                                                                                      | Qualified Biologist/District Biological Studies/Project Engineer/Resident Engineer/Construction Liaison | Final Design/PS&E/Pre-Construction                                                                                                                                |                                                                                                           |                                |
### Section 3.21 Threatened and Endangered Species

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<tbody>
<tr>
<td>BIO-21</td>
<td>Species Protection: If a burrow occupied by badgers is found during construction, all construction activities will cease in the vicinity of the burrow, and coordination with CDFW will take place so that appropriate protective measures can be implemented.</td>
<td>Qualified Biologist/District Biological Studies/Project Engineer/Resident Engineer/Contractor/Construction Liaison</td>
<td>Final Design/PS&amp;E/Construction</td>
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<td>BIO-22</td>
<td>Field Contact Representative or Resident Engineer. Caltrans will assign/designate a staff person to act as the Field Contact Representative (FCR) or Resident Engineer (RE) with specific experience in the implementation of environmental compliance programs. The FCR/RE will serve as the environmental compliance monitor for the project. They will be present throughout construction period. This individual will be the liaison among the wildlife agencies, FHWA, Authorized Biologist(s), and Biological Monitor(s). The FCR/RE and Authorized Biologist will work closely together to ensure compliance with the various conditions and requirements of project permits and approvals set forth in the biological opinion and supporting plans appended to the biological assessment. Caltrans’s FCR/RE will act on the advice of the Authorized Biologist(s) and Biological Monitor(s) to ensure conformance with the protective measures set forth in the biological opinion. The Authorized Biologist(s) will have the authority to immediately stop any activity that is not in compliance with these conditions and/or order any reasonable measure to avoid take of an individual of a listed species. If required by an Authorized Biologist and Biological Monitor(s), Caltrans’s FCR/RE will halt all construction-related ground disturbance and other activities in areas specified by the Authorized Biologist(s).</td>
<td>Qualified Biologist/District Biological Studies/Project Engineer/Resident Engineer/Contractor/Construction Liaison</td>
<td>Final Design/PS&amp;E/Construction</td>
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**APPENDIX G: Environmental Commitments Record (ECR)**

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<td><strong>BIO-23</strong> Authorized Biologists and Biological Monitors. Caltrans will review the credentials of all individuals seeking approval as Authorized Biologists prior to being submitted to USFWS to ensure the individuals possess the appropriate experience and training to serve as Authorized Biologists. Caltrans will then submit the credentials of appropriate individuals to USFWS and CDFW for approval at least 30 days prior to the time they must be in the field. The Authorized Biologist will be responsible for all aspects of clearance surveys, monitoring, developing and implementing the worker environmental awareness program, contacts with agency personnel, reporting, and long-term monitoring and reporting and be present, along with approved Biological Monitors, during construction, operation, and maintenance that could affect desert tortoises. Biological Monitors will be approved and supervised by the Authorized Biologist.</td>
<td>District Biological Studies/Project Engineer/Resident Engineer/Contractor/Construction Liaison</td>
<td>Final Design/PS&amp;E/Pre-Construction</td>
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<td><strong>BIO-24</strong> Pre-Construction Surveys. Within desert tortoise habitat, Authorized Biologists will conduct pre-construction surveys of the project area including the right-of-way, staging areas, access routes, and all other construction sites. The surveys will also cover the adjacent undeveloped lands located between the existing and new alignment. Authorized Biologists will survey the right-of-way for desert tortoises using techniques providing 100-percent coverage of the area proposed for disturbance. Additional transects will be conducted on each side of the right-of-way to locate tortoises and their burrows within 50 feet of the right-of-way. Transects will be no greater than 10 meters (30 feet) apart. If construction occurs during the desert tortoise active season (March 1 through October 31), or when temperatures and environmental conditions are conducive to tortoise activity as determined by an Authorized Biologist, the survey will occur within 48 hours of surface disturbance. During the inactive season (November 1 through February 28, except as noted above), when conditions are not conducive to tortoise activity as determined by an Authorized Biologist, one survey must occur within 72 hours of surface disturbance or up to five days in advance of disturbance. The Authorized Biologist will flag all desert tortoise burrows, and will only excavate burrows and move desert tortoises if project activities are likely to affect them. If a desert tortoise is moved, the Authorized Biologist will move it into appropriate habitat adjacent to the project site, but will not move it more than 1,000 feet if it is an adult or 300 feet if it is a juvenile or hatchling. Following the</td>
<td>Qualified Biologist/District Biological Studies/Project Engineer/Resident Engineer/Contractor/Construction Liaison</td>
<td>Final Design/PS&amp;E/Construction</td>
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## APPENDIX G: Environmental Commitments Record (ECR)

### State Route 58 (SR-58)
Kramer Junction Expressway Project  
PN: 0800000616  
EA 08-347700

<table>
<thead>
<tr>
<th>No.</th>
<th>Task and Brief Description</th>
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<td>preconstruction survey and the relocation of desert tortoises if determined necessary by the Authorized Biologist, the contractor will install permanent fencing to exclude desert tortoises from all work areas and rights-of-way, as specified in Measure BIO-29.</td>
<td>Qualified Biologist/District Biological Studies/Project Engineer/Resident Engineer/Contractor/ Construction Liaison</td>
<td>Final Design/PS&amp;E/ Construction</td>
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<tr>
<td>BIO-25</td>
<td>Biological Resource Information Program. Caltrans will be responsible for ensuring that all workers at the site receive worker environmental awareness training (Worker Environmental Awareness Program [WEAP]) prior to and throughout construction. The training will be administered to all on-site personnel including surveyors, construction engineers, employees, contractors, contractor’s employees, supervisors, inspectors, subcontractors, and delivery personnel. Caltrans will implement the WEAP to ensure that project construction and operation are both conducted within a framework of safeguarding environmentally sensitive resources. The WEAP will be available in English and Spanish. The Applicant will present the WEAP to all workers on site throughout the life of the project. Multiple sessions of the presentation may be given to accommodate training all workers. The WEAP will include but will not be limited to the following:</td>
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<td>a. Be developed by or in consultation with the Authorized Biologist and consist of an on-site or training center presentation in which supporting written material and electronic media, including photographs of protected species, are made available to all participants;</td>
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<td>b. Provide an explanation of the purpose and function of the desert tortoise minimization measures and the possible penalties for not adhering to them;</td>
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<td>c. Inform workers that the FCR/RE, Authorized Biologist(s), and Biological Monitor(s) have the authority to halt work in any area where there would be an unauthorized adverse impact to biological resources if the activities continued;</td>
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<td>d. Discuss general safety protocols such as hazardous substance spill prevention and containment measures and fire prevention and protection measures;</td>
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<td>e. Provide an explanation of the sensitivity and locations of the vegetation, biological resources, and habitat within and adjacent to work areas, and proper identification of these resources;</td>
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<td>f. Place special emphasis on desert tortoise and southwestern willow flycatcher, including information on physical</td>
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**APPENDIX G: Environmental Commitments Record (ECR)**

State Route 58 (SR-58)
Kramer Junction Expressway Project
PN: 0800000616
EA 08-347700

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<td>characteristics, photos, distribution, behavior, ecology, sensitivity to human activities, legal protection, penalties for violations, reporting requirements, and conservation measures required for the project;</td>
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<td>g. Provide contact information for the Authorized Biologist(s) and Biological Monitor(s) for WEAP trainees to submit late comments and questions about the material discussed in the program, as well as to report any dead or injured wildlife species encountered during project-related activities;</td>
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<td>h. Direct all WEAP trainees to report all observations of listed species and their sign to an Authorized Biologist for inclusion in the monthly compliance report;</td>
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<td>i. Include a training acknowledgment form to be signed by each worker indicating that they received training and will abide by the guidelines; and</td>
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<td>j. Provide an explanation regarding the protective measures to reduce the adverse effects associated with predation of desert tortoises by common ravens (<em>Corvus corax</em>) and other known predators of desert tortoise.</td>
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<td>Only workers who have successfully completed the education program will be allowed to work on the project site.</td>
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<td>BIO-26</td>
<td>Species Protection. Caltrans will ensure that the Authorized Biologist(s) will follow the procedures for handling tortoises in the USFWS field manual (2009). Only the Authorized Biologist(s) will move desert tortoises and then solely for the purpose of moving them from harm’s way. The Authorized Biologist(s) will document each desert tortoise encounter/handling with the following information, at a minimum: a narrative describing circumstances; vegetation type; date; conditions and health; any apparent injuries and state of healing; if moved, the location from which it was captured and the location in which it was released; maps; whether animals voided their bladders; and diagnostic markings (that is, identification numbers marked on lateral scutes).</td>
<td>Qualified Biologist/District Biological Studies/Project Engineer/Resident Engineer/Contractor/ Construction Liaison</td>
<td>Final Design/PS&amp;E/ Pre-Construction</td>
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<td>Tortoises found in the project area will be handled and relocated by an Authorized Biologist in accordance with the most current USFWS protocol in the Desert Tortoise Field Manual. Tortoises excavated from burrows must be relocated to unoccupied natural or artificially constructed burrows immediately following excavation. The artificial or unoccupied natural burrows must occur 150 to 300 feet from the original burrow. Relocated tortoises will not be placed in existing</td>
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occupied burrows. If an existing burrow that is similar in size, shape, 
and orientation to the original burrow is unavailable, the Authorized 
Biologist(s) would construct one. Desert tortoises moved during 
inactive periods will be monitored for at least two days after 
placement in new burrows to ensure their safety. The Authorized 
Biologist(s) would be allowed some judgment and discretion to 
ensure that survival of the desert tortoise is likely. The relocated 
tortoise will be monitored during construction activities to ensure that 
it shelters and does not return to the right-of-way and be in harm’s 
way.

Desert tortoises that are found aboveground and need to be moved 
from harm’s way will be placed at unoccupied shelter sites including 
unoccupied soil burrows, spaces within rock outcrops, caliche caves, 
and the shade of shrubs at 150 to 300 feet from the point of 
encounter. During periods of the year when desert tortoises are 
generally active, a Biological Monitor will monitor these individuals 
to ensure that they do not move back into harm’s way or exhibit signs 
of physiological stress (e.g., gaping, foaming at the mouth). If a 
desert tortoise exhibits any signs of physiological stress, the 
Authorized Biologist(s) will immediately undertake actions to 
stabilize it (e.g., place it in a climate-controlled facility, shade it, 
lightly mist it with water); the desert tortoise will be released only 
after it is exhibiting normal behavior and temperatures are 
appropriate.

Whenever a vehicle or construction equipment is parked longer than 
two minutes within desert tortoise habitat, workers will inspect the 
ground around and underneath the vehicle for desert tortoises prior to 
moving the vehicle. If the worker observes a desert tortoise, he or she 
will contact an Authorized Biologist or Biological Monitor. If 
possible, the desert tortoise will be left to move out of harm’s way on 
its own. If the desert tortoise does not move out of harm’s way within 
15 minutes, an Authorized Biologist will move it out of harm’s way 
in accordance with the handling procedures.

Caltrans will ensure that no project personnel will exceed a vehicle 
speed limit of 20 miles per hour during project activities on unpaved 
access roads within desert tortoise habitat.

To prevent entry by common ravens (*Corvus corax*) and other 
predators such as the coyote (*Canis latrans*), trash will be placed in a 
sealed container and emptied at the close of business each day. The 
project area will be kept as clean of debris as possible. Each water

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<td>occupied burrows. If an existing burrow that is similar in size, shape, and orientation to the original burrow is unavailable, the Authorized Biologist(s) would construct one. Desert tortoises moved during inactive periods will be monitored for at least two days after placement in new burrows to ensure their safety. The Authorized Biologist(s) would be allowed some judgment and discretion to ensure that survival of the desert tortoise is likely. The relocated tortoise will be monitored during construction activities to ensure that it shelters and does not return to the right-of-way and be in harm’s way. Desert tortoises that are found aboveground and need to be moved from harm’s way will be placed at unoccupied shelter sites including unoccupied soil burrows, spaces within rock outcrops, caliche caves, and the shade of shrubs at 150 to 300 feet from the point of encounter. During periods of the year when desert tortoises are generally active, a Biological Monitor will monitor these individuals to ensure that they do not move back into harm’s way or exhibit signs of physiological stress (e.g., gaping, foaming at the mouth). If a desert tortoise exhibits any signs of physiological stress, the Authorized Biologist(s) will immediately undertake actions to stabilize it (e.g., place it in a climate-controlled facility, shade it, lightly mist it with water); the desert tortoise will be released only after it is exhibiting normal behavior and temperatures are appropriate. Whenever a vehicle or construction equipment is parked longer than two minutes within desert tortoise habitat, workers will inspect the ground around and underneath the vehicle for desert tortoises prior to moving the vehicle. If the worker observes a desert tortoise, he or she will contact an Authorized Biologist or Biological Monitor. If possible, the desert tortoise will be left to move out of harm’s way on its own. If the desert tortoise does not move out of harm’s way within 15 minutes, an Authorized Biologist will move it out of harm’s way in accordance with the handling procedures. Caltrans will ensure that no project personnel will exceed a vehicle speed limit of 20 miles per hour during project activities on unpaved access roads within desert tortoise habitat. To prevent entry by common ravens (<em>Corvus corax</em>) and other predators such as the coyote (<em>Canis latrans</em>), trash will be placed in a sealed container and emptied at the close of business each day. The project area will be kept as clean of debris as possible. Each water</td>
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<td>source will be caged or netted to prevent use by ravens. Caltrans will ensure that workers do not bring firearms and pets into the project area. This measure does not apply to law enforcement personnel and working dogs.</td>
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<td>BIO-27</td>
<td>Locating a Dead or Injured Tortoise. The Authorized Biologist will notify USFWS within 24 hours upon locating a dead or injured desert tortoise during construction, operation, and maintenance of the project. The notification will be made by telephone and in writing or by electronic mail to BLM and USFWS. The report will include the date and time of the finding or incident (if known), location of the carcass, a photograph, cause of death (if known), and other pertinent information. Caltrans will submit desert tortoises that are fatally injured during project-related activities for necropsy, at its expense, as outlined in Berry (2001).</td>
<td>Qualified Biologist/District Biological Studies/Project Engineer/Resident Engineer/Contractor/Construction Liaison</td>
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<td>BIO-28</td>
<td>Designated Areas. Caltrans will confine all project activities to the right-of-way, approved access roads, and storage areas. All storage areas and vehicle turn-around locations will use previously disturbed habitat as much as possible and will require USFWS approval prior to the initiation of project activities. Caltrans will restrict project vehicles to the right-of-way, designated areas, or existing roads and will prohibit off-road or cross-country travel except in emergencies. Caltrans will not create any new dirt or paved roads. The project construction boundaries will be clearly delineated with fencing, stakes, or flagging. If unforeseen circumstances require disturbance beyond the project right-of-way, Caltrans will notify USFWS immediately. Caltrans will ensure that the Authorized Biologist or Biological Monitor will inspect any open trenches or excavations within project work sites at least three times daily and prior to backfilling. If a desert tortoise is located within an open trench, a USFWS-authorized biologist will remove it. Project personnel will cover open trenches or excavations with metal plates if they are left open overnight or on the weekend to prevent desert tortoises from entering them.</td>
<td>Qualified Biologist/District Biological Studies/Project Engineer/Resident Engineer/Contractor/Construction Liaison</td>
<td>Final Design/PS&amp;E/Construction</td>
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## APPENDIX G: Environmental Commitments Record (ECR)

### State Route 58 (SR-58)
Kramer Junction Expressway Project
PN: 0800000616
EA 08-347700

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<td></td>
<td>Permanent Fence. Following preconstruction surveys and the relocation of desert tortoises if determined necessary by the Authorized Biologist but prior to the start of construction, Caltrans will require the contractor to install permanent fencing to exclude desert tortoises from all work areas and rights-of-way under the direction of an Authorized Biologist. Caltrans will construct the fence according to the protocols provided in Chapter 8 of the Desert Tortoise Field Manual (USFWS 2009). If desert tortoises are encountered during installation of the fence, the Authorized Biologist will move the individual the shortest distance possible to an area outside the fence where it will be safe. The Authorized Biologist will use his or her judgment regarding the best measures to use to ensure the desert tortoise does not immediately return to the area inside of the fence. The Authorized Biologist may contact USFWS or CDFW to discuss specific situations if the need arises. After the fencing is installed and before the onset of ground-disturbing activities, the Authorized Biologist will survey the area and remove all desert tortoises. The Authorized Biologist will survey the area as much as is needed to ensure that all desert tortoises have been found; generally, all desert tortoises will be considered to have been removed once a complete survey of the work area is conducted without finding any additional animals. Desert tortoises that are found inside the fenced area will be placed on the other side of the desert tortoise exclusion fence. The Authorized Biologist will use his or her best judgment to determine the optimal location for placement of desert tortoises. In general, desert tortoises will be moved to the nearest safe area south of the road realignment. Caltrans will maintain the integrity of the fence to ensure that desert tortoises are excluded from the work area during construction and from the roadway thereafter. The fence will be inspected regularly; initially, it will be inspected on a monthly basis, but Caltrans may adopt a different schedule, based on experience. Caltrans will inspect and, if necessary, repair the fence immediately after any rainstorm that occurs during times of the year or at temperatures when desert tortoises are likely to be active.</td>
<td>Qualified Biologist/District Biological Studies/Project Engineer/Resident Engineer/Contractor/ Construction Liaison</td>
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<td>BIO-30</td>
<td>Construction Monitoring. An appropriate number of Authorized Biologists and Biological Monitors will be available during construction for the protection of desert tortoise. Authorized Biologists will be assigned to monitor each area of activity where conditions exist that may result in take of desert tortoise (e.g., clearing, grading, re-contouring, restoration activities). The Biological Monitor will survey ahead of the project activities and halt construction if he or she finds a desert tortoise in the path of construction equipment. Project activities will not resume until the desert tortoise moves out of harm’s way or the Authorized Biologist has relocated it. An Authorized Biologist or Biological Monitor will inspect all excavations that are not within desert tortoise exclusion fencing on a regular basis (several times per day) and immediately prior to filling of the excavation. If project personnel discover a desert tortoise in an open trench, an Authorized Biologist will move it to a safe location in accordance with the Desert Tortoise Field Manual (2009).</td>
<td>Qualified Biologist/District Biological Studies/Project Engineer/Resident Engineer/Contractor/Construction Liaison</td>
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<td>BIO-31</td>
<td>Biological Monitor. A qualified biological monitor will monitor construction activities to ensure avoidance of any construction activities related to MGS.</td>
<td>Qualified Biologist/District Biological Studies/Project Engineer/Resident Engineer/Contractor/Construction Liaison</td>
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<td>BIO-32</td>
<td>Biological Resource Information Program. MGS Awareness Training will be provided and integrated with WEAP Training prior to construction.</td>
<td>Qualified Biologist/District Biological Studies/Project Engineer/Resident Engineer/Contractor/Construction Liaison</td>
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<td>BIO-33</td>
<td>Species Protection. If any MGS are injured or killed during the course of construction, work must stop in the immediate area, the animal must be left in place as is, and the project monitor and the Resident Engineer will be immediately notified. Only the authorized biologist will handle and transport the animal to a qualified veterinarian.</td>
<td>Qualified Biologist/District Biological Studies/Project Engineer/Resident Engineer/Contractor/Construction Liaison</td>
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<td>BIO-34</td>
<td>Caltrans, CDFW, and USFWS agreed to mitigate affected areas east of Fornessa Road with a mitigation ratio of 5:1, including the critical habitat areas east of US-395. Due to habitat quality, all areas west of Fornessa Road will be mitigated at a ratio of 3:1. The total impact area to be mitigated is shown in Table 3.21-2 in Section 3.21.3.1. Alternative 3 is the alternative that would require more mitigation for desert tortoise, followed by Alternative 1 and Alternative 1A. Since Alternative 2 is located within more previously disturbed areas, and areas already mitigated by previous projects, it is the alternative that would require less mitigation for this project. These mitigation ratios are combined with the mitigation ratios for the MGS.</td>
<td>District Biological Studies/ Project Engineer/Resident Engineer/Contractor/ Construction Liaison</td>
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<td>BIO-35</td>
<td>In coordination with CDFW and USFWS, two oversized culverts, east and west of US-395, will be installed as part of the project. These culverts will be a minimum of 6 feet tall and 10 feet wide.</td>
<td>District Biological Studies/ Project Engineer/Resident Engineer/Contractor/ Construction Liaison</td>
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<td>BIO-36</td>
<td>Similar to compensatory mitigation for desert tortoise, Caltrans and CDFW have agreed to mitigate affected areas east of Fornessa Road with a mitigation ratio of 5:1. Due to habitat quality all areas west of Fornessa Road will be mitigated at a ratio of 3:1. The total impact area to be mitigated is disclosed on Table 3.21-2 in Section 3.21.3.1. Alternative 3 is the alternative that would require more mitigation for MGS, followed by Alternative 1 and Alternative 1A. Since Alternative 2 is located within more previously disturbed areas, and areas already mitigated by previous projects, it is the alternative that would require less mitigation for this project. These mitigation ratios are combined with the mitigation ratios for desert tortoise.</td>
<td>Qualified Biologist/District Biological Studies/Project Engineer/Resident Engineer/Contractor/ Construction Liaison</td>
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<td>BIO-37</td>
<td>In coordination with CDFW two oversized culverts, east and west of US-395 will be installed as part of the project. These culverts will be a minimum of 6 feet tall and 10 feet wide.</td>
<td>District Biological Studies/ Project Engineer/Resident Engineer/Contractor/ Construction Liaison</td>
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### Section 3.22 Invasive Species

<p>| BIO-38 | Measures to minimize the introduction or spread of nonnative species would include cleaning all equipment and vehicles with water (or another Caltrans approved method) to remove dirt, seeds, vegetative material, or other debris before entering and upon leaving the project site and the removal and disposal off site of existing nonnative species within the project area. | District Biological Studies/ Project Engineer/Resident Engineer/Contractor/ Construction Liaison | Final Design/PS&amp;E/ Construction |                                        |      |</p>
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<td>BIO-39</td>
<td>Landscaping and erosion control measures proposed during this Department project will not contain invasive species in the plant selections or seed mixtures.</td>
<td>District Biological Studies/Project Engineer/Resident Engineer/Contractor/Construction Liaison</td>
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AP20170102 Conditions of Approval
CONDITIONS OF APPROVAL

KRAMER JUNCTION BORROW PIT
Mining Conditional Use Permit and Reclamation Plan 2018M-01
Kiewit Infrastructure West, Company

GENERAL REQUIREMENTS
Conditions of Operation and Procedures

LAND USE SERVICES DEPARTMENT – Planning Division (909) 387-8311

1. Project Description: Mining Conditional Use Permit (Mining CUP) and Reclamation Plan 2018M-01 approval for the Kramer Junction Borrow Pit, a 63.75-acre surface mining operation on privately owned land. The project proposes to mine up to 3 million cubic yards of fill material over a three year period to support construction of the Caltrans SR-58 Kramer Junction Expressway.

2. Project Location: The proposed Kramer Junction Borrow Pit is located at 41215 Sand Hill Road in Boron, 3.5 miles west of Kramer Junction. The site is located between the existing SR-58 to the south and proposed SR-58 to the north 3.5 miles west of Kramer Junction. The Land Use Zoning District is Resource Conservation (RC), which allows for mining with an approved Mining CUP and Reclamation Plan. APN: 0498-232-47.

3. Effective Dates: This Mining CUP approval (Project Number AP20170102) for Mine Reclamation Plan 2018M-01 shall be effective from April 17, 2017 through April 30, 2021, for active mining and reclamation, and from May 1, 2021 to April 30, 2026 to complete reclamation, or as soon thereafter as practicable. The approval shall be considered exercised on the effective date. At the conclusion of all mining activities, the site will be reclaimed to vacant open space and support wildlife habitat. The option to reclaim the site for reestablishment of the existing airport runways will remain.

4. Reclamation Plan Recordation: Pursuant to Public Resources Code Section 2772.7, Planning will prepare a “Notice of Reclamation Plan Approval” on a form to be approved by the County Recorder’s Office. The operator shall be responsible for review costs and recording fees.

5. Revisions/Amendments: Any alteration or expansion of these facilities or increase in the developed area of the site from that shown on the final approved Mine and Reclamation Plans will require submission of an additional application for review and approval. If mining reclamation procedures change from those outlined in the Kramer Junction Mine Reclamation Plan prepared by Lilburn Corporation, dated February 2018, the applicant/operator shall file an amendment and secure approval before such changes can be made effective.

6. Continuous Effect/Revocation: All conditions of the Kramer Junction Borrow Pit Mining CUP and Reclamation Plan 2018M-01 are continuing conditions. Failure of the applicant/operator
to comply with any or all of said conditions at any time could result in the notice of a public
hearing before the Planning Commission to consider revoking the Mining CUP. If revocation
is confirmed, the Planning Commission may provide for a reasonable period of time to
amortize any lawful existing uses and require the commencement of reclamation in
accordance with approved Reclamation Plan 2018M-01.

7. **Written Notification:** The Land Use Services Department shall be notified in writing, within 30
days, regarding any:

   A. Change in operating procedures, or inactive periods of operation for one (1) year or
      more.

   B. Changes of Company ownership, address, or telephone number during the life of the
      Mining CUP and Reclamation Plan.

   C. Changes to provisions in lease agreements or real property having any effect on the
      approved Mining and Reclamation Plan.

8. **Mining and Reclamation Plan:** The approved Kramer Junction Borrow Pit Mine Reclamation
   Plan 2018M-01 and these corresponding Conditions of Approval shall be kept at the site at
   all times during active operations and be presented to the inspector upon request.

9. **CA Mine ID:** The applicant/operator shall obtain a California Mine Identification number from
   the California Department of Conservation pursuant to Public Resources Code, Section 2207
   and pay all associated fees to the State.

10. **Interim Management Plan:** The applicant shall implement measures to stabilize and secure
    the site during periods of inactivity as per the approved Mining and Reclamation Plan. An
    Interim Management Plan (IMP) as required by SMARA, Public Resources Code Section
    2770(h)(1) shall be submitted to Planning for review and approval within 90 days of the
    mining operation becoming idle.

11. **Additional Permits:** The applicant/operator shall ascertain and comply with requirements of all
    County, State, and Federal agencies as may be applicable to the Project. These include, but
    are not limited to the following: San Bernardino County Departments of Land Use Services,
    Public Health - Environmental Health Services, and Public Works; Mojave Desert Air Quality
    Management District; Lahontan Regional Water Quality Control Board; Mojave Desert
    Region Conservation District, State Fire Marshal, Mojave Water Agency, Caltrans District 8,
    California Department of Fish and Wildlife Region 6, State Mining and Geology Board,
    California Department of Conservation Division of Mine Reclamation, California Occupational
    Safety and Health Administration, California Highway Patrol, Bureau of Land Management,
    and the Mine Safety and Health Administration.

12. **Indemnification:** In compliance with San Bernardino County Code (SBCC) Section 81.01.070,
    the applicant shall agree, to defend, indemnify, and hold harmless the County or its
“indemnitees” (herein collectively the County’s elected officials, appointed officials (including Planning Commissioners), Zoning Administrator, agents, officers, employees, volunteers, advisory agencies or committees, appeal boards or legislative body) from any claim, action, or proceeding against the County or its indemnitees to attack, set aside, void, or annul an approval of the County by an indemnitee concerning a map or permit or any other action relating to or arising out of County approval, including the acts, errors or omissions of any person and for any costs or expenses incurred by the indemnitees on account of any claim, except where such indemnification is prohibited by law. In the alternative, the applicant may agree to relinquish such approval.

Any Condition of Approval imposed in compliance with the County Development Code or County General Plan shall include a requirement that the County acts reasonably to promptly notify the applicant of any claim, action, or proceeding and that the County cooperates fully in the defense. The applicant shall reimburse the County and its indemnitees for all expenses resulting from such actions, including any court costs and attorney fees, which the County or its indemnitees may be required by a court to pay as a result of such action. The County may, at its sole discretion, participate at its own expense in the defense of any such action, but such participation shall not relieve the applicant of their obligations under this condition to reimburse the County or its indemnitees for all such expenses.

This indemnification provision shall apply regardless of the existence or degree of fault of indemnitees. The applicant’s indemnification obligation applies to the indemnitees’ “passive” negligence but does not apply to the indemnitees’ “sole” or “active” negligence or “willful misconduct” within the meaning of Civil Code Section 2782.

13. Financial Assurances: The applicant/operator shall maintain an acceptable form of Financial Assurance for Mine Reclamation Plan 2018M-01 and for the Mining CUP. The Financial Assurance shall identify the County of San Bernardino and the California Department of Conservation as the beneficiaries. Any withdrawals made by the County for reclamation shall be re-deposited by the applicant/operator within 30 days of notification.

The Financial Assurance shall be calculated based on a cost estimate submitted by the applicant/operator and approved by the County and the California Department of Conservation, Division of Mine Reclamation for the approved reclamation procedures. Within 30 days following the mine site inspection, a Financial Assurance Cost Estimate shall be provided to the Land Use Services Department. The assurance amount shall be reviewed and, if necessary, adjusted to account for new lands disturbed by surface mining operations, inflation and reclamation of lands accomplished in accordance with the approved Mine Reclamation Plan 2018M-01.

The Financial Assurance is not established to replace the applicant's/operator’s responsibility for reclamation, but to assure adequate funding to complete reclamation per the Mine Reclamation Plan 2018M-01 and Conditions of Approval. Should the applicant/operator fail to perform or operate within all of the requirements of the approved Mine Reclamation Plan, the County or Department of Conservation will follow the procedures outlined in Sections 2773.1
and 2774.1 of SMARA regarding the encashment of the assurance and applicable administrative penalties, to bring the applicant/operator into compliance. The requirements for the assurance will terminate when reclamation of the site has been completed in compliance with the approved Mine Reclamation Plan and accepted by the County and the California Department of Conservation, Division of Mine Reclamation pursuant to California Code of Regulations (CCR), Section 3805.5.

14. **SMARA and State Regulations:** The provisions of the California Surface Mining and Reclamation Act of 1975 (“SMARA”, Public Resources Code Section 2710 et seq.), Public Resources Code Section 2207, and the regulations implementing SMARA (“State Regulations”, California Code of Regulations Section 3500 et seq.) are made a part of the CUP. In the event that the State amends SMARA to the extent it adds to or conflicts with the Conditions of Approval, State law shall prevail.

15. **Annual Reporting and Inspection:** The applicant/operator shall provide a Mining Operation Annual Report to the California Department of Conservation and to Land Use Services Department on a date established by the California Department of Conservation, using forms furnished by the State Mining and Geology Board. The County is required to conduct an inspection of the surface mining operation by a qualified person not less than once each calendar year to determine if the operation is in compliance with the approved Conditions of Approval, Reclamation Plan, and SMARA statutes and regulations. The County is required to notify the California Department of Conservation upon completion of the inspection that the inspection has been conducted and provide a statement regarding the status of compliance of the operation within 90 days after completion of the inspection. The operator of the mining operation is responsible for filing an application with the County to request an inspection and shall be responsible for paying the County’s costs in conducting the mine site inspection.

16. “**Applicant/Operator**: Requirements extend to the property owner and any person, lessee, tenant or sub-tenant, operator, individual, firm, association, corporation, organization, Limited Liability Company or partnership, or any city, county, district, or the state or any department or agency thereof for any disturbance or improvements to the mined lands. The applicant/operator may include an agent or other interested party, and any heir or successor in interest in the project land use by sale or by lease of all or of a portion of the mine site including land use within any or all of the mine structures or areas on the mine site.

17. **Project Account:** As determined necessary on a case by case basis, the applicant/operator shall deposit funds with the County necessary to compensate staff time and expenses for review of compliance monitoring reports and site inspections. The project account number for this Mining CUP is AP20170102. This is an actual cost project with a deposit account to which hourly charges are assessed by various county agency staff, including but not limited to: Land Use Services, Public Works, and County Counsel.
Upon notice, the applicant shall deposit additional funds to maintain or return the account to a positive balance. The applicant/operator is responsible for all expenses charged to this account.

Definitions

18. **Minerals:** Include any naturally occurring chemical element or compound, or groups of elements and compounds, formed from organic and inorganic processes. Clay, sand, gravel, rock, decomposed granite, salts, alumina, silica, alkali, topsoil or growth medium, organic humus and gems represent the aggregate of different minerals.

19. **Produced Minerals:** Produced Minerals as defined in CCR §3501 includes all minerals sold, given or otherwise moved off the site of the operation, as defined in the approved reclamation plan. Recycled products (e.g. broken concrete, bricks, asphaltic concrete, etc.) or stockpiles of mineral products that remain on the site are not produced minerals for purposes of CCR §3695(b).

20. **Construction and Demolition (C&D):** Materials left onsite shall be deemed as waste material produced in the process of site clearing activities, construction, renovation, or demolition of structures of all types to include roads and bridges. Waste materials include, but is not limited to concrete, asphalt, wood, metals, gypsum wallboard and brick. The Financial Assurance Cost Estimate shall include costs to remove C&D materials to an approved offsite facility that is permitted to receive such materials.

21. **Exploration or Prospecting:** Includes the activities in search for minerals by geological, geophysical, geochemical or other techniques, including, but not limited to, sampling, assaying, drilling, or any surface or underground works needed to determine the type, extent, or quantity of minerals present.

22. **Surface Mining Operations:** Surface mining operations include all, or any part of, the process involved in the mining of minerals on mined lands, borrow pitting, segregation and stockpiling of mined materials (and recovery of the same).

23. **Ownership:** The person(s) involved in the ownership of the property include all persons having interest in the ownership of the surface and subsurface property, including mineral rights. If the applicant/operator is not the recorded owner(s) of the property must submit a signed statement by the property and mineral rights owner(s) authorizing the Applicant to act on their behalf.

24. **Operator:** The Operator includes the Applicant and any person who is engaged in surface mining operations, and others contracted to conduct operations on his or her behalf, except a person who is engaged in surface mining operations as an employee with wages as his or her sole involvement and compensation.
25. **Operations**: Surface mining operations include all, or any part of, the process involved in the mining of minerals on mined lands, borrow pitting, segregation and stockpiling of mined materials (and recovery of same).

26. **“Mined Lands”**: Include the surface, subsurface, and groundwater of an area in which surface mining operations will be, are being, or have been conducted, including private ways and roads appurtenant to any such area, land excavations, workings, mining waste, and areas in which structures, facilities, equipment, machines, tools, or other materials or property which result from, or are used in, surface mining operations are located.

27. **Parcel Map**: The applicant/operator shall, prior to final inspection for reclamation and release of the financial assurance, record a parcel map for Assessor Parcel Number 0498-232-47 and any other parcel(s) where unconsolidated fill is part of the final reclamation. The parcel map shall indicate those areas backfilled with uncompacted material and designate said areas as unbuildable. At such time a California Building Code (CBC) compaction report has been approved by Building and Safety, that particular area can have the building restriction removed.

28. **Aggregate Removal**: The applicant shall not sell or otherwise move off the mine site any sand, gravel, or other produced minerals to a public agency unless the operator certifies, under penalty of perjury, that the mining operation is identified in the AB 3098 List published pursuant to PRC Section 2717(b).

**Ongoing Requirements**

29. **Human Remains/Funeral Objects**: If human remains or funeral objects are encountered during any activities associated with the project, work in the immediate vicinity (within a 100-foot buffer of the find) shall cease and the County Coroner shall be contacted pursuant to State Health and Safety Code Section 7050.5 and that code enforced for the duration of the project.

   *If the remains are thought to be Native American, the coroner will notify the NAHC, which will then notify the Most Likely Descendent (MLD). At this time, the person who discovered the remains will also contact Gary Jones, Caltrans District 8 Native American Coordinator at (909) 383-7505 so that they may work with the MLD on the respectful treatment and disposition of the remains. Further provisions of PRC Section 5097.98 are to be followed as applicable.*

30. **Native American Cultural Resources**: In the event that Native American cultural resources are discovered during project activities, all work in the immediate vicinity of the find (within a 60-foot buffer) shall cease and a qualified archaeologist meeting Secretary of Interior standards shall be hired to assess the find. Work on the other portions of the project outside of the buffered area may continue during this assessment period.
LAND USE SERVICES DEPARTMENT – Land Development Division – Drainage (909) 387-8311

31. **Tributary Drainage**: Adequate provisions should be made to intercept and conduct the tributary offsite – on site drainage flows around and through the site in a manner, which will not adversely affect adjacent or downstream properties at the time the site is developed.

32. **Natural Drainage**: The natural drainage courses traversing the site shall not be occupied or obstructed.

COUNTY FIRE DEPARTMENT – Community Safety Division (760) 995-8190

33. **Jurisdiction**: The above referenced project is under the jurisdiction of the San Bernardino County Fire Department herein (“Fire Department”). Prior to any construction occurring on any parcel, the developer shall contact the Fire Department for verification of current fire protection requirements. All new construction shall comply with the current Uniform Fire Code requirements and all applicable statutes, codes, ordinances and standards of the Fire Department.

34. **Access**: The development shall have a minimum of one point of vehicular access for fire/emergency equipment access and for evacuation routes. The primary access route shall comply with the minimum requirements for fire protection and/or emergency response with applicable local ordinances, codes, and/or fire protection standards.

35. **Fire Extinguishers**: Hand portable fire extinguishers are required. The location, type, and cabinet design shall be approved by the Fire Department.

PRIOR TO NEW LAND DISTURBANCE AND THROUGHOUT THE PROJECT
THE FOLLOWING SHALL BE COMPLETED

LAND USE SERVICES DEPARTMENT – Planning Division (909) 387-8311

36. **Special-status Plant Protection BIO-6, BIO-7, BIO-8, BIO-9, BIO-10, BIO-11, BIO-12, BIO-13**: Special-status plants (as listed in County SBCC Section 88.01.060 (et al.), Desert Native Plant Protection, and those species identified/listed in Mitigation Measure BIO-6) and growing within the disturbed areas will be salvaged and/or propagules will be relocated to an appropriate location within the mine site that will not be disturbed by future mine activities. Prospective transplanting sites will be inspected and approved by a qualified botanist prior to removal of vegetation for the project. Plant protection efforts shall be performed as described in the Mine Reclamation Plan Appendix 2, “SR-58 Kramer Junction Expressway FEIR Appendix G, Environmental Commitments Record”. Transplanting efforts shall be consistent with the Kramer Junction Borrow Pit Revegetation Plan dated October 2017 (revised per DMR Comments February 2018).
37. **Vegetation Removal - BIO-18:** Vegetation removal should occur between September 15 and February 15, outside of migratory bird breeding season. Vegetation removal outside of this timeframe can occur following preconstruction surveys as prescribed in the Mine Reclamation Plan Appendix 2, “SR-58 Kramer Junction Expressway FEIR Appendix G, Environmental Commitments Record”.

38. **Transplanting:** Transplanted or propagated plants will be maintained for a minimum of three years, or until a qualified biologist(s) determine that the plants have been successfully established (e.g., plants are vigorous, flower, and produce seed). Successful re-establishment of the plants will be based on the replanted areas achieving density and diversity standards in accordance with the approved Revegetation Plan.

39. **CDFW Lake and Streambed Alteration Agreement (LSAA):** Temporary Environmentally Sensitive Area (ESA) fencing shall be installed around washes that have not been identified as impacted by the Expressway project in the California Department of Fish and Wildlife (CDFW) LSAA No. 1600-2016-0072-R6.

40. **Tortoise Fencing and Maintenance ITP No. 2081-2016-004-R6:** Temporary desert tortoise fencing shall be placed around all borrow sites, ponding sites and haul roads. This fence shall be inspected daily during fence installation and during and immediately after heavy rainfalls per CDFW Incidental Take Permit (ITP) No. 2081-2016-004-R6 for the SR-58 Kramer Junction Expressway (aka Kramer Realignment) Project.

41. **Field Contact Representative or Resident Engineer – BIO-22:** Operator will work in conjunction with and under the authority of the Caltrans Field Contact Representative or Resident Engineer who will serve as the environmental compliance monitor for the project and who will act on the advice of the Authorized Biologist(s) and Biological Monitor(s) to ensure conformance with the protective measures set forth in the biological opinion as described in the Mine Reclamation Plan Appendix 2, “SR-58 Kramer Junction Expressway FEIR Appendix G, Environmental Commitments Record”.

42. **Biological Resource Information Program – BIO-23, BIO-25, BIO-32:** Prior to jobsite activity at the borrow pit, Kiewit employees shall receive training in Caltrans Worker Environmental Awareness Program (WEAP) as described in the Mine Reclamation Plan Appendix 2, “SR-58 Kramer Junction Expressway FEIR Appendix G, Environmental Commitments Record”.

43. **Preconstruction Surveys – BIO-14, BIO-19, BIO-24:** Pre-construction surveys shall take place as described in the Mine Reclamation Plan Appendix 2, “SR-58 Kramer Junction Expressway FEIR Appendix G, Environmental Commitments Record”.

44. **Authorized Biologists and Biological Monitors – BIO-20, BIO-27, BIO-28, BIO-29, BIO-30, BIO-31:** Biological monitors meeting Caltrans’ standards shall be present and perform preconstruction surveys and ongoing duties as required in the manner described in the Mine Reclamation Plan Appendix 2, “SR-58 Kramer Junction Expressway FEIR Appendix G, Environmental Commitments Record”.

**CEQA Mitigation Measures shown in italics**
45. **Species Protection – BIO-15, BIO-16, BIO-17, BIO-21, BIO-22, BIO-26, BIO-27, BIO-28, BIO-32, BIO-33:** Operator shall work directly with Caltrans’ Field Contact Representative/Resident Engineer, Authorized Biologists, and Biological Monitors to ensure all species protection mitigation is adhered to as described in the Mine Reclamation Plan Appendix 2, “SR-58 Kramer Junction Expressway FEIR Appendix G, Environmental Commitments Record”. Should any protected species be injured or killed during the course of construction, the project monitor and Caltrans Resident Engineer shall be immediately notified and the authorized biologist will handle the incident in the manner prescribed.

46. **Invasive Species BIO-38:** Measures to minimize the introduction or spread of nonnative species shall include cleaning all equipment and vehicles with water (or another Caltrans approved method) to remove dirt, seeds, vegetative material, or other debris before entering and upon leaving the project site and the removal and disposal offsite of existing nonnative species.

47. **Paleontological Protection - PA-2:** Prior to jobsite activity at the borrow pit, operator earthmoving personnel shall receive a one-hour required preconstruction paleontological awareness training prior to onsite excavation. Operator shall submit to the County documentation of this training, such as sign-in sheets and hardhat stickers to establish communications protocols between construction personnel and the Principal Paleontologist, as described in PA-2 of the Mine Reclamation Plan Appendix 2, “SR-58 Kramer Junction Expressway FEIR Appendix G, Environmental Commitments Record”.

48. **Haul Road Access:** Road access and transport across private property shall be via authorized agreement with affected property owner(s). Such agreements shall be notarized and recorded against the property title with the San Bernardino County Recorder.

49. **Avoidance Areas:** Authorization is not granted under this Mining CUP to disrupt portions of the 100-acre parcel identified as APN 0498-232-47 outside of those areas shown on the Mine Plan map for designated access and haul routes and described as 63.75 acres set aside for active mining use.

50. **Water Well Monitoring:** As a means of monitoring the effects of groundwater withdrawal on existing wells on adjacent residential properties, the applicant shall agree to the following measures in writing prior to producing/exporting fill material.

   a. The Mine Operator will install piezometers in the existing onsite wells and the adjacent residential property owner shall submit monthly readings of depth to water to the County Geologist.

   b. If groundwater reading, over a 6-month period, indicates that the Mine operations are directly adversely affecting the water levels in an individual well, the County, in consultation with the mine operator and the affected well owner, will first determine
whether the affected well can be feasibly rehabilitated by lowering the pump and motor in the case of submersible pumps or by lowering the pump assembly in the case of vertical turbine motors. In addition, the well could be cleaned and the pump and/or motor replaced if necessary. If the existing well cannot be rehabilitated, the County in consultation with the Mine operator and the affected well owner, will determine whether the well can be deepened or replaced.

c. The Mine Operator will be responsible for the cost of rehabilitating, deepening, or replacing the affected well, including the costs of permitting, equipment, and labor.

d. The Applicant/Operator shall provide documentation to the County Geologist of compliance with the State Water Resources Control Board pursuant to Water Code Section 5004.

e. If implementation of the above conditions of approval do not resolve impacts to an impacted well, the mine operator’s groundwater pumping will be limited, as determined by the County Geologist, until water levels in an impacted individual well return to pre-impact conditions.

51. **Dust Control Plan:** The applicant/operator is responsible for meeting all air quality requirements, including, securing an approved Dust Control Plan pursuant to SBCC Chapter 88.02 and Section 88.02.040 and approved by the Mojave Desert Air Quality Management District (MDAQMD). Once approved, the Plan shall be submitted to and kept on file with the Land Use Services Department. The Plan shall, at minimum, include the following aspects:

a. Truck traffic will be limited to 20 MPH on all site roads;

b. All clearing, grading, earth moving, and excavation activities will cease during period of winds greater than 25 miles per hour (averaged over one hour), or when dust plumes of 20 percent or greater opacity impact public roads, occupied structures, or neighboring property, and in conformance with Mojave Desert Air Quality Management District (MDAQMD) regulations;

c. All roads, driveways, and mining areas not covered with gravel or treated with protective soil amendments, shall be kept wetted while being used; and,

d. The applicant/operator shall ensure that any portion of the site to be disturbed shall be moisture conditioned prior to the onset of earth-moving activities.

e. The Dust Control Plan should identify an individual responsible for dust mitigation and this individual’s name and contact telephone number shall be clearly posted on a project boundary sign visible to the public for feedback purposes.
52. **Archaeological Resources:** The developer/property owner shall submit a letter to the County Land Use Services Department - Planning Division (County) agreeing to adhere to the following requirements:

- In the event archaeological resources are uncovered during earthmoving activities, all work in that area shall cease immediately and the County shall be notified. A qualified archeologist shall be retained to access the findings, and if necessary provide appropriate disposition of the resources. Earthmoving shall be diverted temporarily around the deposits until they have been evaluated, recorded, excavated, and/or recovered as necessary. Earthmoving shall be allowed to proceed on the site when the archaeologist, in consultation with the appropriate Native American Tribe(s), the County, and the qualified archaeologist determines the resources are recovered to their satisfaction.

**SAN BERNARDINO COUNTY MUSEUM – Earth Sciences Division (909) 798-8616**

53. **Paleontological Resources:** The developer/property owner shall submit a letter to County Land Use Services Department - Planning Division (County) agreeing to adhere to the following requirements:

- In the event paleontological resources are uncovered during earthmoving activities, all work in that area shall cease immediately and the County shall be notified. A qualified paleontologist shall be retained to access the findings, and if necessary provide appropriate disposition of the resources. Earthmoving shall be diverted temporarily around the deposits until they have been evaluated, recorded, excavated, and/or recovered as necessary. In consultation with the Project proponent, the County, and a qualified paleontologist shall develop a plan of mitigation which shall include salvage excavation and removal of the find, removal of sediment from around the specimen (in the laboratory), research to identify and categorize the find, curation of the find in a local qualified repository, and preparation of a report summarizing the find.

**LAND USE SERVICES DEPARTMENT – Land Development Division – Drainage (909) 387-8311**

54. **FEMA Flood Zone:** The project is located within Flood Zone D according to FEMA Pane Number 06071C3200H dated 08/28/2008.

55. **Topo Map:** A topographic map shall be provided to facilitate the design and review of necessary drainage facilities.

**PUBLIC HEALTH – Environmental Health Services (DEHS) (800) 442-2283**

56. **Onsite Well Operation:** Prior to the commencement of mining activities evidence shall be submitted to the DEHS/Water Section for approval that the well is constructed to public water supply standards, will provide the quantity of water projected as required for the Project,
meets quality standards for domestic and industrial use, and the well is properly permitted with the County. For information, call DEHS/Water Section at (909) 387-4666.

a) After mining operations have concluded, any well, exploratory hole or test hole which is abandoned, out of service, or otherwise left unattended shall have a temporary cover over the well or opening which prevents the introduction of undesirable material into the well or hole, and ensures public and wildlife safety pursuant to Section 115700 of the California Health & Safety Code.

b) Upon final reclamation, evidence shall be provided to the DEHS/Water Section that all wells, exploration holes or test holes, as defined by DWR are properly sealed.

DEPARTMENT OF PUBLIC WORKS – Surveyor (909) 387-8149

57. Survey Monumentation: If any activity on this project will disturb any land survey monumentation, including but not limited to vertical control points (benchmarks), said monumentation shall be located and referenced by or under the direction of a licensed land surveyor or registered civil engineer authorized to practice land surveying prior to commencement of any activity with the potential to disturb said monumentation, and a corner record or record of survey of the references shall be filed with the County Surveyor (Section 8771(b) Business and Professions Code).

58. Record of Survey: Pursuant to Sections 8762(b) and/or 8773 of the Business and Professions Code, a Record of Survey or Corner Record shall be filed under any of the following circumstances:
   a. Monuments set to mark property lines or corners;
   b. Performance of a field survey to establish property boundary lines for the purposes of construction staking, establishing setback lines, writing legal descriptions, or for boundary establishment/mapping of the subject parcel;
   c. Any other applicable circumstances pursuant to the Business and Professions Code that would necessitate filing of a Record of Survey.

ONGOING MINING OPERATIONAL CONDITIONS

LAND USE SERVICES – Planning Division (909) 387-8311

General Operations

59. Best Management Practices (BMP’s): The operator shall implement the BMP’s procedures. BMP provisions shall include the following:
- Good Housing Keeping – Dust minimization, waste spills, discharges.
- Preventive Maintenance – Minimize spills, and onsite leaks, prompt maintenance.
- Spill and Leak Preventive Response – In place spill procedures and controls.
- Material Handling and Waste Mgmt. – Waste covering, storm water diversion practices, waste clean ups.
- Implement Erosion and Sediment Controls – Sediment and Erosion Stabilization.
- Employee Training Program- BMP Training.
- Exposure Minimization – Storm resistant shelters to prevent contact of storm water with mining materials.
- Storm Water Containment & Discharge Reduction – BMP’s that divert, reuse, contain or reduce volume of storm water runoff.

60. **Operations:** Extraction and processing operations shall proceed in accordance with the Kramer Junction Borrow Pit Mining CUP and Reclamation Plan 2018M-01 Conditions of Approval. Soil extraction, stockpiling and transport will adhere to the mining operations outlined in the Mine Reclamation Plan. No crushing or sorting has been authorized under this plan.

61. **Noise Level:** Should an acoustical study be required, and the results of such study indicate operations do not comply with the County Standards under SBCC Section 83.01.080; the Planning Director may require modification of such operations. Mitigation measures may include:
   
   a. Restriction of activities to certain times of the day.
   b. Restriction on the location of activities to certain times of the day.
   c. Mitigation agreed to by aggrieved party(ies).

62. **Blasting:** Blasting is not a part of this permit approval. No blasting shall occur, and no explosives shall be stored onsite.

63. **Ore Processing:** The borrow pit material will be loaded directly into trucks for transport to the construction alignment to the north. No crushing or screening or any process plant facilities shall be utilized onsite.

64. **Designated Haul Roads:** Haul roads shall be limited to those designated on the Mine Plan. No hauling of borrow pit material shall occur on public roadways.
65. **Slopes:** In accordance with the Mine Reclamation Plan 2018M-01 prepared by Lilburn Corporation dated February 2018, the operator shall insure the following mitigation for slope stability and benching to minimize failure.

- Visual monitoring during excavation activities during mining should be included in the operational plan.
- Overall final cut slopes in the rock material should be no steeper than design angles up to the maximum proposed height.
- Slopes should be protected with berms and/or levees as necessary to prevent slope erosion in the areas where natural slopes drain onto the reclaimed slopes.
- Final reclaimed fill slopes composed of overburden shall be no steeper than 3(h):1(v) to the maximum proposed heights.

66. **Test Plots:** A minimum of four (4) 10 meter test plots in the eastern portion of the site shall be established.

- Test plots will include surface ripping/no seeding of a control plot, and surface ripping and seeding for two additional test plots with the proposed seed mixture shown on the Kramer Junction Reclamation Plan and cited in the Revegetation Plan, dated October 2017 (revised per DMR Comments February 2018), prepared by Jericho Systems, Inc.
- Additional test plots will be established if the initial tests, as well as any active revegetation areas are not successful.
- The seed mix consisting of native plant species common to the Mojave Desert, as prescribed in the Reclamation Plan and the Revegetation Plan, shall be utilized to re-vegetate the site at a rate of approximately 100 percent coverage to help minimize soil erosion on the site. Seeding shall be conducted during the appropriate time of year (preferably November through March) to take advantage of cooler temperatures and higher amounts of natural precipitation to increase the chances of successful germination throughout the site.

67. **Sign Maintenance:** The applicant/operator shall regularly review the adequacy of directional signs, safety signs, and/or other onsite signs. Care should be taken to ensure that signs do not become blocked by vegetation or become illegible from dirt or deterioration. As new phases are developed, additional signs may be needed. In evaluating the adequacy of signs, they should be considered from the viewpoint of a first-time visitor on the property, such as a vendor or a contractor.

68. **Company Identification:** The applicant shall ensure that haul truck contractors provide Company identification signs on all company owned and operated haulage trucks used on
public roads. The signs shall be located on both sides and the rear of each truck. The information contained on the sign shall include:

<table>
<thead>
<tr>
<th>On the rear of the truck:</th>
<th>On the side of the truck:</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. How am I driving?</td>
<td>A. Company name</td>
</tr>
<tr>
<td>B. Truck number</td>
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The signing shall be printed in a minimum of 3" high lettering. The applicant shall have a person or an answering machine available during operating hours to answer the phone that corresponds to the phone number on the truck. The persons answering the phone number shall be instructed as to how to take the calls, how to affect a solution, and be responsible for returning a call to the complainant with results of investigation. The applicant shall keep a log of all calls received and shall include documentation of response and/or resolution of complaints. The log shall be made available to the County upon request.

69. **Onsite Lighting:** The area of illumination from any onsite lighting shall comply with SBCC Section 83.07.040 Glare and Outdoor Lighting. Light pollution shall be minimized and confined within the site boundaries to limit impacts to surrounding properties. The glare from any luminous source, including onsite lighting shall not exceed one-half (0.5) foot-candle at property line. Onsite lighting shall be fully shielded, diffused, or directed in a manner to avoid glare directed at adjacent properties, roadways or any light spill into any wildland areas surrounding the site that might affect nocturnal animals. No light shall project onto adjacent roadways in a manner that interferes with on-coming traffic. All lighting shall be limited to that necessary for maintenance activities, security and safety purposes. All signs proposed by this project shall only be lit by steady, stationary, shielded light directed at the sign.

70. **Site Maintenance:** The applicant/operator shall maintain the premises in a neat and orderly manner at all times. All refuse generated at the premises shall at all times be stored in approved containers and shall be placed in a manner so that visual or other impacts and environmental public health nuisances are minimized. All refuse not containing garbage shall be removed from the premises at least one time per week, or as often as necessary to minimize public health nuisances. Refuse containing garbage shall be removed from the premises at least two times per week, or as often as necessary to minimize public health nuisances, by a permitted hauler to an approved solid waste facility. For information, call DEHS/LEA at (800) 442-2283.

**Environmental Protection**

71. **Chemical Spills/Leakage:** All chemical spills or leakage of petroleum products during mining or reclamation activities shall be remediated in compliance with applicable state and local regulations regarding cleanup and disposal of the contaminant released. The contaminated waste shall be collected and disposed of at an appropriately licensed disposal or treatment facility.
In the event of any soil contamination onsite, the applicant/operator shall remove any soils that become chemically contaminated to a County approved disposal site so as to preclude any chemical leaching into the local ground water supply over time.

72. **Equipment Emission Reduction and Idling:** The mine operator shall maintain and operate construction equipment so as to minimize exhaust emissions. During mining, trucks and vehicles in loading and unloading queues shall have their engines turned off when not in use, to reduce vehicle emissions.

73. **Vehicle Maintenance:** The mine operator shall ensure that all equipment shall be properly tuned and maintained in accordance with manufacturer’s specifications. Vehicle maintenance, servicing, and fueling will be accomplished onsite by a mobile maintenance truck and Best Management Practices shall be implemented. All used fluids will be removed from the equipment and from the site following standard regulations. No used fluids will be stored onsite.

74. **Fuel Sources:** The mine operator shall ensure onsite mobile equipment, including lighting, is powered by alternative fuel sources (i.e., methanol, natural gas, propane, or butane) as feasible. Commercial power shall be used when feasible.

75. **Exhaust Control Measures:** The operator shall comply with all existing and future EPA (Clean Air Non-road Diesel Rule-May 2004), CARB and MDAQMD regulations related to diesel-fueled trucks and equipment, which may include among others: (1) meeting more stringent emission standards; (2) retrofitting existing engines with particulate traps; (3) use of low sulfur fuel; and (4) use of alternative fuels or equipment.

Operation of all off-road and on-road diesel vehicles/equipment shall comply with the County Diesel Exhaust Control Measures (SBCC, Section 83.01.040 (c)) including but not limited to:

a. Equipment/vehicles shall not be left idling for period in excess of five minutes;

b. Engines shall be maintained in good working order to reduce emissions;

c. Onsite electrical power connections shall be made available where feasible;

d. Ultra low-sulfur diesel fuel shall be utilized;

e. Electric and gasoline powered equipment shall substitute for diesel powered equipment where feasible;

f. Signs shall be posted requiring all vehicle drivers and equipment operators to turn off engines when not in use;
g. In addition, all on-road diesel trucks shall not idle more than five minutes per truck trip or per day on the Project site.

76. Trackout and Spills: The mine operator shall take actions sufficient to prevent project-related trackout onto paved surfaces and cover loaded haul vehicles while operating on publicly maintained paved surfaces. The mine operator shall clean-up project-related trackout or spills on publicly maintained paved surfaces within 24 hours.

Reclamation


78. Reclamation Time Schedule: Reclamation shall be initiated at the earliest possible time on those portions of the disturbed lands that will not be subject to further disturbance by the surface mining operation.

79. Barriers/Signage: Safety barriers and signage per MSHA requirements shall be maintained around the mined slopes.

80. Stockpiling: Onsite materials shall not be stockpiled adjacent to an active drainage unless adequate protective measures are implemented. Adequate measures shall consider the most adverse conditions the stockpile will likely experience. Open storage piles susceptible to wind erosion shall be watered daily/or as needed, or shall be installed with temporary coverings to control PM\textsubscript{10} emissions, and be limited in height to 35 feet.

81. Growth Medium Stockpiles: The operator shall stockpile all topsoil and vegetation away from areas to be disturbed. Stockpiled topsoil shall be identified with clearly labeled signs stating “Topsoil – Do Not Disturb” and stored separately from silt and overburden material stockpiles and protected to preserve as much of the organic material and seeds as practicable. Locations for these topsoil stockpiles are to be identified in the Mining Plan.

Stockpiles shall be maintained with temporary erosion control methods, and shall be stabilized through establishment of temporary vegetative cover or other acceptable means of surface treatment for prolonged storage periods. At the time of reclamation, areas being reclaimed shall have the stockpiled growth medium and vegetation spread over them. Revegetation shall be supplemented by broadcast seeding with native and locally adapted seed and planting of established seedlings and/or shrubs in accordance to the approved Reclamation Plan.

82. Product Stockpiles: Product stockpile heights shall be maintained at no higher than 35’ during the life of the project. Should the project go into idle status, the product stockpiles
shall be stabilized or removed as a condition of an Interim Management Plan (IMP) as required by SMARA, Section 2770(h)(1).

83. Graded Surfaces Stabilized: The mine operator shall stabilize graded site surfaces upon completion of earth moving activity when subsequent earth moving activity is delayed or expected to be delayed more than 30 days, except when such a delay is due to precipitation that dampens the disturbed surface sufficiently to eliminate visible fugitive dust emissions.

84. Slope Monitoring: Slope monitoring shall be implemented to assure that unnecessary hazards are not created with the active or final reclaimed slopes. A qualified independent California Certified Professional Civil Engineer and/or Engineering Geologist shall complete a stability assessment of existing and new quarry development areas when deemed necessary by the County inspector. The analysis shall identify and discuss significant structural features or indications of potential instability encountered.

85. Seed Types and Amounts: A unique seed mix has been prescribed for the project site to promote a plant community similar to that found onsite prior to disturbance. The seed mix will serve as a guideline for the revegetation plant community. Seed types and amounts will conform to the site’s Revegetation Plan Update prepared by Jericho Systems, Inc., dated October 2017 (revised per DMR Comments February 2018). The seed mix will be applied based on the identified seeding methods and rates as shown in the Revegetation Plan.

86. Revegetation Annual Monitoring: The project biologist will document the progress of the revegetation effort at the Kramer Junction Borrow Pit site and submit Annual Maintenance and Monitoring reports to the County of San Bernardino as necessary. Annual reports are due by December 31st of each year.

87. Revegetation Attainment: Revegetation will be deemed successful when all success criteria have been achieved on an average property-wide basis. If these criteria have not been achieved, maintenance seeding and monitoring will continue annually until success criteria has been met.

88. Financial Assurances - Re-vegetation: Re-vegetation in arid areas is tenuous at best and, therefore, the applicant shall provide in the Financial Assurance Cost Estimate, the costs to monitor and report on revegetation, incidental disturbance and erosion control for a time period of five (5) years following the termination date of operation.

PUBLIC HEALTH – Environmental Health Services (DEHS) (800) 442-2283

89. Noise Operations: Noise levels shall be maintained at or below County Standards, SBCC Section 83.01.080.

90. Refuse: Refuse generated at the premises shall at all times be stored in approved containers and shall be placed in a manner so that visual, or other impacts, and environmental public
health nuisances are minimized and complies with the SBCC, Section 33.0803 et seq. For information, please call DEHS/Local Enforcement Agency (LEA) at (800) 442-2283.

91. **Solid Waste Removal:** No landfilling of wastes shall occur onsite. In the event that refuse is stored onsite, all refuse not containing garbage shall be removed from the premises at least 1 time, and refuse containing garbage shall be removed from the premises at least 2 times per week, to an approved solid waste facility in conformance with SBCC Section 33.0803 et seq. For information, please call DEHS/LEA at (800) 442-2283.

92. **Portable Toilets:** An adequate number of portable toilets shall be provided and maintained so as not to create a public nuisance and shall be maintained by a DEHS permitted pumper. Portable unit shall provide hand washing capacity. Units shall be serviced at least weekly while in use. Submit a copy of the service contract from an approved pumper to DEHS. For information, call DEHS/Wastewater Section at (800) 442-2283.

93. **Ponding Water:** Applicant/Operator shall manage ponding water to avoid vector breeding, e.g., mosquitoes, midges, and gnats.

### PRIOR TO FINAL CLOSURE
The Following Conditions Shall Be Met:

**LAND USE SERVICES – Planning Division (909) 387-8311**

94. **Equipment:** At the time of termination of the operation for any reason, all equipment, structures and refuse associated with the operation shall be removed from the site, all hazards mitigated, and reclamation initiated as per the approved Mine Reclamation Plan 2018M-01.

95. **Wells:** Upon final reclamation, evidence shall be provided that all wells not retained for post-operation uses, exploration holes, or test holes, as defined by DWR Bulletin 74-81 as revised in 1988, or the latest revision, are destroyed in accordance with DEHS regulations and in such a manner that will no longer be a hazard to the health and safety of people and wildlife.

96. **Access and Haul Roads:** All access and haul roads onsite, not identified as retained for post-operation uses, shall be reclaimed at the conclusion of ground-disturbing activities.

97. **Site Re-Contour:** The applicant/operator shall re-contour the site at the conclusion of operations (platforms, stockpiles, settling ponds, etc.). The site should resemble natural landforms where possible.

98. **Reclamation Verification:** As portions of the site are reclaimed, they shall be identified on a map. The final map shall be provided to County Planning Division for review and approval.
99. **Reclamation Completion:** Following reclamation verification and release of Financial Assurances pursuant to CCR Section 3805.5, Planning will prepare a “Notice of Reclamation Plan Completion” on a form to be approved by the County Recorder’s Office. The operator shall pay any and all review and recording fees.

**CONCLUSION OF CONDITIONS**
March 2, 2018

SUBJECT Water Supply for the Kramer Junction Borrow Pit Mine and Reclamation Plan

Background

The County of San Bernardino is reviewing the potential environmental impacts for a Mine Reclamation Plan for the Kramer Junction Borrow Pit (Proposed Plan) submitted by Kiewit Infrastructure West Co. (Kiewit). The borrow pit will be the source for up to 3 million cubic yards (mcy) of material for the State Route 58 (SR-58) Kramer Junction Expressway Project (Project). The California Department of Transportation (Caltrans) is realigning and widening to four lanes approximately 13 miles of SR-58 from the Kern County line east to about 7.5 miles east of Kramer Junction. Caltrans approved an Environmental Impact Report/Environmental Impact Statement (EIR/EIS) for the SR-58 Kramer Junction Expressway Project in July 2014.

The purpose of the Proposed Plan is to permit the borrow site for a three-year period to provide fill material for construction of the SR-58 Kramer Junction Expressway Project. The SR-58 improvements are being constructed as a joint project by Caltrans and the Federal Highway Administration (FHWA) tentatively starting in early 2018 and currently scheduled for completion by early 2021.

The Proposed Plan site is located approximately two miles east of the SR-58 and Boron interchange and one mile east of the Kern County boundary (see Figure 1 - Regional Map). Kiewit is proposing to utilize approximately 63.75 acres of the privately-held 100-acre parcel for a mining period of three years. The material will be transported to the new SR-58 alignment approximately 630 to 1,200 feet north of the project site through an easement with an adjacent property owner. No public roads will be utilized. Reclamation of the site will commence immediately upon termination of mining.

Caltrans included the proposed borrow site and access roads (described as Area 2 Borrow Area) in their project design and environmental review. Caltrans concluded in their National Environmental Policy Act/California Environmental Quality Act (NEPA/CEQA) Re-Validation Form (August 8, 2017) that the 2014 EIR/EIS remains valid with implementation of project design and mitigation measures for the potential impacts of the Kramer Junction Borrow Pit area. The County, acting as lead agency for the entitlement of the Mine Reclamation Plan, has determined that an Addendum to the EIR/EIS SR-58 Kramer Junction Expressway Project would be the appropriate documentation to comply with CEQA. Additionally, mitigation measures should be considered for any identified significant impacts to groundwater which is the sole-source of supply for nearby residences.
Proposed Water Supply

As discussed in Caltrans’ NEPA/CEQA Re-Validation Form, the proposed plan called for the use of a water well and construction of a 3,000 square-foot holding pond on the 100-acre parcel (APN 0498-232-47). A water supply is necessary to mitigate air quality impacts related to dust by providing dust control. The mine activities associated with the borrow pit would occur over a temporary, 3-year period for construction of the SR-58 improvement project. The mine operator intends 20-hour work days and use of an on-site water truck to wet down material (mined aggregate) and roads. Prior to trucks leaving the site for travel to the SR-58 construction site they would be wetted down. The estimated water use associated with these temporary activities is 16,000 gallons per day, or 17.7 acre-feet (af) per year. Based on 0.5 to 1 af of water required by a landscaped residence annually, this amount would be equivalent to approximately 20 to 30 residences.

The mine operator proposes to lease an existing well that was drilled at the southwest corner of APN 498-232-47 in the Spring of 2016. The well was drilled to a depth of 505 feet. The well would be able to provide the project’s dust control needs with about 7 hours of pumping per day.

The well and project area are within the Antelope Valley Groundwater Basin with a total surface area is approximately 1,010,000 acres (approximately 1,580 square miles). The Antelope Valley Groundwater Basin has an estimated storage capacity of 68,000,000 acre-feet (af). Recharge to the basin occurs primarily via runoff from the surrounding mountains and hills. Minor flow inputs to the groundwater basin are from the return of irrigation water and septic system effluent. Historical groundwater flows in the basin traveled towards the north from the San Gabriel Mountains and south and east from the Tehachapi Mountains. The well site is within a non-adjudicated basin; therefore, the owner has the right to utilize groundwater for an overlying use.

Because the water use is relatively minimal and considered temporary, the County of San Bernardino determined that a Water Supply Assessment is not necessary to determine the long-term (e.g. 20-year planning period) water supply availability. However, concerns have been raised by two individuals representing the interests of property located at 2882 Highway 58 E, Boron.

Groundwater Concerns

Individuals representing neighboring property, adjacent to the southwest corner of the 100-acre borrow area have submitted email correspondence to the County raising concern over the potential drawdown of the aquifer that also provides the sole-source of water to their property. They asked if a contingency plan would be in place to provide residents an alternative to the current water sources or assistance to make wells viable should they become dry.

County staff recommends the following Condition of Approval for the Mine Plan:
• The Mine Operator will, prior to issuance of a Mine ID and per agreement with adjacent well owner, install piezometers in the existing on-site well and the well(s) of adjacent property(s). Monthly readings of depth to water will be submitted to the County Geologist.

• If groundwater readings over a 6-month period indicate that the Mine operations are directly adversely affecting the water levels in an individual well, the County in consultation with the Mine Operator and the affected well owner, will first determine whether the affected well can be feasibly rehabilitated by lowering of the pump and motor in the case of submersible pumps, or by lowering the pump assembly in the case of vertical turbine motors. In addition, the well could be cleaned and the pump and/or motor replaced, if necessary. If the existing well cannot be feasibly rehabilitated, the County, in consultation with the Mine Operator and the affected well owner, will next determine whether the well can be deepened or replaced to provide a deeper screen interval.

• The Mine Operator will be responsible for the cost of rehabilitating, deepening, or replacing the affected well, including the costs of permitting, equipment, and labor.

• If implementation of the above conditions of approval do not resolve impacts to an impacted well, the Mine Operator’s groundwater pumping will be limited as determined by the county Geologist, until water levels in an impacted individual well until the well returns to pre-impact conditions.

Sincerely,

Cheryl A. Tubbs
Vice President
Property Owner Comments – Gunn Family Estate
March 22, 2018

San Bernardino County Planning Commission
Linda Mawby, Senior Planner
385 North Arrowhead Avenue
San Bernardino, CA  92415

Honorable Commissioners:

Re: Kramer Junction Borrow Pit

As successor Trustee of the Gunn Family Estate with a residential holding directly South of the proposed Mining Operation of the Kiewitt Infrastructure West Company, I would like to reiterate my concerns regarding this project in addition to those submitted by my sister, Terri Knight, in her March 22, 2018 letter.

I remain opposed to the use of any local groundwater for this project, and I wish to be heard at the hearing on April 5, 2018. Based upon the proposal, it appears that millions of gallons of water will be extracted from the local aquifer. I will never be convinced that this will not impact the desert environment and our access to water. One entity will benefit financially from this project, but all residents will be negatively impacted if the water table diminishes. In addition, I do not believe San Bernardino County should be allowed to take water from an aquifer that also serves Los Angeles and Kern Counties without advising residents there of the potential impact and gaining their approval.

I am specifically opposed to certain aspects of the Water Well Mitigation (Section 51) as currently written. I hope that rewording and revising occurs. My concerns are as follows.

a. Section 51 (b) reads, “If groundwater reading, over a 6-month period, indicates that the Mine operations are directly adversely affecting the water levels in an individual well, the County, in consultation with the mine operator and the affected well owner, will first determine whether the affected well can be feasibly rehabilitated by lowering the pump and motor in the case of submersible pumps or by lowering the pump-assembly in the case of vertical turbine motors.” To begin with, I do not believe that there would be any way to prove that the Mine operations were “directly adversely affecting the water levels,” so this wording is meaningless. How are groundwater readings alone going to determine what is “directly” causing a lowering of the water table? Furthermore, how long would it take to prove damage that could be potentially be permanent? The freeway will be built and any chance of recourse long past by the time this would be resolved. I noticed the provision that San Bernardino personnel are not held accountable. Therefore, before this project proceeds, I urge the County Geologist to explain, in writing, how a well-dependent landowner is going to prove that the water extraction is causing the lowering of the water table and explain what criteria will be used to show how to show the Mine operation directly adversely affects the water levels. The process of proving must be clear, scientifically feasible, and fair. The cost of evaluation whether or not the mine operation is affecting the water table must also be paid for by the Mine operator. I am concerned that millions of gallons of water are used, and the water table lowers. Then the Mine operators say, “Prove that it is the water being extracted to support my strip mining is causing the lowering of the water table, and you landowners pay someone to try and prove it.” We will not be rich enough to pay for something that is
impossible to prove. I believe that if water levels lower even after one month, water withdrawal should be halted without having to prove that the strip mining abatement is “directly adversely affecting the water levels” rather than waiting six months. If anything, it should be the Mine Operator who should have to prove that the water table is not being caused by the project if the water level lowers. The use of these six words (“directly adversely affecting the water levels”) demonstrate that this project proposal and environmental protection clause is a farce, and water extraction should be prohibited as residents are being asked to assume risk without any reasonable means to protect themselves.

b. “In addition, the well could be cleaned and the pump and/or motor be replaced if necessary.” This is another ridiculous statement. “Could”? “If necessary”? If water extraction is causing the water table to lower, the proposal is to possibly clean or replace the pump and/or motor? This is merely obfuscation. “Could” is not a precise term. Could God exist? Yes, he/she could. And, who determines “possibly”? This language is vague and unacceptable. If this project continues as planned the Mine Operator should be paying for all wells in the affected area to be cleaned, refurbished or replaced, deepened and maintained prior to receiving any profits from water sales to show that not only the Mine Operator will benefit from the depletion of a shared resource.

c. “If the well cannot be feasible rehabilitated” (I believe this should be “feasibly”), “the County in consultation with the Mine operator and the affected well owner, will next determine whether the well can be deepened or replaced into provide a deeper screen interval” (whatever that means). Again, this is not a serious project. This sentence does not even make sense and appears that words just thrown in to take up space. If I understand what was intended with this unclear sentence, or if am too ignorant to understand that it is correctly written, it appears that if the water table is lowered because of this project, the County will consult with the Mine operator. Why should the Mine operator have a say in this at all? The County and the well-dependent landowners are the only ones who should decide what happens from that point. This clause provides an opportunity for the Mine operator to stall and continue to pilfer community resources. The County must take responsibility for this project. The County must make it clear how long it normally takes a desert aquifer to return to “previous impact conditions” before it imposes band-aid solutions to the loss of water. The mitigation solutions do not address the reality of desert ecofriendly co-existence. Based upon our family’s experience in the desert, the water reservoir that we are dependent upon has been lowering over the decades. By deepening wells to mitigate the damage from this project, we are not only risking not having water when we turn on the faucet today, but we are pushing ourselves closer to the point that wells are not able to provide water. By conserving water, we hope that some technology will come along that will reverse the slow death of the desert’s aquifer. We are trying to buy time. To make the point metaphorically, in my opinion we well-dependent landowners are in a lifeboat with one jug of water that most likely will not be refilled in time for rescue, but we still hold on to hope, for us and our future generations. However, one person in the lifeboat wants to take a big straw and suck up a large portion of the water for his own benefit. The other people in the lifeboat are only being offered longer, “cleaned” straws. That is unethical and unacceptable.

d. In paragraph “c” I agree that the Mine operator be responsible for the cost of repairing wells. But the wells are not the only affected entity. The Mine operator must be financially responsible to replenish the aquifer if it is lowered and provide money in advance to San Bernardino County to guarantee that it can pay for all the mitigation proposals.

e. In paragraph “e” there should be no conditions that have to be met before water extraction limited or discontinued for the project. The only condition required should be that the water table is lowering.

If water extraction is going to occur no matter what, then I propose the following.

a. The County guarantees, at San Bernardino County expense, for current landowners using wells to be permanently provided water if water tables are lowered to a point which wells do not provide consumable
water and pay a fine of $1,000,000 to each affected property owner (except for the strip mining landowner, who would have caused the damage in the first place). This shows San Bernardino County is acting in good faith that this project is not going to impact well-dependent landowners.

b. The County takes control of water extraction and not the Mine operator.

c. Wells will be refurbished, deepened and/or replaced in advance of the project to show good faith and so all property owners benefit from water extraction.

d. The Mine operator will not be given any compensation for water extraction, as the Mine operator is already benefitting from potentially destroying the environment from the strip mining. Any monetary profits from water usage will be used by San Bernardino County to purchase properties (without current structures) along the freeway expansion route (one half mile on either side) that will never be developed (left as open space and squatters prohibited), and new wells never permitted to be drilled.

I also disagree with the strip mining at all. The proposed area is in a depression and there is no way that a 30 foot ditch will ever recover to a pristine state. Get the dirt from elsewhere.

Lastly, I oppose any usage of Castle Road for this project. Any traffic for this project should take place from the north of the project, where nobody lives except for squatters, or through the mine operator’s property. The road through the mine operator’s property should be as far away as possible from neighboring properties. If the Mine operator is going to benefit from strip mining, the Mine operator should be providing access through his property, and not using a road next to ours. Tons of dust will settle onto our property, and it will have to be cleaned and repaired by us, not the Mine operator. If Castle Road will be used despite my opposition, or another road in which any dust will fall on our property, I want this road to be maintained in pristine condition during the construction, and we be reimbursed a minimum of $100,000 to compensate for damage caused by the passing vehicles.

Sincerely,

Kenneth Gunn
March 22, 2018

San Bernardino County Planning Commission
Linda Mawby, Senior Planner
385 North Arrowhead Avenue
San Bernardino, CA 92415

Honorable Commissioners:

Re: Kramer Junction Borrow Pit vs Properties 232-82-0000, 0498-232-48-0000, 0498-232-81-0000

As successor Trustee of the Gunn Family Estate with a residential holding directly South of the proposed Mining Operation of the Kiewitt Infrastructure West Company, I would like to reiterate my concerns regarding this project. In general, my siblings and I are in favor of the effort to improve Highway 58. The deadly cost of the freeway remaining a two-lane thoroughfare and the increasing danger its existence creates to entry and egress to and from our property cannot be overstated.

I believe that the County has made an effort to address our concerns in the draft Conditions of Approval provided by Linda Mawby. Specifically, we are concerned about the use of our main avenue of access, Castle Road, and the depletion of our water resources. As indicated in item #49, I anticipate an agreement for use and maintenance of this unimproved road. With an expected traffic increase between the two access sites of 200 trips a day, this road will need to be maintained or it will become impassable.

Secondly, your staff was made aware of our concerns regarding the use of the on-site well at the construction location. Use of this well will undoubtedly affect the aquifer for all residents in the area. Item 51 of the Conditions of Agreement partially mitigates our distress as far as the monitoring and replacement process and we are very appreciative of this condition. We do, however, continue to be concerned that if and when there is a water loss, the recovery time will be too great. Waiting 6 months to determine the adverse affects the construction has on water levels could become an irreversible situation. I have perused the Environmental Impact documents and may have missed a water usage study. While the plight of the desert tortoise, burrowing owl and Joshua trees are important environmental issues, water for our grandparents’ home that has been a part of our lives for over 65 years remains a priority in our minds. Anything that can be accomplished to reassure us that our valuable resource of water will not be lost would be appreciated. I also want to assure that the items I noted above remain in the final Conditions of Agreement.

I want to thank you for your diligence in keeping us informed of the process. I particularly want to thank Linda Mawby for her professionalism and efficiency. She has provided appropriate notice and necessary information throughout the progression of the plan.

Sincerely,

Terri Knight
Dear Ms. Mawby,

Thank you for your information regarding the strip mining proposal adjoining our property (discussed below), and the apparent water table depletion project. My sister Terri Knight has already sent one response regarding the proposal.

I surveyed the area in question this weekend and saw that the so-called "proposed" area has already been fenced and grading has commenced near the fencing. I also saw that desert dirt roads have been widened from their original size" running East-West. This does not appear to be a project under consideration, but rather a project underway with significant outlays. I would like an explanation as to this apparent contradiction.

I am quite shocked and saddened at this "proposed" strip mining of our fragile desert ecosystem. During my lifetime I have seen the horrific and permanent effects of mining on the desert, and I am quite skeptical that any damage abatement will be successful given the proposed depression depth, the thin topsoil layer, and the location of the project, which is in a depression. The depression in this area -- as is -- has caused the formation of small dry lakes, and you cannot convince me that this project will not produce an even greater dry lake in the summer, causing perpetual dust, and in the winter a muddy muck that doesn't permit vegetation to survive. I would hope that an environmental study will be completed before this strip mining project proceeds, and exact details and advanced financial deposits provided for topsoil and plant replacement, and not just some vague plan of how in some other place California has transformed a strip-mined depression into a strawberry field. I also want to know whose water will be used to water replanted vegetation. Is the water going to be trucked in, or are we well-dependent residents going to be responsible for repairing the damage done by this project through further depletion of our water resource?

While at the desert this weekend, the wind was blowing clouds of dust from the graded areas. If dust and erosion were a consideration, why has construction begun? Again, this does not seem to be a project under review, but a project underway with damage already being done. I completely understand the need for this freeway expansion project, even though this will destroy our access to the desert to the north, and cut off wildlife (to include essential predators like the coyote) from passage to the surrounding areas. (I thought California was attempting to provide passages across freeways for wildlife that roam long distances, like the coyote and mountain lion). Our property as been the joy of our family for over 60 years. Now
we are being trapped between the railroad and military reservations to the south and a
freeway to the north. We will have to travel for miles to access the open desert. And to top if
off we get to be neighbors to a strip mine with heavy vehicles passing by every day? The
property owners that are offering to strip mine are not offering to allow construction vehicles
to pass through their property at the highway? That to me sounds absolutely ridiculous. If
they want to profit from a strip mine on their property, they should provide an access road
that goes through THEIR property and near THEIR house rather than requiring requiring trucks
pass next to our house and property. There is an airstrip that they are allowing to be
destroyed to strip mine, use that as the access road and not the road in front of our house.
They have an access road to their house, use that road and the airstrip if this is going
forward.

We did not fight the continuation of the freeway because of the loss of life from the S turn
west of our property, but this latest proposal appears to me to go too far. There are
mountains of mine tailings at the Rio Tinto mine, where our earth has been stripped of its
minerals while the surrounding areas are left in absolute decay and devoid of vegetation.
Take a drive through Boron to see how much strip mining has done for our community.
Poverty pervades the town. And what is one of the supposed land "restoration" proposals for
the open pit at Rio Tinto? It is being considered as a massive landfill for Los Angeles, as one
Rio Tinto museum guide admitted. So you can see why I am very skeptical about promised
remediation.

Why can't the construction company dig into that morass of Rio Tinto tailings and truck it to
freeway path on roads to the north that do not pass inhabited areas that would require dust
abatement or strip mining? Maybe the more obvious question is, who in their right mind
would want a strip mine next door to their property? Would you?

With respect to the water sucking project, I am against any water being drawn from our
depleted wells in the area to support strip mining. I suspect that if the road contractor
has found a "willing" provider of water in our immediate area, that person does not plan to
stay around after the damage is done and there is no water left for residents. We have been
in a prolonged drought, and the desert has been sacrificed enough to provide water to the
cities through aqueduct projects over the decades. Since the freeway expansion benefits the
cities and not Boron, let the cities provide the water for this project.

We have been approached on several occasions to sell our land to different parties (such as a
supposed representative to the solar plant to the east) and another party who wanted our
property to be used to store vehicles and parts. We have not budged and will not, and I hope
that depleting our water supply is not just one more strategy to force us off the land with San
Bernadino County an unwitting accomplice.
I would very much appreciate being kept apprised of any proposed action and meeting regarding the proposals, but with time to act to prevent damage to the environment and our property.

Thank you very much.

Kenneth Gunn
February 22, 2018

VIA EMAIL: Linda.Mawby@lus.sbcounty.gov
ORIGINAL SENT BY MAIL

Ms. Linda Mawby
San Bernardino County Land Use Services Department
385 North Arrowhead Avenue, 1st Floor
San Bernardino, California, 92415

KRAME R JUNCTION BORROW PIT
RECLAMATION PLAN
APN #0498-323-47, PROJECT #AP20170102

Dear Ms. Mawby:

The Division of Mine Reclamation (DMR) has reviewed the draft reclamation plan (plan) for the Kramer Junction Borrow Pit. The applicant, Kiewit Infrastructure West, is proposing to mine sand and gravel on 63.75 acres of a 100-acre site for three years, followed by approximately five years of revegetation and monitoring. The material will be utilized for construction of the Caltrans State Route 58 Expressway Project. The proposed mine site is located 7.5 miles west of Kramer Junction. DMR staff conducted a site visit on January 24, 2018 to observe site conditions.

SMARA (Public Resources Code (PRC) Division 2, Chapter 9, Section 2710 et seq.,) and associated regulations (California Code of Regulations (CCR) Title 14, Division 2, Chapter 8, Subchapter 1, Articles 1 and 9) require that specific items be addressed or included in reclamation plans. Pursuant to PRC Section 2772.1(b)(2), the following comments, prepared by a restoration ecologist and a geologist, are offered to assist in your review of this project.

**Topsoil Considerations**
(Refer to CCR Sections 3503, 3704, 3705, and 3711)

Soil salvage and site preparation are described on pages 18-19 of the reclamation plan and pages 5-6 of the revegetation plan. The top 12 inches of topsoil is to be salvaged and stockpiled for restoration. However, it is to be placed in random "islands" during reclamation. According to CCR 3711(e), topsoil shall be redistributed in a manner resulting in a stable, uniform thickness. DMR recommends that all topsoil is redistributed evenly across the entire 64 acres and that all references to soil "islands" be deleted from both plans.

**Revegetation Considerations**
(Refer to PRC Section 2773 and CCR Sections 3503 and 3705)

As noted throughout the comments in this section, information regarding revegetation is found in both the reclamation plan and the revegetation plan (Appendix 1). Some revegetation information is also included in the reclamation notes section of Sheet 2. To address these comments, revisions will need to be made to both documents and the map sheet. In order to avoid potential confusion, DMR recommends either consolidating all the information into the reclamation plan or removing the revegetation information from the reclamation plan (on pages 18-23) and replacing it with a
statement such as: "Refer to Revegetation Plan – Appendix 1". Joshua tree relocation is discussed on page 18 of the reclamation plan and page 5 of the revegetation plan. The plans state that “several” Joshua trees will be transplanted. The number of Joshua trees to be salvaged should be stated, together with a performance standard for their survival. Silver cholla (Cylindropuntia echinocarpa) was found on site and should also be transplanted prior to disturbance as noted on page 18 of the reclamation plan. There should be a separate performance standard for survivorship for silver cholla.

Seeding methods and rates are discussed on page 7 of the revegetation plan and page 20 in the reclamation plan, with the recommended seed mix in Table 3. However, a different seed mix is listed on map sheet 2. DMR recommends that the seed mix on the map sheet be replaced with the one in Table 3 as it is more site-specific. Desert mallow (Sphaeralcea ambigua) was observed during the site visit and DMR recommends adding this species to the seed mix.

CCR Section 3705(m) requires that the reclamation plan include success criteria that can be quantified by cover, density, and species richness. Success criteria are discussed on pages 8-9 of the revegetation plan and page 22 of the reclamation plan. However, in the revegetation plan they are only expressed as percentages of baseline. DMR recommends that “Table 4 – Recommended Revegetation Success Criteria” be revised and copied from the reclamation plan into the revegetation plan with the following changes, as summarized in the table below.

- Delete the word “shrub” from cover and density so that all native perennials can be counted.
- Change the plot size to a more manageable size for sampling (see more in the next comment)

<table>
<thead>
<tr>
<th>% Cover</th>
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<tr>
<td>Density</td>
<td>10 native perennials per 50-m x 1-m transect</td>
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<tr>
<td>Species Richness or Diversity</td>
<td>4 species of native perennials per 50-m x 1-m transect</td>
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</tbody>
</table>

CCR Section 3705(m) also requires that the sampling methods are set forth in the plan with a sample size that provides an 80% confidence level at a minimum. The monitoring sections on pages 8-9 in the revegetation plan and pages 22-23 of the reclamation plan need to be revised to provide greater detail and to be consistent. The area given in the success criteria table of 1000 square feet is a very large plot for sampling. Estimates of cover over such large plots are likely to be inaccurate. DMR recommends long, narrow plots – such a 50-meter by 1-meter belt transects which are better at capturing variability across the site and are more manageable for measuring all 3 metrics. We recommend stratified random placement of 14 of these transects across the site in order to achieve the required 80% confidence level. An example of wording to describe the sampling methods follows:

“Data for cover, density, and species richness will be collected along 14 randomly placed 50-meter by 1-meter transects. Cover will be evaluated using the line-intercept method along the 50-meter tape. Density and species richness will be recorded by counting all native perennials rooted within each 50-meter by 1-meter belt transect. All values will then be averaged and compared to the performance standards for each criterion”

Weed control is discussed on pages 6-7 in the revegetation plan and pages 20-21 of the reclamation plan. As proposed, no areas will be allowed to have more than 10% cover of weeds with the exception of Mediterranean grass (Schismus spp.), which is allowed to cover 40% of the ground (the same as baseline). DMR recommends that all weeds, including Schismus, be managed with the threshold value of 10% cover during mining and reclamation so that they do not
reach or exceed the cover of untreated areas. This is especially true in this case since the success criterion for cover of native species is only 11%.

**Updated Procedures:** The passage of Assembly Bill 1142 in 2016 (specifically, the newly-created PRC Section 2772.1) has changed the administrative requirements for submitting, reviewing, and approving a reclamation plan or reclamation plan amendment (hereafter: Plan). For your convenience, we have summarized the updated procedures, below. Please ensure that your agency allows adequate time in the approval process to meet these new requirements. For more detail, please consult the full text of the SMARA statute and regulations at this website:  
[http://www.conservation.ca.gov/index/Pages/lawsregs.aspx](http://www.conservation.ca.gov/index/Pages/lawsregs.aspx).

**Pre-Approval Procedures:**
1. Once DMR has provided comments, please provide a written response to the comments at least 30 days before you intend to approve the Plan.
   a. The proposed response must include a description of how you propose to adopt DMR’s comments; and/or
   b. A detailed description of the reasons why you propose not to adopt DMR’s comments.
   c. Please send copies of DMR’s comments and your responses to the operator.
2. Additionally, please provide DMR:
   a. At least 30 days’ notice of the time, place, and date of the approval hearing; or
   b. If no hearing is required, please provide 30 days’ notice to DMR before you approve the Plan.

**Post-Approval Procedures:**
1. Within 30 days following approval of the Plan, please notify DMR of the approval.
2. Within 60 days following the approval, please provide DMR an official copy of the approved Plan that incorporates all approved modifications. Additionally,
   a. The Plan should include an Appendix containing copies of
      i. any permit conditions of approval and
      ii. any binding mitigation measures (pursuant to CEQA) that are needed to meet the requirements of SMARA.
   b. These permit conditions of approval and binding mitigation measures (and their locations) should be shown in an Index.
   c. All maps, diagrams, and calculations that require preparation in accordance with the California Business and Professions Code must include the licensed professional’s license number, name, signature and seal/stamp [PRC Section 2772(c)(5)(f)].

**General Announcement:** *Reclamation Plan Content Checklist*
We have developed a convenient checklist that DMR staff use to determine if reclamation plans meet the minimum content requirements of SMARA and associated regulations. You may find it helpful when preparing and reviewing draft proposed reclamation plans and amendments. It may also be helpful in fulfilling the new (as of January 2017) requirement that reclamation plans include a chart identifying the location of required contents as per SMARA Section 2772(b). You may access the checklist in Microsoft Word and PDF formats on the *Forms* page of the DMR website at:  
If you have any questions on these comments or require any assistance with other mine reclamation issues, please contact either of us at (916) 323-9198.

Sincerely,

[Signature]

Beth Hendrickson, Manager
Environmental Services Unit
County Response Letter to DMR – March 1, 2018
March 1, 2018

Beth Hendrickson, Manager
Environmental Services Unit
Office of Mine Reclamation
801 K Street MS 09-06
Sacramento, CA 95814

RE: 30-DAY ADVANCE NOTICE OF INTENT TO APPROVE A RECLAMATION PLAN FOR THE KIEWIT KRAMER JUNCTION BORROW PIT AND RESPONSE TO DMR’S COMMENTS; APN: 0498-232-47; PROJECT NO.: AP20170102

Dear Ms. Hendrickson:

Pursuant to Public Resources Code (PRC) Section 2772.1(b)6(A), the County of San Bernardino Planning Division (County) is hereby providing advance notice to the Division of Mine Reclamation (DMR) of staff’s intent to recommend approval of the Kiewit Infrastructure West Company proposal to establish, pursuant to SMARA, the Kramer Junction Borrow Pit located 3.5 miles west of the community of Kramer Junction. The decision is anticipated to occur on or about April 5, 2018.

The Kramer Junction Borrow Pit is a proposal to establish a Mine and Reclamation Plan on a 63.75-acre portion of a 100-acre privately owned parcel located north of SR-58 and 3.5 miles west of Kramer Junction. The borrow pit will be the source for up to 3 million cubic yards of landscape and fill material for the State Route 58 (SR-58) Kramer Junction Expressway Project (Project). The California Department of Transportation (Caltrans) is realigning and widening to four lanes approximately 13 miles of SR-58 from the Kern County line eastward to about 7.5 miles east of Kramer Junction. The Project is anticipated to be completed within three years with reclamation beginning shortly thereafter.

County staff is in receipt of DMR’s February 22, 2018 letter addressing identified deficiencies to the Reclamation Plan map and Revegetation Plan. The County intends to adopt DMR’s comments and pursuant to PRC Section 2772.1(b)5(A), the following clarifications and additions have been made substantiating adoption:

Comment #1 – Topsoil Considerations

“According to California Code of Regulations (CCR) 3711c, topsoil shall be redistributed in a manner resulting in a stable, uniform thickness. DMR recommends that all topsoil is redistributed evenly across the entire 64 acres and that all references to soil “islands” be deleted from both [the Reclamation Plan and Revegetation Plan].”

Response #1: Recommended changes have been made to both plans to indicate spreading of topsoil across the entire excavation area.
Comment #2 – Revegetation Considerations part 1

"In order to avoid potential confusion, DMR recommends either consolidating all [revegetation information] into the reclamation plan or removing the revegetation information from the reclamation plan and replace it with a statement [referring to the Revegetation Plan]."

Response #2: Consistency between the two Plans has been confirmed.

Comment #3 - Revegetation Considerations part 2

"The number of Joshua trees to be salvaged should be stated, together with a performance standard for their survival. Silver cholla was found on site and should also be transplanted prior to disturbance as noted” ... [with] a separate performance standard for survivorship ...

Response #3: Additional standards for replacement of protected plants such as Joshua tree and silver cholla will be included in the CUP Conditions of Approval, to include but not limited to the following:

- Special-status plants (as listed in County SBCC §88.01.060 (et al.), Desert Native Plant Protection, and those species identified/listed in Mitigation Measures BIO-6 through BIO-13 (SR-58 EIS/EIR) growing within the borrow pit footprint will be documented and salvaged and/or propagules will be relocated to an appropriate location prior to mineral extraction activities. Prospective transplanting sites will be inspected and approved by a qualified botanist prior to relocation of the special-status plants.

- Transplanted or propagated plants will be maintained for a minimum of three years, or until a qualified biologist determines that the Special-status plants have been successfully established (e.g., plants are vigorous, flower, and produce seed). Any deceased transplanted plants shall be replaced with nursery stock to ensure the site’s return to natural productivity.

The Final Environmental Impact Report/Environmental Impact Statement (SR-58 EIR/EIS) prepared by the California Department of Transportation for the State Route 58 (SR-58) Kramer Junction Expressway Project includes the subject site in its environmental analyses. Mitigation BIO-12 provides that Joshua trees will be shown on the plans for avoidance, transplanting and/or stockpiling. SR-58 related disturbance activities have already commenced at the subject borrow pit site, which do not necessarily involve mineral extraction that is subject to SMARA. County staff is aware that at least two Joshua trees were observed within the proposed borrow pit footprint at this time.
Comment #4 - Revegetation Considerations part 3

“A different seed mix is shown on map sheet 2 [Reclamation Plan map] [than is shown in the Mine Reclamation Plan and the Revegetation Plan for Table 3.]”

Response #4: The corrected seed mix as shown in the Mine Reclamation Plan and the Revegetation Plan is now reflected on the Reclamation Plan map.

Comment #5 - Revegetation Considerations part 4

“DMR recommends that ‘Table 4 – Recommended Revegetation Success Criteria’ be revised and copied from the Reclamation Plan into the Revegetation Plan with the following changes ...”

- Delete the word “shrub” from cover and density so that all native perennials can be counted.
- Change the plot size to a more manageable size for sampling (see more in the next comment)

Table 4 - Revegetation Success Criteria

<table>
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</tr>
</tbody>
</table>

Response #5: Recommended success criteria and changes have been incorporated.

Comment #6 - Revegetation Considerations part 5

“DMR recommends long, narrow plots - such as 50-meter by 1-meter belt transects - which are better at capturing variability across the site and are more manageable for measuring all 3 metrics. We recommend stratified random placement of 14 of these transects across the site in order to achieve the required 80% confidence level. An example of working to describe the sampling methods follows:”

“Data for cover, density, and species richness will be collected along 14 randomly placed 50-meter by 1-meter transects. Cover will be evaluated using the line-Intercept method along the 50-meter tape. Density and species richness will be recorded by counting all native perennials rooted within each 50-meter by 1-meter belt transect. All values will then be averaged and compared to the performance standards for each criterion.”

Response #6: The above language has been incorporated into the Reclamation Plan and the Revegetation Plan.

Comment #7 - Revegetation Considerations part 6

“DMR recommends that all weeds ... be managed with the threshold value of 10% cover during mining and reclamation so they do not reach or exceed the cover of untreated areas...”
Response #7: A weed management threshold value of 10% has been added to the Reclamation Plan and the Revegetation Plan.

If you have any questions concerning this transmittal, please contact me directly at (909) 387-4002 or via email at Linda.Mawby@luc.sbcounty.gov.

Sincerely,

Linda Mawby, Senior Planner

Enclosure: CD Including: Kramer Junction Borrow Pit Mine Reclamation Plan - updated February 2018
Revised Mine Plan - updated February 2018
Revised Reclamation Plan - updated February 2018

CC: George Kantline, Mining/Engineering Geologist
Mauricio Andrade, Kiewit Infrastructure West Company
Martin Derus, Litbum Corporation

LM/ht/at
AP20170102 Findings
FINDINGS: CONDITIONAL USE PERMIT

Conditional Use Permit (CUP) to permit temporary excavation of the Kiewit Kramer Junction Borrow Pit to provide aggregate for use during construction of State Route 58 Kramer Junction Expressway on 63.75 acres (Project) (APN: 0498-232-47).

The following Chapter 85.06.040 CUP findings must be made in the affirmative, pursuant to Development Code Section 88.03.060(k)(1), in order to approve the Project’s mining Conditional Use Permit:

1. **The site for the proposed use is adequate in terms of shape and size to accommodate the proposed use and all landscaping, open space, setbacks, walls and fences, yards, and other required features pertaining to the application.** The 100-acre parcel is of adequate size and shape to accommodate the 63.75-acre borrow pit and adjacent equipment storage areas. The minimum setback requirements for the Resource Conservation (RC) zoning district in the desert region is 25 feet from the property line. To buffer the borrow pit, this setback has been extended to 350 feet from the property line near the two residences closest to the mine. This setback sets the borrow pit at approximately 500 to 600 feet from these uses. No other development is located within the vicinity.

2. **The site for the proposed use has adequate access, which means that the site design incorporates appropriate street and highway characteristics to serve the proposed use.** Street access is available to the site via Amarillo Road/Sandhill Road. Street access is only required for initial equipment entry and employee access. All haul roads are on private property and will be located north of the site for direct access to the new SR-58 right of way.

3. **The proposed use will not have a substantial adverse effect on abutting property or the allowed use of the abutting property, which means the use will not generate excessive noise, traffic, vibration, lighting, glare, or other disturbance.** As described in #1 above, minimum setback requirements for the Resource Conservation (RC) zoning district in the desert region is 25 feet from the property line. To buffer the borrow pit, this setback has been extended to 350 feet from the property line near the two residences closest to the mine. This setback sets the borrow pit at approximately 500 to 600 feet from these uses. As described in #2 above, haul roads have been established in a northerly direction, away from existing residential uses. County noise, vibration, and lighting standards apply and are included in the Project’s Conditions of Approval.

4. **The proposed use and manner of development are consistent with the goals, maps, policies, and standards of the County General Plan and any applicable Community or Specific Plan.** General Plan standards for the Resources Conservation District are to preserve open space. This project is a temporary use of a large, 100-acre, privately-owned parcel of land that will remain as open space upon project competition. Use of the site for fill material extraction allows a measure of economic gain while maintaining the site’s open space value.
LAND USE ELEMENT: RESOURCE CONSERVATION (RC) LAND USE ZONING DISTRICT

Applicable site-specific policies for the RC Zoning District include:

**Purpose**
- To encourage limited rural development that maximizes preservation of open space, watershed and wildlife habitat areas.
- To establish areas where open space and non-agricultural activities are the primary use of the land, but where agriculture and compatible uses may co-exist.

**Locational Criteria**
- Areas generally distant from urban centers with existing land uses including limited grazing, passive public and private recreation areas, rural residences and vacation cabins and watershed, wildlife and open space uses.
- Areas with limited or no infrastructure facilities and where none are planned within the next twenty years.

OPEN SPACE ELEMENT: GOALS AND POLICIES

Applicable site-specific Desert Region Goals and Policies from the Open Space Element include:

**GOAL D/OS - 1** Preserve open space lands to ensure that the rural desert character of the region is maintained.

**D/OS 1.3** Maintain Rural Living (RL) and Resource Conservation (RC) Land Use Zoning Districts or zoning on steep slopes and remote areas to minimize hillside grading and to protect the rural and natural environment.

SPECIFIC OR COMMUNITY PLANS: There are no applicable Specific or Community Plans in the Kramer Junction area.

5. **There is supporting infrastructure, existing or available, consistent with the intensity of the development, to accommodate the proposed Project without significantly lowering service levels.** No additional County infrastructure or services are required to be supplied for this Project.

6. **The lawful conditions stated in the approval are deemed reasonable and necessary to protect the overall public health, safety and general welfare.** The Project Conditions of Approval include measures to minimize noise, vibration, lighting, air quality, and traffic impacts and to enforce performance standards.

7. **The design of the site has considered the potential for the use of solar energy systems and passive or natural heating and cooling opportunities.** Although solar energy generation and use is not a part of this Project proposal, neither would it be precluded should the need and desire for such use arise.
FINDINGS: RECLAMATION PLAN

Reclamation Plan for the Kiewit Kramer Junction Borrow Pit to permit temporary excavation of the quarry as a borrow pit to provide aggregate for use during construction of State Route 58 Kramer Junction Expressway on 63.75 acres (Project) (APN: 0498-232-47).

Pursuant to Development Code Section 88.03.060(k)(2), the following findings must be made in the affirmative in order to approve the Project’s mining Reclamation Plan:

1. The Reclamation Plan complies with the California Surface Mining and Reclamation Act (SMARA) (Public Resources Code Sections 2772-2773) and any other applicable provisions. The Kramer Junction Borrow Pit Mine Reclamation Plan (Reclamation Plan) was reviewed, and conditioned, for compliance with SMARA. It has also been reviewed and accepted by the California Department of Conservation Division of Mine Reclamation.

2. The Reclamation Plan complies with applicable requirements of State mining regulations (California Code of Regulations Sections 3500-3505 and 3700-3713). The Reclamation Plan was reviewed, and conditioned, for compliance with State mining regulations. It has also been reviewed and accepted by the California Department of Conservation Division of Mine Reclamation.

3. The Reclamation Plan and potential end use of lands reclaimed in compliance with the Plan are consistent with this Chapter and the General Plan and any applicable resource plan or element. The Reclamation Plan and potential end use of lands disturbed and reclaimed in compliance with the Plan, as conditioned, are consistent with the Development Code and General Plan. No additional resource plans or elements apply.

4. The Reclamation Plan has been reviewed in compliance with the California Environmental Quality Act (CEQA) and the County’s environmental review guidelines, and all significant adverse impacts from reclamation of the surface mining operations are mitigated below a level of significance or to the maximum extent feasible. An Addendum to the Caltrans Kramer Junction Expressway Final EIR/EIS (FEIR) was prepared in compliance with CEQA and all Mitigated Measures identified in the FEIR have been incorporated into the Reclamation Plan and Conditions of Approval.

5. The land and/or resources, such as water, will be reclaimed to a condition that is compatible with, and blends in with, the surrounding natural environment, topography, and other resources, or suitable off-site development will compensate for related disturbance to resources values. Affected lands will be reclaimed to a condition compatible with, and blending with, the surrounding natural environment, topography, and other open space resources as identified in the Reclamation Plan. Financial Assurances and annual mine inspections pursuant to SMARA will take place to ensure this occurs. Groundwater resources will also be monitored and mitigated should related disturbance to this resource occur.
6. **The Reclamation Plan will reclaim the mined lands to a usable condition which is readily adaptable for alternative land uses consistent with the General Plan and applicable resource plan.** The Reclamation Plan, as conditioned, along with annual mine inspections pursuant to SMARA will ensure reclamation of the mined lands return to a usable condition that is readily adaptable for alternative land uses consistent with Resource Conservation and Open Space.

7. A written response to the State Department of Conservation has been prepared, describing the disposition of major issues raised by that Department. Where the County’s position is at variance with the recommendations and objections raised by the State Department of Conservation, the response shall address, in detail, why specific comments and suggestions were not accepted. The County sent a written response, dated March 1, 2018, to the California Department of Conservation Division of Mine Reclamation (DMR) in response to its February 22, 2018 review of the Kramer Junction Borrow Pit Mine Reclamation Plan. Staff provided a detailed response to each comment, along with the required 30-day notification of intent to adopt the project at a Planning Commission hearing scheduled for April 5, 2018. Each concern expressed by DMR has been addressed and/or incorporated into the revised Plan.

**FINDINGS: CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)**

1. **The Project will not have a significant adverse impact on the environment, subject to implementation of the proposed Conditions of Approval and mitigation measures.** An Addendum to the Caltrans Kramer Junction Expressway Final EIR/EIS (FEIR) was prepared in compliance with CEQA and all Mitigated Measures identified in the FEIR have been incorporated into the Reclamation Plan and Conditions of Approval. The Addendum reflects the independent judgment of the County of San Bernardino and the FEIR and Addendum were reviewed and considered prior to adoption and approval of the Project.
Addendum to the Caltrans SR-58 Kramer Junction Expressway Final EIR
Addendum to the
State Route 58 (SR-58) Kramer Junction Expressway Project
Final EIR/EIS (SCH No. 2007051051)
for the
Kramer Junction Borrow Pit Mine and Reclamation Plan

SUMMARY

The County of San Bernardino is reviewing the potential environmental impacts for a Mine Reclamation Plan for the Kramer Junction Borrow Pit (Proposed Plan) submitted by Kiewit Infrastructure West Co. (Kiewit). The borrow pit will be the source for up to 3 million cubic yards (mcy) of material for the State Route 58 (SR-58) Kramer Junction Expressway Project (Project). The California Department of Transportation (Caltrans) is realigning and widening to four lanes approximately 13 miles of SR-58 from the Kern County line eastward to about 7.5 miles east of Kramer Junction. Caltrans approved an Environmental Impact Report/Environmental Impact Statement (EIR/EIS) for the SR-58 Kramer Junction Expressway Project in July 2014.

The purpose of the Proposed Plan is to establish a mining CUP and Reclamation Plan under California’s Surface Mining and Reclamation Act of 1975 (“SMARA”, Public Resources Code Section [PRC] 2710 et seq. and California Code of Regulations Section 3500 et seq.) at the borrow site for a three-year period to provide fill material for construction of the SR-58 Kramer Junction Expressway Project. The SR-58 improvements are being constructed as a joint project by Caltrans and the Federal Highway Administration (FHWA) tentatively starting in early 2018 and currently scheduled for completion by early 2021.

The Proposed Plan site is located approximately two miles east of the SR-58 and Boron interchange, one mile east of the Kern County boundary and 3.5 miles west of Kramer Junction (see Figure 1 - Regional Map). Kiewit is proposing to utilize approximately 63.75 acres of the privately-held 100-acre parcel for a mining period of three years. The material will be transported to the new SR-58 alignment approximately 630 to 1,200 feet north of the project site through easements or right-of-ways to be negotiated with adjacent property owners. No public roads will be utilized. Reclamation of the site will commence immediately upon termination of mining.
Caltrans included the proposed borrow site and access roads (described as Area 2 Borrow Area) in their project design and environmental review. Caltrans concluded in their National Environmental Policy Act/California Environmental Quality Act (NEPA/CEQA) Re-Validation Form (August 8, 2017) that the 2014 EIR/EIS remains valid with implementation of project design and mitigation measures for the potential impacts of the Kramer Junction Borrow Pit area. The County, acting as lead agency for the entitlement of the Mine Reclamation Plan, has determined that an Addendum to the EIR/EIS SR-58 Kramer Junction Expressway Project would be the appropriate documentation to comply with CEQA.
Kramer Junction Pit - State Route 58 Kramer Junction Expressway Project
County of San Bernardino, California

REGIONAL LOCATION

1.0 BACKGROUND

This document is prepared as an Addendum to the EIR/EIS for the SR-58 Kramer Junction Expressway Project, San Bernardino and Kern County, California (SCH No. 2007051051). The Final EIR/EIS was approved by Caltrans acting as Lead Agency for CEQA and NEPA on July 1, 2014.

The SR-58 Kramer Junction Expressway Project (Project) consists of Caltrans plans to widen and realign an existing 13.3-mile segment of SR-58 near the Kern County/San Bernardino County line to approximately 7.5 miles east of US-395 in western San Bernardino County, from a two-lane conventional highway to a four-lane expressway; and construct a railroad grade separation and an interchange at the SR-58/US-395 Junction (see Figure 2 – SR-58 Kramer Junction Expressway Project). The purpose of the Project is to improve east-west mobility and reduce congestion and travel time; reduce potential traffic conflicts; and maintain uninterrupted and consistent facility design between economic and community centers. For a complete description of the Project and Alternatives (see the Summary and Chapter 2, Project Alternatives in the Final EIR/EIS).

In August 2017, as the design of the Project progressed, Caltrans prepared a NEPA/CEQA Re-Validation Form which determined that the following, among other sites and requirements, would be necessary to facilitate Project completion:

\textit{Area 2 Borrow Area on APN 0498-232-47. It is proposed to excavate and remove soil, loaded into trucks for use on proposed alignment. Additionally, Caltrans would also install a water well and construct a 10-foot deep, 3,000 square-foot pond to retain water for use on the Project. Access to and from APN 0498-232-47 will be via existing roads accessible from existing SR-58.}

Subsequently, in October 2017, Kiewit, Caltrans’ construction contractor for the Project, submitted a Mine Reclamation Plan for the proposed Area 2 Borrow Area, also known as the Kramer Junction Borrow Pit to partially provide fill material and water resources requirements of the Project. Caltrans included the Kramer Junction Borrow Pit area in their project design and environmental review and concluded in their NEPA/CEQA Re-Validation Form that the Final EIR/EIS conclusions remain valid with implementation of project design and mitigation measures for the operation of the Kramer Junction Borrow Pit area and access roads.

This Addendum supplements the information contained in the Final EIR/EIS and the NEPA/CEQA Re-Validation Form and has been prepared to ensure that the potential impacts of the proposed Kramer Junction Borrow Pit have been fully evaluated and that any such potential impacts have been reduced to a level of less than significant.

\textbf{CEQA Determination} - When an EIR has been certified for a project, no subsequent EIR shall be prepared for that project unless the lead agency determines, on the basis of substantial evidence in the light of the whole record, one or more of the following: 1) substantial changes are proposed in the project which will require major revisions of the previous EIR due to the involvement of new significant environmental effects or a substantial increase in the severity of...
Addendum to Caltrans Final EIR/EIS for Kramer Junction Borrow Pit Plan

previously identified significant effects; 2) substantial changes occur with respect to the circumstances under which the project is undertaken which will require major revisions of the previous EIR due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects; or 3) new information of substantial importance, which was not known and could not have been known with the exercise of reasonable diligence at the time the previous EIR was certified as complete, shows any of the following: (A) the project will have one more significant effects not discussed in the previous EIR; (b) significant effects previously examined will be substantially more severe than shown in the previous EIR; (c) mitigation measures or alternatives previously found not to be feasible would in fact be feasible, and would substantially reduce one or more significant effects of the project, but the project proponents decline to adopt the mitigation measure or alternative; or (d) mitigation measures or alternatives which are considerably different from those analyzed in the previous EIR would substantially reduce one or more significant effects on the environment, but the project proponents decline to adopt the mitigation measure or alternative (CEQA Guidelines Section 15162(a)). Pursuant to Section 15164(e) of the CEQA Guidelines, an addendum must provide a brief explanation of the decision not to prepare a subsequent EIR.

The Proposed Plan is considered to be necessary by the NEPA/CEQA Re-Validation Form in order to ensure facilitation of the Project as described by the Final EIR/EIS. As discussed below, new significant effects or increases in the severity of previously identified significant effects are not expected to result from the Proposed Plan.

Furthermore, the Final EIR/EIS was certified in July of 2014. Since that time, there have been no changes to the background conditions and no new important information that would suggest the circumstances under which the Proposed Plan would be undertaken are different than assumed or described in the certified Final EIR/EIS. The NEPA/CEQA Re-Validation Form concluded that the original environmental document remains valid and no further documentation is necessary. Because none of the circumstances set forth in Section 15162 of the CEQA Guidelines calling for the preparation of a subsequent EIR have occurred, and because only minor changes and additions are necessary to make the Final EIR/EIS adequate for purposes of approving the Proposed Plan, an Addendum is the appropriate environmental document. Pursuant to Section 15164(c) of the CEQA Guideline, an Addendum need not be circulated for public review but can be included in or attached to the Final EIR. This Addendum, together with the Final EIR/EIS, is being considered by the County prior to approving the Proposed Plan.

2.0 PREVIOUSLY CERTIFIED EIR

On July 1, 2014, Caltrans certified the Final EIR/EIS for the Project. In addition to permits and approvals from the County and other state or local public agencies, the Project required approvals from the Bureau of Land Management (BLM) and other federal agencies. Furthermore, the Project is a joint project by Caltrans and FHWA, and is subject to state and federal environmental review documents. A Draft EIR/EIS was prepared and was circulated to interested agencies, organizations, and the public for comment pursuant to CEQA and NEPA on July 5, 2013. A public hearing was held on August 6, 2013. Public and agency comments received during the circulation of the Draft EIR/EIS, and at the related public hearing, resulted in refinements that have been incorporated into the Final EIR/EIS. Final EIR/EIS included analysis of the Project’s

Addendum to Caltrans Final EIR/EIS for Kramer Junction Borrow Pit Plan 6

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potential impacts associated with categories included in the CEQA Environmental Checklist. The Final EIR/EIS CEQA Significance Determinations are listed in Table 1.

<table>
<thead>
<tr>
<th>Impact on</th>
<th>CEQA Significance Determination</th>
</tr>
</thead>
<tbody>
<tr>
<td>Land Use</td>
<td>Less than Significant</td>
</tr>
<tr>
<td>Parks and Recreation</td>
<td>No Impact</td>
</tr>
<tr>
<td>Growth</td>
<td>Less than Significant</td>
</tr>
<tr>
<td>Farmlands and Timberlands</td>
<td>No Impact</td>
</tr>
<tr>
<td>Community Cohesion/Character</td>
<td>Less than Significant with Mitigation</td>
</tr>
<tr>
<td>Relocations</td>
<td>Less than Significant with Mitigation</td>
</tr>
<tr>
<td>Public Services</td>
<td>Less than Significant</td>
</tr>
<tr>
<td>Utilities and Service Systems</td>
<td>Less than Significant with Mitigation</td>
</tr>
<tr>
<td>Traffic</td>
<td>Less than Significant with Mitigation (for construction impacts only)</td>
</tr>
<tr>
<td>Visual/Aesthetics</td>
<td>Significant and Unavoidable</td>
</tr>
<tr>
<td>Cultural Resources</td>
<td>Less than Significant with Mitigation</td>
</tr>
<tr>
<td>Hydrology and Floodplains</td>
<td>Less than Significant with Mitigation</td>
</tr>
<tr>
<td>Water Quality</td>
<td>Less than Significant with Mitigation</td>
</tr>
<tr>
<td>Geology/Soils/Seismic/Topography</td>
<td>Less than Significant with Mitigation</td>
</tr>
<tr>
<td>Paleontology</td>
<td>Less than Significant with Mitigation</td>
</tr>
<tr>
<td>Hazardous Waste/Materials</td>
<td>Less than Significant with Mitigation</td>
</tr>
<tr>
<td>Air Quality</td>
<td>Less than Significant with Mitigation</td>
</tr>
<tr>
<td>Noise and Vibration</td>
<td>Less than Significant with Mitigation</td>
</tr>
<tr>
<td>Energy</td>
<td>Less than Significant</td>
</tr>
<tr>
<td>Natural Communities</td>
<td>Less than Significant with Mitigation</td>
</tr>
<tr>
<td>Wetlands and Other Waters</td>
<td>Less than Significant with Mitigation</td>
</tr>
<tr>
<td>Plant Species</td>
<td>Less than Significant with Mitigation</td>
</tr>
<tr>
<td>Animal Species</td>
<td>Less than Significant with Mitigation</td>
</tr>
<tr>
<td>Threatened and Endangered Species</td>
<td>Less than Significant with Mitigation</td>
</tr>
<tr>
<td>Invasive Species</td>
<td>Less than Significant with Mitigation</td>
</tr>
</tbody>
</table>

Source: Table 4-1: Final EIR/EIS for SR-58 Kramer Junction Expressway Project (2014)

The Final EIR/EIS concluded that, with exception of impacts to visual/aesthetics occurring as a result of implementation of build alternatives, the Project would not result in any cumulatively considerable impacts.

2.1 **SIGNIFICANT IMPACTS AND MITIGATION MEASURES**

The Final EIR/EIS identifies various mitigation measures designed to reduce potential adverse environmental impacts of the Project. The mitigation measures are set forth in Appendix G, Environmental Commitments Record, of the Final EIR/EIS.
2.2 OTHER PERMITS AND AGENCY APPROVALS

The Final EIR/EIS noted that the Project requires approval from the following agencies:

- County of San Bernardino (Freeway agreement and Temporary construction permits)
- Burlington Northern Santa Fe (Encroachment permit)
- Bureau of Land Management (Land Use Application and Permit)
- California Public Utilities Commission (Service contract and construction/maintenance agreements)
- California State Water Resources Control Board (Coverage under the General Permit for Discharges of Stormwater Associated with Construction Activity: Construction General Permit, 99-08-DWQ)
- California Regional Water Quality Control Board (Waste discharge permit)
- California Department of Fish and Wildlife (1600/1602 Permit and 2081 Incidental Take Permit)
- U.S. Fish and Wildlife Service (Section 7 consultation for threatened and endangered species)
- U.S. Department of Defense, Edwards Air Force Base (AFFTC IMT 5926: Dig Permit, and Real Estate Permit/Lease)

3.0 REVISIONS TO ENVIRONMENTAL EVALUATION / IMPACT ANALYSES

3.1 INTRODUCTION

In August 2017, as the design of the Project progressed, Caltrans prepared a NEPA/CEQA Re-Validation Form which determined that the following, among other sites and requirements, would be necessary to facilitate Project completion:

*Area 2 Borrow Area on APN 0498-232-47. It is proposed to excavate and remove soil to a depth of 15 feet, loaded into trucks for use on proposed alignment. Additionally, Caltrans would also install a water well and construct a 10-foot deep, 3,000 square-foot pond to retain water for use on the Project. Access to and from APN 0498-232-47 will be via existing roads accessible from existing SR-58. (As shown on Caltrans Project Map Area 2- DARR’s 75 Acres).*
As a response to this need, Kiewit, the Project’s construction contractor, developed a Mine Reclamation Plan for the proposed Area 2 Borrow Area, also known as the Kramer Junction Borrow Pit. The Proposed Plan was prepared with adherence to the San Bernardino County General Plan and Development Code as well as California’s Surface Mining and Reclamation Act of 1975 (SMARA) requirements and submitted to the County acting as local lead agency.

This Addendum supplements the information contained in the Final EIR/EIS and has been prepared to ensure that the potential impacts of the Proposed Plan to establish the Kramer Junction Borrow Pit, have been fully evaluated and that any such potential impacts have been reduced to a level of less than significant incorporating mitigation measures included in the EIR/EIS. Note that this Addendum follows the NEPA format for environmental topics and all CEQA topics are adequately addressed.

3.2 KRAMER JUNCTION BORROW PIT MINE AND RECLAMATION PLAN

As proposed in the Mine Reclamation Plan, the Kramer Junction Borrow Pit is located approximately two miles east of the SR-58 and Boron interchange, one mile east of the Kern County boundary, and 3.5 miles west of Kramer Junction (refer to Figure 1 – Regional Map). Specifically, the Proposed Plan Site is within the west part of San Bernardino County in the SW ¼ of Section 34, Township 11 North, Range 7 West within the Saddleback Mountain 15’ quadrangle (see Figure 3 – Vicinity Map). Kiewit is leasing the privately-held 100-acre parcel (APN 0498-232-47) from the landowner to facilitate the required mining and reclamation activities. Kiewit is proposing to utilize approximately 63.75 acres of the 100-acre parcel for the removal of up to 3 million cubic yards (mcy) for a mining period of three years. Although the NEPA/CEQA Re-Validation Form initially proposed to excavate soil to a depth of 15 feet, as the design of the proposed Kramer Junction Borrow Pit progressed, it was determined that the borrow pit would be designed for a maximum reclamation depth of 25 to 40 feet to fulfill the Project’s need for fill material (see Figure 4 – Mine Plan). The material will be transported to the new SR-58 alignment, approximately 630 to 1,200 feet north of the Proposed Plan Site, through an easement or right-of-way on the east or west side to be negotiated with adjacent property owners. Access for workers is available via existing SR-58 alignment, which is located approximately 1/3-mile north of the Proposed Plan Site on Castle Road or Sand Hill Road. No public roads will be utilized to transport material off-site.

The Proposed Plan site is currently vacant, appears to have been impacted by historic grazing and by three unpaved 60-foot wide private landing strips (known as Boron air field), and consists of saltbrush and alkali sink scrub. The adjacent properties are vacant to the west, north, and east. The landowner’s residence is located to the southwest and three other residences are located between approximately 500 to 1,000 feet to the south of the mine pit. The existing SR-58 lies to the west and south and the new SR-58 alignment will be aligned to the east and north.

Mining operations are proposed to be undertaken over a period of up to three years following adoption of the CUP and Reclamation Plan in 2018 and extending for three years. The Proposed Plan Site and haul roads will be fenced with a combination of desert tortoise fencing and 4-strand wire. Reclamation of the Kramer Junction Borrow Pit will commence immediately upon termination of mining and is estimated to be complete after approximately five years of revegetation monitoring and remediation (see Figure 5 – Reclamation Plan).
San Bernardino Route 58 Highway Improvements

PROJECT MINE SITE
APN: 0498-232-47

Kramer Junction Pit - State Route 58 Kramer Junction Expressway Project
County of San Bernardino, California

FIGURE 3
Additional ancillary uses include an equipment storage/parking area, well and pond area, and haul truck road on the northeast. The approximate acreages of each proposed use are included in Table 2 below.

<table>
<thead>
<tr>
<th>Use</th>
<th>Existing Disturbed</th>
<th>Undisturbed</th>
<th>Total Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Borrow Pit and Slopes</td>
<td>6</td>
<td>55.5</td>
<td>61.5</td>
</tr>
<tr>
<td>Equipment Storage</td>
<td>0</td>
<td>1.25</td>
<td>1.25</td>
</tr>
<tr>
<td>Well and Storage Pond</td>
<td>0.25</td>
<td>0</td>
<td>0.25</td>
</tr>
<tr>
<td>Haul Road within the Project Site</td>
<td>0.5</td>
<td>0.25</td>
<td>0.75</td>
</tr>
<tr>
<td>Totals</td>
<td>6.75</td>
<td>57.0</td>
<td>63.75</td>
</tr>
</tbody>
</table>

Source: Mine Reclamation Plan for the Kramer Junction Borrow Pit (2017)

Mining will be achieved with one loader, two excavators, and a dozer to break, move, and load material directly into double belly truck trailers with capacities of up to approximately 50 cy (typical). A complete list of the typical equipment to be used on-site and for transport to the SR-58 construction alignment is included in Table 3. There will be no crushing, screening, or conveying conducted on-site. There will be no buildings or scale on-site.

<table>
<thead>
<tr>
<th>Equipment Make/Model</th>
<th>Typical Number</th>
<th>Hours/Day</th>
<th>Tier Level</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAT D9 Dozer</td>
<td>1</td>
<td>20</td>
<td>Tier 4: Final</td>
<td>Excavate and loosen material. Road construction and maintenance.</td>
</tr>
<tr>
<td>Peterbilt/Freightliner Double Belly Trailers</td>
<td>20-26</td>
<td>20</td>
<td>Compliant</td>
<td>Transportation of material to new SR-58 alignment.</td>
</tr>
<tr>
<td>CAT 16 Grader</td>
<td>1</td>
<td>4</td>
<td>Tier 3</td>
<td>Maintain roads.</td>
</tr>
<tr>
<td>CAT 390 Excavator</td>
<td>2</td>
<td>20</td>
<td>Tier 4: Final</td>
<td>Excavate and load material into trucks.</td>
</tr>
<tr>
<td>CAT 980M Loader</td>
<td>1</td>
<td>20</td>
<td>Tier 4</td>
<td>Excavate and load material into trucks.</td>
</tr>
<tr>
<td>CAT 740 Water Truck</td>
<td>1</td>
<td>4</td>
<td>Tier 3</td>
<td>Water for dust control on mining areas, haul roads, and stockpiles.</td>
</tr>
<tr>
<td>Kentworth T300 Lube Truck (Fuel)</td>
<td>1</td>
<td>4</td>
<td>Compliant</td>
<td>Maintain and fuel on-site equipment.</td>
</tr>
<tr>
<td>John Deere 9560</td>
<td>1</td>
<td>4</td>
<td>Tier 4</td>
<td>Haul road maintenance.</td>
</tr>
</tbody>
</table>

Source: Mine Reclamation Plan for the Kramer Junction Borrow Pit (2017)

Slopes of 3H:1V (horizontal:vertical) to depths of 25 to 40 feet will be produced from excavation of the pit. Setbacks of 50 feet from the property line will be maintained on the west and east. A 200 to 350-foot setback will be established on the south to provide setbacks from the residences to the south. These setbacks will include desert tortoise and 4-strand wire fencing with warning signs on the outside edge of the property, secured gates, and a one-lane dirt perimeter access road.
inside the fence. Access into the borrow pit will be via a 5% decline ramp 50 feet in width located on the northeast side of the pit to allow direct access to the SR-58 construction alignment. Note that the ramp may be on the northwest slope if the alternative haul road is utilized. There will also be a ramp for vehicles on the southwest side as well. Once off the project site, the transport trucks will utilize a 50-foot wide haul road within an acquired easement or right-of-way to be negotiated with properties to the north for a distance of about 630 feet on the east side or 1,200 feet on the west side to the construction alignment.

Truck traffic is anticipated at a maximum rate of 500 loads per day depending on the truck capacity and construction demand. Production and material transport will be approximately 15,000 cy/day, 350,000 cy/month, and 2 mcy per year. If operations utilize the double belly transport trucks with a capacity of approximately 50 cy, the number of truck trips would average about 300 trips/day. A total of up to 3 mcy of fill and landscape material is estimated to be removed.

The trucks will not travel on any public roads or interact with any public traffic. The planned haul roads on easements or right-of-way to be determined will take the trucks directly from the borrow pit to the construction alignment. To minimize dust generation, a water truck will be retained for use during excavations and loading of haul trucks, prior to departing from the Proposed Plan site. Kiewit shall water spray working mine areas and access roads on a regular basis and more frequently as needed during windy conditions. Water used for dust control shall be obtained by a well to be located in the southwest corner of the Proposed Plan site. In addition, a lined pond (100 feet by 300 feet) will be used to hold water for dust control. Un-surfaced haul roads and access roads may also have dust controlled with biodegradable dust suppressants or covered with road base material as needed.

Operations will be conducted primarily from 5:30 am until 8:00 pm, 6 days per week. Occasionally operations may be conducted 24 hours/day and up to 7 days per week depending on construction needs. All refuse shall be disposed into approved trash bins and removed by a commercial vendor.

Upon completion of mining activities, all equipment will be removed from the Proposed Plan site. All debris will be removed and disposed at a permitted facility. The pond will be allowed to evaporate, the liner will be placed into the pond, and the pond backfilled to grade. All quarry fencing will remain in place to prevent unauthorized access during reclamation and may be left in-place at the discretion of the landowner.

The revegetation plan will implement a series of activities to revegetate portions of the site after completion of mining operations. All disturbed areas will be reclaimed and revegetated. Physical reclamation procedures will include regrading to achieve final slopes of 3H:1V, ripping compacted surfaces to a depth of about one foot to hold moisture, adding stockpiled surface material containing banked seeds in “islands” to a depth up to one-foot, seeding or hydro-seeding with commercially available native seeds, and staking or flagging reclaimed areas to eliminate additional disturbance. The reclaimed site will allow the landowner to re-grade existing air strips for private use. The reclaimed site will not preclude any future mining activities with increased depth or surface modification.
3.3 ENVIRONMENTAL IMPACT ANALYSIS

The NEPA/CEQA Re-Validation Form assessed several sites including the Proposed Plan site which were determined to facilitate the completion of the Project. Potential impacts created by the Proposed Plan are considered temporary and construction-related, not operational. This Addendum supplements the information contained in the Final EIR/EIS and has been prepared to ensure that the potential impacts of the Proposed Plan have been fully evaluated and that any such potential impacts have been reduced to a level of less than significant with implementation of project design and mitigation measures as presented below. Note that this Addendum follows the NEPA format for environmental topics and all CEQA topics are adequately addressed. Alternative 1A cited below is the SR-58 Kramer Junction Expressway Project (Project) as approved by Caltrans.

3.3.1 Land Use

As noted in the Mine Reclamation Plan, the San Bernardino County General Plan land use designation of the Proposed Plan Site and the vicinity is Resource Conservation (RC). As noted on page 3.1-13 of the Final EIR/EIS:

> Aside from uses that would be displaced at Kramer Junction and land-serving existing transportation uses, all of the land that would be used under Alternative 1A (Project) is land that is currently undeveloped (within districts zoned as RC and RL). Land use change would occur under Alternative 1A, but given the proximity of the proposed alignments to the existing SR-58 alignment and the fact that most of the land is undeveloped, the changes in land use would constitute a minor adverse effect.

Additionally, the Final EIR/EIS concludes the following on page 3.1-23:

> The inconsistencies of Alternatives 1, 1A, and 3 with land use designations, such as RC and RL zones, would be addressed through minor amendments to zoning and land use designations for parcels affected by these alternatives. Approval of permanent easements and conditional use permits (CUPs) that would be required would be adopted by the appropriate agencies.

Furthermore, on page 4-4 the Final EIR/EIS notes:

> Build Alternatives 1, 1A, and 3 do not involve any project operations that would significantly affect land use and planning. It is anticipated that zoning and land use designation amendments and permanent easements, would occur to accommodate the proposed project.

Potential impacts created by the Proposed Plan are considered temporary and construction-related. The Proposed Plan site currently contains three 60-foot wide private landing strips, known as the Boron air field. Currently, Kiewit is leasing the Proposed Plan site from the landowner and the landowner will be allowed to re-grade the existing air strips for private use after reclamation is complete. Given the proximity of the Proposed Plan site to the existing
SR-58 alignment and the fact that most of the land is undeveloped, the conclusions drawn in the Land Use Section of the Final EIR/EIS remain accurate and unchanged by this Addendum. The Proposed Plan will not have any new or more severe significant land use impacts as compared to the original Project with approval of a CUP for mining and reclamation.

3.3.2 Parks and Recreation

Page 4-2 of the Final EIR/EIS states the following in regard to parks and recreation:

*All parks and recreational facilities in the study area are within Boron and are located greater than one mile from the westernmost limit of the project. No parks exist within or adjacent to the proposed alignments; therefore, there would be no impacts on parks or recreational facilities.*

The Proposed Plan site is located to the east of the limits of the Project’s area of disturbance, therefore the Parks and Recreation Section of the Final EIR/EIS remains accurate and is unchanged by this Addendum. For these reasons, the Proposed Plan will not have any new or substantially more severe significant impacts on parks and recreation as compared to the original Project.

3.3.3 Growth

Regarding potential growth, the Final EIR/EIS concludes that because none of the build alternatives would result in substantial growth impacts, avoidance, minimization and/or mitigation measures are not required. Furthermore, the Proposed Plan will not displace any existing residents or create any new residents as the Proposed Plan site does not contain existing residences and the Proposed Plan does not include the construction of new residences. Therefore, the Growth Section of the Final EIR/EIS remains accurate and is unchanged by this Addendum. The Proposed Plan will not have any new or more severe significant growth impacts compared to the original Project.

3.3.4 Farmlands and Timberlands

Page 4-2 of the Final EIR/EIS, states that there are no designated farmlands or timberlands (e.g. Forestry Resources) within or adjacent to the proposed project alignments that would be affected or converted as a result of the project. The Proposed Plan site is located adjacent to the Project alignment and therefore farmlands and timberlands would not be affected or converted by the Proposed Plan. The Farmlands and Timberlands Section of the Final EIR/EIS remains accurate and is unchanged by this Addendum. The Proposed Plan will not have any new or more severe significant farmland or timberland impacts compared to the original Project.
3.3.5 Community Cohesion/Character

The Final EIR/EIS recommends that Mitigation Measure CI-2, amongst others, be implemented to mitigate temporary/construction impacts on community cohesion/character. Mitigation Measure CI-2 states the following:

Mitigation Measure CI-2

A Construction Management Plan and a Transportation Management Plan will be prepared for the project and include coordination efforts that will inform the community about project activities, maintain access to and from the project area during construction, minimize construction-period traffic, and control glare, dust, and noise. Measures to minimize construction impacts in these sections also apply to minimizing permanent community cohesion/character impacts.

The Proposed Plan will be required to adhere to the Construction Management Plan and Transportation Management Plan in accordance with Mitigation Measure CI-2. Additionally, the Mine Reclamation Plan states that trucks utilized on the Proposed Plan site will not travel on any public roads or interact with any public traffic and to minimize dust generation, a water truck will be used during excavations and loading of haul trucks, prior to departing from the site. Furthermore, un-surfaced haul roads and access roads may also have dust controlled with biodegradable dust suppressants or covered with road base material as needed. The Community Cohesion/Character Section of the Final EIR/EIS remains accurate and is unchanged by this Addendum. The Proposed Plan will not have any new or more severe significant community cohesion/character impacts compared to the original Project.

3.3.6 Relocations

In regard to temporary impacts on relocations caused by the Project, the Final EIR/EIS states the following on page 3.4-45:

No temporary relocation would occur under the build alternatives. Relocations would occur prior to construction. No temporary relocation effects would occur as a result of implementation of any of the build alternatives.

Implementation of a Construction Management Plan (measure CI-2) that informs the community about project construction activities and maintains access to and from the project area during construction is expected to satisfactorily avoid or minimize the substantial adverse impacts on access to and from local businesses.

The Proposed Plan would not result in the relocation of any existing residences or business as the Proposed Plan site is currently vacant except for the private Boron air field and the reclaimed site will allow the landowner to re-grade the existing air strips for private use. Furthermore, the Proposed Plan will be required to adhere to adopted Construction Management Plan in accordance with Mitigation Measure CI-2. Therefore, the Relocations Section of the...
Final EIR/EIS remains accurate and is unchanged by this Addendum. The Proposed Plan will not have any new or more severe significant relocation impacts compared to the original Project.

### 3.3.7 Public Services

Page 4-3 of the Final EIR/EIS states the following in regard to Public Facilities:

*The proposed project would not involve construction of any habitable structures, nor would it increase population growth in the project area that could significantly affect the demand for community facilities and public services. The nearest community facilities are located approximately more than one mile from the westernmost area of the proposed project, and therefore would not result in community facility impacts.*

*No emergency service providers are headquartered in the study area, so none of the project alternatives would require relocation of emergency facilities. Construction of the project may temporarily hinder traffic flow in the area, resulting in delays in the response times of emergency service providers. However, these effects would be less than significant with the implementation of a transportation management plan, which is standard on Caltrans projects. The proposed project would provide improvement in safety, traffic operations, and congestion, which would likely result in a modest reduction of emergency response times.*

The Proposed Plan will not result in a demand for community facilities and public services as it does not involve the construction of habitable structures, nor would it increase population growth in the vicinity. Furthermore, the Proposed Plan will be required to adhere to an adopted Transportation Management Plan, as applicable. Therefore, the Public Facilities Section of the Final EIR/EIS remains accurate and is unchanged by this Addendum. The Proposed Plan will not have any new or more severe significant impacts to public health and safety as compared to the original Project.

### 3.3.8 Utilities and Service Systems

Page 3.5-14 of the Final EIR/EIS, states that several utility types may require relocation so that they can continue to function, including overhead and underground electrical, underground gas, overhead and underground telephone, overhead cable telephone, water, septic tanks, a petroleum pipeline, underground fiber optic cables. The Final EIR/EIS recommends the following Caltrans’ standard practices, as mitigation measures in order to prevent unreasonable traffic delays and impacts to emergency access and utilities:

**Mitigation Measure UT-1**

*Caltrans will coordinate all utility relocation work with the affected utility companies to ensure minimum disruption to customers in the service areas during construction.*
Mitigation Measure TR-1

Caltrans will prepare a Traffic Management Plan (TMP) to ensure that local and regional traffic moves efficiently during construction. The TMP and the construction plans will be provided to community agencies, such as the fire department, prior to project commencement. The information provided will include access and traffic management plans that describe any projected temporary street closures or expected traffic delays due to construction vehicles on the roadways.

The Proposed Plan does not require the use of public or private utilities and currently no known utility infrastructure is located within the Proposed Plan site. As stated in the Mine Reclamation Plan, a lined pond (100 feet by 300 feet) and an on-site well to be located in the southwest corner of the Proposed Plan Site will be constructed and water used for dust control. All domestic waste shall be disposed into approved trash bins and removed by a commercial vendor. Portable toilets will be used on-site and serviced by a commercial vendor and bottled water will be provided to employees.

Furthermore, the Proposed Plan will be required to adhere to an adopted Transportation Management Plan, as applicable. Therefore, the Utilities and Service Systems Section of the Final EIR/EIS remains accurate and is unchanged by this Addendum. The Proposed Plan will not have any new or more severe significant impacts to utility and service systems as compared to the original Project.

3.3.9 Traffic

In regard to temporary impacts on traffic, the Final EIR/EIS states the following on page 3.6-12:

SR-58, which is a two-lane highway within the limits of the proposed project, is expected to remain open to traffic during the construction period. Detailed construction plans will be prepared during the design phase.

Although there are no emergency service facilities in the project study area, project construction may result in temporary traffic delays that could increase response times for emergency responders. Adoption of mitigation measure TR-1, which is standard for all Caltrans projects, would ensure that potential project effects on emergency services would not be substantial adverse effects under NEPA. This measure requires, for all build alternatives, preparation of a traffic management plan (TMP). The TMP will facilitate coordination with law enforcement, the California Highway Patrol (CHP), fire protection services, emergency service providers, and the public during the design phase and prior to construction. Key elements of a TMP include public awareness, motorist information strategies, and alternate route strategies, which are intended to minimize traffic delay and maintain access to key facilities throughout construction.

The Proposed Plan will be required to adhere to an adopted Transportation Management Plan, as applicable. Additionally, the Proposed Plan anticipates that access for workers to the Proposed Plan site will be available via existing SR-58. The Mine Reclamation Plan states that trucks
utilized to transport material to the new alignment will not travel on any public roads or interact with any public traffic. The Proposed Plan will include a 630 to 1,200 feet north of the project site through easements or right-of ways to be negotiated with adjacent property owners. Therefore, the Traffic Section of the Final EIR/EIS remains accurate and is unchanged by this Addendum. The Proposed Plan will not have new or more severe significant impacts to traffic as compared to the original Project.

3.3.10 Visual/Aesthetics

In regard to temporary impacts on aesthetics, the Final EIR/EIS states the following on page 3.7-95:

Potential visual impacts would result from earthmoving activities, limited removal of vegetation in the construction zone, and other construction activities (e.g., staging/stockpiling road-building materials, the presence of construction equipment, and temporary traffic barricades). Construction activities would include grading work, other routine construction activities, and truck shipments.

As stated in the Mine Reclamation Plan, when operations reach a depth of 10 feet, mining operation will be screened from the scattered residences. Furthermore, the current visual/aesthetic character of the Proposed Plan Site is anticipated to be restored upon completion as the reclaimed site will allow the landowner to re-grade existing air strips for private use, and proposed revegetation will reintroduce native plants.

The following mitigation measures are included in the Final EIS/EIR and will be implemented by the Project Proponent, as applicable, to mitigate potential visual/aesthetic impacts associated with the Proposed Plan:

Mitigation Measure AES-4

Native plantings will be used to minimize the visual impact of the highway and associated detention basins. Drought-tolerant native trees and shrubs will be planted at appropriate locations, especially near the drainages and drainage basins, and at the two proposed interchanges and railroad overcrossing to soften the structures. These interchanges will become the gateways into the community and will be landscaped. Inert materials will also be considered where appropriate to beautify these areas and reduce erosion. The restoration of desert scrub vegetation will include replanting of native vegetation and Joshua trees on disturbed sites, including staging areas, borrow pits, and other areas of surface disturbance. Any portion of existing SR-58 roadway pavement which is no longer needed will be removed, leaving an earthen surface that will be seeded with native seeds.

Mitigation Measure AES-6

All disturbed soil areas will be treated with erosion control measures, including seeding with native plant/native grass seeds.
Mitigation Measure AES-7

_During construction, existing vegetation will be retained to the maximum extent feasible by minimizing the amount of clearing and earthwork. During construction, Environmentally Sensitive Area (ESA) fencing will be provided around trees and vegetation to ensure its preservation._

Mitigation Measure AES-8

_Joshua trees that would be removed will be replanted away from the proposed pavement areas. If onsite relocation is not feasible, Caltrans will contact the San Bernardino County Building and Safety Office for a list of residents willing to adopt and care for the relocated trees. Transportation standards will follow best nursery practices._

Mitigation Measure AES-9

_Slopes will be landscaped with native vegetation to reflect vegetation in the surrounding area and to mask the hard lines created by engineered cuts and embankments._

The Visual/Aesthetics Section of the Final EIR/EIS remains accurate and is unchanged by this Addendum. The Proposed Plan will not have new or more severe significant impacts to visual/aesthetics as compared to the original Project.

### 3.3.11 Cultural Resources

In regard to temporary impacts on cultural resources, the Final EIR/EIS states the following on page 3.8-10:

*Impacts on cultural resources would result from construction of any of the build alternatives, not from operation of the facility itself. Impacts on cultural resources are considered permanent, not temporary.*

Therefore, although potential impacts created by the Proposed Plan are considered temporary and construction-related, potential impacts on cultural resources shall be considered permanent, not temporary.

Mitigation Measures CR-3 and CR-3a concerning “sensitive areas” and CR-4 and CR-5 concerning defined Environmentally Sensitive Areas (ESA) are among the mitigation measures recommended in the Final EIR/EIS to protect cultural resources. Mitigation Measures CR-3 and CR-3a are not considered applicable to the Proposed Plan as sensitive areas have not been identified within the Proposed Plan site. Furthermore, consultation with Laura Chatterton PQS, Lead Archaeological Surveyor from Caltrans District 8, on November 2, 2017, revealed that the Environmentally Sensitive Areas listed in Mitigation Measures CR-4 and CR-5 are not within the Proposed Plan site and therefore Mitigation Measure CR-4 and CR-5 shall not apply to the Proposed Plan.
In March 2017, Caltrans prepared the 4th Supplemental Historic Property Survey Report (HSPR) which incorporated analysis of the Proposed Plan site. The Area of Potential Effects (APE) for the Project was revised in consultation with Laura Chatterton PQS, Lead Archaeological Surveyor and Wil Ochoa, Project Manager. The Revised APE includes the limits of all three Build Alternatives proposed for the Project, including construction easements site, assessing direct and potential indirect impacts. The 4th Supplemental HSPR included the 3rd Supplemental Archaeological Survey Report (ASR) which concluded that no cultural resources were identified during cultural resource investigations. Although no new cultural resources were identified during the cultural resources investigations, the 3rd Supplemental ASR concluded the following:

*If previously unidentified cultural resources are discovered during project activities, it is Caltrans policy that work stop within 60 feet of the discovery until a Qualified Archaeologist can determine the nature and significance of the discovery.*

Furthermore, in regard to potential impacts on tribal cultural resources and Native American consultation, the Final EIR/EIS states the following on page 3.8-2:

*Consultation with interested parties, including Native American groups and historical organizations, was conducted beginning in 2007. A request was made to the Native American Heritage Commission (NAHC) for a search of the Sacred Lands file on July 6, 2007. The NAHC responded on November 15, 2007, stating that a search of the Sacred Lands File failed to indicate the presence of Native American cultural resources in the immediate project area. A list of twelve Native American individuals/organizations was provided by the NAHC for additional consultation in regard to Native American cultural resources or project-related concerns. The Caltrans District 8 Native American Coordinator ultimately decided that 10 individuals/organizations should be contacted. In addition, four local historical societies and preservation groups were contacted on December 27, 2007, to illicit comments or concerns regarding the proposed project. No concerns regarding cultural resources were raised by these groups. [Native American correspondence related to the proposed project is included in the Final EIR/EIS as attachments.]*

The 4th Supplemental HSPR included Native American consultation that began in 2007 and remained ongoing with the San Manuel Band of Mission Indians from 2007 to the time that the 4th Supplemental HSPR was prepared, March 2017. Additionally, the NAHC was contacted July 6, 2007 and a response was received on November 15, 2007 (as stated above); however, no further communication with the NAHC has occurred, as of the time that the 4th Supplemental HSPR was prepared, March 2017.

In accordance with the conclusion of the 3rd Supplemental ASR as well as general preventative measures associated with potential human remains to be found on the Proposed Plan site, the following mitigation measures, which are included in the Final EIS/EIR, shall be implemented by the Project Proponent to protect cultural resources:
Mitigation Measure CR-1

If cultural materials are discovered during construction, all earthmoving activity within and around the immediate discovery area will be diverted until a qualified archaeologist can assess the nature of significance of the find.

Mitigation Measure CR-2

If human remains are discovered, State Health and Safety Code Section 7050.5 states that further disturbances and activities shall cease in any area or nearby area suspected to overlie remains, and the county coroner contacted. 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), which will then notify the Most Likely Descendant (MLD). At this time, the person who discovered the remains will contact Gary Jones, District 8 Native American Coordinator at (909) 383-7505 so that they may work with the MLD on the respectful treatment and disposition of the remains. Further provisions of PRC Section 5097.98 are to be followed as applicable.

The Cultural Resources Section of the Final EIR /EIS remains accurate and is unchanged by this Addendum. The Proposed Plan will not have new or more severe significant impacts to cultural resources as compared to the original Project.

3.3.12 Hydrology and Floodplains

As stated by the Mine Reclamation Plan, the Proposed Plan site is within the Mojave hydrologic basin of the Antelope-Fremont Valleys and Coyote-Cuddeback Lakes watersheds. The overall Mojave hydrologic basin, which has a surface area of approximately 4,500 square miles, is located entirely within the County of San Bernardino. The Mojave River, located approximately 15 miles southeast of the Proposed Plan site, is the nearest major watercourse.

The Proposed Plan site is relatively flat with a slight gradient of less than 1% to the north-northwest to a low playa or drainage area with a slight gradient to the west towards Boron and Roger Dry Lake. Post-reclamation drainage on-site will be contained by the resulting shallow basin. Only minor sheet flow may drain into the borrow pit. No drainages are intersected by the Proposed Plan site.

The Project Proponent is required, per Caltrans contract, to comply with Statewide National Pollutant Discharge Elimination System (NPDES) and to prepare and implement a Storm Water Pollution Protection Plan (SWPPP) including applicable Best Management Practices (BMPs). The control of drainage, erosion, and sedimentation of the mine site will primarily involve the following BMPs:

- Limiting surface disturbance to the minimum area required for active operations;
- Monitoring erosion on slopes and implementation of one or more soil stabilization practices as applicable for the site such as: earthen berms or dikes; silt fence; fiber rolls; straw bales; gravel bags; sediment basin(s); straw mulch.
• Stabilizing disturbed areas through grading slopes to 3H:1V; and
• After project completion – final revegetation by seeding or hydro-seeding with native species.

There are no drainage or run-off channels that will be affected by the borrow pit. Further discussion regarding hydrology is included in Section 3.3.13 Water Quality, below. The Hydrology and Floodplains Section of the Final EIR/EIS remains accurate and is unchanged by this Addendum. The Proposed Plan will not have new or more severe significant impacts to hydrology and floodplains as compared to the original Project.

3.3.13 Water Quality

The Mine Reclamation Plan states that groundwater is anticipated to flow northwest and west, generally mimicking surface topography. The Final EIR/EIS reports groundwater at depths greater than 150 feet below ground surface (bgs). The Antelope Valley and Harper Valley groundwater basins underlie the Proposed Plan site.

According to the GeoTracker website, depth to groundwater is reported to be approximately 70 feet bgs in wells located near the area of Kramer Junction with a historical high groundwater elevation reported at 64.5 feet bgs in 2012. The Proposed Plan Site is to be excavated to an average depth of 25 to 40 feet, which is not anticipated to impact the water table. Water used for dust suppression on-site will be pumped from an on-site well. Water usage for dust suppression is not expected to have an impact or potential to increase siltation on the Proposed Plan site as most water used will evaporate.

Only direct precipitation may affect the Proposed Plan site and the borrow pit is designed with a 1% grade towards the northwest to collect any run-off that may collect in the pit thereby acting as a sediment or percolation basin. The slopes are designed at 3H:1V which would reduce possible slope erosion and runoff channeling down the slopes. There will be no run-off through or away from the site. All precipitation will be collected within the borrow pit and allowed to evaporate or percolate.

During the course of mining and the final design of the 3H:1V slope contouring, some erosion may occur during heavy rainfall on the slopes. Erosion caused by rainfall will be retained at the bottom of the borrow pit. Any water retained within the borrow pit will not impact adjacent properties or local roads due to its containment.

After each major storm event or at least quarterly, any final slopes and the access and haul roads will be visually inspected to determine if any substantial erosion is evident such as sheet, rill or gully erosion. A major storm event is defined as precipitation totals of 0.5 inch per 24-hour period. Any rills or gullies in excess of 8 square inches and are more than 10 linear feet located on final slopes shall be arrested using methods below.

Revegetation will be used for the long-term control of erosion. Access roads and mined surfaces will be water sprayed as necessary to reduce wind erosion during operations.
The following mitigation measures are included in the Final EIS/EIR and will be implemented by the Project Proponent as required per contract with Caltrans to protect water quality:

**Mitigation Measure WQ-1**

The project will comply with the provisions of the Statewide NPDES permit. Treatment BMPs, as described in Section 3 of the Department’s Statewide Storm Water Management Plan (SWMP) (Department 2003b) and the Project Planning and Design Guide (PPDG) (Department 2010), will be evaluated prior to completion of the Project Approval and Environmental Document phase and incorporated into the project’s engineering plans and specifications during final design. Design pollution prevention BMPs are selected to reduce post-construction discharges. If greater than 90 percent of the Water Quality Volume cannot be infiltrated within State Right of Way, approved Treatment BMPs will be included to remove general pollutants; for example, infiltration devices or detention basins. Construction site BMPs, as described in WQ-3, will be itemized in the final contract documents, incorporated into the SWPPP, and implemented during the construction period.

**Mitigation Measure WQ-2**

The contractor will be responsible for preparing a SWPPP according to the Department’s standards, incorporating all the BMPs listed in the contract plans, and amending the SWPPP during the course of construction as necessary. The resident Engineer will review and accept the SWPPP. The Resident Engineer will file electronically all compliance documents related to the Construction General Permit using the Storm Water Multi Application and Report Tracking System (SMARTS). The general contractor will also implement, inspect, and maintain all measures with oversight by the Resident Engineer.

**Mitigation Measure WQ-3**

Table 1-1 of the Department’s Construction Site Best Management Practices Manual (Department 2003c) and/or the Department’s Storm Water Quality Handbooks, Project Planning and Design Guide (Department 2010) include the following BMPs:

- Temporary soil stabilization
- Temporary sediment controls
- Tracking control
- Non-stormwater management
- Waste management
- Material storage and handling controls

At a minimum, the contractor will implement all of the appropriate BMPs under the minimum requirement column of Table 1-1 of the Department’s Construction Site Best Management Practices Manual (Department 2003c) and/or the Department’s Storm Water Quality Handbooks, Project Planning and Design Guide (Department 2010).
During completion of the final engineering and design plans, specific BMPs would be implemented by the contractor through the SWPPP. The plan will also include post-construction erosion control measures such as stabilization of all disturbed soil areas.

The Water Quality Section of the Final EIR/EIS remains accurate and is unchanged by this Addendum. The Proposed Plan will not have new or more severe significant impacts to water quality as compared to the original Project.

3.3.14 Geology/Soils/Seismic/Topography

Page 4-6 and page 4-7 of the Final EIR/EIS states the following regarding geology and soils:

Ground shaking is expected to occur at the site due to the predicted magnitude of peak ground accelerations for earthquakes along nearby faults. Landslides are not a major problem because the topography in the site region is subdued. Accordingly, the currently proposed design is favorable for accommodating future ground shaking or surface rupture. Compliance with Caltrans’ procedures regarding seismic design would also minimize any adverse effects related to seismic ground shaking. Seismic design would also meet County requirements for near-source design parameters under the UBC.

The potential for liquefaction during a seismic event is considered minimal to non-existent based on the reported deep groundwater depths. The potential for other geologic hazards related to liquefaction, such as lateral spreading, is also considered minimal to non-existent.

Additionally, in December 2016, Stantec prepared a Soil Survey Investigation Report for Caltrans and the Proposed Plan site was included within the Study Area. The Study Area is generally underlain by recent age alluvium, lake, playa, and terrace deposits made up of weathered rock and sand; unconsolidated and semi-consolidated.

The Study Area, as is most of Southern California, is located in a seismically active area. According to the DMG Preliminary Fault Activity Map of San Bernardino, the nearest recently active faults include the Kramer Junction Area Faults and South Lockhart Fault (CDMG, 1994). The Study Area is not located within an Alquist Priolo Special Studies Zone (A-P Zone). These and other faults are capable of generating significant seismic events (greater than 5.0 magnitude).

Based on the study findings, results of 10 on-site bore holes, and conclusions of the Soil Survey Investigation Report, the following are recommended for the Study Area soil:

- Soil represented by the investigation may be used within the Study Area for its intended purposes.
- No special requirements are warranted to protect construction workers from exposure to the chemicals of potential concern (COPCs) in soil during construction other than the normal safety practices associated with any grading construction project.
Additionally, the Proposed Plan site does not fall within a Geological Hazard Zone, as identified on the San Bernardino County General Plan Map Atlas, overlay map, CHDHC. There are no geologic conditions that could adversely affect the Proposed Plan.

The following mitigation measure is included in the Final EIS/EIR and will be implemented by the Project Proponent to minimize potential impacts related to geology and soils:

**Mitigation Measure GEO-1**

*Earthwork in the project area will be performed in accordance with the latest edition of the Caltrans Standard Specifications.*

The Geology/Soils/Seismic/Topography Section of the Final EIR/EIS remains accurate and is unchanged by this Addendum. The Proposed Plan will not have new or more severe significant impacts to geology and soils as compared to the original Project.

### 3.3.15 Paleontology

In regard to temporary impacts on paleontological resources, the Final EIR/EIS states the following on page 3.12-9:

*Any impacts to paleontological resources are permanent and irreparable; therefore, there would be no temporary impacts for any of the build alternatives.*

Therefore, although potential impacts created by the Proposed Plan are considered temporary and construction-related, potential impacts on paleontology shall be considered permanent, not temporary.

The Final EIR/EIS concludes that the stratigraphy of the study area suggests that there is a high potential for the presence of fossil resources and therefore a potential for adverse effects to occur to paleontological resources. The Proposed Plan site is within the vicinity of the study area as shown on Figure 3.12.1 of the Final EIR/EIS and therefore there is a high potential for the presence of fossil resources at the Proposed Plan Site.

The following mitigation measures are included in the Final EIS/EIR and will be implemented by the Project Proponent to minimize potential impacts related to paleontological resources:

**Mitigation Measure PA-1**

*Grading, excavation, and other surface and subsurface excavation in defined areas of the proposed project have the potential to affect nonrenewable fossil resources. A Paleontological Mitigation Plan (PMP) shall be prepared during final project design by a qualified paleontologist. The PMP will detail the measures to be implemented in the event of paleontological discoveries. The PMP shall include, at a minimum, the following elements.*
Mitigation Measure PA-2

Required 1-hour preconstruction paleontological awareness training for earthmoving personnel, including documentation of training, such as sign-in sheets, and hardhat stickers, to establish communications protocols between construction personnel and the Principal Paleontologist.

Mitigation Measure PA-3

There will be a signed repository agreement with an appropriate repository that meets Caltrans requirements and is approved by Caltrans.

The additional paleontological measures in the EIR/EIS pertain to details of the PMP which is under the overall management of Caltrans environmental contractors. The Paleontology Section of the Final EIR/EIS remains accurate and is unchanged by this Addendum. The Proposed Plan will not have new or more severe significant impacts to paleontological resources as compared to the original Project.

3.3.16 Hazardous Waste/Materials

No hazards related to explosives shall occur as a result of the Proposed Plan as excavations will not require any blasting. Page 3.13-33 of the Final EIR/EIS states the following regarding temporary impacts associated with hazardous waste/materials:

Construction activities, including earth moving activities, structure demolition, and pavement removal, could result in the disturbance and release of hazardous materials into the environment, a potential substantial adverse impact.

However, Stantec’s Soil Survey Investigation Report concluded that soil obtained from the Proposed Plan Site does not exhibit a characteristic of hazardous waste. Additionally, Stantec provided the following recommendations:

- Soil represented by the investigation may be used within the Study Area for its intended purposes.
- No special requirements are warranted to protect construction workers from exposure to the chemicals of potential concern (COPCs) in soil during construction other than the normal safety practices associated with any grading construction project.

Furthermore, the following determination is made on page 4-8 of the Final EIS/EIR:

According to the County of San Bernardino Hazard Overlay Maps, the project site is not within or adjacent to a high fire hazard area. The proposed project would not increase the exposure of people or structures to the risk of loss, injury, or death involving wildland fires.
The following mitigation measures are included in the Final EIS/EIR and will be implemented by the Project Proponent to ensure that impacts related to hazards and hazardous materials would be minor adverse:

**Mitigation Measure HAZ-6**

*All soil excavation conducted on-site will be monitored by the construction contractor for visible soil staining, odor, and the possible presence of unknown hazardous-material sources. Contaminated soils will be segregated and profiled for disposal.*

**Mitigation Measure HAZ-13**

*A site safety plan that addresses issues related to the management of potential health and safety hazards to workers and the public will be prepared and implemented prior to initiation of the proposed construction activities. Instructions, guidelines, and requirements for handling hazardous materials will be included in the site safety plan to ensure employee safety, as provided in Chapter 16, Hazardous Materials Communication Program, of the Caltrans Safety Manual.*

**Mitigation Measure HAZ-14**

*Wastes and petroleum products used during construction will be collected, transported, and removed from the project site in accordance with Resource Conservation and Recovery Act (RCRA) regulations and federal Occupational Safety and Health Administration (OSHA) standards, including Waste Management and Materials Pollution Control BMPs, Spill Prevention and Control, and Materials and Waste Management BMPs, Hazardous Waste Management. All hazardous waste will be stored, transported, and disposed of as required in Title 22, CCR, Divisions 4.5 and 49; CFR 261-263; and Caltrans requirements, as stated in Section 7-109, Solid Waste Disposal and Recycling Reporting, of the Caltrans Construction Manual.*

**Mitigation Measure HAZ-20**

*Coordination with the San Bernardino County Department of Airports and impacted airstrip and Boron Airport owners will be conducted to establish the appropriate construction or closure notification and safety procedures. The airstrip and Boron Airport do not appear to meet the requirements of CFR Title 14 Part 77.9; however, if during the coordination process it is determined that the FAA should be notified, then all notification requirements in accordance with CFR Title 14 Part 77.9 will be followed.*

The Hazardous Waste/Materials Section of the Final EIR/EIS remains accurate and is unchanged by this Addendum. The Proposed Plan will not have new or more severe significant impacts to hazards and hazardous materials as compared to the original Project.
3.3.17 Air Quality and Climate Change

Page 3.14-16 of the Final EIR/EIS states the following regarding temporary impacts on air quality:

_During construction, short-term degradation of air quality may occur due to the release of particulate emissions (airborne dust) generated by excavation, grading, hauling, and other activities related to construction. Emissions from construction equipment also are anticipated and would include CO, NOx, VOCs, PM10 and PM2.5, and toxic air contaminants such as diesel exhaust particulate matter. Ozone is a regional pollutant that is derived from NOx and VOCs in the presence of sunlight and heat._

_Sources of fugitive dust would include disturbed soils at the construction site and trucks carrying uncovered loads of soils. Unless properly controlled, vehicles leaving the site could deposit mud on local streets, which could be an additional source of airborne dust after it dries. PM emissions would vary from day to day, depending on the nature and magnitude of construction activity and local weather conditions. PM emissions would depend on soil moisture, silt content of soil, wind speed, and the amount of equipment operating. Larger dust particles would settle near the source, while fine particles would be dispersed over greater distances from the construction site._

To minimize dust generation, the mine operator will spray: working mine areas during excavations; on-site and the off-site access roads on a regular basis and more frequently as needed during windy conditions; and the material loaded into trucks prior to departing from the Proposed Plan site.

Furthermore, in regard to adherence to the applicable air quality management plan, the Final EIS/EIR states the following on page 4-8:

_During construction, the project would comply with all Mojave Desert Air Quality Management District (MDAQMD) Rules and Regulations regarding construction materials and methods identified in the region’s Air Quality Management Plan (AQMP). For example, all site disturbance activities would comply with Rule 403 (Fugitive Dust) requirements for fugitive dust suppression. In addition, the project will implement the Caltrans’ construction requirements specified in Caltrans’ Standard Specifications, Section 7-1.01F (Air Pollution Control). Avoidance, minimization, and/or mitigation measures have been incorporated into the proposed project to ensure that state and federal ambient air quality standards would not be exceeded._

_Additionally, on page 4-9 of the Final EIR/EIS:

_Construction odors resulting from the construction of the proposed project are not likely to affect a substantial number of people due to the fact that construction activities do not usually emit offensive odors._
The findings of the Final EIR/EIS remain valid for the Proposed Plan as compliance with the MDAQMD rules and regulations will be required. The Proposed Plan does not anticipate emittance of offensive odors as such odors are not identified as being associated with the proposed mining activities. The following mitigation measures are included in the Final EIS/EIR and will be implemented by the Project Proponent as applicable to minimize potential impacts related to air quality:

**Mitigation Measure AQ-1**

*Measures to reduce exhaust emissions specified in Section 7-1.01F (Air Pollution Control- Caltrans) shall include the following:*

- Maintain and operate construction equipment to minimize exhaust emissions. During construction, trucks and vehicles in loading and unloading queues would have their engines turned off when not in use to reduce vehicle emissions. Construction emissions should be phased and scheduled to avoid emissions peaks and discontinued during second-stage smog alerts.
- Properly tune and maintain all equipment in accordance with the manufacturer’s specifications.
- Use electricity from power poles rather than temporary diesel- or gasoline-powered generators if and/or where feasible.
- Use on-site mobile equipment powered by alternative fuel sources (i.e., methanol, natural gas, propane, butane) as feasible.
- Develop a construction traffic management plan that includes (1) consolidating truck deliveries; (2) providing a rideshare or shuttle service for construction workers; and (3) providing dedicated turn lanes for construction trucks and equipment on- and off-site.

**Mitigation Measure AQ-2**

*Measures to reduce particle emissions specified in MDAQMD Rule 403.2 (Fugitive Dust Control) include the following:*

The owner or operator of any construction/demolition source shall:

- Use periodic watering for short-term stabilization of disturbed surface areas to minimize visible fugitive dust emissions. For purposes of this rule, use of a water truck to moisten disturbed surfaces and actively spread water during visible dusting episodes shall be considered adequate to maintain compliance.
- Take actions to prevent project-related trackout onto paved surfaces.
- Cover loaded haul vehicles while operating on publicly maintained paved surfaces.
• Stabilize graded site surfaces upon completion of grading when subsequent development is delayed or expected to be delayed more than 30 days, except when such a delay is due to precipitation that dampens the disturbed surface enough to eliminate visible fugitive dust emissions.

The Air Quality Section of the Final EIR/EIS remains accurate and is unchanged by this Addendum. The Proposed Plan will not have new or more severe significant impacts to air quality as compared to the original Project.

Climate Change

The Final EIR/EIS discusses Climate Change and Greenhouse Gases in Section 4.3 at the State and Federal level. The County of San Bernardino adopted a Greenhouse Gas Emissions (GHG) Reduction Plan (September 2011; updated March 2015) (GHG Plan). The GHG Plan presents a comprehensive set of actions to reduce the County’s GHG emissions to 15% below 2007 levels by 2020, consistent with the AB 32 Scoping Plan. GHG emissions impacts are assessed through the GHG Development Review Process (DRP) by applying appropriate reduction requirements as part of the discretionary approval of new development projects. Through its development review process, the County implements CEQA requiring new development projects to quantify project GHG emissions and adopt feasible mitigation to reduce project emissions below a level of significance. A review standard of 3,000 MTCO₂e per year is used to identify projects that require the use of Screening Tables or a project-specific technical analysis to quantify and mitigate project emissions.

SR-58 Kramer Junction Expressway Project (Overall Highway Project)

There are four primary strategies for reducing GHG emissions from transportation sources: 1) improving the transportation system and operational efficiencies, 2) reducing travel activity, 3) transitioning to lower GHG-emitting fuels, and 4) improving vehicle technologies/efficiency.

To be most effective all four strategies should be pursued cooperatively. Caltrans and its parent agency, the California State Transportation Agency, have taken an active role in addressing GHG emission reduction and climate change. Recognizing that 40 percent of all human-made GHG emissions are from transportation, Caltrans created and is implementing the Climate Action Program that was published in December 2006. One of the main strategies in the Climate Action Program to reduce GHG emissions is to make California’s transportation system more efficient. The highest levels of carbon dioxide from mobile sources, such as automobiles, occur at stop-and-go speeds (0–25 miles per hour [mph]) and speeds over 55 mph; the most severe emissions occur from 0–25 miles per hour.

The purpose of the Project is to alleviate existing and future traffic congestion along SR-58 during peak hours. The Project would not generate new vehicular traffic trips since it would not construct new homes or businesses. In addition, the SR-58 improvements would reduce congestion and improve Levels of Service (LOS). Relieving congestion by enhancing operations and improving travel times in high congestion travel corridors would lead, in general, to reductions in GHG emissions.
In addition, vehicle fuel economy is increasing and near zero carbon vehicles will come into the market during the design life of this project. The greater percentage of alternative fuel vehicles on the road in the future will reduce overall GHG emissions as compared to scenarios in which vehicle technologies and fuel efficiencies do not change. California has recently adopted a low-carbon transportation fuel standard in 2009 to reduce the carbon intensity of transportation fuels by 10 percent by 2020.

The following measures from the Final EIR/EIS will also be included in the Proposed Plan’s conditions to reduce the GHG emissions and potential climate change impacts from the overall Project:

1. Caltrans and the California Highway Patrol are working with regional agencies to implement intelligent transportation systems (ITS) to help manage the efficiency of the existing highway system. ITS commonly comprise electronics, communications, or information processing used singly or in combination to improve the efficiency or safety of a surface transportation system.

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 next to frontage roads. Plants will vary in size, making sure that views are not obstructed.

3. The Project would incorporate the use of energy-efficient lighting along proposed ramps. LED bulbs installed by Caltrans have reduced energy associated with traffic signal lighting by about 80 percent from traditional incandescent traffic signals. This also helps reduce the project’s CO2 emissions. Indirect emissions from electricity use will continue to decline in the future as policies such as the state’s renewable portfolio standards implemented.

4. According to Caltrans’ Standard Specification Provisions, idling time for lane closure during construction is restricted to ten minutes in each direction; in addition, the contractor must comply with MDAQMD rules, ordinances, and regulations in regard to air quality restrictions.

Kramer Junction Borrow Pit (Proposed Plan)

Greenhouse gas emissions for transportation projects can be divided into those produced during construction and those produced during operations. Construction GHG emissions include emissions produced as a result of material processing, emissions produced by on-site construction equipment, and emissions arising from traffic delays due to construction. These emissions will be produced at different levels throughout the construction phase; their frequency and occurrence can be reduced through innovations in plans and specifications and by implementing better traffic management during construction phases.
In addition, with innovations such as longer pavement lives, improved traffic management plans, and changes in materials, the GHG emissions produced during construction can be mitigated to some degree by longer intervals between maintenance and rehabilitation events.

Three gases are currently evaluated due to typical combustion and operational sources; carbon dioxide (CO₂), methane (CH₄), and nitrous oxide (N₂O). Nitrous oxide is not of concern due to its very low emissions from this type of operation and methane is included but is also a very minor contributor.

The Proposed Plan is part of the construction process for the SR-58 Kramer Junction Expressway Project. The Proposed Plan’s GHG emissions are entirely related to mobile equipment (refer to Table 3). No processing equipment will be used on-site. GHG emissions were estimated using the CARB - SCAQMD’s Off-road Model - Mobile Source Emission Factors (http://www.aqmd.gov/ceqa/handbook/offroad/offroad.html); and Emission Factors for On-Road Heavy-Heavy Duty Diesel Trucks (EMFAC 2012; SCAQMD 2015 for year 2018); These factors are state-wide factors and are appropriate for this project.

Table 4 below lists the estimated mobile construction GHG emissions assuming 300 days of construction for up to three years. A screening threshold of 3,000 MTCO₂e per year has been adopted by the County as potentially significant to global warming. The Proposed Plan’s GHG emissions of 2,432.5 metric tons of carbon dioxide equivalent (MTCO₂e) per year would not exceed the County’s annual threshold. Note that construction emissions for a project may be spread over the lifespan of the overall Project life, in this case the 40-year life of the highway. This further reduces the annual emissions to 182.5 MTCO₂e.

<table>
<thead>
<tr>
<th>Source/Phase</th>
<th>CO₂</th>
<th>CH₄</th>
<th>N₂O</th>
</tr>
</thead>
<tbody>
<tr>
<td>Loader</td>
<td>579</td>
<td>0.0291</td>
<td>Negl</td>
</tr>
<tr>
<td>Dozer</td>
<td>493.5</td>
<td>0.0342</td>
<td>Negl</td>
</tr>
<tr>
<td>Excavator (2)</td>
<td>982.8</td>
<td>0.0508</td>
<td>Negl</td>
</tr>
<tr>
<td>Haul Trucks</td>
<td>57</td>
<td>0.0008</td>
<td>Negl</td>
</tr>
<tr>
<td>Grader</td>
<td>90.6</td>
<td>0.0063</td>
<td>Negl</td>
</tr>
<tr>
<td>Scraper</td>
<td>157.2</td>
<td>0.0133</td>
<td>Negl</td>
</tr>
<tr>
<td>Water and Lube Trucks</td>
<td>312</td>
<td>0.0165</td>
<td>Negl</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sub-Total Tons/Year</td>
<td>2,672</td>
<td>0.151</td>
<td>Negl</td>
</tr>
<tr>
<td>MTCO₂e / Year</td>
<td>2,429</td>
<td>3.44</td>
<td>---</td>
</tr>
<tr>
<td>Total MTCO₂e / Year</td>
<td></td>
<td></td>
<td>2,432.5</td>
</tr>
</tbody>
</table>

Total MTCO₂e for 3 years / 40-yr lifespan: 182.5
San Bernardino County Screening Threshold: 3,000
Significant: No

Source: SCAQMD Off-road Mobile Source Emission Factors 2018 and SCAQMD On-Road Heavy-Heavy Duty Diesel Trucks Emission Factors 2018; MTCO₂e factors: CH₄ x 25
Construction Period: 300 Days/year for three years
Mitigation Measure AQ-1 above includes several measures that will also reduce GHG emissions. These are related to maintaining equipment in accordance with manufacturer’s specifications and reducing idling times. As noted in the County GHG Plan, projects that do not exceed 3,000 MTCO\textsubscript{2}e are considered to be consistent with the County GHG Plan and determined to have less than a cumulatively considerable impact for GHG emissions with implementation of conditions listed below. The operator will be required to implement air quality mitigation measures that also reduce GHG emissions. These measures correspond to GHG reducing performance standards developed by the County in the GHG Plan and are listed below. To reduce GHG emissions, projects that emit 3,000 MTCO\textsubscript{2}e per year or less are considered to have less than significant impacts to climate change if they include the following performance standards as conditions of approval:

- **Waste Stream Reduction:** recycling at least 75% of waste normally sent to landfills. *This condition is not applicable for the Proposed Plan. The Proposed Plan is the development and utilization of fill material from an area directly adjacent to the new highway alignment instead of mining new material from a more distant location, reducing emissions from truck transportation.*

- **Vehicle Trip Reduction:** *This project demonstrates significant trip reduction because it is located adjacent to the new highway alignment.*

- **Water Conservation:** *The Proposed Plan will only use water for required dust control measures.*

- **Providing Education Materials:** Provide employees and staff educational materials about reducing waste, water conservation, and ride sharing available to employees. *The mine operator will provide these materials to employees.*


The GHG assessment determined that the Proposed Plan GHG emissions would not exceed the County GHG screening threshold of 3,000 MTCO\textsubscript{2}e per year and are consistent with the County GHG Plan and to have less than a cumulatively considerable impact. Compliance and implementation of the above conditions and mitigation measures and MDAQMD rules and regulations will further reduce emissions.

### 3.3.18 Noise and Vibration

No blasting is proposed on-site therefore, no noise and vibration impacts related to explosives shall occur as a result of the Proposed Plan.

Page 4-4 of the Final EIR/EIS states the following regarding noise and vibration:

Temporary noise impacts during construction of the project may intermittently dominate the noise environment in the immediate area of construction. Construction noise is regulated by Caltrans’ Standard Specifications, Section 14-8.02, and, as a result, any temporary impacts would be less than significant.
Potential impacts created by the Proposed Plan are considered temporary and construction-related and therefore the Proposed Plan shall adhere to Caltrans’ Standard Specifications. The following mitigation measures are included in the Final EIS/EIR and will be implemented by the Project Proponent as applicable to avoid and minimize potential impacts related to noise and vibration:

**Mitigation Measure NOI-1**

*To reduce noise levels from construction to the extent that is technically feasible and avoid unnecessary annoyance from construction noise, the construction noise control measures listed below will be implemented:*

- To the extent practicable, avoid using construction equipment or any other activity that could generate high noise levels near homes. If nighttime construction is required, the community will be advised.

- Place maintenance yards, batch plants, haul roads, and other construction-oriented operations in locations that would be the least disruptive to the community.

- Hold community meetings to explain to area residents the construction work, time involved, and control measures to be taken to reduce the impact of construction work, as appropriate.

- Schedule the timing and duration of construction activities to minimize noise impacts at noise-sensitive locations.

- As practicable, use noise-attenuating “jackets” or portable noise screens to provide shielding for pavement breaking, jack hammering, or other similar activities when work is close to noise-sensitive areas.

  - Do not exceed 86 dBA Lmax at 50 feet from the job site activities from 9 p.m. to 6 a.m.
  - Equip an internal combustion engine with the manufacturer-recommended muffler. Do not operate an internal combustion engine on the job site without the appropriate muffler.

The Noise and Vibration Section of the Final EIR/EIS remains accurate and is unchanged by this Addendum. The Proposed Plan will not have new or more severe significant impacts related to noise and vibration as compared to the original Project.

### 3.3.19 Energy

Page 4-3 of the Final EIR/EIS states the following regarding energy:

*Construction of the proposed project would result in short-term energy consumption related to the manufacture of construction materials, the use of construction equipment,*
and the use of workers; motor vehicles during the construction period of the project. However, construction-related energy consumption would be finite and limited and would have an incremental impact on area energy supplies.

Similarly, the Proposed Plan will result in a short-term increase in energy consumption due to construction-related mining, however, the increase in energy consumption would be finite and limited and would only have an incremental impact on area energy supplies. Therefore, the Energy Section of the Final EIR/EIS remains accurate and is unchanged by this Addendum. The Proposed Plan will not have any new or more severe significant impacts to energy as compared to the original Project.

3.3.20 Natural Communities

The Proposed Plan site consists of atriplex (saltbush or spinescale) scrub with desert sink scrub located to the north of the borrow pit, which is outside of the project footprint. The Proposed Plan site is co-dominated by spinescale saltbush (*Atriplex spinifera*) and white bursage (*Ambrosia dumosa*). Other shrub species include burrobush (*Ambrosia salsola*), winter fat (*Krascheninnikovia lanata*), Mojave cottonthorn (*Tetradymia stenolepis*), and all-scale (*Atriplex polycarpa*). Approximately 57 acres of the site is atriplex scrub and 7 acres are disturbed by the existing dirt air strips. No natural communities of special concern (as listed in the California Natural Diversity Database (CNDDB)) are present.

Although the Proposed Plan is not anticipated to result in impacts to natural communities, potential impacts to animal species and listed species are discussed and mitigated for in the following sections. The Natural Communities Section of the Final EIR/EIS remains accurate and is unchanged by this Addendum. The Proposed Plan will not have any new or more severe significant impacts to natural communities as compared to the original Project.

3.3.21 Wetlands and Other Waters

No federal or state jurisdictional waters are present on the Proposed Plan site. An existing drainage marked on the USGS topographic map is located north of the Proposed Plan site and would not be impacted by the Proposed Plan.

Although the Proposed Plan Site is not anticipated to impact any federal or state jurisdictional waters, the Project Proponent shall implement the following Final EIS/EIS mitigation measure, as applicable to avoid and minimize potential impacts related to wetlands and other waters:

**Mitigation Measure BIO-2**

*Water Pollution Control: Avoidance and minimization measures to be utilized in order to protect aquatic resources during the course of the project will include the implementation of BMPs ([Department 2003a](#)) and the Storm Water Pollution Prevention Plan (SWPPP) ([Department 2003b](#)) during all phases of construction.*
The Wetlands and Other Waters Section of the Final EIR/EIS remains accurate and is unchanged by this Addendum. The Proposed Plan will not have new or more severe significant impacts related to wetlands and other waters as compared to the original Project.

3.3.22 Plant Species

The Proposed Plan Site consists of atriplex (saltbush or spinescale) scrub co-dominated by spinescale saltbush and white bursage. Other shrub species include burrobush, winter fat, Mojave cottonthorn, and all-scale. Approximately 57 acres of the site is atriplex scrub and 7 acres are disturbed by the existing dirt air strips.

The Proposed Plan includes a revegetation plan to meet SMARA requirements which will implement a series of activities to revegetate portions of the site after completion of mining operations. All 64 acres of disturbed borrow pit area will be reclaimed and revegetated (except for areas where a future landing strip may be re-constructed). Physical reclamation procedures will include regrading to achieve planned slopes of 3H:1V, ripping compacted surfaces to a depth of about 1-foot to hold moisture, adding stockpiled surface material containing banked seeds in “islands” to a depth up to one-foot deep, seeding or hydro-seeding with commercial available native seeds, and staking or flagging reclaimed areas to eliminate additional disturbance. Detailed description of the Proposed Plan’s revegetation is available in the Revegetation Plan for the SR-59 Kramer Junction Expressway Project Kramer Junction Borrow Pit prepared by Jericho Systems Incorporated in October 2017 included with the Mine Reclamation Plan.

The Project Proponent shall implement the following Final EIS/EIS mitigation measures as applicable to protect the special-status plants that could be present:

**Mitigation Measure BIO-6**

*Preconstruction surveys for rare plants will be conducted by a qualified biologist during the appropriate blooming period. Any plants identified will be flagged and avoided, if feasible.*

**Mitigation Measure BIO-7**

*The project design will avoid impacts to special-status plants to the extent feasible.*

**Mitigation Measure BIO-8**

*Temporary Fence (Type ESA). ESA fencing will be established around those populations of special-status plants that are to be protected in place to prohibit all construction activities and access from impacting the rare plant populations within the project area.*

**Mitigation Measure BIO-9**

*Seeds will be collected from all those plant populations deemed appropriate for seed relocation if suitable habitat is available.*
Mitigation Measure BIO-10

*Biological Monitor.* A qualified biological monitor will monitor construction activities to ensure avoidance of any construction-related impacts to special status plant species.

Mitigation Measure BIO-11

*Species Protection Measures* will be made to ensure that temporary staging areas, storage areas, and access roads involved with this project will occur in the area of permanent direct impact. Access to the project site will be gained from the existing SR-58. No new access roads will be built as part of this project accept what was analyzed on project maps (refer to area 2-DARR”S 75 acres). Staging areas and equipment storage will take place on existing right-of-way of the realigned SR-58.

Mitigation Measure BIO-12

Joshua trees within the direct impact area with a circumference of 50 inches measured at four feet, measuring 15 feet high, or occurring in a cluster of 10 or more within close proximity to each other will be transplanted or stockpiled for future transplanting to the extent feasible. Joshua trees will be shown on the plans for avoidance or transplanting.

Mitigation Measure BIO-13

An Environmentally Sensitive Area (ESA) will be established around all Joshua trees within the project area that are to be protected in place, as shown on plans. To prohibit all construction activities and access from impacting the Joshua trees within the project area, temporary ESA fencing would be placed around the Joshua trees.

The Plant Species Section of the Final EIR/EIS remains accurate and is unchanged by this Addendum. The Proposed Plan will not have new or more severe significant impacts related to plant species as compared to the original Project.

3.3.23 Animal Species (Non-Listed Special Status Animals)

The Final EIR/EIS considers all direct impacts to non-listed special-status animals as permanent and therefore no analysis of potential temporary impacts occurred.

Six non-listed special-status animals are known to occur in the general region, and four have the potential to occur within the Proposed Plan site. These four are burrowing owl (*Athene cunicularia*), loggerhead shrike (*Lanius ludovicianus*), Le Conte’s thrasher (*toxostoma lecontei*), and American badger (*Taxidea taxus*). Potential habitat for the other two species, prairie falcon (*Falco mexicanus*) and silver-haired bat (*Lasionycteris noctivagans*), is not present in the Proposed Plan site.

The Project Proponent shall implement the following Final EIS/EIS mitigation measures, as applicable to protect the non-listed special-status animals that could be present:
Mitigation Measure BIO-14

A preconstruction survey of the project site for burrowing owl will be conducted; the time lapse between surveys and site disturbance will be as short as possible and will be determined based on consultation with CDFW, but will not exceed 7 days prior to commencing construction activities.

Mitigation Measure BIO-15

Species Protection. Measures will be implemented to ensure that temporary staging areas, storage areas, and access roads for this project will occur in the area of permanent direct impact. Access to the project site will occur in the area of permanent direct impact.

Mitigation Measure BIO-16

Species Protection: If burrowing owls are found on-site during the preconstruction sweep:

- Occupied burrows shall not be disturbed during the nesting season (February 1 through August 31) unless a biologist can verify through non-invasive methods that either the owls have not begun egg laying and incubation or that juveniles from the occupied burrows are foraging independently and are capable of independent flight.

- A Burrowing Owl Mitigation and Monitoring Plan will be submitted to CDFW for review and approval.

- All relocation shall be approved by CDFW.

Mitigation Measure BIO-17

If, during preconstruction surveys, a burrowing owl is encountered, habitat compensation will be assessed and coordinated with CDFW during preparation of the Burrowing Owl Mitigation and Monitoring Plan.

Appropriate mitigation lands for burrowing owl will be determined during preparation and CDFW agency approval of the Burrowing Owl Mitigation and Monitoring Plan. CDFW may allow the mitigation lands acquired following the above mitigation rations to account for more than just burrowing owl, if species-specific habitat criteria are met in the habitat acquisition proposal. As provided in CDFW (2012) the mitigation for permanent habitat loss necessitates replacement with an equal or greater habitat area.

Mitigation Measure BIO-18

To avoid any impacts to migratory birds (including loggerhead shrike and Le Conte’s thrasher), vegetation removal must take place between September 15 and February 15 (outside of the breeding season). If, because of construction schedules, it is necessary to
remove vegetation, including trees, during the breeding season (February 16 through September 14), a biological construction monitor must perform a preconstruction survey of the entire area where vegetation will be removed. All measures shall be taken to minimize impacts on nesting birds. A preconstruction sweep for nesting birds will be conducted prior to construction activities outside of the nesting season as well. The sweep will include areas used for staging, storage, sign placement, or parking. If an active bird nest is detected during surveys, a nest avoidance buffer will be implemented with a radius of 100 feet or as determined by the biological monitor present during construction to monitor nest activity while still allowing construction to take place.

Mitigation Measure BIO-19

A preconstruction survey will take place to ensure that no American badgers are located within the project limits.

Mitigation Measure BIO-20

Biological Monitor: A qualified biological monitor will monitor construction activities to ensure avoidance of any construction related impacts on American badger.

Mitigation Measure BIO-21

Species Protection: If a burrow occupied by badgers is found during construction, all construction activities will cease in the vicinity of the burrow, and coordination with CDFW will take place so that appropriate protective measures can be implemented.

The Animal Species Section of the Final EIR/EIS remains accurate and is unchanged by this Addendum. The Proposed Plan will not have new or more severe significant impacts related to animal species as compared to the original Project.

3.3.24 Threatened and Endangered Species

The Final EIR/EIS considers all direct impacts to threatened and endangered species as permanent and therefore no analysis of potential temporary impacts was included. The Final EIR/EIS found two animal species listed as threatened under state and federal endangered species laws were found along portions of the new SR-58 alignment and have potential for occurrence in the Proposed Plan site; the desert tortoise (Gopherus agassizii) (federally and state Threatened) and the Mohave ground squirrel (Xeropermophilus mohavensis) (state Threatened).

The Proposed Plan site, which consists of saltbush scrub and is impacted by graded air strips and its proximity to the existing SR-58, was deemed low quality for desert tortoise in the Final EIR/EIS. The Site is not within critical habitat and will be further isolated by the new SR-58 alignment to the north.

Caltrans has been in contact with the U.S. Fish and Wildlife Service (USFWS) and the California Department of Fish and Wildlife (CDFW) over the course of the Project’s environmental review.
The original Biological Opinion (BO) (FWS-SB/KRN-12B0203-14FO423) dated June 30, 2014 was amended with BO FWS-SBR-12B0203-14FO423 dated June 14, 2017. This Amendment assessed several additional impact areas including the Proposed Plan site. Given the existing disturbance on the site, the proximity of the site to SR-58, the results of the surveys, and the habitat types present, the Amendment concluded that few, if any, desert tortoises are likely present within the Proposed Plan site. USFWS determined that disturbance of the Proposed Plan site would not affect critical habitat of the desert tortoise or other areas important for the long-term conservation of the species with implementation of the mitigation measures below, which are included in the Final EIS/EIS, as applicable to protect threatened and endangered species that could be present.

In addition, the CDFW issued a California Endangered Species Act Incidental Take Permit No. 20181-2016-004-R6 for the SR-58 Kramer Realignment Project to Caltrans, the Permittee on September 15, 2017. The 2081 “take” permit includes “Area 2” (Proposed Plan site) and covers desert tortoise and Mohave ground squirrel. The 2081 take permit’s conditions of approval require compliance and implementation of the mitigation measures in the Final EIR/EIS and conditions in the BO referenced above. The complete set of the Conditions of Approval are included in the 2018 Take Permit on file with the County and the CDFW.

Final EIR/EIS Mitigation Measures for Desert Tortoise and Mojave Ground Squirrel

Mitigation Measure BIO-22

Field Contact Representative or Resident Engineer. Caltrans will assign/designate a staff response to act as the Field Contact Representative (FCR) or Resident Engineer (RE) with specific experience in the implementation of environmental compliance programs. The FCR/RE will serve as the environmental compliance monitor for the project. They will be present throughout construction period. This individual will be the liaison among the wildlife agencies, FHWA, Authorized Biologist(s), and Biological Monitor(s). The FCR/RE and Authorized Biologist will work closely together to ensure compliance with the various conditions and requirements of project permits and approvals set forth in the biological opinion and supporting plans appended to the biological assessment.

Caltrans’ FCR/RE will act on the advice of the Authorized Biologist(s) and Biological Monitor(s) to ensure conformance with the protective measures set forth in the biological opinion. The Authorized Biologist(s) will have the authority to immediately stop any activity that is not in compliance with these conditions and/or order any reasonable measure to avoid take of an individual of a listed species. If required by an Authorized Biologist and Biological Monitor(s), Caltrans’s FCR/RE will halt all construction-related ground disturbance and other activities in areas specified by the Authorized Biologist(s)

Mitigation Measure BIO-23

Authorized Biologists and Biological Monitors. Caltrans will review the credentials of all individuals seeking approval as Authorized Biologists prior to being submitted to USFWS
to ensure the individuals possess the appropriate experience and training to serve as Authorized Biologists. Caltrans will then submit the credentials of appropriate individuals to USFWS and CDFW for approval at least 30 days prior to the time they must be in the field.

The Authorized Biologist will be responsible for all aspects of clearance surveys, monitoring, developing and implementing the worker environmental awareness program, contacts with agency personnel, reporting, and long-term monitoring and reporting and be present, along with approved Biological Monitors, during construction, operation, and maintenance that could affect desert tortoises. Biological Monitors will be approved and supervised by the Authorized Biologist.

Mitigation Measure BIO-24

Pre-Construction Surveys. Within desert tortoise habitat, Authorized Biologists will conduct pre-construction surveys of the project area including the right-of-way, staging areas, access routes, and all other construction sites. The surveys will also cover the adjacent undeveloped lands located between the existing and new alignment. Authorized Biologists will survey the right-of-way to locate tortoises and their burrows within 50 feet of the right-of-way. Transects will be no greater than 10 meters (30 feet) apart. If construction occurs during the desert tortoise active season (March 1 through October 31), or when temperatures and environmental conditions are conducive to tortoise activity as determined by an Authorized Biologist, the survey will occur within 48 hours of surface disturbance. During the inactive season (November 1 through February 28, except as noted above), when conditions are not conducive to tortoise activity as determined by an Authorized Biologist, one survey must occur within 72 hours of surface disturbance or up to five days in advance of disturbance.

The Authorized Biologist will flag all desert tortoise burrows, and will only excavate burrows and move desert tortoises if project activities are likely to affect them. If a desert tortoise is moved, the Authorized Biologist will move it into appropriate habitat adjacent to the project site, but will not move it more than 1,000 feet if it is an adult or 300 feet if it is a juvenile or hatchling. Following the preconstruction survey and the relocation of desert tortoises if determined necessary by the Authorized Biologist, the contractor will install permanent fencing to exclude desert tortoises from all work areas and rights-of-way, as specified in Measure BIO-29.

Mitigation Measure BIO-25

Biological Resource Information Program. Caltrans will be responsible for ensuring that all workers at the site receive worker environmental awareness training (Worker Environmental Awareness Program [WEAP]) prior to and throughout construction. The training will be administered to all on-site personnel including surveyors, construction engineers, employees, supervisors, inspectors, subcontractors, and delivery personnel. Caltrans will implement the WEAP to ensure that project construction and operation are both conducted within a framework of safeguarding environmentally sensitive resources.
The WEAP will be available to all workers on site throughout the life of the project. Multiple sessions of the presentation may be given to accommodate training all workers. The WEAP will include but will not be limited to the following:

a. Be developed by or in consultation with the Authorized Biologist and consist of an on-site or training center presentation in which supporting written material and electronic media, including photographs of protected species are made available to all participants;

b. Provide an explanation of the purpose and function of the desert tortoise minimization measures and the possible penalties for not adhering to them;

c. Inform workers that the FCR/RE, Authorized Biologist(s), and Biological Monitor(s) have the authority to halt work in any area where there would be an unauthorized adverse impact to biological resources if the activities continued;

d. Discuss general safety protocols such as hazardous substance spill prevention and containment measures and fire prevention and protection measures;

e. Provide an explanation of the sensitivity and locations of the vegetation, biological resources, and habitat within and adjacent to work areas, and proper identification of these resources;

f. Place special emphasis on desert tortoise and southwestern will flycatcher, including information on physical characteristics, photos, distribution, behavior, ecology, sensitivity to human activities, legal protection, penalties for violations, reporting requirements, and conservation measures required for the project;

g. Provide contact information for the Authorized Biologist(s) and Biological Monitor(s) for WEAP trainees to submit late comments and questions about the material discussed in the program, as well as to report any dead or injured wildlife species encountered during project-related activities;

h. Direct all WEAP trainees to report all observations of listed species and their sign to an Authorized Biologist for inclusion in the monthly compliance report;

i. Include a training acknowledgement form to be signed by each worker indicating that they received training and will abide by the guidelines; and

j. Provide an explanation regarding the protective measures to reduce the adverse effects associated with predation of desert tortoises by common ravens (Corvus corax) and other known predators of desert tortoise.

Only workers who have successfully completed the education program will be allowed to work on the project site.

Mitigation Measure BIO-26

Species Protection. Caltrans will ensure that the Authorized Biologist(s) will follow the procedures for handling tortoises in the USFWS field manual (2009). Only the
Authorized Biologist(s) will move desert tortoises and then solely for the purpose of moving them from harm’s way. The authorized Biologist(s) will document each desert tortoise encounter/handling with the following information, at a minimum: a narrative describing circumstances; vegetation type; date; conditions and health; any apparent injuries and state of healing; if moved, the location from which it was captured and the location in which it was released; maps; whether animals voided their bladders; and diagnostic markings (that is, identification numbers marked on lateral scutes).

Tortoises found in the project area will be handled and relocated by an Authorized Biologist in accordance with the most current USFWS protocol in the Desert Tortoise Field Manual. Tortoises excavated from burrows must be relocated to unoccupied natural or artificially constructed burrows immediately following excavation. The artificial or unoccupied natural burrows must occur 150 to 300 feet from the original burrow. Relocated tortoises will not be placed in existing occupied burrows. If an existing burrow that is similar in size, shape, and orientation to the original burrow is unavailable, the Authorized Biologist(s) would construct one. Desert tortoises moved during inactive periods will be monitored for at least two days after placement in new burrows to ensure their safety. The Authorized Biologist(s) would be allowed some judgement and discretion to ensure that survival of the desert tortoise is likely. The relocated tortoise will be monitored during construction activities to ensure that it shelters and does not return to the right-of-way and be in harm’s way.

Desert tortoises that are found aboveground and need to be moved from harm’s way will be placed at unoccupied shelter sites including unoccupied soil burrows, spaces within rock outcrops. Caliche caves, and the shade of shrubs at 150 to 300 feet from the point of encounter. During periods of the year when desert tortoises are generally active, a Biological Monitor will monitor these individuals to ensure that they do not move back into harm’s way or exhibit signs of physiological stress (e.g., gaping, foaming at the mouth). If a Authorized Biologist will immediately undertake actions to stabilize it (e.g., place it in a climate-controlled facility, shade it, lightly mist it with water); the desert tortoise will be released only after it is exhibiting normal behavior and temperatures are appropriate.

Whenever a vehicle or construction equipment is parked longer than two minutes within desert tortoise habitat, workers will inspect the ground around underneath the vehicle for desert tortoises prior to moving the vehicle. If the worker observes a desert tortoise, he or she will contact an Authorized Biologist or Biological Monitor. If possible, the desert tortoise will be left to move out of harm’s way on its own. If the desert tortoise does not move out of harm’s way within 15 minutes, an Authorized Biologist will move it out of harm’s way in accordance with the handling procedures.

Caltrans will ensure that no project personnel will exceed a vehicle speed limit of 20 miles per hour during project activities on unpaved access roads within tortoise habitat.
To prevent entry by common ravens (Corvus corax) and other predators such as the coote (Canis latrans), trash will be placed in a sealed container and emptied at the close of business each day. The project area will be kept as clean of debris as possible. Each water source will be caged or netted to prevent use by ravens.

Caltrans will ensure that workers do not bring firearms and pets into the project area. This measure does not apply to law enforcement personnel and working dogs.

**Mitigation Measure BIO-27**

Locating a Dead or Injured Tortoise. The Authorized Biologist will notify USFWS within 24 hours upon located a dead or injured desert tortoise during construction, operation, and maintenance of the project. The notification will be made by telephone and in writing or by electronic mail to BLM and USFWS. The report will include the date and time of the finding or incident (if known), location of the carcass, a photograph, cause of death (if known), and other pertinent information. Caltrans will submit desert tortoises that are fatally injured during project-related activities for necropsy, at its expense, as outlined in Berry (2001).

**Mitigation Measure BIO-28**

Designated Areas. Caltrans will confine all project activities to the right-of-way, approved access roads, and storage areas. All storage areas and vehicle turn-around locations will use previously disturbed habitat as much as possible and will require USFWS approval prior to the initiation of project activities. Caltrans will restrict project vehicles to the right-of-way, designated areas, or existing roads and will prohibit off-road or cross-country travel except in emergencies. Caltrans will not create any new dirt or paved roads. The project construction boundaries will be clearly delineated with fencing, skates or flagging. If unforeseen circumstances require disturbance beyond the project right-of-way, Caltrans will notify USFWS immediately.

Caltrans will ensure that the Authorized Biologist or Biological Monitor will inspect any open trenches or excavations within project work sites at least three times daily and prior to backfilling. If a desert tortoise is located within an open trench, a USFWS-authorized biologist will remove it. Project personnel will cover open trenches or excavations with metal plates if they are left open overnight or on the weekend to prevent desert tortoises from entering them.
Mitigation Measure BIO-29

Permanent Fence. Following preconstruction surveys and the relocation of desert tortoises if determined necessary by the Authorized Biologist but prior to the start of construction, Caltrans will require the contractor to install permanent fencing to exclude desert tortoises from all work areas and rights-of-way under the direction of an Authorized Biologist. Caltrans will construct the fence according to the protocols provided in Chapter 8 of the Desert Tortoise Field Manual (USFWS 2009). If desert tortoises are encountered during installation of the fence, the Authorized Biologist will move the individual the shortest distance possible to an area outside the fence where it will be safe. The Authorized Biologist will use his or her judgement regarding the best measures to use to ensure the desert tortoise does not immediately return to the area inside of the fence. The Authorized Biologist may contact USFWS or CDFW to discuss specific situations if the need arises.

After the fencing is installed and before the onset of ground-disturbing activities, the Authorized Biologist will survey the area and remove all desert tortoises. The Authorized Biologist will survey the area as much as is needed to ensure that all desert tortoises have been found; generally, all desert tortoises will be considered to have been removed once a complete survey of the work area is conducted without finding any additional animals. Desert tortoises that are found inside the fenced area will be placed on the other side of the desert tortoise exclusion fence. The authorized Biologist will use his or her best judgement to determine the optimal location for placement of desert tortoises. In general, desert tortoises will be moved to the nearest safe area south of the road alignment.

Caltrans will maintain the integrity of the fence to ensure that desert tortoises are excluded from the work area during construction and from the roadway thereafter. The fence will be inspected regularly; initially, it will be inspected on a monthly basis, but Caltrans may adopt a different schedule, based on experience. Caltrans will inspect and, if necessary, repair the fence immediately after any rainstorm that occurs during times of the year or at temperatures when desert tortoise are likely to be active.

Mitigation Measure BIO-30

Construction Monitoring. An appropriate number of Authorized Biologists and Biological Monitors will be available during construction for the protection of desert tortoise. Authorized Biologists will be assigned to monitor each area of activity where conditions exist that may result in take of desert tortoise (e.g., clearing, grading, re-contouring, restoration activities).

The Biological Monitor will survey ahead of the project activities and halt construction if he or she finds a desert tortoise in the path of construction equipment. Project activities will not resume until the desert tortoise moves out of harm’s way of the Authorized Biologist has relocated it.
An Authorized Biologist or Biological Monitor will inspect all excavations that are not within desert tortoise exclusion fencing on a regular basis (several times per day) and immediately prior to filling of excavation. If project personnel discover a desert tortoise in an open trench, an Authorized Biologist will move it to a safe location in accordance with the Desert Tortoise Field Manual (2009).

**Mitigation Measure BIO-31**

*Biological Monitor. A qualified biological monitor will monitor construction activities to ensure avoidance of any construction activities related to Mohave ground squirrel (MGS).*

**Mitigation Measure BIO-32**

*Biological Resource Information Program. MGS Awareness Training will be provided and integrated with WEAP Training prior to construction.*

**Mitigation Measure BIO-33**

*Species Protection. If any MGS are injured or killed during the course of construction, work must stop in the immediate area, the animal must be left in place as is, and the project monitor and the Resident Engineer will be immediately notified. Only the authorized biologist will handle and transport the animal to a qualified veterinarian.*

Furthermore, lands are to be acquired by Caltrans to mitigate the effects of the Project on the desert tortoise and the Mohave ground squirrel and will also mitigate any potential effect to migratory bird species. In Mitigation Measure BIO-34 through BIO-36 (listed below), which are included in the Final EIR/EIS, Caltrans, CDFW, and USFWS have agreed to mitigate affected areas of the overall Project at specific compensation ratios of 5:1 to 3:1 depending on location and habitat for both the desert tortoise and the Mojave Ground Squirrel. The areas of compensation take into account the Proposed Plan site.

**Mitigation Measure BIO-34**

*Caltrans, CDFW, and USFWS agreed to mitigate affected areas east of Fornessa Road with a mitigation ratio of 5:1, including the critical habitat areas east of US-395. Due to habitat quality, all areas west of Fornessa Road will be mitigated at a ratio of 3:1. The total impact area to be mitigated is shown in Table 3.21-2 in Section 3.21.3.1 (of the Final EIR/EIS). Alternative 3 is the alternative that would require more mitigation for desert tortoise, followed by Alternative 1 and Alternative 1A. Since Alternative 2 is located within more previously disturbed areas, and areas already mitigated by previous projects, it is the alternative that would require less mitigation for this project. These mitigation ratios are combined with the mitigation ratios for the MGS.*
Mitigation Measure BIO-35

In coordination with CDFW and USFWS, two oversized culverts, east and west of US-395, will be installed as part of the project. These culverts will be a minimum of 6 feet tall and 10 feet wide.

Mitigation Measure BIO-36

Similar to compensatory mitigation for desert tortoises, Caltrans and CDFW have agreed to mitigate affected areas east of Fornessa Road with a mitigation ratio of 5:1. Due to habitat quality all areas west of Fornessa Road will be mitigated at a ratio of 3:1. The total impact area to be mitigated is disclosed on Table 3.21-2 in Section 3.21.2.1 (of the Final EIS/EIR). Alternative 3 is the alternative that would require more mitigation for MGS, followed by Alternative 1 and Alternative 1A. Since Alternative 2 is located within ore previously disturbed areas, and areas already mitigated by previous projects, it is the alternative that would require less mitigation for this project. These mitigation ratios are combined with the mitigation ratios for desert tortoise.

The Threatened and Endangered Species Section of the Final EIR/EIS remains accurate and is unchanged by this Addendum. The Proposed Plan will not have new or more severe significant impacts related to threatened and endangered species as compared to the original Project.

3.3.25 Invasive Species

Page 3.22-2 of the Final EIR/EIS states the following regarding permanent impacts associated with invasive species:

Roads have been identified as potential avenues for the spread of invasive and exotic plants. Post-construction bare ground can serve as a breeding ground for invasive plant species. During construction activities, construction vehicles may transport invasive plant species from past work sites to the study area, or between work areas within the study area. The potential for adverse effects to natural open spaces from the introduction of invasive species from the proposed build alternatives is a possibility and potential impacts could be severe.

Therefore, the Project Proponent shall implement the following Final EIS/EIS mitigation measures, as applicable to reduce potential impacts from the introduction of invasive species during construction:

Mitigation Measure BIO-37

Measures to minimize the introduction or spread of nonnative species would include cleaning all equipment and vehicles with water (or another Caltrans approved method) to remove dirt, seeds, vegetative material, or other debris before entering and upon leaving the project site and the removal and disposal off site of existing nonnative species within the project area.
Mitigation Measure BIO-38

Measures to minimize the introduction or spread of nonnative species would include cleaning all equipment and vehicles with water (or another Caltrans approved method) to remove dirt, seeds, vegetative material, or other debris before entering and upon leaving the project site and the removal and disposal off site of existing nonnative species within the project area.

In addition to the mitigation measures listed above, Mitigation Measures AES-4, AES-6, AES-8, and AES-9 (listed in Section 3.3.10 of this Amendment) will also be incorporated to reduce potential impacts from the introduction of invasive species during construction, in accordance with the Final EIR/EIS. The Invasive Species Section of the Final EIR/EIS remains accurate and is unchanged by this Addendum. The Proposed Plan will not have new or more severe significant impacts related to invasive species as compared to the original Project.

3.3.26 Summary

Table 5
Comparison of Environmental Findings for the Original Project and the Proposed Plan

<table>
<thead>
<tr>
<th>Environmental Issue</th>
<th>Original Project</th>
<th>Proposed Plan</th>
</tr>
</thead>
<tbody>
<tr>
<td>Land Use</td>
<td>Less than Significant</td>
<td>Less than Significant</td>
</tr>
<tr>
<td>Parks and Recreation</td>
<td>No Impact</td>
<td>No Impact</td>
</tr>
<tr>
<td>Growth</td>
<td>Less than Significant</td>
<td>Less than Significant</td>
</tr>
<tr>
<td>Farmlands and Timberlands</td>
<td>No Impact</td>
<td>No Impact</td>
</tr>
<tr>
<td>Community Cohesion/Character</td>
<td>Less than Significant with Mitigation</td>
<td>Less than Significant with Mitigation</td>
</tr>
<tr>
<td>Relocations</td>
<td>Less than Significant with Mitigation</td>
<td>Less than Significant with Mitigation</td>
</tr>
<tr>
<td>Public Services</td>
<td>Less than Significant</td>
<td>Less than Significant</td>
</tr>
<tr>
<td>Utilities and Service Systems</td>
<td>Less than Significant with Mitigation</td>
<td>Less than Significant with Mitigation</td>
</tr>
<tr>
<td>Traffic</td>
<td>Less than Significant with Mitigation (for construction impacts only)</td>
<td>Less than Significant with Mitigation (for construction impacts only)</td>
</tr>
<tr>
<td>Visual/Aesthetics</td>
<td>Significant and Unavoidable</td>
<td>Significant and Unavoidable</td>
</tr>
<tr>
<td>Cultural Resources</td>
<td>Less than Significant with Mitigation</td>
<td>Less than Significant with Mitigation</td>
</tr>
<tr>
<td>Hydrology and Floodplains</td>
<td>Less than Significant with Mitigation</td>
<td>Less than Significant with Mitigation</td>
</tr>
<tr>
<td>Water Quality</td>
<td>Less than Significant with Mitigation</td>
<td>Less than Significant with Mitigation</td>
</tr>
<tr>
<td>Geology/Soils/Seismic/Topography</td>
<td>Less than Significant with Mitigation</td>
<td>Less than Significant with Mitigation</td>
</tr>
<tr>
<td>Paleontology</td>
<td>Less than Significant with Mitigation</td>
<td>Less than Significant with Mitigation</td>
</tr>
<tr>
<td>Hazardous Waste/Materials</td>
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<td>Less than Significant with Mitigation</td>
</tr>
<tr>
<td>Air Quality</td>
<td>Less than Significant with Mitigation</td>
<td>Less than Significant with Mitigation</td>
</tr>
<tr>
<td>Noise and Vibration</td>
<td>Less than Significant with Mitigation</td>
<td>Less than Significant with Mitigation</td>
</tr>
<tr>
<td>Energy</td>
<td>Less than Significant</td>
<td>Less than Significant</td>
</tr>
<tr>
<td>Natural Communities</td>
<td>Less than Significant with Mitigation</td>
<td>Less than Significant with Mitigation</td>
</tr>
</tbody>
</table>
4.0 ALTERNATIVES

As explained in the Section 3 and shown in Table 5 of this Addendum, the Proposed Plan will not have new or more severe significant impacts as compared to the original Project. This Addendum supplements the information provided in the Final EIR/EIS, but does not alter its conclusions or require the evaluation of additional alternatives. Furthermore, Caltrans concluded in their NEPA/CEQA Re-Validation Form that the Final EIR/EIS for the SR-58 Kramer Junction Expressway Project remains valid with implementation of project design and mitigation measures for the potential impacts of the Kramer Junction Borrow Pit area.

5.0 CEQA REQUIRED CONCLUSIONS

The discussion of the environmental topics in the Final EIR/EIS as listed in Table 5 above remains accurate and is unchanged by this Addendum. Pursuant to Section 15162 of the CEQA Guidelines, a subsequent EIR is not required for the Proposed Plan because:

(1) Substantial changes have NOT been proposed in the original Project that will require major revisions of the Final EIR/EIS due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects;

(2) Substantial changes have NOT occurred with respect to the circumstances under which the Project is undertaken that will require major revisions of the Final EIR/EIS due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects; and

(3) There is no new information of substantial importance, which was not known and could not have been known with the exercise of reasonable diligence at the time the Final EIR/EIS was certified, that shows any of the following: (a) that the Project will have one or more significant effects not discussed in the Final EIR/EIS, (b) that significant effects previously examined will be substantially more severe than shown in the Final EIR/EIS, (c) that mitigation measures or alternatives previously found not to be feasible would in fact be feasible and would substantially reduce one or more significant effects of the Project, but the Project proponents have declined to implement the mitigation measure or alternative, or (d) that mitigation measures or alternatives which are considerably different from those analyzed in the previous EIR would substantially reduce one or more significant effects on the environment, but the Project proponents decline to adopt the mitigation measure or alternative.
REFERENCES


County of San Bernardino General Plan as updated.


