



Diamond Springs Parkway Project Mitigation Monitoring and Reporting Plan

State Clearinghouse No. 2007122033



El Dorado County Department of Transportation

May 10, 2011



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**Mitigation Monitoring and Reporting Plan
Diamond Springs Parkway Project
County of El Dorado, California**

State Clearinghouse No. 2007122033

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MITIGATION MONITORING AND REPORTING PROGRAM

Introduction

El Dorado County has prepared an Environmental Impact Report (EIR) for the Diamond Springs Parkway Project (project) (State Clearinghouse No. 2007122033) pursuant to the California Environmental Quality Act (CEQA) (California Public Resources Code, Section 21000, et seq.). The April 2011 Final EIR for the project identifies potentially significant adverse environmental effects of the project. The Final EIR also identifies mitigation measures for each potentially significant impact that would serve to avoid or reduce these impacts to a less-than-significant level.

Summary of Project Description

Under the Diamond Springs Parkway Project the County of El Dorado, as the lead agency, through its Department of Transportation (DOT), proposes to improve traffic circulation along the Pleasant Valley Road and Missouri Flat Road corridors, in the vicinity of Diamond Springs, California, by constructing the Diamond Springs Parkway (Parkway), which would connect Missouri Flat Road with State Route 49 (SR-49)/Diamond Road.

The Diamond Springs Parkway is identified in the County's General Plan Circulation Element Table TC-1 and Circulation Map from Missouri Flat Road to SR-49 as a future four-lane, divided roadway, and it is included in the County's 2009 CIP and TIM Fee Program. As previously described, the proposed Parkway would extend eastward from Missouri Flat Road near its intersection with the Sacramento-Placerville Transportation Corridor, north of China Garden Road, and would connect to Diamond Road (SR-49). Construction of the Parkway would also require improvements and/or realignment to the following roadways: China Garden Road, Throwita Way, Truck Street, Bradley Street, and Old Depot Road. Additionally, a new Truck Street/Bradley Drive Connector would be constructed west of Diamond Road (SR-49) to enhance circulation within the project area.

As a part of the proposed project, El Dorado Irrigation District (EID), proposes to install a new 18-inch waterline in Diamond Springs Parkway and upgrade existing 6-inch and 8-inch waterlines with a new 12-inch waterline in SR- 49/Diamond Road from Pleasant Valley Road to Finch Road. Along with the installation of the waterlines, there will be appurtenances located outside of the roadway pavement such as vaults, blow-offs, above-ground air relief valves (ARV), manholes, and valves that may need to be installed and/or adjusted to grade.

The Final EIR for the Diamond Springs Parkway Project was approved on May 17, 2011 and, per CEQA Guidelines Section 15126.4, included mitigation measures to avoid any potentially significant impacts that may occur as a result of project implementation.

Mitigation Monitoring and Reporting Program

Section 21081.6 of the California Public Resources Code and Sections 15091(d) and 15097 of the CEQA Guidelines require public agencies “to adopt a reporting or monitoring program for changes to the project which it has adopted or made a condition of project approval in order to mitigate or avoid significant effects on the environment.” This Mitigation Monitoring and Reporting Plan (MMRP) has been prepared pursuant to Section 15097 of CEQA Guidelines to provide a mechanism for implementation, monitoring and verifying implementation of the mitigation measures identified in the Final EIR. This MMRP defines the implementation, responsibilities and reporting for the mitigation measures identified in the Final EIR.

The specific objectives of this MMRP are to:

- Assign responsibility for implementation and funding of mitigation measures identified in the Final EIR;
- Assign responsibility for and provide for verification of compliance with mitigation measures; and
- Provide the mechanism to identify areas of non-compliance and the need for enforcement action before irreversible environmental damage occurs.

Review of Mitigation Monitoring and Reporting Program

The overall management of the Mitigation Monitoring and Reporting Program will be implemented by the County of El Dorado’s Department of Transportation (DOT). DOT’s Project Engineer will review each mitigation measure in the Mitigation Monitoring and Reporting Program to ensure each measure was properly implemented. If the mitigation measure has been completed for the project, the Project Engineer should line through the mitigation measure on the form, and initial and date the line indicating that the mitigation measure has been completed.

Before the final project plans are approved, the Project Engineer will ensure that all mitigation measures are incorporated into construction documents, site plans, improvements plans, etc., as applicable.

For measures that require a report, program, or plan, the Project Engineer should determine if that report, program, or plan is due, based on the progress of implementing the program to date. If the report, program, or plan is timely, that fact should be reported in a review memorandum to the County Board of Supervisors. If no such program is necessary at that time, the memorandum should so state.

For ongoing measures, the memorandum should report whether these measures are actively being pursued, and if not, what action is appropriate. If the measures are no longer appropriate or necessary

because the environmental effect is no longer an issue, then that fact should be reported in the review memorandum, and the discontinuation of the mitigation measure should be recommended. If measures are not being implemented adequately, recommendations should be made to improve the application of the mitigation measure.

In addition to the mitigation measures identified herein, the County is required to obtain and comply with all state and federal regulatory permitting requirements and all applicable federal, state and local rules and regulations pertaining to the project and project construction activities. Section 3 of the Draft EIR (as incorporated by reference to the Final EIR) includes a discussion of regulatory requirements pertaining to environmental resources. It shall be the responsibility of the El Dorado County DOT to confirm and obtain all required permits and comply with all applicable regulatory requirements.

In some instances, a mitigation measure may fall under the joint responsibility of DOT and EID and/or Caltrans. In such cases, the implementing authority is indicated as such in the Mitigation Monitoring and Reporting Program Tables.

Availability of Mitigation Monitoring and Reporting Program

The completed MMRP will be retained in the County DOT project file and will be available for public inspection upon request.

Mitigation Monitoring and Reporting Program Tables

The following tables will assist the responsible parties in implementing the MMRP. The tables include the mitigation measures identified in the Final EIR and list the parties responsible for funding, implementing and verifying that mitigation measures have been implemented. The numbering of mitigation measures follows the numbering sequence used by the Draft and Final EIR.

AIR QUALITY

Mitigation Measure 4.3-1a

MM 4.3-1a. Comply with El Dorado County APCD Rule 223 (Fugitive Dust), as required by the Air Pollution Control Officer. Compliance may include, but is not limited to, implementation of the following measures:

- Application of water or suitable chemicals or other specified covering on material stockpiles, wrecking activity, excavation, grading, sweeping, clearing of land, solid waste disposal operations, or construction or demolition of buildings or structures (all exposed soil shall be kept visibly moist during grading);
- Installation and use of hoods, fans and filters to enclose, collect, and clean the emissions of dusty materials;
- Covering or wetting at all times when in motion of open-bodied trucks, trailers or other vehicles transporting materials, which create a nuisance by generating particulate matter in areas where the general public has access.
- Application of asphalt, oil, water or suitable chemicals on dirt roads;
- Paving of public or commercial parking surfaces;
- Removal from paved streets and parking surfaces of earth or other material which has a tendency to become airborne;
- Alternate means of control as approved by the Air Pollution Control Officer.

<p>Funded by: El Dorado County.</p>	<p>Implemented by: El Dorado County DOT and its construction contractors; EID and its construction contractors.</p>	<p>Implementation timing: During project construction activities (Phase 1 and Phase 2).</p>	<p>Verified by: El Dorado County DOT</p> <p>Phase 1 Verification Name: Title: Date:</p> <p>Phase 2 Verification Name: Title: Date:</p>	<p>El Dorado County DOT notes regarding implementation and effectiveness of measure:</p>
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Mitigation Measure 4.3-1b

MM 4.3-1b. Use only low-emission mobile construction equipment (e.g., tractor, scraper, dozer, etc.).				
Funded by: El Dorado County.	Implemented by: El Dorado County DOT and its construction contractors; EID and its construction contractors.	Implementation timing: During project construction activities (Phase 1 and Phase 2).	Verified by: El Dorado County DOT	El Dorado County DOT notes regarding implementation and effectiveness of measure:
			Phase 1 Verification Name:	
			Title:	
			Date:	
			Phase 2 Verification Name:	
			Title:	
			Date:	

Mitigation Measure 4.3-1c

MM 4.3-1c. Maintain construction equipment engines in proper operating condition.				
Funded by: El Dorado County.	Implemented by: El Dorado County DOT and its construction contractors; EID and its construction contractors.	Implementation timing: During Project construction activities (Phase 1 and Phase 2).	Verified by: El Dorado County DOT	El Dorado County DOT notes regarding implementation and effectiveness of measure:
			Phase 1 Verification Name:	
			Title:	
			Date:	
			Phase 2 Verification Name:	
			Title:	
			Date:	

Mitigation Measure 4.3-1d

<p>MM 4.3-1d. Develop and implement construction activity management techniques, such as extending construction period, reducing number of pieces used simultaneously, increasing distance between emission sources, reducing or changing hours of construction, and scheduling activity during off-peak hours.</p>				
<p>Funded by: El Dorado County.</p>	<p>Implemented by: El Dorado County DOT and its construction contractors; EID and its construction contractors.</p>	<p>Implementation timing: Prior to and during Project construction activities (Phase 1 and Phase 2).</p>	<p>Verified by: El Dorado County DOT</p>	<p>El Dorado County DOT notes regarding implementation and effectiveness of measure:</p>
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			<p>Phase 2 Verification Name: Title: Date:</p>	

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Mitigation Measure 4.3-1e

MM 4.3-1e. Comply with El Dorado County APCD Rule 224 (Cutback and Emulsified Asphalt Paving Materials).				
Funded by: El Dorado County.	Implemented by: El Dorado County DOT and its construction contractors; EID and its construction contractors.	Implementation timing: During Project construction activities (Phase 1 and Phase 2).	Verified by: El Dorado County DOT	El Dorado County DOT notes regarding implementation and effectiveness of measure:
			Phase 1 Verification	
			Name: Title: Date:	
Phase 2 Verification				
Name: Title: Date:				

Mitigation Measure 4.3-1f

MM 4.3-1f. Comply with El Dorado County APCD Rule 215 pertaining to architectural coatings.				
Funded by: El Dorado County.	Implemented by: 9.75 El Dorado County DOT and its construction contractors; EID and its construction contractors.	Implementation timing: During Project construction activities (Phase 1 and Phase 2).	Verified by: El Dorado County DOT	El Dorado County DOT notes regarding implementation and effectiveness of measure:
			Name:	
			Title: Date:	

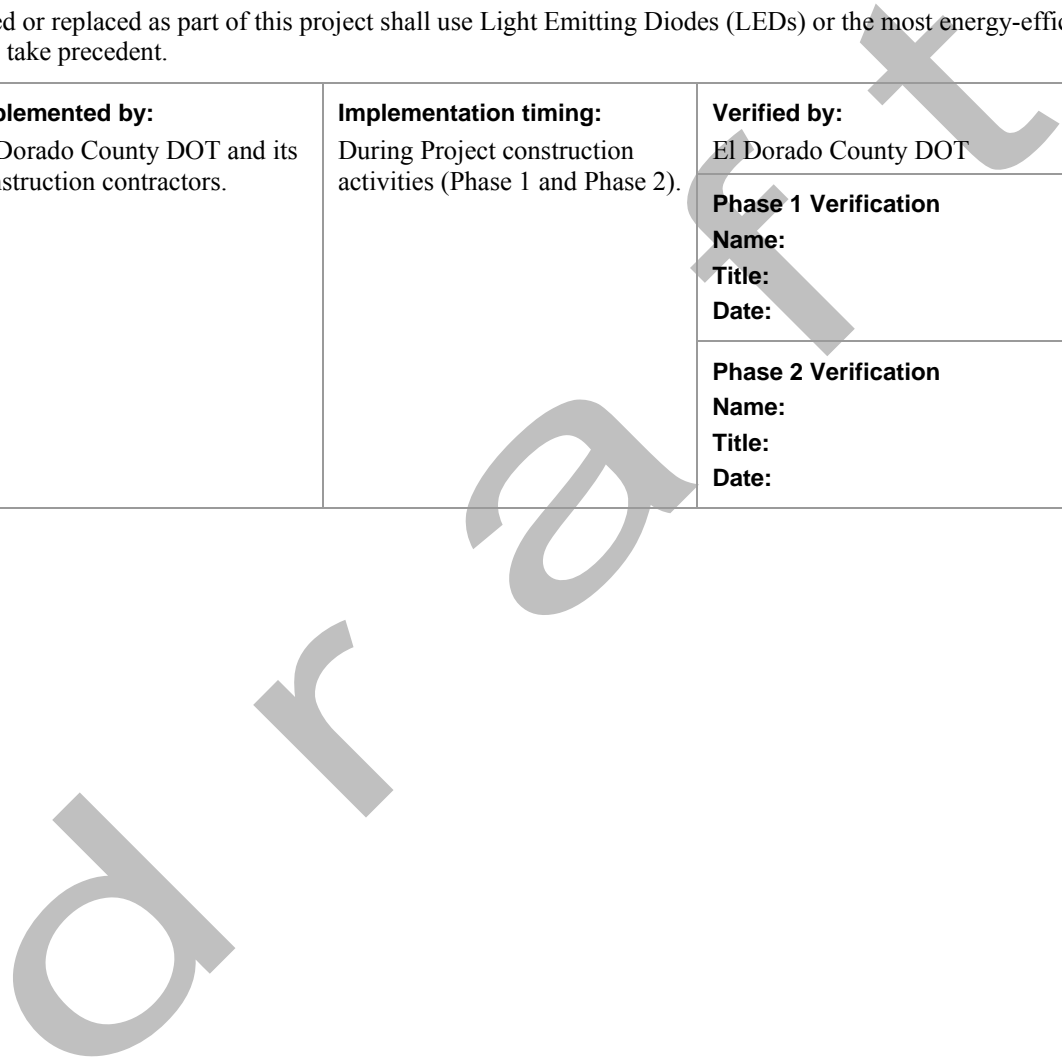
Mitigation Measure 4.3-1g

<p>MM 4.3-1g. Obtain permission from the APCD and/or the local fire agency prior to burning of wastes from land development clearing, depending upon the time of year the burning is to take place. Only vegetative waste materials may be disposed of using an outdoor fire.</p>				
<p>Funded by: El Dorado County.</p>	<p>Implemented by: El Dorado County DOT and its construction contractors.</p>	<p>Implementation timing: Prior to and during project construction activities (Phase 1 and Phase 2).</p>	<p>Verified by: El Dorado County DOT</p>	<p>El Dorado County DOT notes regarding implementation and effectiveness of measure:</p>
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			<p>Phase 2 Verification</p> <p>Name:</p> <p>Title:</p> <p>Date:</p>	

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Mitigation Measure 4.3-8a

<p>MM 4.3-8a. Any traffic lights installed or replaced as part of this project shall use Light Emitting Diodes (LEDs) or the most energy-efficient technology available, unless technical feasibility or safety concerns take precedent.</p>				
<p>Funded by: El Dorado County.</p>	<p>Implemented by: El Dorado County DOT and its construction contractors.</p>	<p>Implementation timing: During Project construction activities (Phase 1 and Phase 2).</p>	<p>Verified by: El Dorado County DOT</p>	<p>El Dorado County DOT notes regarding implementation and effectiveness of measure:</p>
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Mitigation Measure 4.3-8b

<p>MM 4.3-8b. Prior to commencement of construction, the project construction contractor(s) shall have in place a County-approved Solid Waste Diversion and Recycling Plan (or such other documentation to the satisfaction of the County) that demonstrates the diversion and recycling of salvageable and re-useable wood, metal, plastic, and paper products during project construction. The Solid Waste Diversion and Recycling Plan shall comply with County Ordinance Chapter 8.43–Construction and Demolition Debris Recycling Within the County of El Dorado. This requirement shall be included in the construction/specification bid documents for the project.</p>				
<p>Funded by: El Dorado County.</p>	<p>Implemented by: El Dorado County DOT and its construction contractors; EID and its construction contractors.</p>	<p>Implementation timing: Prior to and during Project construction activities (Phase 1 and Phase 2).</p>	<p>Verified by: El Dorado County DOT</p>	<p>El Dorado County DOT notes regarding implementation and effectiveness of measure:</p>
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BIOLOGICAL RESOURCES

Mitigation Measure 4.4-1a

MM 4.4-1a. A qualified biologist shall conduct a California red-legged frog (CRLF) survey of the project site 48 hours before the onset of work activities. If any life stage of CRLF is found, and these individuals are likely to be killed or injured by work activities, the approved biologist shall be allowed sufficient time to move them from the site before work activities begin. The biologist shall relocate CRLF(s) the shortest distance possible to a location that contains suitable habitat and that will not be affected by activities associated with the proposed project.

Exclusion fencing shall be installed to prevent frogs from entering the project site during construction. The exclusion fence shall be made of a fine mesh material with openings small enough to prevent passage of CRLF. The exclusion fence shall be a minimum of 18 inches tall above ground, and buried a minimum of six inches below ground. Prior to initiation of construction activities, the fencing shall be placed to the north of construction activities to prevent frogs that may disperse from Weber Creek from entering the project site. The fence shall extend no less than 100 feet beyond the limits of active construction, including any staging areas. The exclusion fencing shall be regularly monitored and repaired as needed. As construction progresses, fencing may be removed and re-installed in areas of active construction; however, fencing shall not be removed from those areas with active construction until all construction-related activities are completed.

During project activities, all trash that may attract predators shall be properly contained, removed from the work site, and disposed of regularly. Following construction, all trash and construction debris shall be removed from work areas.

Funded by: El Dorado County.	Implemented by: El Dorado County DOT and its construction contractors; EID and its construction contractors.	Implementation timing: Prior to and during Project construction activities (Phase 1 and Phase 2).	Verified by: El Dorado County DOT	El Dorado County DOT notes regarding implementation and effectiveness of measure:
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			Phase 2 Verification Name: Title: Date:	

Mitigation Measure 4.4-1b

MM 4.4-1b. Nesting Bird and Bat Surveys Associated with Vegetation Clearing and Other construction Activities: Removal of any trees and shrubs (multi-stemmed woody plants \geq 6 feet in height) shall be conducted outside of the breeding season (typically March 1 through October 1). If no tree and shrub removal will occur during the breeding season, no further mitigation will be necessary.

If removal of trees and shrubs must occur during the breeding season, nesting bird surveys shall be conducted by a qualified biologist within 250 feet of where removal would occur, no more than 14 days prior to removal. Concurrently, the biologist shall also survey for trees capable of supporting a sizeable bat maternity roost. If no active nests or roost trees are identified, then no additional mitigation is necessary.

If an active nest or potential maternity roost is identified, the nest shall be mapped and photographed. No tree removal shall occur within 250 feet of the active nest/roost unless approved by CDFG. For trees removed that are located more than 250 feet but less than 500 feet from an active nest, a biological monitor shall be present to observe the nest/roost during tree removal.

<p>Funded by: El Dorado County.</p>	<p>Implemented by: El Dorado County DOT and its construction contractors; EID and its construction contractors.</p>	<p>Implementation timing: Prior to and during Project construction activities (Phase 1).</p>	<p>Verified by: El Dorado County DOT Name: Title: Date:</p>	<p>El Dorado County DOT notes regarding implementation and effectiveness of measure:</p>
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Mitigation Measure 4.4-1c

<p>MM 4.4-1c. Nesting Bird Surveys Associated with Project Construction: During the breeding season (February through August), a nesting bird and bat survey shall be conducted in suitable habitat within 250 feet of construction activities prior to construction initiation. The survey shall be conducted no more than 14 days prior to initiation of construction activities. If an active nest/roost is observed in this area, all construction activities shall be halted, and CDFG shall be consulted to determine the appropriate mitigation measure. Nest/roost disturbance is dependent on a number of site-specific and activity-specific factors, including the sensitivity of the species, proximity to work activity, amount of noise or frequency of the work activity, and intervening topography, vegetation, structures, etc. Mitigation may be required to minimize disturbance nests/roosts, such as allowing nesting activity to conclude before continuing construction in an area, restricting certain types of construction practices/activities, creating screening devices to shield nest sites from construction activity, and establishing buffer areas around active nest/roost sites.</p>				
<p>Funded by: El Dorado County.</p>	<p>Implemented by: El Dorado County DOT and its construction contractors; EID and its construction contractors.</p>	<p>Implementation timing: Prior to and during Project construction activities (Phase 1 and Phase 2).</p>	<p>Verified by: El Dorado County DOT</p>	<p>El Dorado County DOT notes regarding implementation and effectiveness of measure:</p>
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			<p>Phase 2 Verification Name: Title: Date:</p>	

Mitigation Measure 4.4-2

MM 4.4-2. Riparian habitat would be avoided to the maximum extent feasible. Prior to initiation of any ground clearing or other construction activities, a CDFG Section 1602 Lake and Streambed Alteration Agreement shall be prepared and approved by CDFG. Mitigation required for direct and indirect impacts to all riparian habitat under CDFG jurisdiction will be carried out in accordance with the conditions of the Lake and Streambed Alteration Agreement.

Mitigation for impacts to riparian habitat shall include the following:

- 1) Prior to project construction, a riparian habitat restoration and enhancement mitigation and monitoring plan for shall be prepared and submitted to CDFG for approval. The plan shall include the following:
 - a) The plan shall identify those portions of the onsite drainage (ED3) and other riparian habitats within the project study area that would benefit most from riparian restoration and enhancement activities. This includes removal of trash, removal of noxious weed species, identification of areas requiring bank stabilization, and identification of areas most suitable for revegetation and a list of plants suitable for those areas.
 - b) The plan shall stipulate a vegetated setback along drainages, where feasible, of not less than 50 feet from the bank, in accordance with General Plan policies. The plan shall stipulate that, where vegetation is not present within the 50-foot buffer, suitable native plants shall be installed in order to create a vegetated buffer that will improve water quality and create wildlife habitat.
 - c) Restoration: Immediately following completion of construction, trash within the drainage shall be removed and suppression of noxious weed species shall be implemented. This shall be completed prior to planting of any additional plants.
 - d) Replacement: Replacement of all permanently affected riparian habitat (including that along ED3 and the three riparian inclusions) shall occur at a minimum ratio of 1:1 per woody riparian species removed. Species suitable for areas outside of but adjacent to the drainage include, but are not limited to, valley oak, coyote brush, and California sycamore. Species suitable for wetter portion of the channel and bank include, but are not limited to, Fremont cottonwood, California blackberry, black willow, arroyo willow, and California pipevine.
 - e) The plan shall include a timeline that identifies when activities shall occur and completion dates.
 - f) The plan shall include detailed monitoring that identifies quantifiable success criteria. Monitoring shall occur for a minimum of 5 years following completion of restoration and enhancement activities.

Funded by: El Dorado County.	Implemented by: El Dorado County DOT and its construction contractors.	Implementation timing: Prior to, during and after project construction activities (Phase 1 and Phase 2).	Verified by: El Dorado County DOT	El Dorado County DOT notes regarding implementation and effectiveness of measure:
			Phase 1 Verification Name: Title: Date:	
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Mitigation Measure 4.4-3a

MM 4.4-3a. The jurisdictional delineation prepared by MBA shall be used in preparation of USACE Section 404 permit applications. Mitigation required for direct and indirect impacts to all features will be carried out in accordance with permit requirements prior to initiation of project construction.

- a) As part of the permitting process, mitigation measures addressing impacts to jurisdictional Waters of the United States, including wetlands, will be defined and implemented. The acreage will be replaced or rehabilitated on a “no-net-loss” basis in accordance with USACE regulations. Habitat restoration, rehabilitation, and/or replacement shall be at a location and by methods agreeable to USACE.
- b) All grading plans will include adequate setback for preserved seasonal and perennial drainages in accordance with General Plan Policy 7.3.3.4. Measures to minimize erosion and runoff into seasonal and perennial drainages that are preserved will also be included in all grading plans. Appropriate runoff controls such as berms, storm gates, detention basins, overflow collection areas, filtration systems, and sediment traps shall be implemented to control siltation and the potential discharge of pollutants into preserved drainages.

Funded by: El Dorado County.	Implemented by: El Dorado County DOT and its construction contractors; EID and its construction contractors.	Implementation timing: Prior to, during and after project construction activities (Phase 1 and Phase 2).	Verified by: El Dorado County DOT	El Dorado County DOT notes regarding implementation and effectiveness of measure:
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Mitigation Measure 4.4-3b

<p>MM 4.4-3b. Standard BMPs to protect water quality shall be implemented prior to project construction and maintained until construction, including any revegetation, is completed. These include standard erosion control BMPs that are outlined in Section 4.8, Hydrology and Water Quality.</p>				
<p>Funded by: El Dorado County.</p>	<p>Implemented by: El Dorado County DOT and its construction contractors; EID and its construction contractors.</p>	<p>Implementation timing: Prior to and during project construction activities (Phase 1 and Phase 2).</p>	<p>Verified by: El Dorado County DOT</p>	<p>El Dorado County DOT notes regarding implementation and effectiveness of measure:</p>
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			<p>Phase 2 Verification Name: Title: Date:</p>	

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Mitigation Measure 4.4-5

<p>MM 4.4-5. The County shall comply with the Oak Woodland Management Plan (OWMP) by mitigating for oak woodland canopy removed in accordance with either Option A (On-Site Mitigation, Replanting and Replacement), Option B (Conservation Fund In-Lieu Fee), or a combination of these. As outlined in the OWMP, a 1:1 mitigation ratio shall be applied to the oak canopy removed that falls below the threshold in Table 1, while a 2:1 mitigation ratio shall be applied to the remaining oak canopy removed.</p>				
<p>Funded by: El Dorado County.</p>	<p>Implemented by: El Dorado County DOT and its construction contractors; EID and its construction contractors.</p>	<p>Implementation timing: Prior to, during and after project construction activities (Phase 1 and Phase 2).</p>	<p>Verified by: El Dorado County DOT</p>	<p>El Dorado County DOT notes regarding implementation and effectiveness of measure:</p>
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			<p>Phase 2 Verification Name: Title: Date:</p>	

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CULTURAL RESOURCES

Mitigation Measure 4.5-1

MM 4.5-1. If a potentially significant cultural resource is encountered during subsurface earthwork activities for the project, standard County practice will be implemented and all construction activities within a 100-foot radius of the find will be stopped until a qualified archaeologist determines whether the resource requires further study. Potentially significant cultural resources consist of but are not limited to stone, bone, glass, ceramic, wood, or shell artifacts; fossils; or features including hearths, structural remains, or historic dumpsites. Furthermore, El Dorado County DOT will include a standard inadvertent discovery clause in every construction contract. Any previously undiscovered resources found during construction will be recorded on appropriate Department of Parks and Recreation (DPR) forms and evaluated for significance in terms of CEQA and Section 106 of the NHPA criteria by a qualified archeologist. If the resource is determined significant under CEQA or the NHPA, the archaeologist will prepare and implement a research design and archaeological data recovery plan that captures those categories of data for which the site is significant. The archaeologist will also perform appropriate technical analyses, prepare a comprehensive report and file it with the appropriate Information Center, and provide for the permanent curation of the recovered materials. Construction activities within the 100-foot radius may continue once all appropriate recovery measures have been completed.

Funded by: El Dorado County.	Implemented by: El Dorado County DOT and its construction contractors; EID and its construction contractors.	Implementation timing: During project construction activities (Phase 1 and Phase 2).	Verified by: El Dorado County DOT	El Dorado County DOT notes regarding implementation and effectiveness of measure:
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Mitigation Measure 4.5-3

MM 4.5-3. El Dorado County shall require that a standard inadvertent discovery clause be included in every construction contract. In the event a fossil is discovered during any earthwork activities for the proposed project (including those occurring at depths of less than 10 feet), all excavations within 100 feet of the find shall be temporarily halted or delayed until the discovery is examined by a qualified paleontologist, in accordance with Society of Vertebrate Paleontology standards. The paleontologist shall determine the procedures to be followed before construction is allowed to resume at the location of the find. If the find is determined to be significant and DOT determines that avoidance is not feasible, the paleontologist shall design and carry out a data recovery plan consistent with the Society of Vertebrate Paleontology standards. The plan shall be incorporated into the project.

Funded by: El Dorado County.	Implemented by: El Dorado County DOT and its construction contractors; EID and its construction contractors.	Implementation timing: Prior to, and during project construction activities (Phase 1 and Phase 2).	Verified by: El Dorado County DOT	El Dorado County DOT notes regarding implementation and effectiveness of measure:
			Phase 1 Verification Name: Title: Date:	
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Mitigation Measure 4.5-4

MM 4.5-4. If human remains are encountered during earth-disturbing activities for the project, all work in the adjacent area shall stop immediately and the El Dorado County Coroner’s office shall be notified. If the remains are determined to be Native American in origin, the Native American Heritage Commission shall be notified and will identify the Most Likely Descendent, who will be consulted for recommendations for treatment of the discovered remains.

Funded by: El Dorado County.	Implemented by: El Dorado County DOT and its construction contractors; EID and its construction contractors.	Implementation timing: During project construction activities (Phase 1 and Phase 2).	Verified by: El Dorado County DOT	El Dorado County DOT notes regarding implementation and effectiveness of measure:
			Phase 1 Verification Name: Title: Date:	
			Phase 2 Verification Name: Title: Date:	

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GEOLOGY AND SOILS

Mitigation Measure 4.6-3

MM 4.6-3. Prior to project construction a final geotechnical report will be prepared in order to assess, among other things, the location and depth of expansive materials, undocumented fills, and tailings, including those located within the parcel to be used as a borrow, staging and storage site. Recommended soil stabilization procedures provided in the report (i.e., excavation, engineered fill replacement, moisture barrier, drainage improvements) will be incorporated into the project design.

Funded by: El Dorado County.	Implemented by: El Dorado County DOT and its construction contractors.	Implementation timing: Prior to and during project construction activities (Phase 1 and Phase 2).	Verified by: El Dorado County DOT	El Dorado County DOT notes regarding implementation and effectiveness of measure:
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HAZARDS AND HAZARDOUS MATERIALS

Mitigation Measure 4.7-4a

MM 4.7-4a. El Dorado County Department of Transportation will work with the EDCEMD to create an approved work plan that would evaluate the lateral and vertical extent of contamination associated with oil-impacted soil on the Bahlman Parcel, APN 327-270-04. The work plan will include the removal of the upper 2 to 3 feet of soil for later use as on-site backfill and the excavation, transportation, and proper disposal of the lower 3 to 4 feet of on-site soil, or other remedial actions as agreed upon by the El Dorado County Department of Transportation and the EDCEMD. The work plan will be implemented prior to the commencement of the Diamond Springs Parkway construction activities.

Funded by: El Dorado County.	Implemented by: El Dorado County DOT, El Dorado County Environmental Management Department, and project construction contractors.	Implementation timing: Prior to project construction activities (Phase 1 and Phase 2).	Verified by: El Dorado County DOT	El Dorado County DOT notes regarding implementation and effectiveness of measure:
			Phase 1 Verification Name: Title: Date:	
			Phase 2 Verification Name: Title: Date:	

Mitigation Measure 4.7-4b

MM 4.7-4b. El Dorado County Department of Transportation will conduct a soil vapor survey and/or groundwater testing within the Sierra Door property, APN 327-300-08, where construction activities related to the proposed project would occur. If the survey and tests indicate that contaminated soil and/or groundwater are present, El Dorado County Department of Transportation will coordinate with the EDCEMD and implement agreed upon remediation measures in areas disturbed by the proposed project prior to the commencement of the Diamond Springs Parkway construction activities.

Funded by: El Dorado County.	Implemented by: El Dorado County DOT El Dorado County Environmental Management Department and project construction contractors.	Implementation timing: Prior to project construction activities (Phase 1 and Phase 2).	Verified by: El Dorado County DOT	El Dorado County DOT notes regarding implementation and effectiveness of measure:
			Phase 1 Verification Name: Title: Date:	
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Mitigation Measure 4.7-5a

MM 4.7-5a. If lead is found during construction, El Dorado County Department of Transportation shall either abate the lead or provide special construction worker health and safety procedures during demolition activities. A lead-based paint survey shall be performed for all structures constructed prior to 1980 that will be demolished during project construction activities. Caltrans standard special provisions for removal of the existing yellow thermoplastic and yellow paint used for pavement markings throughout the project area shall be implemented. Disposal of any lead containing materials will occur at a Class 1 disposal facility in accordance with DTSC hazardous materials laws and regulations. All work shall be conducted in accordance with applicable construction worker health and safety requirements, including CalOSHA Construction Safety Orders for lead (Title 8 CCR Section 1532.1). These requirements may include air monitoring during construction, worker training, and preparation of a Lead Compliance Plan prior to construction.

Funded by: El Dorado County.	Implemented by: El Dorado County DOT and its construction contractors.	Implementation timing: During project construction activities (Phase 1 and Phase 2).	Verified by: El Dorado County DOT	El Dorado County DOT notes regarding implementation and effectiveness of measure:
			Phase 1 Verification Name: Title: Date:	
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Mitigation Measure 4.7-5b

MM 4.7-5b. A preliminary site investigation will be conducted prior to construction to identify levels of aerially deposited lead (ADL) in soils within 30 feet of SR-49 that are to be disturbed during project construction. Soil samples shall be tested prior to construction for total and/or soluble lead to properly classify the soils and ensure that all necessary soil management and disposal procedures are followed for the following APNs: 051-250-04, 051-250-06, 051-250-11, 051-250-12, 051-250-13, 051-250-31, 051-461-11, 051-461-12, 051-461-37, 051-461-51, 051-550-47, 054-342-15, 051-342-20, 051-342-23, 054-342-35, 054-342-36, 054-342-27, and 054-351-19.

If ADL is encountered, earthwork involving materials containing ADL shall conform to the provisions in Section 19, "Earthwork," of Caltrans Standard Specifications and of Special Provisions for "Aerially Deposited Lead." According to Caltrans requirements, the El Dorado County Department of Transportation or its contractor will prepare and implement a project-specific Lead Compliance Plan to prevent or minimize worker exposure to ADL while handling material containing ADL. The Lead Compliance Plan will be prepared in compliance with Title 8, California Code of Regulations, Section 1532.1 "Lead." The Plan will include monitoring, and average ADL concentrations shall not exceed 1.5 microgram per cubic meter of air per day. If concentrations exceed this level, the contractor shall stop work and modify the work to prevent release of ADL. The Plan will also include safety training for construction personnel. Excavation, reuse, and disposal of material with ADL shall be in conformance with all rules and regulations of responsible state and federal agencies.

Funded by: El Dorado County.	Implemented by: El Dorado County DOT and its construction contractors.	Implementation timing: Prior to and during project construction activities (Phase 1 and Phase 2).	Verified by: El Dorado County DOT	El Dorado County DOT notes regarding implementation and effectiveness of measure:
			Phase 1 Verification Name: Title: Date:	
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Mitigation Measure 4.7-5c

<p>MM 4.7-5c. If asbestos is found during construction, the asbestos shall be abated or DOT or EID shall provide special construction work health and safety procedures during demolition activities. An asbestos survey shall be performed for all structures constructed prior to 1980 that will be demolished or disturbed during project construction activities. If asbestos-containing materials are determined to be present, the materials shall be abated by a certified asbestos abatement contractor. All work shall be conducted in accordance with applicable construction worker health and safety requirements, including CalOSHA Construction Safety Orders for asbestos (Title 8 CCR Section 1529). These requirements may include air monitoring during construction, worker training, and preparation of an Asbestos Compliance Plan prior to construction. Furthermore, demolition and disposal shall be conducted in accordance with the El Dorado Air Quality Management District requirements.</p>						
<p>Funded by: El Dorado County.</p>	<p>Implemented by: El Dorado County DOT and its construction contractors; EID and its construction contractors.</p>	<p>Implementation timing: Prior to and during project construction activities (Phase 1 and Phase 2).</p>	<p>Verified by: El Dorado County DOT</p> <table border="1"> <tr> <td data-bbox="1209 586 1581 751"> <p>Phase 1 Verification Name: Title: Date:</p> </td> </tr> <tr> <td data-bbox="1209 751 1581 917"> <p>Phase 2 Verification Name: Title: Date:</p> </td> </tr> </table>	<p>Phase 1 Verification Name: Title: Date:</p>	<p>Phase 2 Verification Name: Title: Date:</p>	<p>El Dorado County DOT notes regarding implementation and effectiveness of measure:</p>
<p>Phase 1 Verification Name: Title: Date:</p>						
<p>Phase 2 Verification Name: Title: Date:</p>						

Mitigation Measure 4.7-5d

MM 4.7-5d. The Department of Transportation will provide on-site monitoring, by a qualified environmental professional, during construction activities, or contract with a qualified environmental professional to conduct soil-sample surveys prior to the start of construction for parcels formerly part of the Diamond & Caldor Railway depot and engine house on APNs 327-300-08, 327-270-03, 327-270-26, 327-270-27, 327-270-46, 327-270-48, and 327-270-49, and the Diamond Lime Mineral Plant (051-250-46 and 051-250-54). Construction monitoring or soil-sampling will be used to determine the presence of any hazardous materials releases, disposal areas, or contaminated soils. If suspected or recognized environmental conditions are identified during project soil excavation activities, the Department of Transportation will stop construction and consult with a qualified environmental remediation consultant to determine the appropriate course of action. Conversely, if pre-construction soil samples indicate contamination, the qualified environmental professional will prepare a remediation plan to be implemented prior to the start of construction.

In either case, the qualified environmental professional will develop and the Department of Transportation will implement a plan for remediation that addresses the encountered hazardous substances and provides for the appropriate disposal and monitoring required to provide remediation in accordance with existing Department of Toxic Substances Control standards.

Funded by: El Dorado County.	Implemented by: El Dorado County DOT and its construction contractors.	Implementation timing: Prior to and during project construction activities (Phase 1 and Phase 2).	Verified by: El Dorado County DOT	El Dorado County DOT notes regarding implementation and effectiveness of measure:
			Phase 1 Verification Name: Title: Date:	
			Phase 2 Verification Name: Title: Date:	

Mitigation Measure 4.7-5e

<p>MM 4.7-5e. Department of Transportation will conduct preconstruction sampling for all agricultural chemicals and hydrocarbons where soil is to be disturbed as a result of project activities. If contaminated soils are determined to be present, Department of Transportation will consult with a qualified environmental remediation consultant to determine the appropriate course of action according. Recommend remediation actions shall be approved by the EDCEMD and implemented prior to the start of construction.</p>				
<p>Funded by: El Dorado County.</p>	<p>Implemented by: El Dorado County DOT, El Dorado County Environmental Management Department and project construction contractors.</p>	<p>Implementation timing: Prior to project construction activities (Phase 1 and Phase 2).</p>	<p>Verified by: El Dorado County DOT</p>	<p>El Dorado County DOT notes regarding implementation and effectiveness of measure:</p>
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Mitigation Measure 4.7-5f

<p>MM 4.7-5f. Department of Transportation, in coordination with the El Dorado County Fire District shall conduct a risk management program (according to 40 CRF Part 68) specific to risks resulting from the proximity of vehicle traffic to existing large-volume propane tanks located near Bradley Drive. Should protection from vehicle traffic for the propane tanks be required the Department of Transportation will construct protection barriers in compliance with the Uniform Fire Code, the National Fire Protection Association’s Liquefied Petroleum Gas Code 58 and any other applicable regulations.</p>				
<p>Funded by: El Dorado County.</p>	<p>Implemented by: El Dorado County DOT, El Dorado County Fire District and project construction contractors.</p>	<p>Implementation timing: Prior to, during and after project construction activities (Phase 1 and Phase 2).</p>	<p>Verified by: El Dorado County DOT</p>	<p>El Dorado County DOT notes regarding implementation and effectiveness of measure:</p>
			<p>Phase 1 Verification Name: Title: Date:</p>	
			<p>Phase 2 Verification Name: Title: Date:</p>	

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NOISE

Mitigation Measure 4.10-1a

<p>MM 4.10-1a. Noise-reducing pavement shall be installed at SR-49/Diamond Road between the north end of the Bradley Drive intersection and the south end of the future Parkway intersection. If noise-reducing pavement is not installed, alternative noise reduction methods shall be agreed upon by the El Dorado County Department of Transportation and Caltrans and implemented in such a way to offer the same or greater noise reduction levels as the noise-reducing pavement.</p>				
<p>Funded by: El Dorado County.</p>	<p>Implemented by: El Dorado County DOT Caltrans and project construction contractors.</p>	<p>Implementation timing: Prior to and during project construction activities (Phase 1 and Phase 2).</p>	<p>Verified by: El Dorado County DOT</p>	<p>El Dorado County DOT notes regarding implementation and effectiveness of measure:</p>
			<p>Phase 1 Verification Name: Title: Date:</p>	
			<p>Phase 2 Verification Name: Title: Date:</p>	

Mitigation Measure 4.10-1b

MM 4.10-1b. The County shall require that construction contractors comply with all applicable local regulations regarding noise suppression and attenuation and shall require that engine-driven equipment be fitted with mufflers according to manufacturers' specifications. The following requirements shall be included in the construction specifications:

- a) Limit construction activities to the hours of 7:00 a.m. to 7:00 p.m. on weekdays and the hours of 8:00 a.m. to 5:00 p.m. on weekends and federally recognized holidays except as required to alleviate traffic congestion or safety hazards;
- b) Locate fixed construction equipment such as compressors and generators at distances no less than 250 feet from sensitive receptors (including occupied residential property boundaries);
- c) Shroud or shield impact tools, and muffle or shield intake and exhaust ports on power construction equipment; and
- d) Construction equipment using internal combustion engines shall be in proper tune.

Funded by: El Dorado County.	Implemented by: El Dorado County DOT and its construction contractors; EID and its construction contractors.	Implementation timing: During project construction activities (Phase 1 and Phase 2).	Verified by: El Dorado County DOT	El Dorado County DOT notes regarding implementation and effectiveness of measure:
			Phase 1 Verification Name: Title: Date:	
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