V.A.

## BEFORE THE BOARD OF DIRECTORS OF THE DEL PUERTO WATER DISTRICT

RESOLUTION CERTIFYING AN ENVIRONMENTAL IMPACT REPORT, ADOPTING ENVIRONMENTAL FINDINGS AND A STATEMENT OF OVERRIDING CONSIDERATIONS, ADOPTING A MITIGATION MONITORING AND REPORTING PROGRAM UNDER CEQA FOR THE DEL PUERTO CANYON RESERVOIR PROJECT, AND APPROVING THE DEL PUERTO CANYON RESERVOIR PROJECT

WHEREAS, the Del Puerto Canyon Reservoir Project (the "Project") involves the construction and operation of a reservoir on Del Puerto Creek to provide approximately 82,000 acre-feet (AF) of new off-stream storage for use by the Del Puerto Water District ("Del Puerto") and the San Joaquin River Exchange Contractors Water Authority (the "Exchange Contractors") (together, the "Project Partners").

WHEREAS, the enhanced storage will enable to the Project Partners to take delivery of Central Valley Project water supplies when available and during wet periods and store it for later irrigation use.

WHEREAS, Del Puerto is the lead agency for the proposed Project; and

WHEREAS, on June 27, 2019, pursuant to the California Environmental Quality Act, Public Resources Code § 21000 *et seq.*, (CEQA), and the CEQA Guidelines, California Code of Regulations, Title 14, Chapter 3, § 15000 *et seq.*, (Guidelines), a Notice of Preparation of an Environmental Impact Report (NOP) was issued with regard to Del Puerto's preparation of an Environmental Impact Report (EIR) for the Project and circulated for a 30-day public review period beginning June 27, 2019 and ending on July 29, 2019, to solicit comment on the content of the draft EIR; and

WHERE, the NOP also noticed a Scoping Meeting, which was held on July 24, 2019 at the Patterson Fire Station #2 in Patterson, California, to provide an opportunity to receive comments on the scope of the EIR; and

WHEREAS, the draft EIR (DEIR) for the Project was prepared and was made available and circulated for a 45-day public review and comment period, from December 12, 2019 through January 27, 2020, pursuant to CEQA Guidelines §15105; and

WHEREAS, the DEIR was available for public review online at <a href="https://www.delpuertocanyonreservoir.com/assets/pdf/reports/Del-Puerto-Canyon-Reservoir-Draft-EIR.pdf">https://www.delpuertocanyonreservoir.com/assets/pdf/reports/Del-Puerto-Canyon-Reservoir-Draft-EIR.pdf</a>, at Del Puerto's office, at the Exchange Contractors' office, and at the Patterson Public Library; and

WHEREAS, a Notice of Availability of the DEIR was published on December 12, 2019, in the Patterson Irrigator, and provided information on where to review the DEIR and how to provide comments on the DEIR; and

WHEREAS, during the public review and comment period, Del Puerto received verbal comments from 28 speakers at a public meeting that was held on January 15, 2020, and 84 comment letters; and

WHEREAS, Del Puerto staff and consultants have reviewed and evaluated all public and agency comments received on the DEIR during the public review and comment period and have prepared written responses in a Final EIR (FEIR), which includes the DEIR and appropriate revisions thereto and responses to comments; and

WHEREAS, Del Puerto staff and consultants have provided public agencies that commented on the DEIR, at least 10 days prior to the date of this Resolution, the responses to their comments; and

WHEREAS, the FEIR identifies potentially significant impacts that will be reduced to a less than significant level with specified mitigation measures, requiring the adoption of environmental findings and a Mitigation Monitoring and Reporting Program (MMRP); and

WHEREAS, there has further been prepared and reviewed by this Board of Directors a MMRP pursuant to Public Resources Code section 21081.6, which is also attached as Appendix I to the FEIR; and

WHEREAS, in light of the identification in the FEIR of significant and unavoidable environmental impacts of the Project, there has further been prepared and reviewed by this Board of Directors Findings of Fact and a Statement of Overriding Considerations, attached hereto as Exhibit "A" and incorporated herein; and

WHEREAS, the location and custodian of the DEIR and FEIR and other documents that constitute the record of proceedings for the Project is the Del Puerto Water District, 17840 Ward Avenue, Patterson, CA 95363. The DEIR and FEIR and documents relating to the Project are available for review on the website for the Project located at: https://www.delpuertocanyonreservoir.com/resources; and

WHEREAS, the DEIR, FEIR, MMRP, Findings of Fact and Statement of Overriding Considerations, and other documents and materials constituting the Administrative Record have all be submitted to the District's Board of Directors, as the decision-making body of the lead agency for the proposed Project, and this Board of Directors has reviewed and considered the information contained therein.

NOW, THEREFORE, BE IT RESOLVED by the Board of Directors of the Del Puerto Water District as follows:

1. Each of the matters set forth above is true and correct and made a part of this resolution.

#### 2. That this Board certifies that:

- (a) The FEIR for the Del Puerto Canyon Reservoir Project has been prepared in compliance with CEQA;
- (b) The FEIR for the Project was presented to this Board, as the decision-making body of the Del Puerto Water District, the lead agency for the proposed Project, and this Board has reviewed and considered the information contained in the FEIR prior to approving the Project; and
- (c) The FEIR for the Project reflects this Board's independent judgment and analysis.
- (d) The FEIR adequately describes the proposed Project, its significant environmental impacts, mitigation measures, and a reasonable range of alternatives to the proposed Project.
- 3. This Board hereby certifies the FEIR for the Project (State Clearinghouse No. 2019060254).
- 4. This Board hereby adopts the Findings of Fact and Statement of Overriding Considerations, constituting all findings required under CEQA regarding environmental impacts of the Project and mitigation measures, and adopts the MMRP for the Project.
- After consideration the FEIR in conjunction with making the findings as required by CEQA Guidelines § 15091, this Board hereby approves the Del Puerto Canyon Reservoir Project.

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| <ol> <li>District staff and consultants and legal counsel are authorized and directed to do all<br/>things necessary to carry out this certification and approval, including but not limited<br/>to, filing a Notice of Determination all as required by CEQA and its Guidelines.</li> </ol> |          |  |  |                         |               |                                       |                     |                         |
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|  | AYES:    | :                                      |  |                         |               |                                       |                     |                         |
|  | NOES     | :                                      |  |                         |               |                                       |                     |                         |
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| WITNESS my hand and seal of said Board of Directors this 21st day of October, 2020.  |          |  |  |                         |               |                                       |                     |                         |
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## EXHIBIT "A"

## FINDINGS OF FACT AND A STATEMENT OF OVERRIDING CONSIDERATIONS

## EXHIBIT A

## **CEQA FINDINGS OF FACT**

and

## STATEMENT OF OVERRIDING CONSIDERATIONS

# OF THE BOARD OF DIRECTORS OF THE DEL PUERTO WATER DISTRICT

for the

**DEL PUERTO CANYON RESERVOIR PROJECT** 

October 21, 2020

## I. INTRODUCTION

The Del Puerto Water District (DPWD or District), as lead agency under the California Environmental Quality Act (CEQA), prepared a Draft Environmental Impact Report (DEIR) for the Del Puerto Canyon Reservoir Project (DPCR or Project). The Draft EIR complies with CEQA (see California Code of Regulations (CCR), Title 14, Division 6, Chapter 3 (State CEQA Guidelines). The District has considered comments received on the Draft EIR and has prepared a Final EIR, which addresses those comments. In its entirety, the Final EIR consists of the October 9, 2020 Final EIR ("Final EIR", or "FEIR") State Clearinghouse No. 2019060254, which includes Volume I containing the entire text of the Draft EIR that was published on December 12, 2019, as revised to address public and agency comments, Volume II containing appendices to the EIR, plus Volume III including the comments that were received during the public review period and responses to those comments showing minor revisions and clarifications based on comments received.

As described in the Final EIR, the Project, which is jointly proposed by the Del Puerto Water District and the San Joaquin River Exchange Contractors Water Authority (Exchange Contractors), is the planned construction and operation of a water supply reservoir that would be located in the foothills west of Patterson, CA and Interstate 5, providing up to 82,000 acre-feet of locally owned storage south of the Sacramento-San Joaquin Delta. Water would be conveyed from the Delta-Mendota Canal (DMC) for storage in the reservoir and would be discharged back to the DMC. Stored water would serve agricultural users in both DPWD and the Exchange Contractors service areas, and potentially supply wildlife refuges. The Project includes construction of a main dam, saddle dams, spillway, inlet/outlet works, conveyance facilities (including diversion facility on DMC, pumping plant, and appurtenant components) and electrical facilities (power line and electrical substation). The Project includes relocating existing utilities and Del Puerto Canyon Road.

These findings have been prepared in accordance with CEQA (Pub. Resources Code, § 21000 et seq.) and its implementing guidelines ("CEQA Guidelines") (Cal. Code Regs., tit. 14, § 15000 et seq.).

## II. PROJECT DESCRIPTION

#### A. Location

The proposed Project is located in western Stanislaus County in the Cost Range foothills west of the City of Patterson and South of the Sacramento-San Joaquin Delta. Proposed Project facilities consist of a reservoir, main dam, saddle dams, plus the facilities needed to convey water between the DMC and the reservoir. Underground conveyance facilities would extend from a new pumping plant on the west side of the DMC just south of Zacharias Road in the City of Patterson, under the California Aqueduct and Interstate 5, and to the inlet/outlet facility in the main dam. The reservoir would include the main dam located west of Interstate 5 and saddle dams, the larger of which would be located across Del Puerto Canyon Road about 1.5 miles north of its intersection with

Diablo Grande Parkway. Lower Del Puerto Canyon Road within the reservoir inundation area would be relocated, with traffic following Diablo Grande Parkway further west to an intersection that would connect the new portion of Del Puerto Canyon Road to the existing road above the reservoir. The Project also includes relocating existing utilities that run north-south through the Project area.

#### B. Overview

The proposed Project would provide storage for water allocations from the United States Bureau of Reclamation (USBR) with whom the Project Partners have contracts. Water would be stored in the reservoir when supply is available from the DMC and delivered to farms within service areas of DPWD and the Exchange Contractors in San Joaquin, Stanislaus, Merced, Fresno and Madera Counties.

The Project proponents are the Del Puerto Water District and San Joaquin River Exchange Contractors Water Authority.

## C. Project Objectives

As set forth in the EIR (page 1-3), the overall objective of the proposed Project is to provide local water storage. Specifically, the objectives of the Project are as follows:

- Increase South of Delta water storage capacity in California's Central Valley by 80,000 AF;
- Provide local water storage in proximity to the DMC and to users;
- Improve water supply reliability;
- Increase peak irrigation season water supplies;
- Improve the ability to manage regional surface water and groundwater resources;
- Improve regional self-reliance and economic benefit from agricultural production, jobs, and industry multipliers;
- Develop a cost-effective project that provides water at an affordable cost to landowners; and
- Avoid displacement of homes and businesses.

The proposed Project is needed to ensure water supply reliability because of the extreme seasonal and annual variability of California's water supply.

Based on its own review of the Final EIR and other information and testimony received in connection with the Project, the Board finds these objectives to be acceptable and important from a public policy standpoint. In choosing to approve the Project, the District seeks to further these objectives, and accords them weight in considering the feasibility of the alternatives set forth in the EIR (See CEQA Guidelines Section 15126.6.

## D. Discretionary Approvals

Project approval requires the District, as CEQA lead agency as well as certain "responsible agencies," to take discrete planning and regulatory actions to approve the overall Project. In accordance with CEQA, the District will certify that the Project complies with CEQA, adopt findings for all significant impacts identified, certify that the findings have been considered prior to Project approval, and adopt a Mitigation Monitoring and Reporting Program. The District then will file a Notice of Determination with the State Clearinghouse that will identify the Project's significant unmitigatable impacts, mitigation measures included as conditions of Project approval, that findings were made, and that a Statement of Overriding Considerations was adopted. Described below are the other permits, reviews, and approvals that would be required for Project construction:

| Agency  | Type of Approval  |
|---|---|
| FEDERAL   |   |
| Reclamation   | Addition of turnout location to existing contracts for moving water in and out of DMC   |
| Reclamation   | Possible funding through Public Law 114-322, WIIN Act   |
| Reclamation   | License for construction of Diversion / Outfall facility on DMC (1081 encroachment permit, lands action)  |
| Reclamation   | Possible Warren Act contract for conveyance and storage of non-project water (may be needed for Del Puerto Creek water); other agreements as needed         |
| U.S. Army Corps of Engineers  | Clean Water Act (CWA), Section 404 Permit for fill of wetlands or waters of the US  |
| U.S. Fish and Wildlife Service & National<br>Oceanic and Atmospheric Administration<br>(NOAA) National Marine Fisheries Service | Section 7 Consultation/Biological Opinions  |
| STATE   |   |
| State Water Resources Control Board   | Water Right for a portion of flows from Del Puerto Creek  |
| California Department of Fish and Wildlife (CDFW)   | Streambed Alteration Agreement for construction of reservoir on Del Puerto Creek  |
| CDFW  | Incidental Take Permit for California Endangered Species Act (CESA)   |
| CalOSHA   | Construction Permit / Tunnel Classification   |
| CA Office of Historic Preservation  | Section 106 Consultation  |
| Caltrans  | Encroachment Permit for crossing of Interstate 5  |
| State Water Resources Control Board   | CWA, Section 401 Water Quality Certification  |
| CVRWQCB   | Notice of Intent for coverage under Statewide Construction Stormwater Permit (Section 402 CWA)  |
| CVRWQCB   | Notice of Intent for coverage under Low-Threat Discharge<br>Order for Dewatering during Construction and for Pipeline<br>Discharges for Testing and Startup |
| Department of Water Resources   | Encroachment permit for crossing of California Aqueduct   |
| Department of Water Resources, Division of Safety of Dams   | Approval for construction and operation of proposed dam   |
| California Department of Conservation,<br>Division of Oil, Gas, and Geothermal<br>Resources                                     | Permit if project requires work on any existing oil and gas wells in the project area   |
| LOCAL   |   |
| Stanislaus County   | Approval of relocation of Del Puerto Canyon Road  |
| Stanislaus County   | Grading permit, building permit, and tree removal permit  |
| Stanislaus County   | Williamson Act cancellation (if needed), possible General Plan Amendment  |
| San Joaquin Valley Air Pollution Control<br>District  | Possible Voluntary Emissions Reduction Agreement Authority to Construct and Permit to Operate for generator at pumping plant.                               |

EIR p. 1-5

## III. ENVIRONMENTAL REVIEW PROCESS

In accordance with Section 15082 of the CEQA Guidelines, a Notice of Preparation (NOP) was submitted to the State Clearinghouse (State Clearinghouse # 2019060254) and circulated to local, state and federal agencies on June 27, 2019. The NOP was and remains available online on the DPCR website. Postcard notification of the NOP's availability was mailed to 35 organizations and individuals.

Additionally, the District held a scoping meeting for the DPCR on July 24, 2019 at Patterson Fire Station #2, 1950 Keystone Pacific Parkway, Patterson, CA, with approximately 40 members of the public signing in at the meeting. The meeting was held as an open house to allow interested members of the public to learn more about the Project, have questions answered by District staff, and provide input on the Project.

The District prepared a Scoping Report that summarized public noticing, communication, and scoping efforts completed for the Project up to that date. The Scoping Report is included in the EIR and provides a full summary of the public meeting and the comments received in Appendix A of the EIR. Additional public outreach and communication efforts completed after July 2019 are discussed below under the heading "Public Participation." The District has coordinated with several public agencies that may have an interest in the Project as part of the Project development process. Numerous agencies and organizations were provided notification of the NOP, and provided comments on the scope of the Project and its associated environmental documentation. These communications and comments are summarized in the Scoping Report prepared for the Project. The primary District coordination or communications with agencies is described below.

#### U.S. Bureau of Reclamation

The Project Partners intend to pursue federal funding under the Water Infrastructure Improvements for the Nation (WIIN) Act, administered by the U.S. Department of the Interior, Bureau of Reclamation (Reclamation), which would require future NEPA documentation. The Project Partners are coordinating with Reclamation to submit a Feasibility Report for the Project, and Reclamation will prepare an EIS for the Project.

## U.S. Army Corps of Engineers

The District participated in a pre-application meeting with the U.S. Army Corps of Engineers (USACE) on November 7, 2019 at which the Project was presented to the USACE and other attendees. The District submitted an Aquatic Resource Delineation Request to the USACE on April 8, 2020 and received a preliminary jurisdictional delineation for the Project on June 17, 2020. The District will apply for a 404 Permit from the USACE.

#### U.S. Fish and Wildlife Service

The U.S. Fish and Wildlife Service (USFWS) participated in the pre-application meeting with USACE on November 7, 2019. As lead agency for NEPA, Reclamation will lead consultation with USFWS. Reclamation will submit a Biological Assessment to USFWS and will seek their concurrence regarding the potential for the DPCR to affect listed species.

## California Department of Fish and Wildlife

Future consultation with California Department of Fish and Wildlife (CDFW) will be required to obtain a 1602 Streambed Alteration Agreement to authorize construction of the DPCR. The Project includes avoidance and mitigation measures designed to mitigate direct impacts to state-listed species. However, if necessary the District would apply for a California Fish and Game Code Section 2081 Take Permit.

#### State Historic Preservation Office

Reclamation will conduct Section 106 consultation with the State Historic Preservation Office (SHPO) under the National Historic Preservation Act. The DMC has been determined to be eligible for the National Register and there is an archaeological site within the reservoir that is considered to eligible for the National Register. Reclamation will seek concurrence from SHPO that the proposed Project would not result in any adverse impacts on historic resources.

### City of Patterson

Although the City is not a responsible agency the District has had ongoing discussions with the City of Patterson regarding the Project, and its benefits for the City and has made a presentation to the City Council at a meeting on February 25, 2020.

### Public Participation

In addition to the formal scoping meeting additional public outreach efforts have been made to provide information to area residents and to allow interested stakeholders to provide input on and raise issues and concerns about the Project. The day before the release of the Draft EIR, the Project Partners held a public workshop to educate the community about the Project and the background for its development to assist in them in reviewing the Draft EIR. The workshop was held at the Patterson Unified School District Professional Development Center on December 11, 2019. The workshop provided additional information about the Project, highlighted the imminent publication of the Draft EIR, and enabled members of the public to ask questions about the Project; about 100 people attended.

The District released the Draft EIR on December 12, 2019 for public review and comment. The comment period closed on January 27, 2020. This period satisfied the requirement for a minimum 45-day public review period as set forth in Section 15105 of the CEQA Guidelines. A Notice of Availability announcing publication of the Draft EIR was published in the Patterson Irrigator on December 12, 2019. That notice included notification about a meeting to receive comments to be held at the Hammon Senior Center in Patterson on January 15, 2020, at which time agencies and the public were given the opportunity to provide comments on the DEIR.

The District has conducted additional public outreach to inform the public about the project. In March 2020 the District sent a mailing to every address in Patterson about the project and how the public can stay informed. To address questions about dam safety that were raised during the public comment period on the Draft EIR the District has prepared a video about dam safety that was posted on the project website in May 2020. The District has also held meetings with interested organizations including Native American groups and the Audubon Society.

The Project's Final EIR was made available to the public and commenting agencies on October 9, 2020. Notice of the availability of the Final EIR was sent to elected officials, government and

other resource agencies, and all individuals and department entities that have asked to be notified or who have expressed interest in the Project, and copies of the Final EIR were made available on the Project website as well as the office of the Del Puerto Water District. On October 21, 2020, the Board considered certification of the Final EIR adoption of CEQA Findings and a Mitigation Monitoring and Reporting Program, and approval of the Project at their regular Board meeting.

Based on the Initial Study included as Appendix A of the EIR, it was determined that the Project would not have significant effects on mineral resources, noise, population and housing, public services and wildfire risk. The DEIR thus included an evaluation of 17 environmental issue areas and a discussion of significant impacts under CEQA, together with other CEQA-mandated issues as well (e.g., cumulative impacts, growth-inducing impacts). The 17 environmental issue areas are as follows:

- Aesthetics
- Agriculture and Forestry Resources
- Air Quality
- Biological Resources-Terrestrial
- Biological Resources-Fish
- Cultural Resources
- Energy Resources
- Geology and Soils
- Greenhouse Gas Emissions
- Hazards and Hazardous Materials
- Hydrology and Water Quality
- Land Use and Recreation
- Transportation and Traffic
- Tribal Cultural Resources
- Utilities and Service Systems
- Environmental Justice
- Indian Trust Assets

(DEIR, pp. 3.1-1 to 3.17-2)

The DEIR evaluated the significance of impacts under CEQA within the following 15 environmental areas:

- Aesthetics
- Agriculture and Forestry Resources
- Air Quality
- Biological Resources-Terrestrial
- Biological Resources-Fish
- Cultural Resources
- Energy Resources
- Geology and Soils
- Greenhouse Gas Emissions
- Hazards and Hazardous Materials

- Hydrology and Water Quality
- Land Use and Recreation
- Transportation and Traffic
- Tribal Cultural Resources
- Utilities and Service Systems

(DEIR, pp. 3.1-1 to 3.15-8)

## IV. RECORD OF PROCEEDINGS

In accordance with Public Resources Code section 21167.6, subdivision (e), the record of proceedings for the District's decision on the Project includes the following documents:

- The NOP and all other public notices issued by the District in conjunction with the Project;
- All comments submitted by agencies or members of the public during the comment period on the NOP;
- The DEIR for the Project (December 2019) and all appendices;
- All comments submitted by agencies or members of the public during the comment period on the DEIR;
- The Final EIR for the Project, including comments received on the DEIR, the responses to those comments, clarifications and minor corrections to information presented in the Draft EIR, and appendices;
- Documents cited or referenced in the DEIR and Final EIR;
- The MMRP for the Project;
- All findings and resolutions adopted by the Board in connection with the Project and all documents cited or referred to therein;
- The Del Puerto Canyon Reservoir Feasibility Report;
- All reports, studies, memoranda, maps, staff reports, or other planning documents relating to the Project subject to public disclosure prepared by the District, consultants to the District, or responsible or trustee agencies with respect to the District's compliance with the requirements of CEQA and with respect to the Project;
- All documents submitted to the District by other public agencies or members of the public in connection with the Project, up through the close of the Board public hearing on October 21, 2020;
- Any minutes and/or verbatim transcripts of all information sessions, public meetings, and public hearings held by the District in connection with the Project;

- Any documentary or other evidence submitted to the District at such information sessions, public meetings, and public hearings;
- All County or other public agency planning or other documents cited in materials prepared by or submitted to the District;
- Any and all resolutions and ordinances adopted by the District regarding the Project, and all staff reports, analyses, and summaries related to the adoption of those resolutions and ordinances;
- Matters of common knowledge to the District, including but not limited to federal, state, and local laws and regulations;
- Any documents expressly cited in these findings, in addition to those cited above; and
- Any other materials required for the record of proceedings by Public Resources Code section 21167.6, subdivision (e).

The documents constituting the record of proceedings are available for review by responsible agencies and interested members of the public by appointment (appointments are needed due to COVID-19 restrictions) during normal business hours at the Del Puerto Water District at 17840 Ward Avenue, Patterson, CA. The custodian of these documents is Anthea Hansen, Del Puerto Water District General Manager.

## V. FINDINGS REQUIRED UNDER CEQA

Public Resources Code section 21002 provides that "public agencies should not approve projects as proposed if there are feasible alternatives or feasible mitigation measures available which would substantially lessen the significant environmental effects of such projects[.]" The same statute provides that the procedures required by CEQA "are intended to assist public agencies in systematically identifying both the significant effects of proposed projects and the feasible alternatives or feasible mitigation measures which will avoid or substantially lessen such significant effects." Section 21002 goes on to provide that "in the event [that] specific economic, social, or other conditions make infeasible such project alternatives or such mitigation measures, individual projects may be approved in spite of one or more significant effects thereof."

The mandate and principles announced in Public Resources Code section 21002 are implemented, in part, through the requirement that agencies must adopt findings before approving projects for which EIRs are required. For each significant environmental effect identified in an EIR for a project, the approving agency must issue a written finding reaching one or more of three permissible conclusions. The first such finding is that if changes or alterations have been required in, or incorporated into, the project which avoid or substantially lessen the significant environmental effect, they must be identified in the Final EIR. The second finding is that if such changes or alterations are within the responsibility and jurisdiction of another public agency and

not the agency making the finding that such changes have been adopted by, or can and should be adopted by, such other agency. The third potential finding is that if specific economic, legal, social, technological, or other considerations, including provision of employment opportunities for highly trained workers, make infeasible the mitigation measures or project alternatives identified in the final EIR then the identified impact is significant and unavoidable (CEQA Guidelines, § 15091).

As explained elsewhere in these findings, "feasible" means capable of being accomplished in a successful manner within a reasonable period of time, taking into account economic, environmental, social, legal, and technological factors (CEQA Guidelines § 15364). The concept of "feasibility" also encompasses the question of whether a particular alternative or mitigation measure promotes the underlying goals and objectives of a project.

For purposes of these findings (including the findings in Attachment 1 attached hereto), the term "avoid" refers to the effectiveness of one or more mitigation measures to reduce an otherwise significant effect to a less than significant level. In contrast, the term "substantially lessen" refers to the effectiveness of such measure or measures of substantially reducing the severity of a significant effect, but not to reducing that effect to a less than significant level.

As explained above, CEQA requires that the lead agency adopt feasible mitigation measures or, in some instances, feasible alternatives to substantially lessen or avoid significant environmental impacts that would otherwise occur. With respect to a project for which significant impacts are not avoided, a public agency, after adopting proper findings, may nevertheless approve the project if the agency first adopts a statement of overriding considerations setting forth the specific reasons for the agency findings that the Project's benefits outweigh its unavoidable adverse environmental effects. The District's Statement of Overriding Considerations for the Project is included herein in Section IX below.

## VI. <u>MITIGATION MONITORING AND REPORTING PROGRAM</u>

A Mitigation Monitoring and Reporting Program has been prepared for the Project, and is being approved by the Board by the same Resolution that adopts these findings. The District will use the Mitigation Monitoring and Reporting Program to track compliance with Project mitigation measures. The Mitigation Monitoring and Reporting Program will remain available for public review during the compliance period. The Mitigation Monitoring and Reporting Program is attached hereto as Attachment 2.

## VII. <u>SIGNIFICANT IMPACTS AND MITIGATION MEASURES</u>

The Final EIR identified 28 significant and potentially significant environmental effects (or impacts) that the Project will cause or contribute to. Although 22 of these significant effects can be fully avoided through the adoption of feasible mitigation measures, the EIR found that there were six significant unavoidable impacts associated with implementation of the Project.

## A. Impacts and Mitigation Measures (see Attachment 1)

The Board's findings with respect to the Project's significant effects and mitigation measures are set forth in the attachment to these findings (Attachment 1) and are hereby incorporated by reference and included as an attachment to this document.

Attachment 1 does not attempt to describe the full analysis of each environmental impact contained in the Final EIR. Instead, the attachment provides a summary description of each impact, describes the applicable mitigation measures identified in the Final EIR and adopted by the District, and states the findings on the significance of each impact after implementation of the adopted mitigation measures. A full explanation of the environmental findings and conclusions can be found in the Final EIR, and these findings hereby incorporate by reference the discussion and analysis in those documents supporting the Final EIR's determinations regarding mitigation measures and the Project's impacts and the mitigation measures designed to address those impacts.

In making these findings, the District ratifies, adopts, and incorporates into these findings the analysis and explanation in the Final EIR, and ratifies, adopts, and incorporates into these findings the determinations and conclusions of the Final EIR relating to environmental impacts and mitigation measures, except to the extent any such determinations and conclusions are specifically and expressly modified by these findings.

The District has adopted all of the mitigation measures identified in Attachment 1. Some of the measures identified are also within the jurisdiction and control of other agencies. To the extent any of the mitigation measures are within the jurisdiction of other agencies, the District finds those agencies can and should implement those measures within their jurisdiction and control. Specifically, implementation of Mitigation Measure TR-1, the Sperry Interchange Improvements Project Contributions would require action by Stanislaus County and the City of Patterson. While the Project Partners will make a fair share financial contribution to the implementation of the improvements, they cannot guarantee the schedule for implementation.

## B. Findings Regarding Additional Mitigation Measures Proposed by Comments

Comments received on the DEIR suggested modifications to several of the Ditrict's proposed mitigation measures. As indicated in the Final EIR, the District modified the following proposed measures in response to such comments:

- Mitigation Measure AIR-1. The mitigation measure has been revised to address comments from the San Joaquin Valley Air Pollution Control District (SJVAPCD) by clarifying the process for entering into a Voluntary Emissions Reduction Agreement (VERA) with SJVAPCD. The process will include completion of a more detailed air quality analysis to determine maximum project emissions based on final project design and phasing. The mitigation measure was also revised to require that the VERA be completed before the release of any NO<sub>X</sub> emissions during construction.
- Mitigation Measure BIO-TERR-10. In response to a comment from the California Department of Fish and Wildlife, the mitigation measure has been revised to require

kit fox surveys be conducted no less than 14 days before the beginning of ground disturbance.

- Mitigation Measure BIO-TERR-2. In response to a comment from the State Water Resources Control Board, Division of Water Rights, the mitigation measure has been revised to include coordination with the State Water Resources Control Board (SWRCB).
- Mitigation Measure BIO-TERR-3. In response to a comment from the State Water Resources Control Board, Division of Water Rights, the mitigation measure has been revised to include coordination with the State Water Resources Control Board (SWRCB).
- Mitigation Measure BIO-TERR-5. In response to a comment from the California Native Plant Society, the mitigation measure has been revised to specify the requirement that a minimum of (1) acre of oak woodland shall be preserved, managed and monitored for every (1) acre of oak woodland lost as a result of project implementation.
- Mitigation Measure CULT-1. Based on input from the United States Bureau of Reclamation, the revised measure provides an additional definition of cultural material and specifies that if signs of an archaeological site are detected, a qualified archaeologist meeting the Secretary of the Interior's Professional Qualification Standards for prehistoric and historic archaeology shall be retained to evaluate the evidence and its significance, and shall have the authority to modify the temporary no-work 100-foot radius as appropriate, using professional judgement.
- Mitigation Measure HAZ-1e. In response to a comment from the State of California Department of Toxic Substances Control, the mitigation measure has been revised to include sampling for hazardous materials in structures and for organochlorine pesticides.

All other new mitigation measures or suggested changes to the District's proposed mitigation measures that were received in comments submitted on the DEIR or comments submitted elsewhere in the record, which are described below, were carefully considered, but found to be either infeasible, not necessary to avoid identified significant impacts of the Project, or otherwise rejected for the reasons set forth in the Final EIR or elsewhere in the record, which are incorporated herein by this reference.

In considering specific recommendations on mitigation measures from commenters, the District is guided by CEQA's legal standard to substantially lessen or avoid significant environmental effects to the extent feasible. The District recognizes, moreover, that comments frequently offer suggestions or opinions regarding how a commenter believes that a particular mitigation measure can be modified, or perhaps changed significantly, in order to more effectively reduce the severity of environmental effects. However, the mitigation measures included in the Final EIR represent the professional judgment and extensive experience of the District's expert staff and environmental

consultants. The District therefore believes that these recommended mitigations should not be modified unless necessary to comply with CEQA legal standards, and the District has discretion to make policy decisions presented by mitigations. Thus, in considering commenters' suggested changes or additions to the mitigation measures, the District, in determining whether to accept such suggestions, either in whole or in part, has considered the following factors, among others: (i) whether the suggestion relates to a significant and unavoidable environmental effect of the Project, or instead relates to an effect that can already be mitigated to less-than-significant levels by proposed mitigation measures in the Final EIR; (ii) whether the proposed language represents a clear improvement, from an environmental standpoint, over the draft language that a commenter seeks to replace; (iii) whether the proposed language is sufficiently clear as to be easily understood by those who will implement the mitigation as finally adopted; (iv) whether the language might be too inflexible to allow for pragmatic implementation; (v) whether the suggested mitigations are "feasible" as defined under CEQA, including being able to be accomplished in a successful manner in a reasonable period of time taking into account economic, environmental, technical, legal, social or other factors; and (vi) whether the proposed language is consistent with the Project's objectives.

As evidenced by the specific responses given to each specific mitigation measure set forth in the Final EIR, District staff and consultants spent a significant amount of time carefully considering and weighing the proposed suggestions. For those suggested mitigation measures not incorporated in the Final EIR and adopted by the District, the District finds the suggestion either not necessary to reduce a significant impact to less than significant, or infeasible.

Several comments on the Draft EIR included detailed recommendations regarding mitigation measures for impacts to sensitive species, most of which were already included in the DEIR. The need for implementation of some of the recommended measures is dependent on the results of protocol level surveys. Because protocol-level surveys for sensitive species are already included in mitigation, no revisions to proposed mitigation measures were needed to address this suggestion. One comment proposed no-disturbance buffers around small mammal burrows, which would be infeasible because burrows are so numerous that this suggestion would preclude implementation of the Project. Details of mitigation were revised as noted above to address comments, but mitigation was not included for species that were deemed highly unlikely to occur in the Project area.

## C. Findings Regarding Absence of Significant New Information Requiring Recirculation of Draft EIR

CEQA Guidelines Section 15088.5 requires a lead agency to recirculate an EIR for further review and comment when significant new information is added to the EIR after public notice is given of the availability of the Draft EIR but before certification of the Final EIR. New information added to an EIR is not "significant" unless the EIR is changed in a way that deprives the public of a meaningful opportunity to comment upon a substantial adverse environmental effect of the project or a feasible way to mitigate or avoid such an effect that the project proponent declines to implement. The CEQA Guidelines provide the following examples of significant new information under this standard:

• A new significant environmental impact would result from the project or from a new mitigation measure proposed to be implemented.

- A substantial increase in the severity of an environmental impact would result unless mitigation is adopted that reduces the impact to a level of insignificance.
- A feasible project alternative or mitigation measure considerably different from others previously analyzed would clearly lessen the environmental impacts of the project, but the project's proponents decline to adopt it.
- The Draft EIR was so fundamentally and basically inadequate and conclusory in nature that meaningful public review and comment were precluded. (*Mountain Lion Coalition v. Fish and Game Com.* (1989) 214 Cal.App.3d 1043).

Recirculation of an EIR is not required where the new information added merely clarifies or amplifies or makes insignificant modifications to an adequate EIR. The above standard is "not intend[ed] to promote endless rounds of revision and recirculation of EIRs." (Laurel Heights Improvement Assn. v. Regents of the University of California (1993) 6 Cal. 4th 1112, 1132). "Recirculation was intended to be an exception, rather than the general rule." (Ibid.)

The Final EIR incorporates information developed after the Draft EIR was completed, and contains additions, clarifications, modifications, and other changes. As noted in Section VII.B, comments on the Draft EIR either expressly or impliedly sought changes to proposed mitigation measures identified in the Draft EIR, as well as additional mitigation measures. As explained in the Final EIR (Chapter 9, Responses to Comments), some of the suggestions were found to be appropriate and feasible and were adopted in the Final EIR and included in the MMRP (see Section VII.B, above). Where changes have been made to mitigation measures and other information in the Draft EIR, these changes do not change any conclusions on the significance of impacts presented in the Draft EIR and do not meet any of the standards for recirculation under CEQA Guidelines section 15088.5.

Notably, CEQA case law emphasizes that "[t]he CEQA reporting process is not designed to freeze the ultimate proposal in the precise mold of the initial project; indeed, new and unforeseen insights may emerge during investigation, evoking revision of the original proposal." (Kings County Farm Bureau v. District of Hanford (1990) 221 Cal.App.3d 692, 736-737; see also River Valley Preservation Project v. Metropolitan Transit Development Bd. (1995) 37 Cal.App.4th 154, 168, fn. 11.) "CEQA compels an interactive process of assessment of environmental impacts and responsive project modification which must be genuine. It must be open to the public, premised upon a full and meaningful disclosure of the scope, purposes, and effect of a consistently described project, with flexibility to respond to unforeseen insights that emerge from the process.' [Citation.] In short, a project must be open for public discussion and subject to agency modification during the CEQA process." (Concerned Citizens of Costa Mesa, Inc. v. 33rd Dist. Agricultural Assn. (1986) 42 Cal.3d 929, 936).

The Final EIR also includes minor edits made in response to various comments on the Draft EIR (See Final EIR, Chapter 9). These revisions were made for accuracy and did not change any conclusions of the Draft EIR regarding the Project's impacts. The revisions only constituted minor revisions or augmentations to information in the Draft EIR that did not change any of the determinations regarding the significance of Project impacts.

Thus, none of these changes involves "significant new information" triggering recirculation because neither the additional information nor changes to the mitigation measure resulted in any

new significant environmental effects, any substantial increase in the severity of any previously identified significant effects, or otherwise trigger recirculation under CEQA standards. Instead, the modifications were either environmentally beneficial or environmentally neutral, and thus represent the type of changes that commonly occur as the formal environmental review process works towards its conclusion.

### VIII. PROJECT ALTERNATIVES

### A. Basis for Alternatives-Feasibility Analysis

Public Resources Code section 21002, a key provision of CEQA, provides that "public agencies should not approve projects as proposed if there are feasible alternatives or feasible mitigation measures available which would substantially lessen the significant environmental effects of such projects[.]" The same statute states that the procedures required by CEQA "are intended to assist public agencies in systematically identifying both the significant effects of proposed projects and the feasible alternatives or feasible mitigation measures which will avoid or substantially lessen such significant effects."

Where a lead agency has determined that, even after the adoption of all feasible mitigation measures, a project as proposed will still cause one or more significant environmental effects that cannot be substantially lessened or avoided, the agency, prior to approving the project as mitigated, must first determine whether, with respect to such impacts, there remain any project alternatives that are both environmentally superior and feasible within the meaning of CEQA. Although an EIR must evaluate this range of *potentially* feasible alternatives, an alternative may ultimately be deemed by the lead agency to be "infeasible" if it fails to fully promote the lead agency's underlying goals and objectives with respect to the project (*City of Del Mar, supra*, 133 Cal.App.3d at p. 417). "[F]easibility' under CEQA encompasses 'desirability' to the extent that desirability is based on a reasonable balancing of the relevant economic, environmental, social, and technological factors." (*Ibid.*; see also *CNPS*, *supra*, 177 Cal.App.4th at p. 1001.) Thus, even if a project alternative will avoid or substantially lessen any of the significant environmental effects of the project, the decision-makers may reject the alternative if they determine that specific considerations make the alternative infeasible.

Based on the requirements of CEQA Guidelines section 15126.6 and the Project's objectives, the EIR considered and rejected numerous Project alternatives. Following the alternatives screening process, the EIR carried through three alternatives for detailed analysis. Under CEQA Guidelines section 15126.6, the alternatives to be discussed in detail in an EIR should be able to "feasibly attain most of the basic objectives of the project[.]" For this reason, the objectives described above provided the framework for defining possible alternatives including alternate Project locations (See *Bay-Delta*, *supra*, 43 Cal.4th at p. 1166). For the detailed analysis, in addition to the No Project Alternative, the EIR considered a smaller reservoir at the same site, and construction of a reservoir at an alternative location in Ingram Canyon. These alternatives were developed to attempt to reduce or avoid significant impacts of the proposed Project and included alternatives suggested in comments received in response to the Notice of Preparation. Extensive analysis of alternatives, their environmental impacts or benefits, and feasibility are included in the Draft EIR in Chapter 4.

The District finds that a good faith effort was made to evaluate all potentially feasible alternatives in the EIR, which are reasonable alternatives to the Project and which could feasibly obtain the basic objectives of the Project, even when the alternatives might impede the attainment of some of the Project objectives and might be more costly. As a result, the scope of alternatives analyzed in the EIR satisfies CEQA's requirements to analyze a reasonable range of alternatives and the alternatives are not unduly limited or narrow. The District also finds that all reasonable alternatives were reviewed, analyzed and discussed in the review process of the EIR and the ultimate decision on the Project.

## 1. Significant, Unavoidable Impacts of the Project

The Project will result in the following significant and unavoidable impacts that cannot be avoided through implementation of feasible mitigation measures adopted in connection with the Project. Some of these significant and unavoidable impacts will be lessened by the adoption of feasible mitigation measures, but the impacts cannot be reduced to less than significant:

| Impact   | Level of<br>Significance       |
|--|--------------------------------|
| Aesthetics   |                                |
| AES-1: Substantial damage to scenic resources within a state scenic highway and substantial degradation of existing visual character or quality, or a substantial adverse effect on a scenic vista.  | Significant and<br>Unavoidable |
| Cultural Resources   |                                |
| CULT-2: Cause a substantial adverse change in the significance of a unique archaeological resource pursuant to §15064.5.   | Significant and<br>Unavoidable |
| Greenhouse Gas Emissions   |                                |
| GHG-1: Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment.  | Significant and<br>Unavoidable |
| GHG-2: Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases   | Significant and<br>Unavoidable |
| Traffic and Transportation   |                                |
| TRA-1 Conflict with a program plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities.  | Significant and<br>Unavoidable |
| Utilities and Service Systems  |                                |
| UTL-1: Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects. | Significant and<br>Unavoidable |

## 2. <u>Considerations and Findings for Project Alternatives</u>

CEQA provides that decision makers should not approve a project as proposed if there are feasible alternatives or feasible mitigation measures that would substantially lessen the significant impacts of the project (CEQA Section 21002). The Final EIR identified feasible mitigation measures that would reduce most of the potentially significant impacts to less than significant, as further set forth in the findings in Attachment 1. However, as described in Section VIII.A.1 above, there are six Project impacts that remain significant after mitigation or because no feasible mitigation was identified. As required by CEQA, the following findings address whether there are any feasible alternatives that would reduce any of these six impacts to less than significant.

If a project alternative will substantially lessen the significant environmental effects of a proposed project, the decision maker should not approve the proposed project unless it determines that specific economic, legal, social, technological, or other considerations,... make the project

alternative infeasible" (CEQA Sections 21002 and 21081(a)(3), and CEQA Guidelines Section 15091(a)(3)). The Board hereby makes these findings with respect to alternatives.

Each of the alternatives was assessed for each resource topic and compared to potential Project impacts in the DEIR and Final EIR. As further set forth below, the Board considered the alternatives identified and analyzed whether they (1) meet purpose and need and most of the basic project objectives, (2) are feasible, or (3) are able to avoid or substantially lessen the significant and unavoidable environmental impacts of the proposed Project. For CEQA purposes, "feasible" means capable of being accomplished in a successful manner within a reasonable period of time, taking into account economic, environmental, social, technological, and legal factors. (CEQA Section 21061.1, CEQA Guidelines Section 15364.) As explained earlier, the concept of feasibility permits agency decision makers to consider the extent to which an alternative is able to meet some or all of a project's objectives. In addition, the definition of feasibility encompasses "desirability" to the extent that an agency's determination of infeasibility represents a reasonable balancing of competing economic, environmental, social, and technological factors supported by substantial evidence. Among other factors that may be taken into account when addressing the feasibility of alternatives are site suitability, economic viability, availability of infrastructure, general plan consistency, other plans or regulatory limitations, policy considerations, jurisdictional boundaries (projects with a regionally significant impact should consider the regional context), and whether the proponent can reasonably acquire, control, or otherwise have access to the alternative site (or the site is already owned by the proponent).

As set forth in the EIR, the proposed Project is a water storage project that would enhance water supply reliability for agriculture and wildlife in the Project area. The project objectives are:

- Increase South of Delta water storage capacity in California's Central Valley by 80,000 AF:
- Provide local water storage in proximity to the DMC and to users;
- Improve water supply reliability;
- Increase peak irrigation season water supplies;
- Improve the ability to manage regional surface water and groundwater resources;
- Improve regional self-reliance and economic benefit from agricultural production, jobs, and industry multipliers;
- Develop a cost-effective project that provides water at an affordable cost to landowners;
   and
- Avoid displacement of homes and businesses.

#### (EIR, Section 1.2)

As discussed above, the District seeks to further these objectives, and accords them weight in considering the feasibility of alternatives set forth in the Final EIR, and in invoking overriding considerations in approving the Project.

### Findings on No Project Alternative

## 1. <u>Description of No Project Alternative</u>

The No Project Alternative considers expected conditions in the project area in the foreseeable future if the project were not approved, based on current plans and consistent with available infrastructure and community service. Because of the need for water supply in the project area, and because of foreseeable constraints on groundwater pumping with the passage of the Sustainable Groundwater Management Act (SGMA), it is assumed that under the No Project Alternative the Project Partners would have to pursue obtaining additional surface water resources to meet water demands, or portions of their service areas would need to be fallowed due to a lack of water supply. If the Project were not approved, the reliability of water supply for agriculture would be uncertain, which would have negative effects on the local agricultural economy.

## 2. <u>Analysis of the No Project Alternative's Ability to Reduce Significant Unavoidable Project Impacts</u>

Aesthetics - Under the No Project Alternative, the reservoir and associated facilities would not be constructed. Therefore, the visual/aesthetic impacts associated with the construction of the Project would not occur. However, without additional water supplies, it is expected that fallowing would increase and would incrementally degrade the visual character of the project area as irrigated lands would be replaced with dried vegetation and possibly dead orchards. Some travellers on Scenic Interstate 5 may perceive this change as visual degradation.

Cultural - Under the No Project Alternative, the reservoir and associated facilities would not be constructed. Therefore, the impacts to cultural resources associated with the construction of the project would not occur.

Greenhouse Gas Emissions - Under the No Project Alternative, the reservoir and associated facilities would not be constructed and there would be no GHG emissions. Operational GHG emissions would be reduced, but some of the water that would have been pumped into the Del Puerto Canyon Reservoir would continue to be pumped into the San Luis Reservoir, so there would be some ongoing operational GHG emissions associated with the No Project Alternative. Conflicts with GHG reduction plans would thus be reduced.

Transportation and Traffic - Under the No Project Alternative, there would be no construction traffic and no need to relocate Del Puerto Canyon Road and thus there would be no traffic and transportation impacts.

*Utilities* - Under the No Project Alternative, the reservoir and associated facilities would not be constructed. Therefore, there would be no need to relocate existing utilities and no impact associated with that relocation.

## 3. Ability of No Project Alternative to Meet Project Objectives

The No Project Alternative would not meet project objectives. It would not provide locally owned South of Delta storage near the DMC and users, and would thus not improve water supply

reliability, increase peak irrigation season water supplies or improve the ability to manage surface water and groundwater resources. Without improved water supply reliability the No Project Alternative would not improve regional self-reliance and would not provide benefits to the local economy. Objectives regarding cost-effectiveness would not be applicable. The No Project Alternative would not displace homes or businesses and is thus not in conflict with that objective.

### 4. Feasibility of the No Project Alternative

Under the No Project Alternative, the Project would not be constructed. Although this alternative would not result in impacts caused by the construction of the proposed project, it would result in other adverse impacts as described above. The No Project Alternative would not meet the project purpose, need, or objectives of the Project. The No Project Alternative would not provide needed locally owned south of delta water storage and thus would not improve water supply reliability. The District finds the No Project Alternative to be infeasible for the above-stated reasons and rejects it as a viable alternative to the Project.

## 5. <u>Summary/ Conclusion</u>

In summary, the No Project Alternative does not meet project objectives and is inconsistent with District goals to increase the regional reliability of water supply and has thus been rejected.

### Findings on Smaller Reservoir - 40-TAF Alternative

## 1. <u>Description of Smaller Reservoir – 40-TAF Alternative</u>

The 40-TAF Alternative would be constructed at the same site as the proposed Project but would have a smaller dam and smaller reservoir inundation area, and would provide about one-half of the capacity of the proposed 82 thousand acre-feet (TAF) reservoir.

## 2. <u>Analysis of the 40-TAF Alternative's Ability to Reduce Significant Unavoidable</u> Project Impacts

Aesthetics - The 40-TAF Alternative would reduce, but not avoid, visual impacts because the dam would not be as large. Although the height of the embankment would be about 60 feet lower than the height of the proposed project dam, it is expected that views from I-5 would still be significantly affected.

Cultural - Under the 40-TAF Alternative, a reservoir and associated facilities would be constructed at the same site. Most of the cultural resource sites are located within lower portions of the reservoir footprint. A smaller reservoir site is thus not expected to avoid or reduce impacts to cultural resources.

Greenhouse Gas Emissions - Under the 40-TAF Alternative, construction and operational GHG emissions would be less because of the smaller size of the facilities. However, both construction and operational emissions would remain significant.

Transportation and Traffic - Under the 40-TAF Alternative, construction impacts would be slightly less, because this alternative would construct a smaller dam. Impacts on the I-5 interchange would remain significant.

*Utilities* - Because the reservoir location would be similar, this alternative would have similar utility relocation impacts as the proposed project. Although the reservoir would be smaller it would still inundate the existing utility corridor.

## 3. Ability of 40-TAF Alternative to Meet Project Objectives

The 40-TAF Alternative would meet some, but not all project objectives. It would not meet the objective to provide 80 TAF of South of Delta water storage capacity but would provide at least some additional local water storage in proximity to the DMC and to users. The 40-TAF Alternative would thus provide some improvement in water supply reliability and would contribute to an increase in peak irrigation season water supplies, which would improve the ability to manage water resources. Though the water supply benefits would be less, the 40-TAF Alternative would provide benefits to the agricultural economy, and it would not displace homes or businesses. However, the smaller reservoir would not be as cost effective as a larger reservoir..

### 4. Feasibility of the 40-TAF Alternative

Although the 40-TAF Alternative would reduce some impacts because of its smaller size, it would not eliminate any of the significant unavoidable adverse impacts associated with the Project. The 40-TAF Alternative would meet some of the objectives of the Project but would not fully meet the identified need for South of Delta storage capacity. Smaller reservoirs can be less cost effective depending on the magnitude of costs that are fixed, and thus cost reductions are not proportional to reservoir size. For example, utility and road relocation would both still be necessary and those represent large fixed costs that would not be reduced one-for one for a smaller reservoir. Because of this, larger reservoirs cost less per acre-foot than smaller reservoirs. Because this alternative is less cost effective it is not expected to meet the cost-benefit criteria that are required to demonstrate feasibility to receive funding under the WIIN Act. Because of the substantial economic benefits associated with obtaining Federal funding, the District finds the 40-TAF Alternative to be infeasible for the above-stated reasons and rejects it as a viable alternative to the Project.

#### 5. Summary/ Conclusion

In summary, the District rejected the 40-TAF Alternative because (1) it does not meet project objectives for storage capacity and (2) it does not meet the objective for cost-effectiveness.

## Findings on Ingram Canyon Alternative

## 1. <u>Description of Ingram Canyon Alternative</u>

The Ingram Canyon Alternative would be constructed at a site northwest of the Del Puerto Canyon in Ingram Canyon about two miles west of the Howard Road interchange on Interstate 5. The site is reached by Ingram Creek Road, a private road that serves one local ranching operation, which would be inundated by the new reservoir. The design details of the Ingram Canyon Alternative are described below, with information for the proposed Project (as estimated during initial screening

of alternatives) provided for comparison. The Ingram Canyon Alternative would have a larger and taller embankment, and would require a substantially longer conveyance facility, but the inundation area would be smaller. The base elevation of the main dam embankment for the Ingram Canyon Alternative would be about 510 feet above mean sea level (MSL), which is almost 300 feet above the elevation of the Del Puerto Canyon Reservoir.

#### Reservoir Configuration - Proposed Project vs Ingram Canyon

| Reservoir<br>Site                             | Capacity<br>(TAF) | Embankment<br>Volume | Embankment<br>Height | Base<br>Elevation of<br>Embankment | Inundation<br>Area | Length of<br>Conveyance<br>Corridor |
|---|-------------------|----------------------|----------------------|------------------------------------|--------------------|-------------------------------------|
| Del Puerto<br>Canyon<br>(proposed<br>Project) | 82                | 6,200,000 CY         | 260 feet             | 230 feet<br>above MSL              | 897 acres          | 0.9 miles                           |
| Ingram<br>Canyon                              | 67                | 7,200,000 CY         | 310 feet             | 510 feet<br>above MSL              | 633 acres          | 3.2 miles                           |

## 2. <u>Analysis of the Ingram Canyon Alternative's Ability to Reduce Significant Unavoidable Project Impacts</u>

Aesthetics - The Ingram Canyon Alternative would not completely avoid visual impacts associated with construction of a dam, but the site is farther from I-5 and would be expected to be less visible from the scenic highway.

Cultural - Cultural resource sensitivity of Ingram Canyon is unknown, but it is assumed that there would be similar potential to encounter prehistoric sites that could be adversely affected by construction of a dam and reservoir, specifically because of the untravelled nature of the area.

Greenhouse Gas Emissions - Construction GHG emissions are expected to be greater than those for the proposed Project. Operational GHG impacts would be significant and could be more than double that of the proposed project because of the energy required to pump water through a 2.3-mile longer pipeline to a dam located at an elevation more than 280 feet higher.

Transportation and Traffic – The Ingram Canyon Alternative would avoid significant construction impacts at the Sperry Avenue/Diablo Grande Parkway /I-5 interchange. However, there would be a potential for significant construction traffic impacts at the Howard Road/I-5 interchange. Although this interchange is not expected to experience the same level of evening peak commute traffic as the Sperry Avenue/Diablo Grande Parkway/I-5 interchange, it does accommodate existing high volumes of traffic from trucks using truck stop facilities at Joe's Travel Plaza and the Triangle Truck Stop. A construction traffic management plan would still be implemented to address potential conflicts with users of the roadway network in the project area, but it is uncertain whether impacts of construction traffic would be mitigable or significant and unavoidable.

Utilities - The Ingram Canyon alternative site is located west of the existing high voltage transmission lines and petroleum pipeline that cross the site of the proposed reservoir. This alternative would thus avoid the utility relocation impacts that would be associated with the proposed project.

## 3. Ability of Ingram Canyon Alternative to Meet Project Objectives

The Ingram Canyon Alternative would meet some, but not all project objectives. It would not meet the objective to provide 80 TAF of South of Delta water storage capacity but would provide about 67 TAF of local water storage, although not with the same proximity to the DMC or the beneficial users as the proposed Project. The Ingram Canyon Alternative would thus provide some improvement in water supply reliability and would contribute to an increase in peak irrigation season water supplies, which would improve the ability to manage water resources. Though the water supply benefits would be less, the Ingram Canyon Alternative would provide benefits to the agricultural economy. The Ingram Canyon Alternative would displace a large ranching operation and rural residence at the end of Ingram Creek Road and thus would not achieve the objective of avoiding displacement of homes or businesses. The smaller reservoir was determined not to be cost effective.

## 4. <u>Feasibility of the Ingram Canyon Alternative</u>

Under the Ingram Canyon Alternative, a slightly smaller reservoir would be constructed. Although this alternative would reduce some impacts because of its smaller size, it may not eliminate any of the significant unavoidable adverse impacts associated with the Project except for the need to relocate utilities. Impacts on transportation and aesthetics would be reduced, but GHG impacts would be substantially increased. The Ingram Canyon Alternative would meet some of the objectives of the Project but would not fully maximize the identified need for South of Delta storage capacity. Additionally, the Ingram Canyon Alternative would increase GHG impacts.

### 5. <u>Summary/ Conclusion</u>

In summary, the Ingram Canyon Alternative does not meet project objectives for storage capacity or proximity to the DMC, and would result in significant and unavoidable GHG emission impacts substantially greater than the proposed project, thus it has been rejected.

## IX. <u>STATEMENT OF OVERRIDING CONSIDERATIONS</u>

As set forth in the preceding sections, the Del Puerto Water District's approval of the Project will result in significant adverse environmental effects that cannot be avoided even with the adoption of all feasible mitigation measures; and there are no feasible Project alternatives that would mitigate or substantially lessen all of these impacts to a less than significant level. Despite the foregoing, however, the Board of Directors, in accordance with CEQA Guidelines section 15093, chooses to approve the Project because it is the District's opinion that the specific economic, social, and other benefits that the Project will produce will outweigh any significant and unavoidable impacts, such that the impacts may be considered "acceptable."

## A. Significant and Unavoidable Impacts

The Project will result in significant and unavoidable impacts, even with the implementation of all feasible mitigation measures, as discussed in Section VII above and Attachment 1. The following overriding considerations are set forth to identify the overarching economic, social, and other

benefits that the Project will produce, once implemented, which will render the significant impacts acceptable.

### B. Overriding Considerations

CEQA requires the lead agency to balance the economic, legal, social, technological, or other benefits of a Project, as applicable, against its unavoidable environmental impacts when determining whether to approve the Project. The lead agency may decide to accept significant and unavoidable adverse environmental effects, if those specific economic, legal, social, technological, or other benefits of the Project outweigh the unavoidable, adverse impacts. (CEQA Guidelines Section 15093)

The paragraph below identifies the specific reasons why the benefits of the Project outweigh its unavoidable significant effects; Any one of these reasons is independently sufficient to justify approval of the Project. Thus, even if a court were to conclude that not every reason is supported by substantial evidence, the District would stand by its determination that each individual reason is sufficient. The substantial evidence supporting the various benefits can be found in the preceding findings, which are incorporated by reference into this Section IX, and in the documents found in the Record of Proceedings, as defined in Section IV. The specific facts cited below provide general references to supporting evidence. All other evidence in the record as a whole supporting each listed benefit is incorporated by reference.

The benefits of the Project include the following:

1. The Project will increase agricultural water supply reliability by creating locally owned and controlled storage south of the Delta.

The current lack of sufficient south of Delta storage for CVP supplies means that Project Sponsors are not always able to utilize their CVP water supplies when they are available. Locally controlled water storage would allow the Project Sponsors to better manage water by taking delivery of CVP supplies when available and during wet periods and store them for later irrigation use. The Project would provide annual average water supply benefits totaling 51,900 AFY, which would have an average annual economic benefit of over \$20 million (Del Puerto Canyon Reservoir Feasibility Report).

2. The Project would mitigate existing capacity constraints on the DMC by diverting water from the DMC when flows are capacity constrained and releasing them back to the DMC when capacity is available.

Historical and ongoing groundwater pumping has caused significant land subsidence in areas adjacent to portions of the DMC. Land subsidence has reduced the freeboard and flow capacity of the DMC. A portion of the DMC near the location of the proposed DPCR has had capacity reduced from 4,600 cfs to about 3,900 cfs due to subsidence-related issues. Use of the reservoir facilities to alleviate DMC capacity constraints could increase water supply by an average of 14,600 AFY, for an annual average economic benefit of \$5.7 million (Del Puerto Canyon Reservoir Feasibility Report).

3. The Project will enable increased deliveries of water supplies to Central Valley Project Improvement Act (CVPIA)-designated refuges in the San Joaquin Valley, thus increasing the reliability of water supply to the refuges. As noted on page 1-2 of the Draft EIR, the DPCR can be used to provide for management of supplies for South of Delta refuges.

Project operations include dedicating up to 11,000 AF of storage to refuge supplies. In addition, the Project would allow the Exchange Contractors to dedicate transfer water made available through increased conservation to refuge supplies. All of the refuge water supply is allocated to Incremental Level 4 refuge supplies, and the Project would provide an annual average of 18,800 AFY of water to refuges, which would have an annual economic benefit of over \$5.8 million (Del Puerto Canyon Reservoir Feasibility Report).

4. Because the Project would control flows on Del Puerto Creek, it would reduce the potential for flooding on Del Puerto Creek downstream the reservoir (EIR page 3.11-23).

Modeled flooding that would occur downstream of the reservoir along Del Puerto Creek under existing conditions would not occur with the proposed project in place. The economic benefits of the flood risk reduction were estimated using FEMA's Hazus flood model which shows an annualized economic benefit of over \$2.7 million (Del Puerto Canyon Reservoir Feasibility Report).

#### C. Conclusion

As explained above, the District Board has balanced these benefits and considerations against the significant unavoidable environmental effects of the Project and has concluded that the impacts are outweighed by these benefits (collectively or each individually), among others. After balancing environmental costs against Project benefits, the Board has concluded that the benefits that local agriculture and the economy will derive from the Project outweigh the adverse effects. The District Board believes the Project benefits outlined above (collectively or each individually) override the significant and unavoidable environmental costs associated with the Project.

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#### **ATTACHMENT 1**

## SUMMARY OF IMPACTS, MITIGATION MEASURES, AND CEQA FINDINGS OF FACT

The term "Final EIR" in this Document refers collectively to the Draft EIR as revised, and the Final EIR Response to Comments volume.

## FINDINGS REGARDING SIGNIFICANT AND UNAVOIDABLE EFFECTS

Six potentially significant and unavoidable impacts could result from implementing the Project. Mitigation measures proposed in the Final EIR will lessen these impacts but may not completely mitigate adverse environmental impacts to less-than-significant levels. These findings reflect the DPWD Board's decision to adopt the Project despite these impacts.

#### 3.1 **AESTHETICS**

**Impact AES-1:** The DPCR would result substantial damage to scenic resources within a state scenic highway and substantial degradation of existing visual character or

quality. This would be considered a significant impact.

## **Mitigation Measure**

#### AES-1

Implement Color Palette Consistent with Existing Environment: The pumping plant's above-grade structures shall be painted a matte color consistent with the area's visual aesthetic, generally matte tan or light brown. Roofing for above-grade structures shall be matte as well to minimize potential glare.

**Finding:** Although the pumping plant can be designed to blend into the existing environment, it is not possible to reasonably screen construction work at the main dam without creating a visual impact. Although the main dam would visually blend with the surrounding hillsides as vegetation grows along the earthen slope face, it would still permanently impede views west along the canyon from a scenic highway. Operation of the dam would create permanent changes in the visual character of the inundation area in Del Puerto Canyon that could not be reasonably mitigated. As such, impacts to scenic resources would be significant and unavoidable.

Rationale: Because no mitigation is available to screen the dam from views along Interstate 5 the change in visual character is considered significant and unavoidable.

#### 3.6 CULTURAL RESOURCES

Impact CULT-2: There are archaeological resources present within the area that would be inundated by the proposed reservoir, including one site that appears eligible for listing in the National Register of Historic Places (NRHP) and California Register of Historic Resources (CRHR). Previously undiscovered

archaeological resources could also be encountered during construction. This would be considered a **potentially significant impact**.

### **Mitigation Measures**

#### CULT-1

Treatment Plan for Site P-50-0344: Prior to construction, a Cultural Resources Treatment Plan shall be implemented for site P-50-0344. The treatment plan will establish the procedures and documentation needed to carry out data recovery for the resource. The treatment plan will include field methods required for data recovery excavations, requirements and procedures for recordation, analysis, curation, reporting, and any other documentation or methods used for adequately mitigating the site.

Collectively, the treatment plan shall characterize the nature of the assemblage and data potential at the site as well as synthesize and capture data that may be lost caused by the construction and operations impacts of the project.

#### CULT-2

Implement measures to protect previously unidentified cultural resources: Construction will stop if potential cultural resources are encountered. If signs of an archaeological site, such as any unusual or large amounts of bone, stone, or shell, lumber, ceramics, cans, bottles, or any other prehistoric (Native American) or historic cultural resources are uncovered during grading or other construction activities, work will be halted within 100 feet of the find and the Del Puerto Water District will be notified. A qualified archaeologist meeting the Secretary of the Interior's Professional Qualification Standards for prehistoric and historic archaeology shall be retained to evaluate the significance of the find and shall have the authority to modify the temporary no-work 100-foot radius as appropriate, using professional judgement. will be consulted for an on-site evaluation. If the site is or appears to be eligible for listing on the CRHR, additional mitigation, further testing for evaluation, and/or data recovery may be necessary. If the qualified archaeologist determines that the find does not represent a cultural resource, then work may resume immediately and no further agency coordination is required. During operations, a qualified archeologist will conduct a pedestrian survey of the reservoir shore (i.e., the primary area where the water level fluctuates) during periodic maintenance periods of the reservoir or facilities (once every 5-years). This pedestrian survey will identify if there are unknown buried archaeological resources that may have been exposed during water level fluctuations. If cultural resources are found. the archaeologist will determine whether the resource is or appears to be eligible for listing on the CRHR and may be significant pursuant to Appendix G of the CEQA Guidelines §15064.5 and PRC Section 21083.2. If the resources are determined to be eligible and significant, the archaeologist will recover the resource(s) pursuant to standard data recovery practices prior to the refilling of the reservoir.

**Finding:** Implementation of Mitigation Measure CULT-1 would not fully mitigate the significant impact to site P-50-0344 in that it would not prevent destruction of the site. Mitigation would capture information from the artifacts present at the site, but the project would

still result in significant modifications to the qualities that make this resource a significant unique archeological resource; therefore, impacts would be significant and unavoidable. Implementation of Mitigation Measure CULT-2 would minimize potential project impacts on previously unknown archaeological resources, but if any of those resources are within the reservoir inundation area and are determined to be significant or unique resources, impacts could not be reduced to a less-than significant level. There is no mitigation set in place for the permanent construction or operational impacts on the unknown prehistoric cultural resources, as such impacts would be unavoidable.

Rationale: Because no mitigation is available that can avoid destruction of existing or previously unknown sites within the reservoir inundation area, this impact is considered significant and unavoidable.

#### 3.9 GREENHOUSE GAS EMISSIONS

**Impact GHG-1:** The DPCR would generate greenhouse gas (GHG) emissions that would exceed the threshold of no net additional GHG emissions. This would be considered a **significant impact**.

#### Mitigation Measure

#### GHG-1

**Best Performance Standards:** The Project Partners shall implement all feasible Best Performance Standards. The SJVAPCD defines Best Performance Standards as "the most effective in-practice means of reducing or limiting GHG emissions from a GHG emissions source."

Types of Best Performance Standards that the proposed project shall implement during construction could include but would not be limited to:

- Use equipment types that rely on electric and/ or hybrid fuel, which has the potential to reduce GHG emissions up to 22% (CAPCOA 2010). Note that biodiesel fuel use, while beneficial for reducing particulate matter emissions, does not have a substantial effect, and may actually increase, NO<sub>X</sub> and CO<sub>2</sub>e emissions.
- Limit the size of the construction vehicle fleet, especially vehicles with high Hp (e.g., helicopters), as much as possible.
- Limit the amount of time that construction vehicles are operating.
- Maintain construction equipment in the best possible working order to maximize engine fuel efficiency.
- All equipment shall be operated by a properly trained worker to minimize unnecessary vehicle use.
- Encourage workers to carpool to and from the site.
- Phase vendor and hauling trips.
- Where cost effective, mitigate the project's GHG emissions through the one-time purchase of accredited carbon offsets (current price is approximately \$0.50/MTCO<sub>2</sub>e for international offsets, \$3.50/MTCO<sub>2</sub>e for

offsets within the United States, and \$8.5015/MTCO<sub>2</sub>e for in-state offsets).

Types of Best Performance Standards that the proposed project shall implement during long-term operations include:

- Implement the most energy efficient equipment design possible
- Rely on alternative sources of energy, such as solar or wind power
- Encourage operations and maintenance employees to carpool or otherwise commute using a method other than a single-occupancy fossil-fuel powered vehicle

Finding: The Project Partners would reduce GHG emissions to the maximum extent feasible through implementation of Mitigation Measure GHG-1 and would purchase offsets to further reduce impacts of GHG emissions. Even so, the proposed project is expected to result in significant and unavoidable GHG emissions during construction and operation. Because both price and availability of GHG offsets are unpredictable, it is not possible to determine that sufficient credits to achieve net zero GHG emissions would be both available and affordable. This impact would be significant and unavoidable.

Rationale: Because it is not expected to be feasible to purchase sufficient offsets to achieve net zero GHG emissions, this impact is considered significant and unavoidable.

Impact GHG-2: The DPCR is consistent with many goals of the 2017 Climate Change Scoping Plan and is consistent with California's strategy for adapting to the effects of Climate Change. However, because construction and operation generate substantial GHG emission, the project would exceed the threshold of no net additional GHG emissions. This would be considered a significant impact.

#### **Mitigation Measure**

#### GHG-1

**Best Performance Standards:** The Project Partners shall implement all feasible Best Performance Standards. The SJVAPCD defines Best Performance Standards as "the most effective in-practice means of reducing or limiting GHG emissions from a GHG emissions source."

Types of Best Performance Standards that the proposed project shall implement during construction could include but would not be limited to:

- Use equipment types that rely on electric and/ or hybrid fuel, which has
  the potential to reduce GHG emissions up to 22% (CAPCOA 2010). Note
  that biodiesel fuel use, while beneficial for reducing particulate matter
  emissions, does not have a substantial effect, and may actually increase,
  NOx and CO2e emissions.
- Limit the size of the construction vehicle fleet, especially vehicles with high Hp (e.g., helicopters), as much as possible.
- Limit the amount of time that construction vehicles are operating.
- Maintain construction equipment in the best possible working order to maximize engine fuel efficiency.

- All equipment shall be operated by a properly trained worker to minimize unnecessary vehicle use.
- Encourage workers to carpool to and from the site.
- Phase vendor and hauling trips.
- Where cost effective, mitigate the project's GHG emissions through the one-time purchase of accredited carbon offsets (current price is approximately \$0.50/MTCO<sub>2</sub>e for international offsets, \$3.50/MTCO<sub>2</sub>e for offsets within the United States, and \$8.5015/MTCO<sub>2</sub>e for in-state offsets).

Types of Best Performance Standards that the proposed project shall implement during long-term operations include:

- Implement the most energy efficient equipment design possible
- Rely on alternative sources of energy, such as solar or wind power
- Encourage operations and maintenance employees to carpool or otherwise commute using a method other than a single-occupancy fossil-fuel powered vehicle

**Finding:** Because both price and availability of GHG offsets is unpredictable, it is not possible to determine that sufficient credits to achieve net zero GHG emissions would be both available and affordable. This impact would be significant and unavoidable.

Rationale: Because it is not expected to be feasible to purchase sufficient offsets to achieve net zero GHG emissions, this impact is considered significant and unavoidable.

#### 3.13 TRAFFIC AND TRANSPORTATION

Construction Traffic

Impact TR-1:

Construction traffic would result in unacceptable delay at the Sperry Avenue/Diablo Grande Parkway/I-5 Southbound Ramp. This would be considered a **potentially significant impact**.

# **Mitigation Measures**

TR-1 I-5 Sperry Avenue Interchange Improvements Project Contributions:

The Project Partners shall work with Stanislaus County and the City of Patterson to contribute a fair share toward the planned I-5 Sperry Avenue Road Interchange Improvements project. The signal at the I-5 Southbound Ramps intersection is required to mitigate the project impact. The signal at the I-5 Northbound Ramps intersection is recommended to provide efficient operations at both intersections, which are closely spaced and which would not function acceptably with signal control at one intersection and side-street stop-control at the other. The proportional share calculation should take into account the existing deficiency at the Southbound Ramps intersection and the non-project traffic volume growth between the existing conditions and near-term conditions without the project, as well as the County and City's plans to

secure other state and federal funding for the Interchange Improvements project.

Alternatively, the Project Partners may pay a traffic mitigation fee per peak hour trip or another negotiated contribution. Because the planned Interchange Improvements Project is not expected to be fully funded and complete until after the proposed project's construction period, Stanislaus County and the City of Patterson may choose to use the funding contribution, along with other funding sources if available, to erect temporary traffic signals during dam and roadway realignment construction.

In addition to contributing funding for a traffic signal at the I-5/ Sperry Avenue Road Interchange, the project partners shall explore development of alternative access to the dam site. It may be possible to direct a portion of the construction traffic along Zacharias Road. Although the public road ends at the DMC, there are bridges across the DMC and California Aqueduct and an undercrossing of Interstate 5, which could provide access to the dam site.

Findings: Although implementation of Mitigation Measure TR-1 would reduce impacts to less than significant, implementation of this measure depends on the actions of other agencies, and the feasibility of alternative access from Zacharias Road is uncertain. Therefore, this impact is considered significant and unavoidable.

Rationale: The Project Partners cannot guarantee implementation of Mitigation Measure TR-1, thus this impact is considered significant and unavoidable.

#### 3.15 UTILITIES

Impact UTL-1: The project would require relocation of five high-voltage transmission lines, a petroleum pipeline and telecommunication cable, the relocation of which cause significant environmental effects. Because relocation of utilities contributes to the significant environmental effects of the Project, this would be considered a potentially significant impact.

# **Mitigation Measures**

Mitigation measures for impacts associated with the utility relocation are identified throughout these findings. No additional mitigation measures beyond those identified for each environmental resource topic are proposed.

Findings: Relocation of utilities would contribute to significant unavoidable construction-period impacts associated with construction traffic and GHG emissions during construction; relocation of utility lines would contribute to unavoidable loss of agricultural land and also has the potential to contribute to significant impacts to cultural resources. Because the existing and planned utilities cross directly through the footprint of the reservoir inundation area, their relocation is necessary for the project's construction. It is therefore not possible to fully mitigate the relocation itself, and thus the impact would be significant and unavoidable.

Rationale: It is not expected to be feasible to fully mitigate impacts associated with effects on cultural resources, GHG emissions, and construction traffic, which are impacts to which utility relocation contributes. This impact is thus considered significant and unavoidable.

# FINDINGS REGARDING SIGNIFICANT EFFECTS MITIGATED TO LESS THAN SIGNIFICANT

#### 3.1 **AESTHETICS**

Impact AES-2: The DPCR could result in new sources of substantial light and glare. This would be considered a potentially significant impact.

# **Mitigation Measures**

- AES-2 Nighttime Construction Lighting: Nighttime construction lighting, shall be shielded and oriented downward to minimize effects on any nearby receptors including habitat for wildlife species. Lighting shall be directed toward active construction areas only and shall have the minimum brightness necessary to
  - ensure worker safety.
- AES-3

  Directional Lighting for Dam Control Building, Inlet/Outlet Works
  Control Building and Bifurcation Structure in Unincorporated Stanislaus
  County: Nighttime lighting for the main dam's control building, the
  inlet/outlet control building, and bifurcation structure shall be equipped with
  directional shields that aim light downward and away from adjacent roadways
  and adjacent undeveloped areas that may provide habitat for wildlife species.
  In addition, the placement of lighting fixtures would be selected to concentrate
  light on-site to avoid spillover.

Finding: Changes or alterations have been required in, or incorporated into, the project which avoid or substantially lessen the significant environmental effect identified in the Final EIR. The project has been revised to require implementation of Mitigation Measures AES-2 and AES-3, which will ensure that any nighttime construction and operation activities would use lighting that would not affect nearby receptors, including adjacent roadways, and would mitigate the impact to less than significant after mitigation.

Rationale: Mitigation Measure AES-2 shields construction lighting and directs it away from any nearby receptors, thus reducing the impact of construction lighting to less than significant. Mitigation Measures AES-3 shields permanent lighting for project facilities and directs it away from any nearby receptors, thus reducing the impact of operational lighting to less than significant.

# 3.3 AIR QUALITY

Impact AIR-2: Construction activities would generate emissions of criteria NOx that could exceed significance thresholds established by the San Joaquin Valley Air

Pollution Control District. This would be considered a **potentially significant** impact.

# **Mitigation Measures**

#### AIR-1

Reduce NOx Emissions: NOx emissions associated with construction activities shall be reduced to 10 tons per year through on-site equipment and hauling vehicle mitigation measures to the extent feasible. All vehicles and equipment used during construction shall be maintained and properly tuned in accordance with the manufacturer's specifications. All equipment shall be checked by a certified mechanic and determined to be running in proper condition prior to operation. Emissions reduction methods may be chosen from any combination of the following measures:

- Use of alternative fueled vehicles
- Use of newer tier engines
- Use of phased material hauling trips
- Use of after-market pollution control devices to reduce emissions
- Lengthening the construction schedule to reduce the annual intensity of construction activities

After certification of the DEIR, but before emissions associated with proposed project activities begin, the Del Puerto Water District shall be responsible for producing a SJVAPCD-approved air quality impact assessment analysis to determine the projected maximum project emissions which incorporates the most current proposed equipment fleet, hours of operation, duration of work, and on-site NO<sub>X</sub> reduction measures, based on final project design and phasing. If all feasible on-site measures have been implemented and annual emissions are anticipated to still be above 10 tons per year for NOx, then the Project Partners shall enter into a Voluntary Emissions Reduction Agreement (VERA) with SJVAPCD. The VERA would provide pound-for-pound mitigation of air emissions increases down to a net zero emissions per year as required under general conformity through a process that develops, funds, and implements emission reduction projects. To ensure emission reductions targeted by the VERA occur at the same time as project emissions, and thereby achieve net zero annual emissions, the Project Partners shall enter into a VERA with SJVAPCD prior to the release of NO<sub>x</sub> emissions associated with proposed project activities. SJVAPCD would serve as administrator of the emissions reduction projects and verifier of the successful mitigation effort.

Under the VERA, the Project Partners shall agree to mitigate project-specific emissions by providing funds for the SJVAPCD's Emission Reduction Incentive Program (ERIP). The funds would be disbursed by ERIP in the form of grants for projects that achieve emission reductions. Types of emission reduction projects that have been funded in the past include electrification of stationary internal combustion engines (such as agricultural irrigation pumps),

replacing old heavy-duty trucks with new, cleaner, more efficient heavy-duty trucks, and replacement of old farm tractors. The Project Partners would request that funding disbursement priority would be given to emission reduction projects of Partner landowners. The initial agreement would generally be based on the projected maximum emissions increases as calculated by a SJVAPCD-approved air quality impact assessment and contain the corresponding maximum fiscal obligation. However, because the goal is to mitigate actual emissions, the SJVAPCD has designed flexibility into the VERA such that the final mitigation would be based on actual emissions related to the project as determined by actual equipment used, hours of operation, and duration of work. After the project is mitigated, the SJVAPCD would certify to the lead agency that the mitigation is completed, providing the lead agency with an enforceable mitigation measure demonstrating that project-specific emissions have been mitigated to less than significant.

Finding: Changes or alterations have been required in, or incorporated into, the project which avoid or substantially lessen the significant environmental effect identified in the Final EIR. The project has been revised to require implementation of Mitigation Measures AIR-1, which will serve to reduce potential construction-related air quality impacts to less than significant after mitigation.

Rationale: Mitigation Measure AIR-1 requires a variety of emissions reduction measures and specifies that DPWD must prepare an emissions assessment analysis to be approved by the Air District, which would determine project maximum NO<sub>X</sub> emissions based in final design and project construction operations and schedule. If emissions would be above 10 tons per year contributions to emissions reduction projects would be required, thus reducing the impact to less than significant.

Impact AIR-3: Construction activities expose sensitive receptors to carbon monoxide and diesel particulate matter emissions. This would be considered a potentially significant impact.

#### **Mitigation Measures**

#### AIR-1

Reduce NOx Emissions: NOx emissions associated with construction activities shall be reduced to 10 tons per year through on-site equipment and hauling vehicle mitigation measures to the extent feasible. All vehicles and equipment used during construction shall be maintained and properly tuned in accordance with the manufacturer's specifications. All equipment shall be checked by a certified mechanic and determined to be running in proper condition prior to operation. Emissions reduction methods may be chosen from any combination of the following measures:

- Use of alternative fueled vehicles
- Use of newer tier engines
- Use of phased material hauling trips

- Use of after-market pollution control devices to reduce emissions
- Lengthening the construction schedule to reduce the annual intensity of construction activities

After certification of the DEIR, but before emissions associated with proposed project activities begin, the Del Puerto Water District shall be responsible for producing a SJVAPCD-approved air quality impact assessment analysis to determine the projected maximum project emissions which incorporates the most current proposed equipment fleet, hours of operation, duration of work, and on-site NO<sub>X</sub> reduction measures, based on final project design and phasing. If all feasible on-site measures have been implemented and annual emissions are anticipated to still be above 10 tons per year for NOx, then the Project Partners shall enter into a Voluntary Emissions Reduction Agreement (VERA) with SJVAPCD. The VERA would provide pound-for-pound mitigation of air emissions increases down to a net zero emissions per year as required under general conformity through a process that develops, funds, and implements emission reduction projects. To ensure emission reductions targeted by the VERA occur at the same time as project emissions, and thereby achieve net zero annual emissions, the Project Partners shall enter into a VERA with SJVAPCD prior to the release of NOx emissions associated with proposed project activities. SJVAPCD would serve as administrator of the emissions reduction projects and verifier of the successful mitigation effort.

Under the VERA, the Project Partners shall agree to mitigate project-specific emissions by providing funds for the SJVAPCD's Emission Reduction Incentive Program (ERIP). The funds would be disbursed by ERIP in the form of grants for projects that achieve emission reductions. Types of emission reduction projects that have been funded in the past include electrification of stationary internal combustion engines (such as agricultural irrigation pumps), replacing old heavy-duty trucks with new, cleaner, more efficient heavy-duty trucks, and replacement of old farm tractors. The Project Partners would request that funding disbursement priority would be given to emission reduction projects of Partner landowners. The initial agreement would generally be based on the projected maximum emissions increases as calculated by a SJVAPCD-approved air quality impact assessment and contain the corresponding maximum fiscal obligation. However, because the goal is to mitigate actual emissions, the SJVAPCD has designed flexibility into the VERA such that the final mitigation would be based on actual emissions related to the project as determined by actual equipment used, hours of operation, and duration of work. After the project is mitigated, the SJVAPCD would certify to the lead agency that the mitigation is completed, providing the lead agency with an enforceable mitigation measure demonstrating that project-specific emissions have been mitigated to less than significant.

Finding: Changes or alterations have been required in, or incorporated into, the project which avoid or substantially lessen the significant environmental effect identified in the Final EIR. The project has been revised to require implementation of Mitigation Measures AIR-1, which will serve to reduce potential construction-related air quality impacts on sensitive receptors to less than significant after mitigation.

Rationale: Health risk screening assessment shows that, with incorporation of Mitigation Measure AIR-1, construction emissions would not exceed the SJVAPCD prioritization score of 10, and construction emissions would not exceed SJVAPCD standards for toxic air contaminants, including standards for non-carcinogens and carcinogens (cancer risk). Impacts on sensitive receptors would thus be less than significant.

#### 3.4 **BIOLOGICAL RESOURCES - TERRESTRIAL**

Effects on special-status species

Impact BIO-TERR-1: Construction could adversely affect special-status species that have the potential to occur in the project area. This would be a potentially significant impact. Impacts and mitigation for specific species are discussed individually below.

Effects on special-status plants and their habitats

Impact BIO-TERR-1a: Construction could adversely affect special-status plants that have the potential to grow in the project area and result in loss of habitat for special-status plants. This would be a potentially significant impact. Impacts and mitigation for specific species are discussed individually below.

#### Mitigation Measures

Avoid and Minimize Impacts on Biological Resources: The Project Partners **BIO-TERR-1a** shall incorporate the following measures into construction plans.

- Employees and contractors performing construction and decommissioning activities will receive environmental sensitivity training. Training will include review of environmental laws, mitigation measures, permit conditions, and other requirements that must be followed by all personnel to reduce or avoid effects on biological resources during construction activities.
- · Vehicles and equipment will be parked on pavement, existing roads, and previously disturbed areas to the extent practicable.
- Offroad vehicle travel will be avoided outside of the construction footprint.
- Grading will be restricted to the minimum area necessary.
- Prior to ground-disturbing activities, sensitive habitats will be flagged by a USFWS and CDFW approved biologist and temporary fencing will be in

- place during construction to reduce the potential for vehicles and equipment to stray into these areas.
- Vehicles or equipment will not be refueled within 100 feet of a wetland. stream, or other waterway unless a bermed and lined refueling area (i.e., a created berm made of sandbags or other removable material) is constructed.
- Erosion control measures will be implemented to reduce sedimentation in nearby aquatic habitat when activities are the source of potential erosion. Plastic monofilament netting (erosion control matting) or similar material containing netting will not be used at the project site. Acceptable substitutes include coconut coir matting or tackified hydroseeding compounds.
- The following will not be allowed at or near work sites for project activities: trash dumping, firearms, open fires (such as barbecues), hunting, and pets.
- First- and second-generation rodenticides will not be used within the project site except for the limited use of zinc phosphide, or a rodenticide allowed for use by the California Department of Pesticide Regulation.

An approved biologist will be on site during initial ground-disturbing activities within and adjacent to grassland areas and during the removal of any trees. The biologist will assist the crew, as needed, to comply with all project implementation restrictions and guidelines. In addition, the biologist will be responsible for ensuring that contractors maintain exclusion areas adjacent to sensitive biological resources, and for documenting compliance with all biological resources-related mitigation measures.

# **BIO-TERR-1b**

Avoid and Compensate for Adverse Effects on Special-Status Plant

**Species**: Because the 2020 spring botanical surveys were inconclusive for several special-status plants that grow in grasslands, surveys of the grasslands must be conducted for special-status plants. Prior to the start of any proposed project activities, surveys of the study area shall be conducted for specialstatus plants by qualified botanists in accordance with the appropriate protocols. The surveys shall be conducted in accordance with Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities (California Department of Fish and Wildlife 2018c) during the season that special-status plant species would be evident and identifiable, which generally is during their blooming season. The surveys shall be conducted within no more than 3 years prior to the start of grounddisturbing activities. The results of the survey shall be submitted to DPWD and CDFW for review no less than 1 year prior to the start of grounddisturbing activities. The report will include the location and description of all proposed work areas and the location and description of all occupied habitat for special-status plant species, and it will identify locations where effective avoidance measures could be implemented. In areas where no special-status plant species are present no further mitigation would be required.

Where surveys determine that a special-status plant species is present in or adjacent to a project area where temporary ground-disturbing activities would take place, project impacts on the species shall be avoided through the establishment of activity exclusion zones, within which no ground-disturbing activities will take place, including construction staging, or other temporary work areas. Activity exclusion zones for special-status plant species shall be established around each occupied habitat site, the boundaries of which shall be clearly marked with standard orange plastic construction exclusion fencing or its equivalent. The establishment of activity exclusion zones shall not be required if no construction-related disturbances will occur within 250 feet of the occupied habitat. The size of activity exclusion zones may be reduced through consultation with a qualified biologist and with concurrence from CDFW based on site-specific conditions.

Prior to any activities that would result in permanent impacts on special-status plants, compensation habitat for each affected species shall be acquired and permanently protected at a ratio of 2 acres protected for every 1 acre that would be lost. Compensation habitat shall consist of existing, off-site occupied habitat acquired in-fee, through conservation easements, or from a certified conservation bank. The compensation habitat shall be monitored annually to verify that the habitat suitability is maintained. An operations and management plan shall be prepared and implemented for each compensation habitat, with funding provided through an endowment, to monitor the habitat and determine and implement appropriate management measures to maintain the habitat. Annual monitoring reports shall be submitted to CDFW for review and determination that the project remains in compliance with the mitigation.

**Findings:** Changes or alterations have been required in, or incorporated into, the project which avoid or substantially lessen the significant environmental effect identified in the Final EIR. The project has been revised to require implementation of Mitigation Measures BIO-TERR-1a and BIO-TERR-1b and therefore this impact would be considered **less than significant** after mitigation.

Rationale: Implementation of Mitigation Measures BIO-TERR-1a and BIO-TERR-1b will ensure sensitive habitats are avoided to the extent feasible. Where habitat avoidance is not possible, special status plants will be identified and protected, and if any plants are adversely affected, conservation strategies will be employed to protect the viability of the local plant population and require compensation where any permanent impacts would occur. Therefore, with the implementation of these measures, the impact will be less than significant.

# Effects on vernal pool branchiopods

Impact BIO-TERR-1b: Construction of the project could adversely affect vernal pool branchiopods that have the potential to occur in the reservoir footprint

and in vernal pools that could be affected by utility or road relocation. This would be a **potentially significant impact**.

# **Mitigation Measures**

### **BIO-TERR-1c**

Compensate for the loss of habitat occupied by vernal pool fairy shrimp and/or vernal pool tadpole shrimp: At least one year prior to impacting any of the potential vernal pool branchiopod habitat, a biologist with a 10(a)(1)(A) recovery permit for vernal pool branchiopods shall conduct protocol level surveys for federally listed vernal pool branchiopods following the USFWS's 2015 Survey Guidelines for the Listed Large Branchiopods. These surveys require the completion of one dry season survey and one wet season survey. If no federally listed branchiopods are present no further mitigation would be required other than requirements under federal and state laws protecting wetlands. If federally listed branchiopods are determined to be present and are located in permanent disturbance areas then the Project Partners shall compensate for the loss of federally listed vernal pool branchiopod habitat through the purchase of credits from a USFWS approved mitigation bank at a conservation acreage of 2:1 protection and 1:1 restoration.

Finding: Changes or alterations have been required in, or incorporated into, the project which avoid or substantially lessen the significant environmental effect identified in the Final EIR. The project has been revised to require implementation of Mitigation Measures BIO-TERR-1a and BIO-TERR-1c, and, as a result, this impact would be considered less than significant after mitigation.

Rationale: The project has been revised to require implementation Mitigation Measures BIO-TERR-1a and BIO-TERR-1c, which require protection of sensitive habitats and will ensure that habitat potentially containing vernal pool branchiopods is replaced if occupied habitat is affected by project construction or operation. Therefore, with the implementation of these measures, the impact will be less than significant.

# Effects on valley elderberry longhorn beetle

Impact BIO-TERR-1c: Construction could affect elderberry bushes that provide habitat for valley elderberry longhorn beetle (VELB). This would be a potentially significant impact.

# **Mitigation Measures**

# BIO-TERR-1d Avoid, Minimize, and Compensate for Impacts of Valley Elderberry Longhorn beetle:

Preconstruction Exit Hole Surveys

Prior to filling the reservoir, elderberry shrubs in the inundation footprint shall be surveyed for exit holes following the guidance in the USFWS's Framework

to determine if they have potentially become occupied by valley elderberry longhorn beetle.

Avoidance and Minimization Measures

The following measures come from the USFWS's 2017 Framework and are intended to be implemented where project construction occurs within 165 feet of elderberry shrubs, which currently is limited to one shrub near where the new road alignment ties back into the existing Del Puerto Canyon Road.

- Fencing. All areas to be avoided during construction activities will be fenced and/or flagged as close to construction limits as feasible.
- Avoidance area. Activities that may damage or kill an elderberry shrub (e.g., trenching, paving) may need an avoidance area of at least 6 meters (20 feet) from the drip-line, depending on the type of activity.
- Worker education. A qualified biologist will provide training for all contractors, work crews, and any onsite personnel on the status of the VELB, its host plant and habitat, the need to avoid damaging the elderberry shrubs, and the possible penalties for noncompliance.
- Construction monitoring. A qualified biologist will monitor the work area at project-appropriate intervals to assure that all avoidance and minimization measures are implemented. The amount and duration of monitoring will depend on the project specifics and will be discussed with the Service biologist.
- Timing. As much as feasible, all activities that could occur within 50 meters (165 feet) of an elderberry shrub, will be conducted outside of the flight season of the VELB (March July).
- Trimming. Trimming may remove or destroy VELB eggs and/or larvae and may reduce the health and vigor of the elderberry shrub. In order to avoid and minimize adverse effects to VELB when trimming, trimming will occur between November and February and will avoid the removal of any branches or stems that are ≥ 1 inch in diameter. Measures to address regular and/or large-scale maintenance (trimming) shall be established in consultation with USFWS.
- Chemical Usage. Herbicides will not be used within the drip-line of the shrub. Insecticides will not be used within 30 meters (98 feet) of an elderberry shrub. All chemicals will be applied using a backpack sprayer or similar direct application method. 12 Mowing. Mechanical weed removal within the drip-line of the shrub will be limited to the season when adults are not active (August February) and will avoid damaging the elderberry.
- Erosion Control and Re-vegetation. Erosion control will be implemented and the affected area will be re-vegetated with appropriate native plants.

# Compensation

If no occupied shrubs would be lost, no further mitigation would be required. If shrubs determined to be occupied by valley elderberry longhorn beetle are

lost due to project construction and/or inundation, the Project Partners shall compensate for the loss of individual shrubs by purchasing credits at a USFWS approved mitigation bank. Per the USFWS 2017 Framework, those shrubs that can be transplanted (i.e., those not on cliffs and those that are likely to withstand transplantation) will also be moved to the USFWS approved mitigation bank. The specific location for the mitigation will be developed during Reclamation's consultation with the USFWS.

# **BIO-TERR-2**

Compensate for Effects on Riparian Habitat or Other Sensitive Natural Community: Riparian habitat shall be created or acquired and permanently protected to compensate for project effects to ensure no net loss of riparian habitat functions and values. Land that could be acquired could include acres upstream of the reservoir or elsewhere that satisfied appropriate compensation ratios. Compensation ratios shall be based on site-specific information and determined through coordination with state and federal agencies (CDFW, USFWS, USACE, SWRCB). The compensation shall be at a minimum 1:1 ratio (1 acre restored or created for every 1 acre filled) and may be a combination of offsite restoration/creation and mitigation credits. A restoration and monitoring plan shall be developed and implemented concurrently with project construction. The plan shall describe how riparian habitat will be created and monitored, including funding mechanisms and appropriate long-term management measures, and agency reporting requirements.

Finding: Changes or alterations have been required in, or incorporated into, the project which avoid or substantially lessen the significant environmental effect identified in the Final EIR. The project has been revised to require implementation of Mitigation Measures BIO-TERR-1a, BIO-TERR-1d, and BIO-TERR-2 and, as a result, this impact would be considered less than significant after mitigation.

Rationale: The project has been revised to require implementation Mitigation Measures BIO-TERR-1a, BIO-TERR-1d, and BIO-TERR-2, which will ensure sensitive habitats are protected and will ensure that the potential for take of valley elderberry longhorn beetle is avoided and minimized during construction and operations, and that lost habitat is replaced. Therefore, with the implementation of these measures, the impact will be less than significant.

# Effects on California tiger salamander

Impact BIO-TERR-1d: The project would result in loss of upland and aquatic habitat for California tiger salamander. This would be a potentially significant impact.

# Mitigation Measures

# BIO-TERR-1e Avoid and Minimize Impacts on Special-Status Amphibians

Conduct Protocol Level Surveys

To guide the implementation of avoidance and minimization measures, protocol level surveys for California tiger salamander, California red-legged frog, and foothill yellow-legged frog shall be conducted by a USFWS and CDFW-approved biologist (approved biologist) that possess necessary handling permits (California tiger salamander only).

- California tiger salamander surveys will be conducted in potentially suitable habitat according to the USFWS's and CDFW's Interim Guidance on Site Assessment and Field Surveys for Determining Presence or a Negative Finding of the California Tiger Salamander (U.S. Fish and Wildlife Service and California Department of Fish and Wildlife 2003).
- California red-legged frogs surveys will be conducted in potentially suitable habitat according to the USFWS's *Revised Guidance on Site Assessments and Field Surveys for the California Red-legged Frog* (U.S. Fish and Wildlife Service 2005).
- Foothill yellow-legged frog surveys will be conducted according to CDFW's Considerations for Conserving the Foothill Yellow-Legged Frog (California Department of Fish and Wildlife 2018b) or the most up to date survey protocol at that time.

No specific protocol has been developed for western spadefoot toad but presence will be determined by conducting surveys during the winter and spring to identify adults, egg masses, larvae, and/or metamorphs.

#### Avoidance and Minimization Measures

The following measures shall be implemented to avoid and minimize effects on special-status amphibians during construction and maintenance activities, if presence is confirmed by protocol level surveys of special-status amphibians as described above.

- Ground disturbance will be limited to permanent and temporary impact areas identified in final plans for the reservoir.
- The pond that falls within the area identified as needed for access to and construction of two of the saddle dams will be avoided during construction by placing high visibility fencing around the perimeter of the pond. The fencing will be open at the bottom to allow the movement of wildlife in and out of the pond.
- The approved biologist will be present during all ground-disturbing activities and during any activities involving heavy equipment in used in or adjacent to suitable upland and/or aquatic habitat.
- Maintenance activities in vegetated areas will be conducted during the dry season (generally April 1 to October 14) and will avoid and minimize disturbance to small mammal burrows. Use of first- and second-generation rodenticides shall not be permitted except for the limited use of zinc

- phosphide, or a rodenticide allowed for use by the California Department of Pesticide Regulation.
- Within habitat for California tiger salamander, California red-legged frog, and western spadefoot toad initial ground-disturbing activities will not take place during the rainy season, generally October 15 to March 31 (or until the first measurable rain of 1 inch or greater), to avoid the period when most amphibian movement across upland habitat are expected to occur.
- Ground disturbing activities may take place during the wet season in areas where potential habitat for special-status amphibians has been removed and when an approved biologist is present to monitor activities.
- When work occurs in special-status amphibian habitat, the approved biologist will conduct a pre-activity survey immediately prior to work beginning. The biologist will inspect beneath equipment, vehicles, and stored materials that had been left in the work area overnight.
- If a special-status amphibian is found in a work area it will at first be allowed to move out of the work area on its own but if there is no suitable habitat for the animal to freely move to it will be relocated by the approved biologist to a pre-determined location identified in coordination with USFWS and CDFW.
- To prevent the accidental entrapment of species during construction, all excavated trenches and holes deeper than 6 inches will be ramped at the end of the workday to allow trapped animals a means of escaping. Earthen ramps will be constructed at each end of the active trench and boards will be placed in open holes. Each day that a trench and/or hold is open and prior to backfilling, these areas will be inspected by a USFWS and CDFW approved monitor. If an animal is found trapped in a trench or hole, construction will cease until it exits the trench or hole on its own or is relocated to an approved location by a USFWS and CDFW-approved biologist.
- If work in suitable special-status amphibian habitat occurs during the rainy season, generally October 15 to March 31, and lasts for more than 1 day, exclusion fencing will be installed between the work area and areas of suitable habitat. A USFWS and CDFW approved biologist will determine where exclusion fencing will be installed. The fencing will be installed to a depth of 6 inches and be at least 36 inches above grade. The contractor will avoid placing fencing on top of ground squirrel burrows. A qualified biologist will inspect the fencing daily for the presence of these species.
- If the exclusion fence is found to be compromised at any time, a survey will be conducted immediately preceding construction activity that occurs in special-status amphibian habitat or in advance of any activity that may result in take of the species. The biologist will search along exclusion fences and in pipes and beneath vehicles before they are moved. The survey will include a careful inspection of all potential hiding spots, such as along exclusion fencing, large downed woody debris, the perimeter of ponds, wetlands, and riparian areas. Any special-status amphibians found

- will either be allowed to move on its own accord or will be captured and relocated as described above.
- Between when construction begins and when the reservoir is filled, when
  construction activities occur in streams, temporary aquatic barriers such as
  hardware cloth will be installed both up and downstream of the in-stream
  work area, and special-status amphibians will be relocated and excluded
  from the work area. The approved biologist will establish an adequate
  buffer on both sides of creeks and around potential aquatic habitat and will
  restrict entry during the construction period.
- If the use of pumps is necessary for diverting flows or dewatering Del Puerto Creek during construction of the dam, pump intakes will be fitted with a screen-type device consisting of, at minimum, a water intake strainer. Water intake strainers are most appropriate for low-volume diversion projects. For high-volume water diversion projects or other diversion activities that may warrant greater protection, pump intakes shall be fitted with screens made of woven mesh, perforated plate, or wedge wire. The screen medium must be able to withstand forces related to pumping and be of sufficient size to prevent amphibian larvae from entering the intake and being diverted within the water.

#### **BIO-TERR-1f**

Compensation for the loss of California Tiger Salamander Habitat: If protocol level surveys determine that California tiger salamander is not present in the study area then no further mitigation is required. If California tiger salamander is present in aquatic and upland habitat in the study area, the habitat permanently lost due to the proposed project shall be mitigated at a minimum of 1:1. Mitigation shall be achieved through either purchasing credits a USFWS and CDFW approved mitigation bank or through the purchase of a conservation easement with an associated endowment approved by USFWS and CDFW. Any conservation lands will be shown to be occupied by California tiger salamander and will be managed in perpetuity for the benefit of the species. Details of the mitigation shall be further developed in consultation with USFWS and CDFW.

Finding: Changes or alterations have been required in, or incorporated into, the project which avoid or substantially lessen the significant environmental effect identified in the Final EIR. The project has been revised to require implementation of Mitigation Measures BIO-TERR-1a, BIO-TERR-1e and BIO-TERR-1f, and, as a result, this impact would be considered less than significant after mitigation.

Rationale: The project has been revised to require implementation of Mitigation Measures BIO-TERR-1a, BIO-TERR-1e and BIO-TERR-1f, which will ensure sensitive habitats are protected. Potential for take of California tiger salamander will be avoided and minimized during construction and operations; any aquatic habitat lost would be replaced and suitable upland habitat will be and preserved and managed. Therefore, with the implementation of these measures, the impact will be less than significant.

# Effects on California red-legged frog

Impact BIO-TERR-1e: The project would result in loss of upland and aquatic habitat for California red-legged frog. This would be a potentially significant

impact.

# **Mitigation Measures**

**BIO-TERR-1g** 

Compensate for the Loss of California Red-legged Frog Habitat: If protocol level surveys determine that California red-legged frog is not present no compensatory mitigation would be required. If California red-legged frog is present in aquatic and upland habitat in the study area, the habitat permanently impacted due to the proposed project shall be mitigated at a minimum of 1:1. Mitigation shall be achieved through either purchasing credits at a USFWS approved mitigation bank or through the purchase of a conservation easement with an associated endowment approved by USFWS. Any conservation lands will be shown to be occupied by California red-legged frog and will be managed in perpetuity for the benefit of the species. Details of the mitigation shall be further developed in consultation with USFWS.

**Finding:** Changes or alterations have been required in, or incorporated into, the project which avoid or substantially lessen the significant environmental effect identified in the Final EIR. The project has been revised to require implementation of Mitigation Measures BIO-TERR-1a, BIO-TERR-1e and BIO-TERR-1g, and, as a result, this impact would be considered **less than significant** after mitigation.

Rationale: The project has been revised to require implementation of Mitigation Measures BIO-TERR-1a, BIO-TERR-1e and BIO-TERR-1g, which will ensure sensitive habitats are protected. Potential for take of California red-legged frog will be avoided and minimized during construction and operations; any aquatic habitat lost would be replaced and suitable upland habitat will be and preserved and managed. Therefore, with the implementation of these measures, the impact will be less than significant.

#### Effects on western spadefoot toad

Impact BIO-TERR-1f: The project would result in loss of upland and aquatic habitat for western spadefoot toad. This would be a potentially significant impact.

#### **Mitigation Measures**

# BIO-TERR-1e Avoid and Minimize Impacts on Special-Status Amphibians

Conduct Protocol Level Surveys

To guide the implementation of avoidance and minimization measures, protocol level surveys for California tiger salamander, California red-legged frog, and foothill yellow-legged frog shall be conducted by a USFWS and

CDFW-approved biologist (approved biologist) that possess necessary handling permits (California tiger salamander only).

- California tiger salamander surveys will be conducted in potentially suitable habitat according to the USFWS's and CDFW's Interim Guidance on Site Assessment and Field Surveys for Determining Presence or a Negative Finding of the California Tiger Salamander (U.S. Fish and Wildlife Service and California Department of Fish and Wildlife 2003).
- California red-legged frogs surveys will be conducted in potentially suitable habitat according to the USFWS's Revised Guidance on Site Assessments and Field Surveys for the California Red-legged Frog (U.S. Fish and Wildlife Service 2005).
- Foothill yellow-legged frog surveys will be conducted according to CDFW's Considerations for Conserving the Foothill Yellow-Legged Frog (California Department of Fish and Wildlife 2018b) or the most up to date survey protocol at that time.

No specific protocol has been developed for western spadefoot toad but presence will be determined by conducting surveys during the winter and spring to identify adults, egg masses, larvae, and/or metamorphs.

# Avoidance and Minimization Measures

The following measures shall be implemented to avoid and minimize effects on special-status amphibians during construction and maintenance activities, if presence is confirmed by protocol level surveys of special-status amphibians as described above.

- Ground disturbance will be limited to permanent and temporary impact areas identified in final plans for the reservoir.
- The pond that falls within the area identified as needed for access to and construction of two of the saddle dams will be avoided during construction by placing high visibility fencing around the perimeter of the pond. The fencing will be open at the bottom to allow the movement of wildlife in and out of the pond.
- The approved biologist will be present during all ground-disturbing activities and during any activities involving heavy equipment in used in or adjacent to suitable upland and/or aquatic habitat.
- Maintenance activities in vegetated areas will be conducted during the dry season (generally April 1 to October 14) and will avoid and minimize disturbance to small mammal burrows. Use of first- and second-generation rodenticides shall not be permitted except for the limited use of zinc phosphide, or a rodenticide allowed for use by the California Department of Pesticide Regulation.
- Within habitat for California tiger salamander, California red-legged frog, and western spadefoot toad initial ground-disturbing activities will not take place during the rainy season, generally October 15 to March 31 (or until the first measurable rain of 1 inch or greater), to avoid the period when most amphibian movement across upland habitat are expected to occur.

- Ground disturbing activities may take place during the wet season in areas
  where potential habitat for special-status amphibians has been removed
  and when an approved biologist is present to monitor activities.
- When work occurs in special-status amphibian habitat, the approved biologist will conduct a pre-activity survey immediately prior to work beginning. The biologist will inspect beneath equipment, vehicles, and stored materials that had been left in the work area overnight.
- If a special-status amphibian is found in a work area it will at first be allowed to move out of the work area on its own but if there is no suitable habitat for the animal to freely move to it will be relocated by the approved biologist to a pre-determined location identified in coordination with USFWS and CDFW.
- To prevent the accidental entrapment of species during construction, all excavated trenches and holes deeper than 6 inches will be ramped at the end of the workday to allow trapped animals a means of escaping. Earthen ramps will be constructed at each end of the active trench and boards will be placed in open holes. Each day that a trench and/or hold is open and prior to backfilling, these areas will be inspected by a USFWS and CDFW approved monitor. If an animal is found trapped in a trench or hole, construction will cease until it exits the trench or hole on its own or is relocated to an approved location by a USFWS and CDFW-approved biologist.
- If work in suitable special-status amphibian habitat occurs during the rainy season, generally October 15 to March 31, and lasts for more than 1 day, exclusion fencing will be installed between the work area and areas of suitable habitat. A USFWS and CDFW approved biologist will determine where exclusion fencing will be installed. The fencing will be installed to a depth of 6 inches and be at least 36 inches above grade. The contractor will avoid placing fencing on top of ground squirrel burrows. A qualified biologist will inspect the fencing daily for the presence of these species.
- If the exclusion fence is found to be compromised at any time, a survey will be conducted immediately preceding construction activity that occurs in special-status amphibian habitat or in advance of any activity that may result in take of the species. The biologist will search along exclusion fences and in pipes and beneath vehicles before they are moved. The survey will include a careful inspection of all potential hiding spots, such as along exclusion fencing, large downed woody debris, the perimeter of ponds, wetlands, and riparian areas. Any special-status amphibians found will either be allowed to move on its own accord or will be captured and relocated as described above.
- Between when construction begins and when the reservoir is filled, when construction activities occur in streams, temporary aquatic barriers such as hardware cloth will be installed both up and downstream of the in-stream work area, and special-status amphibians will be relocated and excluded from the work area. The approved biologist will establish an adequate

- buffer on both sides of creeks and around potential aquatic habitat and will restrict entry during the construction period.
- If the use of pumps is necessary for diverting flows or dewatering Del Puerto Creek during construction of the dam, pump intakes will be fitted with a screen-type device consisting of, at minimum, a water intake strainer. Water intake strainers are most appropriate for low-volume diversion projects. For high-volume water diversion projects or other diversion activities that may warrant greater protection, pump intakes shall be fitted with screens made of woven mesh, perforated plate, or wedge wire. The screen medium must be able to withstand forces related to pumping and be of sufficient size to prevent amphibian larvae from entering the intake and being diverted within the water.

#### **BIO-TERR-3**

Compensate for Adverse Effects on State or Federally Protected Wetlands: Suitable wetland habitat shall be created or acquired and permanently protected to compensate for project effects to ensure no net loss of wetland habitat functions and values. Compensation ratios shall be based on site-specific information and determined through coordination with state and federal agencies (CDFW, USFWS, USACE, SWRCB). The compensation shall be at a minimum 1:1 ratio (1 acre restored or created for every 1 acre filled) and may be a combination of offsite restoration/creation and mitigation credits. A restoration and monitoring plan shall be developed and implemented. The plan shall describe how wetland habitat will be created and monitored, including funding mechanisms and appropriate long-term management measures, and agency reporting requirements.

**Finding:** Changes or alterations have been required in, or incorporated into, the project which avoid or substantially lessen the significant environmental effect identified in the Final EIR. The project has been revised to require implementation of Mitigation Measures BIO-TERR-1a and BIO-TERR-1e, and, as a result, this impact would be considered **less than significant** after mitigation.

Rationale: The project has been revised to require implementation of Mitigation Measures BIO-TERR-1a and BIO-TERR-1e, which will ensure sensitive habitats are protected an avoid, minimize and compensate for effects on special-status amphibians. Additionally, Mitigation Measures BIO-TERR-1f and BIO-TERR-1g address impacts to California tiger salamander and California red-legged frog, and there is overlap in the habitat requirements of these species and western spadefoot toad and therefore, together with the avoidance and minimization measures, this compensatory mitigation would reduce the impact on western spadefoot toad to less than significant because it would ensure that the potential for injury and mortality is avoided and minimized during construction and operations, and would replace any aquatic habitat lost and preserve and manage suitable upland habitat. Mitigation Measure BIO-TERR-3 would also compensate for impacts on wetlands and waters and would thus benefit western spadefoot toad. Therefore, with the implementation of these measures, the impact will be less than significant.

# Effects on foothill yellow-legged frog

Impact BIO-TERR-1g: The project would result in loss of upland and aquatic habitat for foothill yellow-legged frog. This would be a potentially significant impact.

# **Mitigation Measures**

## BIO-TERR-1h

Compensate for the Loss of Foothill Yellow-legged Frog Habitat: If surveys determine that foothill yellow-legged frog is not present in Del Puerto Creek no further mitigation is necessary. If foothill yellow-legged from is present, the habitat permanently impacted due to the proposed project shall be fully mitigated by either purchasing property and/or a conservation easement that contains stream habitat of similar quality and quantity and that is currently occupied by foothill yellow-legged frog and/or represents an area that has been historically occupied and where successful recolonization is likely (e.g., known occupation in nearby watershed or tributary). A final mitigation plan shall be developed and approved by CDFW. The plan shall include measures for the long-term management of these lands for the benefit of foothill yellow-legged frog and include adaptive management measures

**Finding:** Changes or alterations have been required in, or incorporated into, the project which avoid or substantially lessen the significant environmental effect identified in the Final EIR. The project has been revised to require implementation of Mitigation Measures BIO-TERR-1a, BIO-TERR-1e and BIO-TERR-1h, and, as a result, this impact would be considered less than significant after mitigation.

Rationale: The project has been revised to require implementation of Measures BIO-TERR-1a, BIO-TERR-1e and BIO-TERR-1h, which provide measures for avoiding and minimizing effects on special-status amphibians and compensate for the loss of occupied foothill yellow-legged frog habitat. Therefore, with the implementation of these measures, the impact will be less than significant.

# Effects on special-status reptiles

**Impact BIO-TERR-1h:** The project would result in the loss of habitat that provides potential habitat for special-status reptiles, which includes Blainville's horned lizard, northern California legless lizard, and San Joaquin coachwhip. This would be considered a potentially significant impact.

#### Mitigation Measures

#### BIO-TERR-1i

Avoid and Minimize Impacts on Special-Status Reptiles: The following measures shall be implemented to ensure that the proposed project does not have a significant impact on special-status reptiles:

The approved biologist monitoring construction will survey for specialstatus reptiles in areas of suitable habitat (i.e., permanent removal of 138

acres and temporary disturbance of 530 acres of grassland and scrub) immediately prior to initial ground disturbing activities and vegetation removal. If special-status reptiles are not found, no additional measures are required.

- If any special-status reptiles are found, work will not begin until they are allowed to passively move out of the work area or are relocated to a CDFW-approved relocation site. Relocation of these species would require consulting with CDFW and a letter from CDFW authorizing this activity.
  - o No monofilament plastic will be used for erosion control.
  - o The approved biologist will inspect open trenches and pits and under construction equipment and materials left on site for special-status reptiles each morning before equipment and materials are moved.
  - o Ground disturbance in suitable habitat will be minimized to the extent practicable.
  - o Vegetation outside the work area will not be removed.
  - o All vegetation removal will be monitored by the approved biologist to minimize impacts on special-status reptiles.

BIO-TERR-1m Compensate for the Loss of Swainson's Hawk Foraging Habitat: The permanent loss of Swainson's hawk foraging habitat will be mitigated according to the guidance in the Staff Report Regarding Mitigation for Impacts to Swainson's Hawks (Buteo swainsoni) in the Central Valley of California (California Department of Fish and Game 1994). This guidance includes recommended mitigation ratios based on the proximity to an active nest (used during one or more of the last 5 years preceding the initiation of the activity). As noted previously, a pair of Swainson's hawks was observed within the study area between the California Aqueduct and I-5 in May of 2019.

Findings: Changes or alterations have been required in, or incorporated into, the project which avoid or substantially lessen the significant environmental effect identified in the Final EIR. The project has been revised to require implementation of Mitigation Measures BIO-TERR-1a, BIO-TERR-1i, and BIO-TERR-1m, and as a result, this impact would be considered less than significant after mitigation.

Rationale: Implementation of Mitigation Measures BIO-TERR-1a and BIO-TERR-1i, which provide measures for avoiding and minimizing effects on special-status reptiles would reduce the impact on special-status reptiles to less than significant because injury and/or mortality will be avoided and minimized. Mitigation Measure BIO-TERR-1m would require replacement of grassland, which provides habitat for both special status reptiles and for Swanson's hawk, so suitable habitat will be replaced. Therefore, with the implementation of these measures, the impact will be less than significant.

# Effects on western pond turtle

Impact BIO-TERR-1i: The project would result in the loss of western pond turtle aquatic and upland habitat. This would be considered a potentially significant impact.

## **Mitigation Measures**

**BIO-TERR-1a** Avoid and Minimize Impacts on Biological Resources: The Project Partners shall incorporate the following measures into construction plans.

- Employees and contractors performing construction and decommissioning
  activities will receive environmental sensitivity training. Training will
  include review of environmental laws, mitigation measures, permit
  conditions, and other requirements that must be followed by all personnel
  to reduce or avoid effects on biological resources during construction
  activities.
- Vehicles and equipment will be parked on pavement, existing roads, and previously disturbed areas to the extent practicable.
- Offroad vehicle travel will be avoided outside of the construction footprint.
- Grading will be restricted to the minimum area necessary.
- Prior to ground-disturbing activities, sensitive habitats will be flagged by a USFWS and CDFW approved biologist and temporary fencing will be in place during construction to reduce the potential for vehicles and equipment to stray into these areas.
- Vehicles or equipment will not be refueled within 100 feet of a wetland, stream, or other waterway unless a bermed and lined refueling area (i.e., a created berm made of sandbags or other removable material) is constructed.
- Erosion control measures will be implemented to reduce sedimentation in nearby aquatic habitat when activities are the source of potential erosion.
   Plastic monofilament netting (erosion control matting) or similar material containing netting will not be used at the project site. Acceptable substitutes include coconut coir matting or tackified hydroseeding compounds.
- The following will not be allowed at or near work sites for project activities: trash dumping, firearms, open fires (such as barbecues), hunting, and pets.
- First- and second-generation rodenticides will not be used within the project site except for the limited use of zinc phosphide, or a rodenticide allowed for use by the California Department of Pesticide Regulation.

An approved biologist will be on site during initial ground-disturbing activities within and adjacent to grassland areas and during the removal of any trees. The biologist will assist the crew, as needed, to comply with all project implementation restrictions and guidelines. In addition, the biologist will be

responsible for ensuring that contractors maintain exclusion areas adjacent to sensitive biological resources, and for documenting compliance with all biological resources—related mitigation measures.

Findings: Changes or alterations have been required in, or incorporated into, the project which avoid or substantially lessen the significant environmental effect identified in the Final EIR. The project has been revised to require implementation of Mitigation Measure BIO-TERR-1a, and, as a result, this impact would be considered less than significant after mitigation.

Rationale: Implementation of Mitigation Measure TERR-1a, which includes construction monitoring and worker education and measures to protect water quality, will avoid and minimize the potential for the injury and/or mortality of western pond turtle during construction and maintenance activities. Therefore, with the implementation of these measures, the impact will be less than significant.

# Effects on western burrowing owls

Impact BIO-TERR-1j: The project has the potential to affect burrowing owls during construction and would result in the loss of burrowing owl habitat. This would be considered a **potentially significant impact.** 

# **Mitigation Measures**

- Avoid and Minimize Impacts on Western Burrowing Owl: The following measures, which were developed based on the Staff Report on Burrowing Owl Mitigation (California Department of Fish and Game 2012), shall be implemented to avoid and minimize potential adverse impacts on burrowing owls prior to and during project construction and maintenance activities that require large areas of ground disturbance (e.g., grading).
  - A qualified biologist will conduct preconstruction take avoidance surveys for burrowing owl 14 days prior to and a second survey within 24 hours of initiating ground-disturbing activities and before the filling of the reservoir. The survey area will encompass the work area and a 500-foot buffer around this area, as well as the inundation area. If no burrowing owls are found then no further mitigation would be required unless there is a lapse in time before the start of construction activities.
  - To the maximum extent feasible, construction activities within 500 feet of active burrowing owl burrows will be avoided during the nesting season (February 1-August 31).
  - If an active burrow is identified near a proposed work area and work cannot be conducted outside the nesting season (February 1–August 31), a no-activity zone will be established by a biologist experienced with burrowing owls in coordination with CDFW. The no-activity zone will be large enough to avoid nest abandonment and will extend a minimum of 250 feet around the burrow.

- If burrowing owls are present at the site during the nonbreeding season (September 1– January 31), a qualified biologist will establish a no-activity zone that extends a minimum of 150 feet around the burrow.
- If the designated no-activity zone for either breeding or non-breeding burrowing owls cannot be established, a wildlife biologist experienced in burrowing owl behavior will evaluate site-specific conditions and, in coordination with CDFW, recommend a smaller buffer (if possible) that still minimizes the potential to disturb the owls. The site-specific buffer will consider the type and extent of the proposed activity occurring near the occupied burrow, the duration and timing of the activity, the sensitivity and habituation of the owls, and the dissimilarity of the proposed activity to background activities.
- If burrowing owls are present in the direct disturbance area and cannot be avoided during the non-breeding season (generally September 1–January 31), passive relocation techniques (e.g., installing one-way doors at burrow entrances) may be used. Passive relocation may also be used during the breeding season (February 1–August 30) if a biologist with burrowing owl experience, coordinating with CDFW, determines through site surveillance and/or scoping that the burrow is not occupied by burrowing owl adults, young or eggs. Passive relocation will be accomplished by installing one-way doors (e.g., modified dryer vents or other CDFW approved method), which will be left in place for a minimum of 1 week and monitored daily to ensure that the owls have left the burrow. Excavation of the burrow will be conducted using hand tools. During excavation of the burrow, a section of flexible plastic pipe (at least 3 inches in diameter) will be inserted into the burrow tunnel to maintain an escape route for any animals that may be inside the burrow.
- Any owls in occupied burrows within the reservoir footprint shall be relocated using passive relocation techniques.
- Avoid destruction of unoccupied burrows outside the work area and place visible markers near burrows to ensure that they are not collapsed.
- Conduct ongoing surveillance of the project site for burrowing owls during project activities. If additional owls are observed using burrows within 500 feet of construction, the on-site biological monitor will determine, in coordination with CDFW, if the owl(s) are or would be affected by construction activities and if additional exclusion zones are required.
- If burrowing owls are detected during preconstruction surveys, the Project Partners will compensate for the loss of burrowing habitat according to the guidelines in *Staff Report on Burrowing Owl Mitigation* (California Department of Fish and Game 2012). These guidelines do not recommend minimum habitat replacement ratios but do note that the conservation area should be comparable to or better than that of the impact area, of sufficiently large acreage, and should support burrowing mammals. Any such conservation may be combined with conservation areas that are developed for this project for Swainson's hawk and/or San Joaquin kit fox. If burrowing owl conservation is appropriate on these lands, the respective mitigation and monitoring plans developed for these areas will be modified to include measures for the maintenance and enhancement of habitat for burrowing owl.

Findings: Changes or alterations have been required in, or incorporated into, the project which avoid or substantially lessen the significant environmental effect identified in the Final EIR. The project has been revised to require implementation of Mitigation Measures BIO-TERR-1a and BIO-TERR-1j, and, as a result, this impact would be considered less than significant after mitigation.

Rationale: Implementation of Mitigation Measures BIO-TERR-1a and BIO-TERR-1j would avoid, minimize, and compensate for effects on western burrowing owl, and would therefore reduce the impact on western burrowing owl to less than significant because the potential for injury and/or mortality would be avoided and minimized and any occupied habitat lost would be replaced. Therefore, with the implementation of these measures, the impact will be less than significant.

Effects on Special-Status Birds and Nesting Migratory Birds

Impact BIO-TERR-1k: The project has the potential to result in the permanent removal and temporary disturbance of habitat for special-status birds, including white-tailed kite, tricolored blackbird, grasshopper sparrow, loggerhead shrike, and golden eagle. This would be considered a

potentially significant impact.

# **Mitigation Measures**

#### **BIO-TERR-1k**

Avoid and Minimize Impacts on Nesting Birds: To the maximum extent practicable, the removal of structures and vegetation (trees, shrubs, and ground vegetation) shall take place during the non-breeding season for most migratory birds. This timing is highly preferable because if an active nest is found during preconstruction surveys in a tree (or other vegetation) that would be removed by project construction, the tree (or other vegetation) would not be allowed to be removed until the end of the nesting season or until the nestlings have fledged, which could delay construction. If vegetation cannot be removed during the non-nesting season, or if ground cover reestablishes in areas where vegetation has been removed, the affected area must be surveyed for nesting birds.

Should structure and vegetation removal activities occur between February 15 and September 30, a qualified biologist shall conduct preconstruction surveys for active nesting birds. If an active nest is found in the survey area, a no-disturbance buffer area will be established around the nest site to avoid disturbance or destruction of the nest until the end of the breeding season or until after a qualified wildlife biologist determines that the young have fledged and moved out of the project area (this timing varies by species). Buffers shall be developed by the biologist based on the species nesting behavior, their sensitivity to disturbance, the type or work taking place during the nesting season, and considering the surrounding topography and vegetation, which may attenuate noise and block visual disturbances. Buffers will be at a minimum of 50 feet from disturbance for more common ground

nesting birds and a minimum of 500 feet for tree nesting raptors. Initial reservoir filling shall begin outside the nesting season.

#### BIO-TERR-1m

Compensate for the Loss of Swainson's Hawk Foraging Habitat: The permanent loss of Swainson's hawk foraging habitat will be mitigated according to the guidance in the Staff Report Regarding Mitigation for Impacts to Swainson's Hawks (Buteo swainsoni) in the Central Valley of California (California Department of Fish and Game 1994). This guidance includes recommended mitigation ratios based on the proximity to an active nest (used during one or more of the last 5 years preceding the initiation of the activity). As noted previously, a pair of Swainson's hawks was observed within the study area between the California Aqueduct and I-5 in May of 2019.

#### **BIO-TERR-2**

Compensate for Effects on Riparian Habitat or Other Sensitive Natural Community: Riparian habitat shall be created or acquired and permanently protected to compensate for project effects to ensure no net loss of riparian habitat functions and values. Land that could be acquired could include acres upstream of the reservoir or elsewhere that satisfied appropriate compensation ratios. Compensation ratios shall be based on site-specific information and determined through coordination with state and federal agencies (CDFW, USFWS, USACE, SWRCB). The compensation shall be at a minimum 1:1 ratio (1 acre restored or created for every 1 acre filled) and may be a combination of offsite restoration/creation and mitigation credits. A restoration and monitoring plan shall be developed and implemented concurrently with project construction. The plan shall describe how riparian habitat will be created and monitored, including funding mechanisms and appropriate long-term management measures, and agency reporting requirements.

#### Impact BIO-TERR-5:

The project would result in loss of loss of habitat for sensitive species, seasonal wetlands, and riparian habitat, and the Stanislaus County General Plan requires mitigation for these effects. This would be considered a **potentially significant impact**.

**Findings:** Changes or alterations have been required in, or incorporated into, the project which avoid or substantially lessen the significant environmental effect identified in the Final EIR. The project has been revised to require implementation of Mitigation Measures BIO-TERR-1a, BIO-TERR-1k, BIO-TERR-1m, BIO-TERR-2 and BIO-TERR-5 and, as a result, this impact would be considered **less than significant** after mitigation.

Rationale: Implementation of Mitigation Measures BIO-TERR-1a and BIO-TERR-1k will avoid and minimize effects on special-status birds and nesting migratory birds. These measures will reduce the impacts on special-status and nesting migratory birds to less than significant because the potential for disrupting nesting and the potential injury and/or mortality will be avoided and minimized. Additionally, Mitigation Measure BIO-TERR-1m will mitigate for the loss of foraging habitat and Mitigation Measures BIO-TERR-2 and BIO-TERR-5 will mitigate

for the loss of riparian habitat and blue oak woodland habitat that could be used for nesting. Therefore, with the implementation of these measures, the impact will be less than significant.

# Effects on Swainson's hawk

Impact BIO-TERR-11: The project has the potential to result in the permanent removal and temporary disturbance of potential nesting and foraging habitat for Swainson's hawk. This would be considered a potentially significant impact.

# **Mitigation Measures**

**BIO-TERR-11** 

Avoid and Minimize Impacts on Swainson's Hawk: The Project Partners shall retain a wildlife biologist experienced in surveying for Swainson's hawk to conduct surveys for the species in the spring/summer prior to construction. The surveys shall be conducted within the limits of disturbance and in a buffer area up to 0.25 mile from the limits of disturbance. The size of the buffer area surveyed will be based on the type of habitat present and the line-of-sight from the construction area to surrounding suitable breeding habitat. Surveys shall follow the methods in Recommended Timing and Methodology for Swainson's Hawk Nesting Surveys in California's Central Valley (Swainson's Hawk Technical Advisory Committee 2000). A minimum of six surveys shall be conducted according to these methods. If a variance of the survey distance or number of surveys is necessary, the Project Partners shall coordinate with CDFW regarding appropriate survey methods based on proposed construction activities. Surveys generally will be conducted from February to July. Survey methods and results will be reported to the Project Partners and CDFW. Removal of trees within the reservoir inundation area shall take place outside the Swainson's hawk nesting season. Active Swainson's hawk nests within 600 feet of the areas of active construction activities shall be monitored by a wildlife biologist with experience in monitoring Swainson's hawk nests. The monitor shall document the location of active nests, coordinate with the Project Partners and CDFW, and record all observations in a daily monitoring log. The monitor shall have the authority to temporarily stop work if activities are disrupting nesting behavior to the point of resulting in potential take (i.e., eggs and young chicks are still in the nest, and adults appear agitated and could potentially abandon the nest). The monitor shall work closely with the contractor, the Project Partners, and CDFW to develop plans for minimizing disturbance, such as modifying or delaying certain construction activities. A minimum non-disturbance buffer of 600 feet (radius) shall be established around all active Swainson's hawk nests. No entry of any kind related to construction will be allowed within this buffer while the nest is active, unless approved by CDFW through issuance of an Incidental Take Permit or through coordination during project construction. The buffer size may be modified based on site-specific conditions, including line-of-sight, topography, type of disturbance, existing ambient noise and disturbance levels, and other relevant

factors. Entry into the buffer for construction activities shall be granted when the biological monitor determines that the young have fledged and are capable of independent survival, or that the nest has failed and the nest site is no longer active. All buffer adjustments shall be approved by CDFW.

BIO-TERR-1m Compensate for the Loss of Swainson's Hawk Foraging Habitat: The permanent loss of Swainson's hawk foraging habitat will be mitigated according to the guidance in the Staff Report Regarding Mitigation for Impacts to Swainson's Hawks (Buteo swainsoni) in the Central Valley of California (California Department of Fish and Game 1994). This guidance includes recommended mitigation ratios based on the proximity to an active nest (used during one or more of the last 5 years preceding the initiation of the activity). As noted previously, a pair of Swainson's hawks was observed within the study area between the California Aqueduct and I-5 in May of 2019.

**Findings**: Changes or alterations have been required in, or incorporated into, the project which avoid or substantially lessen the significant environmental effect identified in the Final EIR. The project has been revised to require implementation of Mitigation Measures BIO-TERR-1a, BIO-TERR-11 and BIO-TERR-1m, and, as a result, this impact would be considered less than significant after mitigation.

Rationale: Implementation of Mitigation Measures BIO-TERR-1a, BIO-TERR-11 and BIO-TERR-1m will reduce the impact on Swainson's hawk to less than significant because the potential for disrupting nesting behaviors and the potential injury and/or mortality will be avoided and minimized, and potential nesting habitat and suitable foraging habitat will be replaced and mitigated, respectively. Therefore, with the implementation of these measures, the impact will be less than significant.

Effects on special-status and non-special-status bats

Impact BIO-TERR-1m: The project has the potential to result in the permanent removal and temporary disturbance of habitat for bats. This would be considered a potentially significant impact.

# **Mitigation Measures**

#### BIO-TERR-1n

Avoid and Minimize Impacts on Bats: To avoid and minimize potential impacts on pallid bat, western red bat, and non-special-status bat species from the removal of trees and buildings, the Project Partners shall implement the following actions.

Preconstruction Surveys

Within 2 weeks prior to rock outcrop disturbance, tree removal, and any building demolition (e.g., sheds and other outbuildings), a qualified biologist shall examine rock outcrops to be disturbed, trees to be removed, and buildings planned for demolition for suitable bat roosting habitat. High-quality habitat features (e.g., deep crevices, large tree cavities, basal hollows, loose or peeling bark, larger snags, abandoned buildings) shall be identified, and the area around these features searched for bats and bat sign (e.g., guano, culled insect parts, staining). Riparian woodland and stands of mature broadleaf trees shall be considered potential habitat for solitary foliage-roosting bat species. If suitable roosting habitat and/or bat sign is detected, biologists shall conduct an evening visual emergence survey of the source habitat feature, from a half hour before sunset to 1–2 hours after sunset for a minimum of two nights. Full-spectrum acoustic detectors shall be used during emergence surveys to assist in species identification. Detectors shall be set to record bat calls for the duration of each night. All emergence and monitoring surveys shall be conducted during favorable weather conditions (calm nights with temperatures conducive to bat activity and no precipitation predicted). The biologist shall analyze the bat call data using appropriate software and prepare a report that will be submitted to the Project Partners and CDFW.

Timing of Rock Outcrop Disturbance, Tree Removal, and Building Demolition Rock outcrops, trees, and buildings planned for removal and demolition shall have exclusion devices installed between September 15 and October 31 to avoid affecting maternal and hibernating bat roosts. The exact timing of removal and demolition shall be determined based on the results of preconstruction surveys of rock outcrops, trees, and buildings (i.e., if it is determined bats are present).

# Protective Measures

Protective measures may be necessary if it is determined that bats are using rock outcrops, buildings or trees in the project footprint as roost sites, or if special-status bat species are detected during acoustic monitoring. The following measures shall be implemented when roosts are found within rock outcrops, trees, or buildings planned for removal according to the timing discussed above. Specific measures will be approved by the Project Partners and CDFW prior to excluding bats from occupied roosts.

- Exclusion from roosts will take place late in the day or in the evening to reduce the likelihood of evicted bats falling prey to diurnal predators and will take place during weather and temperature conditions conducive to bat activity.
- Biologists experienced with bats and bat evictions will carry out or
  oversee the exclusion tasks and will monitor rock outcrop disturbance, tree
  removal and building demolition if they are determined to be occupied.
- Trees that provide suitable roost habitat will be removed in pieces, rather than felling the entire tree and shall be done late in the day or in the evening to reduce the likelihood of evicted bats falling prey to diurnal predators, and will take place during warm weather conditions conducive to bat activity.
- Structural changes may be made to a known roost proposed for removal, to create conditions in the roost that are undesirable to roosting bats and encourage the bats to leave on their own (e.g., open additional portals so

that temperature, wind, light and precipitation regime in the roost change). Structural changes to the roost will be authorized by CDFW and will be performed during the appropriate exclusion timing (listed above) to avoid harming bats.

- Non-injurious harassment at the roost site, such as ultrasound deterrents or other sensory irritants, may be used to encourage bats to leave on their own.
- One-way door devices will be used where appropriate to allow bats to leave the roost but not to return.
- Prior to rock outcrop disturbance, building demolition, and/or tree removal/trimming and after other eviction efforts have been attempted, any confirmed roost site will be gently shaken or repeatedly struck with a heavy implement such as a sledge hammer or an axe. Several minutes shall pass before beginning disturbance, demolition work, and felling trees to allow bats time to arouse and leave the roost. A biological monitor will search downed vegetation for dead and injured bats. The presence of dead or injured bats will be reported to CDFW. Injured bats will be transported to the nearest CDFW-permitted wildlife rehabilitation facility.

#### **BIO-TERR-2**

Compensate for Effects on Riparian Habitat or Other Sensitive Natural Community: Riparian habitat shall be created or acquired and permanently protected to compensate for project effects to ensure no net loss of riparian habitat functions and values. Land that could be acquired could include acres upstream of the reservoir or elsewhere that satisfied appropriate compensation ratios. Compensation ratios shall be based on site-specific information and determined through coordination with state and federal agencies (CDFW, USFWS, USACE, SWRCB). The compensation shall be at a minimum 1:1 ratio (1 acre restored or created for every 1 acre filled) and may be a combination of offsite restoration/creation and mitigation credits. A restoration and monitoring plan shall be developed and implemented concurrently with project construction. The plan shall describe how riparian habitat will be created and monitored, including funding mechanisms and appropriate long-term management measures, and agency reporting requirements.

**Findings**: Changes or alterations have been required in, or incorporated into, the project which avoid or substantially lessen the significant environmental effect identified in the Final EIR. The project has been revised to require implementation of Mitigation Measures BIO-TERR-1a, BIO-TERR-1n and BIO-TERR-2, and, as a result, this impact would be considered **less than significant** after mitigation.

Rationale: Implementation of Mitigation Measures BIO-TERR-1a and BIO-TERR-1n will avoid disruption of roosting. Potential injury and/or mortality will be avoided and minimized, and potential tree roosting habitat will be replaced. Mitigation Measure BIO-TERR-2 will replace riparian woodland, which provides habitat for bats. Therefore, with the implementation of these measures, the impact will be less than significant.

# Effects on San Joaquin kit fox

Impact BIO-TERR-1n: The project has the potential to result in the permanent removal and temporary disturbance of habitat for San Joaquin kit fox and to create a barrier to dispersal. This would be considered a potentially significant impact.

## **Mitigation Measures**

# **BIO-TERR-10**

Avoid and Minimize Impacts on San Joaquin kit fox: The following measures have been adapted from the USFWS's U.S. Fish and Wildlife Service Standard Recommendations for Protection of the Endangered San Joaquin Kit Fox Prior to or During Ground Disturbance (Standard Recommendations) (U.S. Fish and Wildlife Service 2011). A qualified biologist shall conduct a preconstruction survey, within the limits of proposed temporary and permanent construction footprints in the habitat identified in Figure 4.5-5 of the EIR, no less than 14 days and no more than 30 days before the beginning of ground disturbance. The biologist shall conduct den searches by systematically walking transects spaced 30 to 100 feet apart through the action area. Transect distance shall be determined on the basis of the height of vegetation such that 100 percent visual coverage of the ground disturbing area is achieved. If dens are found during the survey, the biologist shall map the location of each den as well as record the size and shape of the den entrance; the presence of tracks, scat, and prey remains; and if the den was recently excavated. Dens shall be classified in one of the following four den status categories:

- Potential den: Any subterranean hole within the species' range that has entrances of appropriate dimensions for which available evidence is sufficient to conclude that it is being used or has been used by a San Joaquin kit fox (5 to 8 inches in diameter). Potential dens comprise: (1) any suitable subterranean hole; or (2) any den or burrow of another species (e.g., coyote, badger, red fox, or ground squirrel) that otherwise has appropriate characteristics for San Joaquin kit fox use.
- Known den: Any existing natural den or artificial structure that is used or
  has been used at any time in the past by a San Joaquin kit fox. Evidence of
  use may include historical records; past or current radio telemetry or
  spotlighting data; San Joaquin kit fox signs such as tracks, scat, and/or
  prey remains; or other reasonable proof that a given den is being or has
  been used by a San Joaquin kit fox.
- Natal or pupping den: Any den used by San Joaquin kit fox to whelp and/or rear their pups. Natal/pupping dens may be larger with more numerous entrances than dens occupied exclusively by adults. These dens typically have more San Joaquin kit fox tracks, scat, and prey remains in the vicinity of the den, and may have a broader apron of matted dirt and/or vegetation at one or more entrances. A natal den, defined as a den in which San Joaquin kit fox pups are actually whelped but not necessarily

reared, is a more restrictive version of the pupping den. In practice, however, it is difficult to distinguish between the two; therefore, for purposes of this definition either term applies.

 Atypical den: Any artificial structure that has been or is being occupied by a San Joaquin kit fox. Atypical dens may include pipes, culverts, and diggings beneath concrete slabs and buildings.

If no potential dens are present no further avoidance measures would be required. If potential San Joaquin kit fox dens are present, their disturbance and destruction shall be avoided. Results of the survey shall be submitted to USFWS and CDFW within one week of the completion of the survey and prior to the beginning of ground disturbance and/or construction activities likely to affect San Joaquin kit fox. If dens are located within the project footprint, the following avoidance buffers shall be applied:

- o Potential den 50 feet
- o Atypical den 50 feet
- o Known Den 100 feet
- o Natal/pupping den USFWS and CDFW shall be contacted for further guidance

If the den is within the construction footprint and/or reservoir inundation area and if avoidance buffers are not possible, then dens may be collapsed following the guidance in the Standard Recommendations.

Additional avoidance and minimization measures identified in the Standard Recommendations shall be implemented during construction in suitable kit fox habitat.

#### BIO-TERR-1p

Compensate for the Loss of San Joaquin Kit Fox Dispersal Habitat: To compensate for the loss of potential kit fox dispersal habitat, the Project Partners shall obtain conservation easements on properties along the I-5/California Aqueduct corridors from Sperry Avenue /Diablo Grande Parkway (at I-5) north to the area around Del Puerto Creek to improve San Joaquin kit fox dispersal habitat in this area. Suitable areas for conservation easements are located to the east of I-5 to the California Aqueduct or to the west of I-5 (in between I-5 and the proposed dam structure). Both areas currently have abandoned orchards with dense understories of herbs and grasses that are unusable for San Joaquin kit fox. Improvements may include but would not be limited to removing old orchards, implementing vegetation management to keep herbs and grasses short, improve conditions for ground squirrel colonization (e.g., remove thatch, discontinue rodent control measures), and provide artificial kit fox dens along this corridor. A final mitigation plan shall be developed with input from USFWS and CDFW during consultation with the agencies. The plan shall include measures for the long-term management of these lands for the benefit of San Joaquin kit fox dispersal and include adaptive management measures.

**Findings**: Changes or alterations have been required in, or incorporated into, the project which avoid or substantially lessen the significant environmental effect identified in the Final EIR. The project has been revised to require implementation of Mitigation Measures BIO-TERR-1a, BIO-TERR-1o and BIO-TERR-1p, and, as a result, this impact would be considered **less than significant** after mitigation.

Rationale: Implementation of Mitigation Measures BIO-TERR-1a, BIO-TERR-1o and BIO-TERR-1p will reduce the impact on the species to less than significant because they avoid and minimize the potential for disturbance, injury, and/or mortality, and mitigate effects on dispersal habitat by improving conditions along an existing potential corridor. Therefore, with the implementation of these measures, the impact will be less than significant.

# Effects on American badger

Impact BIO-TERR-10: The project has the potential to result in the temporary disturbance of American badgers and their habitat and permanent loss of badger habitat. This would be considered a potentially significant impact.

## **Mitigation Measures**

# BIO-TERR-1q

Avoid and Minimize Impacts on American Badger: A qualified biologist shall conduct a preconstruction survey, within the limits of proposed temporary and permanent construction footprints, no more than 30 days before the beginning of ground disturbance. The biologist shall conduct den searches by systematically walking transects spaced 30 to 100 feet apart through the action area. Transect distance shall be determined on the basis of the height of vegetation such that 100 percent visual coverage of the ground disturbing area is achieved. If dens are found during the survey, the biologist shall map the location of each den as well as record the size and shape of the den entrance; the presence of tracks, scat, and prey remains; and if the den was recently excavated. If no dens are found no further mitigation is necessary.

If potential American badger dens are located within the proposed work area and cannot be avoided during construction, a qualified biologist shall determine if the dens are occupied or were recently occupied using remote cameras, media tracking, or methodology coordinated with CDFW. If unoccupied, the qualified biologist shall request permission from CDFW to temporarily plug the burrow entrance with sand bags to prevent badgers from re-using them during construction, and or if necessary, to collapse these dens by hand. If occupied, the biologist shall consult with CDFW regarding best practices for encouraging the badger(s) to move to alternate dens outside the work areas, including excavation or construction of artificial dens.

**Findings**: Changes or alterations have been required in, or incorporated into, the project which avoid or substantially lessen the significant environmental effect identified in the Final EIR. The project has been revised to require implementation of Mitigation Measures BIO-TERR-1a and

BIO-TERR-1q, and, as a result, this impact would be considered **less than significant** after mitigation.

Rationale: Implementation of Mitigation Measures BIO-TERR-1a and BIO-TERR-1q will avoid disruption of badgers during construction. In addition, compensation in Mitigation Measures BIO-TERR-1m (Swainson's hawk compensation) and BIO-TERR-1p (San Joaquin kit fox corridors) will help offset the loss of habitat and impacts on dispersal corridors for American badger. These measures will avoid and minimize the potential for disturbance, injury, and/or mortality, and compensate for the loss of habitat. Therefore, with the implementation of these measures, the impact will be less than significant.

Impacts to riparian habitat and other sensitive natural communities

Impact BIO-TERR-2: The project would result in the loss of riparian woodland and riparian wetlands. This would be considered a potentially significant impact.

# **Mitigation Measure**

#### **BIO-TERR-2**

Compensate for Effects on Riparian Habitat or Other Sensitive Natural Community: Riparian habitat shall be created or acquired and permanently protected to compensate for project effects to ensure no net loss of riparian habitat functions and values. Land that could be acquired could include acres upstream of the reservoir or elsewhere that satisfied appropriate compensation ratios. Compensation ratios shall be based on site-specific information and determined through coordination with state and federal agencies (CDFW, USFWS, USACE, SWRCB). The compensation shall be at a minimum 1:1 ratio (1 acre restored or created for every 1 acre filled) and may be a combination of offsite restoration/creation and mitigation credits. A restoration and monitoring plan shall be developed and implemented concurrently with project construction. The plan shall describe how riparian habitat will be created and monitored, including funding mechanisms and appropriate long-term management measures, and agency reporting requirements.

**Findings**: Changes or alterations have been required in, or incorporated into, the project which avoid or substantially lessen the significant environmental effect identified in the Final EIR. The project has been revised to require implementation of Mitigation Measure BIO-2, and, as a result, this impact would be considered **less than significant** after mitigation.

Rationale: Implementation of Mitigation Measure BIO-2 will replace the riparian habitat functions and values lost as a result of project implementation. Therefore, with the implementation of this measure, the impact will be less than significant.

Impacts to state or federally protected wetlands

Impact BIO-TERR-3: The project would result in the loss of riparian wetlands, seeps,

seasonal wetlands and pond habitat. This would be considered a

potentially significant impact.

# **Mitigation Measure**

**BIO-TERR-3** Compensate for

Compensate for Adverse Effects on State or Federally Protected Wetlands: Suitable wetland habitat shall be created or acquired and permanently protected to compensate for project effects to ensure no net loss of wetland habitat functions and values. Compensation ratios shall be based on site-specific information and determined through coordination with state and federal agencies (CDFW, USFWS, USACE, SWRCB). The compensation shall be at a minimum 1:1 ratio (1 acre restored or created for every 1 acre filled) and may be a combination of offsite restoration/creation and mitigation credits. A restoration and monitoring plan shall be developed and implemented. The plan shall describe how wetland habitat will be created and monitored, including funding mechanisms and appropriate long-term management measures, and agency reporting requirements.

Findings: Changes or alterations have been required in, or incorporated into, the project which avoid or substantially lessen the significant environmental effect identified in the Final EIR. The project has been revised to require implementation of Mitigation Measure BIO-TERR-3, and, as a result, this impact would be considered **less than significant** after mitigation.

**Rationale:** Implementation of Mitigation Measure BIO-TERR-3 will ensure creation of suitable wetland habitat to replace the habitat functions and values that would be lost as a consequence of the project implementation. Therefore, with the implementation of these measures, the impact will be **less than significant**.

Impacts to movement of fish and wildlife and use of breeding areas

Impact BIO-TERR-4:

Project construction would temporarily disrupt movement through the project area and operation of the reservoir and relocated road would interfere with wildlife movement in the region. This would be considered a **potentially significant impact.** 

# **Mitigation Measures**

**BIO-TERR-4a** 

Implement Wildlife Crossings: Wildlife crossings and directional wildlife fencing will be incorporated into the new roadway. Crossings shall be composed of bridges and oversized culverts where possible. At all cut/fill locations, wildlife crossing will be considered; pre-engineered, prefabricated structures will be considered in lieu of fill. Crossings shall maximize structure height as much as possible to maximize openness and structure function for a

wide range of species including larger ungulates and species which prefer large crossing. Larger structures shall be a minimum of 15 feet in height. Wildlife crossings and fencing shall be designed using the most up-to-date road ecology and wildlife crossing manuals and handbooks.

#### BIO-TERR-4b

Wildlife Corridor Preservation and Enhancement: Wildlife connectivity and habitat between the proposed project and I-5 shall be conserved to the maximum extent possible in order to preserve a wide swath of habitat between I-5 and the proposed project. The conserved land shall be as wide as possible and shall incorporate habitat heterogeneity in order to facilitate the movement for a broad range of species.

#### **BIO-TERR-4c**

Roadway Wildlife Crossing Signage: Non-standard wildlife crossing warning signs shall be installed to alert and educate drivers to maintain the speed limit and stay alert for wildlife crossing the roadway. The signs shall engage drivers by providing explicit instructions. Flashing lights may also be used to draw driver attention to the signs.

Findings: Changes or alterations have been required in, or incorporated into, the project which avoid or substantially lessen the significant environmental effect identified in the Final EIR. The project has been revised to require implementation of Mitigation Measures BIO-TERR-4a, BIO-TERR-4b and BIO-TERR-4c and as a result, this impact would be considered less than significant after mitigation.

Rationale: Implementation of Mitigation Measures BIO-TERR-4a, BIO-TERR-4b and BIO-TERR-4c will avoid and minimize vehicle collisions and maintain the ability for wildlife to move through the region. Therefore, with the implementation of these measures, the impact will be less than significant.

Conflict with local ordinances or policies protecting biological resources

#### Impact BIO-TERR-5:

The project would result in loss of habitat for sensitive species, seasonal wetlands, and riparian habitat, and the Stanislaus County General Plan requires mitigation for these effects. This would be considered a **potentially significant impact**.

#### Mitigation Measures

#### **BIO-TERR-5**

Develop a Management Plan for the Protection and Enhancement of Oak Woodlands: Per Policy 4, 4.1, of the Stanislaus County General Plan, the Project Partners shall develop and implement a management plan for the protection and enhancement of oak woodlands to offset the loss of oak woodlands from the project. This plan will include measures for the protection, management, and enhancement of oak woodlands on lands that are acquired for the development of the reservoir but that are above the highwater line for the reservoir. A minimum of 1 acre of oak woodland shall be

preserved, managed, and monitored for every acre of oak woodland lost as a result of project implementation.

Findings: Changes or alterations have been required in, or incorporated into, the project which avoid or substantially lessen the significant environmental effect identified in the Final EIR. The project has been revised to require implementation of Mitigation Measure BIO-TERR-5, and, as a result, this impact would be considered less than significant after mitigation.

Rationale: Implementation of Mitigation Measure BIO-TERR-5 will ensure that mitigation is provided for sensitive habitats, and that conflicts with policies in the General Plan will be avoided. Therefore, with the implementation of these measures, the impact will be less than significant.

## 3.5 BIOLOGICAL RESOURCES - FISH

Impacts on special-status fish species

**Impact BIO-FISH-1:** 

Although the portion of Del Puerto Creek affected by the project has limited habitat for native fish species, the changes in Del Puerto Creek flows caused by the project could have a long-term impact on the supply of course-grained sediment to the San Joaquin River, which could affect white sturgeon spawning habitat. This would be considered a **potentially significant impact.** 

# **Mitigation Measures**

#### **BIO-FISH-1**

Spawning Gravel Monitoring and Mitigation: A spawning gravel mitigation and monitoring plan shall be developed and implemented by the Project Partners to address potential impacts on white sturgeon spawning habitat in the San Joaquin River. The goal of the plan will be to ensure no long-term deficits in the supply of gravel from Del Puerto Creek to the San Joaquin River. The plan shall include pre- and post-project measurements of bedload transport rates, channel morphology, and bed composition in lower Del Puerto Creek, and an implementation plan for augmenting gravel in this reach if monitoring detects a significant reduction in gravel loads to the San Joaquin River.

The purpose of pre-project monitoring would be to define baseline bedload transport rates and channel and bed characteristics prior to dam construction and operation. These measurements would serve as a reference point for evaluating changes in the sediment budget of lower Del Puerto Creek following dam construction. Existing modeling results of the sediment transport capacity of Del Puerto Creek near the proposed dam site and near its confluence with the San Joaquin River would be used to establish initial

estimates of gravel transport loads associated with the proposed environmental flow releases (≥ 500 cfs) (Woodard & Curran 2019). These estimates would be used in combination with pre- and post-project measurements of sediment transport and channel and bed characteristics to evaluate changes in the supply of gravel to the San Joaquin River.

A professional geomorphologist shall develop a detailed geomorphic monitoring and assessment plan that will be included as part of the mitigation and monitoring plan. Key components of the plan will include a statement of the goals and objectives, pre-project surveys to establish sediment transport and channel monitoring stations, and a detailed description of the sampling design and pre- and post-project monitoring and assessment methods. The number and location of monitoring stations shall be sufficient to characterize pre- and post-project trends in gravel inputs, storage, and outputs in lower Del Puerto Creek as well as associated changes in channel form (e.g., cross sections) and size composition of the bed material.

The need for post-project gravel augmentation will be based on the detection of significant changes in sediment (gravel) transport loads, channel form, and bed composition in lower Del Puerto Creek. Because the proposed environmental flow releases are expected to maintain the sediment transport capacity of the creek, any major deficits in the supply of gravel to the channel downstream of the dam would be expected to result in reductions in gravel transport loads and potential changes in channel and bed characteristics such as bed incision, bank widening, and bed coarsening. The following criteria are proposed as thresholds to determine substantial sediment deficits and the need for gravel augmentation:

- Post-project measurements of gravel transport loads during peak flow releases indicate that loads have been substantially reduced (>10%) relative to pre-project levels.
- A comparison of pre- and post-project channel characteristics (bed elevations, channel widths, and slopes) indicates a substantial change (>10%) in channel morphology associated with a sediment deficit.
- A comparison of pre- and post-project bed composition measurements indicates a substantial reduction (>10%) in the amount of gravel (2- to 64mm diameter) available for transport in the active channel of lower Del Puerto Creek.

Because the frequency of monitoring will be dictated by the frequency of major flow events and environmental releases, sediment and channel monitoring will be conducted over a sufficient period to encompass at least three major flow events (≥ 500 cfs) during the post-project monitoring period. Repeated measurements of sediment and channel characteristics over a number of years are necessary to detect major shifts in the sediment regime amid the variability in scour and fill dynamics that may occur over shorter time frames. Although it would be ideal to monitor an equal number of preproject events, this will likely not be possible because of the limited time frame before project implementation. In this case, the modeled or estimated

sediment transport capacity of the creek and the characterization of pre-project channel and bed characteristics will serve as the primary reference conditions for the post-project evaluation.

The spawning gravel mitigation and monitoring plan shall also include a description of the spawning gravel augmentation program that would be implemented if monitoring detects a significant reduction in the supply of gravel to the San Joaquin River. The plan will include a list of potential gravel sources (borrow or spoil sites<sup>1</sup>), a description of the methods for determining the locations of gravel placement sites, a description of the monitoring methods that will be used to ensure the effectiveness of mitigation, and a description of the implementation schedule, agency coordination requirements, funding commitments, reporting, and regulatory/permitting requirements of the program.

**Findings**: Changes or alterations have been required in, or incorporated into, the project which avoid or substantially lessen the significant environmental effect identified in the Final EIR. The project has been revised to require implementation of Mitigation Measure BIO-FISH-1 and, as a result, this impact would be considered **less than significant** after mitigation.

Rationale: Implementation of Mitigation Measure BIO-FISH-1 will reduce potentially significant impacts on white sturgeon spawning habitat by augmenting gravel supplies as necessary to maintain existing contributions of gravels to the San Joaquin River. Therefore, with the implementation of this measure, the impact will be less than significant.

## 3.6 CULTURAL RESOURCES

Impact CULT-3: Excavation activities associated with project construction could disturb previously unidentified human remains during project construction. This would be considered a **potentially significant impact**.

## **Mitigation Measures**

## CULT-3

Implement measures if construction activities inadvertently discover or disturb human remains: If human remains are discovered during any stage of construction, including disarticulated or cremated remains, the construction contractor will immediately cease all ground-disturbing activities within 100 feet of the remains and notify the Del Puerto Water District and the Stanislaus County Coroner. In accordance with California Health and Safety Code section 7050.5, no further disturbance will occur until the following steps have been completed:

• The Stanislaus County Coroner has made the necessary findings as to the origin and disposition pursuant to Public Resources Code section 5097.98.

<sup>&</sup>lt;sup>1</sup> Existing sites include the spoil site that is currently used for ongoing channel maintenance activities in Del Puerto Creek (California Department of Water Resources 2015).

• If the remains are determined by the County Coroner to be Native American, the Coroner shall notify NAHC within 24 hours.

A professional archaeologist with Native American burial experience will conduct a field investigation of the specific site and consult with the most likely descendant, if any, identified by the NAHC. As necessary and appropriate, the professional archaeologist may provide technical assistance to the most likely descendant, including the excavation and removal of the human remains.

**Findings:** Changes or alterations have been required in, or incorporated into, the project which avoid or substantially lessen the significant environmental effect identified in the Final EIR. The project has been revised to require implementation of Mitigation Measure CULT-3, which will reduce the potential for harm to human remains to **less than significant** after mitigation.

**Rationale:** Mitigation Measures CULT-3 will ensure that any human remains discovered during construction are treated with appropriate dignity. Therefore, with the implementation of these measures, the impact will be less than significant.

## 3.6 ENERGY RESOURCES

Impact ENE-1: Construction of the project requires use of fuels and excessive idling and other inefficient site operations could result in inefficient use of energy. This would be considered a **potentially significant impact**.

## **Mitigation Measures**

## AIR-1

Reduce NOx Emissions: NOx emissions associated with construction activities shall be reduced to 10 tons per year through on-site equipment and hauling vehicle mitigation measures to the extent feasible. All vehicles and equipment used during construction shall be maintained and properly tuned in accordance with the manufacturer's specifications. All equipment shall be checked by a certified mechanic and determined to be running in proper condition prior to operation. Emissions reduction methods may be chosen from any combination of the following measures:

- Use of alternative fueled vehicles
- Use of newer tier engines
- Use of phased material hauling trips
- Use of after-market pollution control devices to reduce emissions
- Lengthening the construction schedule to reduce the annual intensity of construction activities

After certification of the DEIR, but before emissions associated with proposed project activities begin, the Del Puerto Water District shall be responsible for producing a SJVAPCD-approved air quality impact assessment analysis to determine the projected maximum project emissions which incorporates the most current proposed equipment fleet, hours of operation, duration of work, and on-site NOx reduction measures, based on final project design and

phasing. If all feasible on-site measures have been implemented and annual emissions are anticipated to still be above 10 tons per year for NO<sub>X</sub>, then the Project Partners shall enter into a Voluntary Emissions Reduction Agreement (VERA) with SJVAPCD. The VERA would provide pound-for-pound mitigation of air emissions increases down to a net zero emissions per year as required under general conformity through a process that develops, funds, and implements emission reduction projects. To ensure emission reductions targeted by the VERA occur at the same time as project emissions, and thereby achieve net zero annual emissions, the Project Partners shall enter into a VERA with SJVAPCD prior to the release of NO<sub>X</sub> emissions associated with proposed project activities. SJVAPCD would serve as administrator of the emissions reduction projects and verifier of the successful mitigation effort.

Under the VERA, the Project Partners shall agree to mitigate project-specific emissions by providing funds for the SJVAPCD's Emission Reduction Incentive Program (ERIP). The funds would be disbursed by ERIP in the form of grants for projects that achieve emission reductions. Types of emission reduction projects that have been funded in the past include electrification of stationary internal combustion engines (such as agricultural irrigation pumps), replacing old heavy-duty trucks with new, cleaner, more efficient heavy-duty trucks, and replacement of old farm tractors. The Project Partners would request that funding disbursement priority would be given to emission reduction projects of Partner landowners. The initial agreement would generally be based on the projected maximum emissions increases as calculated by a SJVAPCD-approved air quality impact assessment and contain the corresponding maximum fiscal obligation. However, because the goal is to mitigate actual emissions, the SJVAPCD has designed flexibility into the VERA such that the final mitigation would be based on actual emissions related to the project as determined by actual equipment used, hours of operation, and duration of work. After the project is mitigated, the SJVAPCD would certify to the lead agency that the mitigation is completed, providing the lead agency with an enforceable mitigation measure demonstrating that project-specific emissions have been mitigated to less than significant.

Finding: Changes or alterations have been required in, or incorporated into, the project which avoid or substantially lessen the significant environmental effect identified in the Final EIR. The project has been revised to require implementation of Mitigation Measures AIR-1, which will serve to ensure efficient use of fuels thus reducing energy impacts to less than significant after mitigation.

Rationale: Mitigation Measure AIR-1 requires that engines be properly tuned and that restrictions on idling are enforced, thus reducing the impact to less than significant.

## 3.8 GEOLOGY AND SOILS

Impact GEO-1: The project would be subject to damage from groundshaking and landslides. This would be considered a potentially significant impact.

## **Mitigation Measures**

## GEO-1 Perform Design-Level Geotechnical Evaluations for Seismic Hazards:

During the design phase for the proposed project, the Project Partners shall prepare a design level Geotechnical Investigation and Report, The Geotechnical Investigation and Report shall further investigate and evaluate subsurface conditions, potential geohazards, and provide further project – specific information for development of excavation and construction plans and procedures. The geotechnical evaluations shall include appropriate sitespecific geotechnical investigations including those focused on the geologic units and soils of the project area that could become unstable as a result of the project and shall be based on the site conditions, location, and professional opinion of the geotechnical engineer. Investigations may include subsurface drilling, soil testing, and analysis of site seismic response to determine appropriate and feasible measures to be incorporated into the project design. A geotechnical interpretive report shall be prepared to detail the findings of the evaluations. The performance standard to be used in the geotechnical evaluations will be minimization of the hazards associated with seismic ground shaking, landslides, and subsidence. If the results of the geotechnical investigations indicate the presence of hazards, appropriate support and protection measures shall be designed and implemented.

Potential landslide mitigation measures that could be considered include avoidance of the feature, or reduction of vulnerability to the project through engineering design. Engineered mitigation options may include subddrains, dewatering, and/or systems to prevent surface water infiltration, and/or design of appropriate stabilization approaches to reduce driving forces and/or increase resisting forces, including retaining walls and mechanically stabilized embankments. Monitoring of the hazardous features including performance of any mitigation option will be included as part of the long-term operation and maintenance of the proposed project.

Recommendations provided in the Geotechnical Investigation and Report shall be incorporated into the final construction plans and specifications and shall augment the design and construction requirements of the California Department of Water Resources Division of Safety of Dams (DSOD) dam safety guidelines. Design of the project shall comply with all measures required by DSOD.

**Findings**: Changes or alterations have been required in, or incorporated into, the project which avoid or substantially lessen the significant environmental effect identified in the Final EIR. The project has been revised to require implementation of Mitigation Measure GEO-1, which will reduce the risks associated with groundshaking and landslides to **less than significant** after mitigation.

Rationale: Mitigation Measure GEO-1 will ensure that the design of the proposed project components would use detailed and site-specific data to ensure that final design and specifications of facilities would adequately address the risks associated with strong seismic groundshaking, landslides and other geotechnical hazards. Therefore, with the implementation of these measures, the impact will be less than significant.

Impact GEO-2: Project construction could result in erosion or loss of topsoil. This would be considered a potentially significant impact.

## **Mitigation Measures**

GEO-2 Prepare and implement a SWPPP and associated BMPs: Before any ground-disturbing activities begin, the Project Partners shall prepare a Project Specific SWPPP that will be implemented as part of the Construction General Permitting Process. The contractor hired by the Project Partners to implement the SWPPP shall review and certify they will implement the BMPS identified on the SWPPP, including an erosion control plan, and measures to eliminate construction waste measures to ensure that waters of the United States and the state are protected. The SWPPP shall include site design measures to minimize off-site stormwater runoff that might otherwise affect surrounding habitats. The Central Valley Regional Water Quality Control Board will review and monitor the effectiveness of the SWPPP through mandatory reporting by the Project Partners and the construction contractor as required.

The SWPPP shall be prepared with the following objectives:

- Identify all pollutant sources, including sources of sediment, that may affect the quality of stormwater discharges from construction of the project.
- Identify BMPs that effectively reduce or eliminate pollutants in stormwater discharges and authorized non-stormwater discharges from the site during construction to the Best Available Technology/Best Control Technology standard.
- Provide calculations and design details as well as BMP controls for site run-on that are complete and correct.
- Identify project discharge points and receiving waters.
- Provide stabilization BMPs to reduce or eliminate pollutants following construction.

The construction contractor shall implement the SWPPP, including all BMPs, and shall inspect all BMPs during construction. Potential SWPPP BMPs could include but would not be limited to the following:

- Preserve existing vegetation where possible.
- Roughen the surfaces of final grades to prevent erosion, decrease runoff, increase infiltration, and aid in vegetation establishment.
- Place riparian buffers or filter strips along the perimeter of the disturbed area to intercept pollutants before off-site discharge.

- Place fiber rolls around on-site drain inlets to prevent sediment and construction related debris from entering inlets.
- Place fiber rolls along down-gradient disturbed areas of the site to reduce runoff flow velocities and prevent sediment from leaving the site.
- Place silt fences down-gradient of disturbed areas to slow down runoff and retain sediment.
- Stabilize the construction entrance to reduce the tracking of mud and dirt onto public roads by construction vehicles.
- Stage excavated and stored construction materials and soil stockpiles in stable areas and cover or stabilize materials to prevent erosion.
- Stabilize temporary construction entrances to limit transport/introduction of invasive species and control fugitive dust emissions.

Findings: Changes or alterations have been required in, or incorporated into, the project which avoid or substantially lessen the significant environmental effect identified in the Final EIR. The project has been revised to require implementation of Mitigation Measure GEO-2, which will reduce the risks associated with expansive soils to less than significant after mitigation.

Rationale: Mitigation Measure GEO-2 will require that construction activities comply with the site specific and approved SWPPP to reduce the risk and impact associated with soil erosion and loss of topsoil. Therefore, with the implementation of these measures, the impact will be less than significant.

Impact GEO-3: The project would be subject to damage from seismic activity, landslides, lateral spreading, subsidence, and collapse. This would be considered a potentially significant impact.

## **Mitigation Measures**

# GEO-1 Perform Design-Level Geotechnical Evaluations for Seismic Hazards:

During the design phase for the proposed project, the Project Partners shall prepare a design level Geotechnical Investigation and Report. The Geotechnical Investigation and Report shall further investigate and evaluate subsurface conditions, potential geohazards, and provide further project specific information for development of excavation and construction plans and procedures. The geotechnical evaluations shall include appropriate sitespecific geotechnical investigations including those focused on the geologic units and soils of the project area that could become unstable as a result of the project and shall be based on the site conditions, location, and professional opinion of the geotechnical engineer. Investigations may include subsurface drilling, soil testing, and analysis of site seismic response to determine appropriate and feasible measures to be incorporated into the project design. A geotechnical interpretive report shall be prepared to detail the findings of the evaluations. The performance standard to be used in the geotechnical evaluations will be minimization of the hazards associated with seismic ground shaking, landslides, and subsidence. If the results of the geotechnical

investigations indicate the presence of hazards, appropriate support and protection measures shall be designed and implemented.

Potential landslide mitigation measures that could be considered include avoidance of the feature, or reduction of vulnerability to the project through engineering design. Engineered mitigation options may include subddrains, dewatering, and/or systems to prevent surface water infiltration, and/or design of appropriate stabilization approaches to reduce driving forces and/or increase resisting forces, including retaining walls and mechanically stabilized embankments. Monitoring of the hazardous features including performance of any mitigation option will be included as part of the long-term operation and maintenance of the proposed project.

Recommendations provided in the Geotechnical Investigation and Report shall be incorporated into the final construction plans and specifications and shall augment the design and construction requirements of the California Department of Water Resources Division of Safety of Dams (DSOD) dam safety guidelines. Design of the project shall comply with all measures required by DSOD.

Findings: Changes or alterations have been required in, or incorporated into, the project which avoid or substantially lessen the significant environmental effect identified in the Final EIR. The project has been revised to require implementation of Mitigation Measure GEO-1, which will reduce impacts to less than significant after mitigation.

Rationale: Mitigation Measure GEO-1 will ensure that the design of the proposed project components would use the design and construction measures from the Geotechnical Investigation and Report to mitigate potential on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse from geologic units or soils that are unstable or could become unstable due to the proposed project. Therefore, with the implementation of these measures, the impact will be less than significant.

Impact GEO-4: The project would be subject to damage from expansive soils. This would be considered a potentially significant impact.

## **Mitigation Measures**

# GEO-3 Perform Design-Level Geotechnical Evaluations for Soil Expansion:

During the design phase for all components of the project, a design-level geotechnical evaluation to determine the presence and characteristics of potentially compressible and expansive soils, the engineering properties of the foundation material, and the depth and thickness of soil layers will be completed. The results of the investigations will include measures that would reduce soil expansion to a less-than-significant level. Feasible mitigation measures could include removal and replacement of soil, deep foundations, or deep mixing of compressible or expansive soils with stabilizing agents. All mitigation measures included in the geotechnical evaluation will be incorporated into the project design specifications.

**Findings**: Changes or alterations have been required in, or incorporated into, the project which avoid or substantially lessen the significant environmental effect identified in the Final EIR. The project has been revised to require implementation of Mitigation Measure GEO-3, which will reduce the risks associated with expansive soils to **less than significant** after mitigation.

Rationale: Mitigation Measure GEO-3 will ensure that structures are designed to avoid damage from soil expansion and contraction. Therefore, with the implementation of these measures, the impact will be less than significant.

Impact GEO-5: The project area is highly sensitive for paleontological resources and excavation activities associated with project construction could disturb previously unidentified paleontological resources during project construction. This would be considered a **potentially significant impact**.

## **Mitigation Measures**

- Preparation and implementation of a Paleontological Resources
  monitoring and protection plan: A Paleontological Resources, Monitoring,
  and Protection Plan (Paleontological Plan) shall be prepared for the proposed
  project by a paleontologist or similar professional. The Paleontological Plan
  shall include BMPs to be followed by the contractor during construction of the
  proposed project. The Paleontological Plan may include, but is not limited to:
  - Processes and requirements for the observation of grading and earth disturbing activities to watch for fossils or other paleontological resources including identification of those construction activities/components of the proposed project that might require monitoring.
  - A process to follow if paleontological resources are discovered, including:
    - Stop all work and salvage unearthed fossil remains including simple excavation of exposed specimens or, if necessary, plaster-jacketing of large and/or fragile specimens, or richly fossiliferous deposits.
    - Record stratigraphic and geologic data to provide a context for the recovered fossil remains, typically including a detailed description of all paleontological localities within the project site, as well as the lithology of fossil-bearing strata within the measured stratigraphic section, if feasible, and photographic documentation of the geologic setting.
    - O Prepare collected fossil remains for curation, to include cleaning the fossils by removing the enclosing rock material, stabilizing fragile specimens using glues and other hardeners, if necessary, and repairing broken specimens.
    - O Curate, catalog and identify the fossil remains to the lowest taxon possible, inventory specimens, assign catalog numbers, and enter the appropriate specimen and locality data into a collection database.
    - o Transfer the cataloged fossil remains to an accredited institution (museum or university) in California that maintains paleontological collections for archival storage and/or display. The transfer shall

- include copies of relevant field notes, maps, stratigraphic sections, and photographs.
- O Prepare a Paleontological Resources Mitigation Report summarizing the field and laboratory methods used, the stratigraphic units inspected, the types of fossils recovered, and the significance of the fossils collected, and provide this report to the Project Partners, Stanislaus County, and appropriate paleontological programs/institutions near the proposed project site such as the University of California (Berkeley) Museum of Paleontology or the Natural History Museum of Los Angeles County.

The Paleontological Plan shall be reviewed and implemented by the Project Partners and the contractor.

**Findings:** Changes or alterations have been required in, or incorporated into, the project which avoid or substantially lessen the significant environmental effect identified in the Final EIR. The project has been revised to require implementation of Mitigation Measure GEO-4, which will reduce the potential for harm to paleontological resources to **less than significant** after mitigation.

Rationale: Mitigation Measure GEO-4 will ensure that paleontological resources discovered during construction are preserved and recorded, in compliance with CEQA requirements. Therefore, with the implementation of these measures, the impact will be less than significant.

### 3.2.10 HAZARDS AND HAZARDOUS MATERIALS

Hazardous materials use during construction

Impact HAZ-1: Construction requires use of hazardous materials including fuel, paints, solvents and glues and requires relocation of a petroleum pipeline that could be a source of contamination. Accidental release of hazardous materials would be considered a potentially significant impact.

## **Mitigation Measures**

# HAZ-1a Hazardous Materials Management and Spill Prevention Control Plan:

Before construction begins, the Project Partners shall require all construction contractors to develop and implement a Hazardous Materials Management and Spill Control Plan (HMMSCP) that includes project-specific contingency plan for hazardous materials and waste operations, including management of contaminated soil. The HMMSCP shall be reviewed and approved by Project Partners and shall establish policies and procedures consistent with applicable codes and regulations, including but not limited to the California Building and Fire Codes, as well federal OSHA and Cal/OSHA regulations. Any substance defined by the California Accidental Release Program as extremely hazardous would also require preparation of a Risk Management Plan. Elements of the HMMSCP shall include, but not be limited to the following:

- A discussion of hazardous materials management, including delineation of hazardous material storage areas, access and egress routes, waterways, emergency assembly areas, and temporary hazardous waste storage areas;
- Notification and documentation of procedures; and
- Spill control and countermeasures, including employee spill prevention/response training.

HAZ-1b

Preparation of Hazardous Materials Business Plan: If project operations involve the use, handling or storage of hazardous materials in excess of threshold quantities, prior to operation of the new facilities, Project Partners shall prepare and implement a Hazardous Materials Business Plan (HMBP) for the proposed project. The plan shall be prepared in accordance with the Hazardous Materials Business Plan Program (California Health and Safety Code, Section 25500, et seq., and the related regulations in CCR Title 19 Section 2620, et seq.), and shall be filed with the California Environmental Reporting System. The HMBP shall include a hazardous materials inventory, site plan, an emergency response plan, and requirements for employee training.

HAZ-1c

Implement Avoidance and Minimization Measures for Impacts Related to the Abandoned Oil Wells: During the project design phase, Project Partners shall verify exact locations of all wells where project construction would disturb the soil above the well location and shall mark the locations of wells for future reference. Special attention shall be paid to Wells 3 and 6, which are potentially located in the footprint of the reservoir inundation area and roadway realignment, respectively. For any well that is outside the project footprint but within 100 feet of the proposed construction area, Project Partners shall impose a 10-foot, no-build buffer zone around the well. If any wells are within the area that would be affected by construction or operation of the project. Project Partners shall determine if avoidance is feasible, and if the avoidance is not possible, Mitigation Measure HAZ-1d shall be implemented.

HAZ-1d

Management of Abandoned Oil Wells: For any wells determined to be within the proposed footprint of project facilities, Project Partners shall work with the California Geologic Energy Management Division (CalGEM) to ensure that any abandoned well within the inundation area of the Del Puerto Canyon Reservoir is abandoned to current standards. CalGEM will conduct a lease and site inspection for the well. If the well is determined to be hazardous it shall be re-abandoned to current standards. If any unknown wells are discovered during project construction CalGEM shall be notified immediately. Work on abandoned wells shall be permitted and approved by CalGEM. including any modifications, re-abandonment, or mitigation of leaking fluids or gas. Project Partners shall communicate pertinent information from CalGEM to the appropriate county recorder for inclusion in the title information of the subject real property. Physical access to any abandoned well shall be maintained in the event re-abandonment becomes necessary in the future. Rig access shall be maintained to allow a well servicing rig and associated necessary equipment to reach the well without disturbing the

HAZ-1e

surrounding infrastructure. Requirements for physical access shall be considered during design and shall be coordinated with CalGEM.

Soil Sampling and Disposal: Prior to acquiring property or obtaining easements for construction of project facilities, Project Partners shall complete a Phase I Environmental Site Assessment for soil and groundwater contamination and potential hazardous materials in structures. The recommendations set forth in the Phase I assessment shall be implemented to the satisfaction of applicable agencies before construction begins. If Phase I assessments indicate the potential for contamination, a Phase II Environmental Site Assessment shall be completed before construction begins. The Phase II assessment may include building material, soil and/or groundwater sampling and analysis for any anticipated contaminants. If the Phase I assessment identifies potential presence of contamination from agricultural activities, the Phase II Assessment would include evaluation of abandoned orchards to test for the presence of organochlorine pesticides (OCPs) in accordance with DTSC's Interim Guidance for Sampling Agricultural Properties. The Phase II sampling is intended to identify how to dispose of any potentially harmful material from excavations, and to determine if construction workers need specialized personal protective equipment while constructing the pipeline through that area. Contaminated soil will not be reused for backfill following excavation. If soil or groundwater contaminated by potentially hazardous materials is exposed or encountered during construction that was not identified in the Phase I assessment, the appropriate hazardous materials agencies shall be notified. If contaminated soils must be excavated and removed from the site, the removal of contaminated soil would be subject to the measures described under Mitigation Measure HAZ-1a.

**Findings:** Changes or alterations have been required in, or incorporated into, the project which avoid or substantially lessen the significant environmental effect identified in the Final EIR. The project has been revised to require implementation of Mitigation Measures HAZ-1a, HAZ-1b HAZ-1c, HAZ-1d, and HAZ-1e, which will reduce impacts from hazardous materials releases to **less than significant** after mitigation.

Rationale: Mitigation Measures HAZ-1a, HAZ-1b HAZ-1c, HAZ-1d, and HAZ-1e will ensure potential impacts related to the accidental release of hazardous materials or disturbance of contaminated soil would remain less than significant. Impacts related to abandoned oil wells will be avoided through project redesign or re-abandonment. Additionally, impacts related to the removal and relocation of the petroleum pipeline will be avoided by following proper procedures. Therefore, with the implementation of these measures, the impact will be less than significant.

# 3.11 HYDROLOGY AND WATER QUALITY

Water Quality Impacts

Impact HYD-1: Construction would include vegetation removal, grading, and excavation activities, which could result in increased sedimentation and erosion and could result in impacts to water quality. There is the potential that harmful algal

blooms (HABS) could occur in the reservoir. This would be considered a **potentially significant impact**.

## **Mitigation Measures**

HYD-1a Comply with General Order for Dewatering or Other Appropriate
NPDES Permit: To minimize the impacts to water quality from dewatering
activities, the Project Partners shall implement measures contained in the
General Order for Dewatering or other appropriate NPDES permit or Waste

Discharge Requirement.

HYD-1b Comply with Reclamation Monitoring Plan for Non-Project Water

**Pump-in:** To minimize impacts to water quality for downstream users of the CVP, the Project Partners shall implement a monitoring plan based on the *Delta Mendota Canal Non-Project Water Pump-in Program Monitoring Plan* (USBR 2018) to ensure compliance with Reclamation water quality standards. The monitoring plan will include sampling and testing of water quality prior to water entering the DMC. Contingency plans shall be implemented if water

quality does not meet Reclamation standards.

Prepare and implement a SWPPP and associated BMPs: Before any ground-disturbing activities begin, the Project Partners shall prepare a Project Specific SWPPP that will be implemented as part of the Construction General Permitting Process. The contractor hired by the Project Partners to implement the SWPPP shall review and certify they will implement the BMPS identified on the SWPPP, including an erosion control plan, and measures to eliminate construction waste measures to ensure that waters of the United States and the state are protected. The SWPPP shall include site design measures to minimize off-site stormwater runoff that might otherwise affect surrounding habitats. The Central Valley Regional Water Quality Control Board will review and monitor the effectiveness of the SWPPP through mandatory reporting by the Project Partners and the construction contractor as required. The SWPPP shall be prepared with the following objectives:

- Identify all pollutant sources, including sources of sediment, that may affect the quality of stormwater discharges from construction of the project.
- Identify BMPs that effectively reduce or eliminate pollutants in stormwater discharges and authorized non-stormwater discharges from the site during construction to the Best Available Technology/Best Control Technology standard.
- Provide calculations and design details as well as BMP controls for site run-on that are complete and correct.
- Identify project discharge points and receiving waters.
- Provide stabilization BMPs to reduce or eliminate pollutants following construction.

The construction contractor shall implement the SWPPP, including all BMPs, and shall inspect all BMPs during construction. Potential SWPPP BMPs could include but would not be limited to the following:

- Preserve existing vegetation where possible.
- Roughen the surfaces of final grades to prevent erosion, decrease runoff, increase infiltration, and aid in vegetation establishment.
- Place riparian buffers or filter strips along the perimeter of the disturbed area to intercept pollutants before off-site discharge.
- Place fiber rolls around on-site drain inlets to prevent sediment and construction related debris from entering inlets.
- Place fiber rolls along down-gradient disturbed areas of the site to reduce runoff flow velocities and prevent sediment from leaving the site.
- Place silt fences down-gradient of disturbed areas to slow down runoff and retain sediment.
- Stabilize the construction entrance to reduce the tracking of mud and dirt onto public roads by construction vehicles.
- Stage excavated and stored construction materials and soil stockpiles in stable areas and cover or stabilize materials to prevent erosion.
- Stabilize temporary construction entrances to limit transport/introduction of invasive species and control fugitive dust emissions.

Findings: Changes or alterations have been required in, or incorporated into, the project which avoid or substantially lessen the significant environmental effect identified in the Final EIR. The project has been revised to require implementation of Mitigation Measures HYD-1a, HYD-1b and GEO-2, and with the implementation of these measures, the project's impacts to water quality during construction and operation would be considered less than significant after mitigation.

Rationale: Mitigation Measures HYD-1 and GEO-2 will ensure implementation of management practices during construction to prevent violation of water quality standards or degradation of surface or groundwater quality. Mitigation Measure HYD-1b would ensure that discharges from the reservoir to the DMC meet Reclamation water quality standards. Therefore, with the implementation of these measures, the impact will be less than significant.

## **Groundwater Impacts**

Impact HYD-2: The DPCR would reduce flows in Del Puerto Creek which would reduce flows available for the City of Patterson storm water recapture and recharge project. This would be considered a **potentially significant impact**.

## **Mitigation Measures**

HYD-2 Develop Operation Requirements to Deliver Recharge Water to Lower Del Puerto Creek: The Project Partners shall develop an operations manual that describes water delivery to the lower reach of Del Puerto Creek below the

proposed dam to make up for lost natural seepage due to the proposed project. The manual shall provide releases, for the City of Patterson's benefit depending on water year type and Del Puerto Creek inflows, of up to 1,700 AFY. Such releases will augment existing/no-project in-stream recharge conditions.

**Findings:** Changes or alterations have been required in, or incorporated into, the project which avoid or substantially lessen the significant environmental effect identified in the Final EIR. The project has been revised to require implementation of Mitigation Measure HYD-2, and with the implementation of this measure, the project's impacts to groundwater during operation would be considered **less than significant** after mitigation.

Rationale: Mitigation Measures HYD-2 will deliver water to ensure no reduction in groundwater supply available to groundwater pumpers results from the proposed project, including reservation and release of flows for the City of Patterson's proposed future project. Therefore, with the implementation of this measure, the impact will be less than significant.

#### 3.12 LAND USE

Impact LU-1:

If transmission towers for the relocated power lines were located within areas zoned as highway commercial by the City of Patterson this would conflict with City zoning regulations. This would be considered a **potentially significant impact**.

## **Mitigation Measures**

LU-1

Minimize Transmission Structures in Highway Service Commercial Areas: The relocated transmission towers shall be sited to avoid areas zoned for highway service commercial use.

Findings: Changes or alterations have been required in, or incorporated into, the project which avoid or substantially lessen the significant environmental effect identified in the Final EIR. The project has been revised to require implementation of Mitigation Measure LU-1, and with the implementation of this measure, the project's conflict with land use plans would be considered less than significant after mitigation.

Rationale: Mitigation Measure LU-1 will limit the extent of the impact on highway service commercial areas and preserve the maximum amount of land possible for commercial use. Therefore, with the implementation of this measure, the impact will be less than significant.

## 3.13 TRAFFIC AND TRANSPORTATION

Construction Hazards and Emergency Access

Impact TR-3: Heavy trucks moving through the project area during construction of the project, could cause conflicts with regular users of the roadway network, increasing hazards. This would be considered a **potentially significant** impact.

Impact TR-4: During construction of the project, there is a potential that construction traffic would interfere with emergency access and circulation. This would be considered a potentially significant impact.

## **Mitigation Measure**

requirements:

# TR-2 Implementation of Construction Traffic Management Plan: The Project Partners shall prepare a detailed Construction Traffic Management Plan to address traffic conditions throughout the construction period. As part of the plan development, the Project Partners and their construction contractors shall meet with appropriate Stanislaus County, City of Patterson, and Caltrans departments to determine traffic management strategies to reduce, to the maximum extent feasible, traffic congestion and safety effects during construction of the proposed project. The Project Partners shall develop the plans for review and approval by the appropriate City, County and Caltrans departments. The plans shall include at least the following items and

- A. A set of comprehensive traffic control measures, including scheduling of major truck trips and deliveries to avoid peak traffic hours, detour signs if required, lane closure procedures, signs, cones for drivers, and designated construction access routes.
- B. Location of construction staging areas for materials, equipment, and vehicles at approved locations.
- C. A process for responding to, and tracking, complaints pertaining to construction activity, including identification of an on-site complaint manager. The manager shall determine the cause of the complaints and shall take prompt action to correct the problem.
- D. Provision for accommodation of pedestrians and bicyclists in the construction area.
- E. Provision for parking management and spaces on the project site for all construction workers to ensure that construction workers do not park on-street where insufficient shoulder space exists.
- F. A plan for restoration of pavement to pre-construction conditions after completion of all construction.
- G. Other items deemed necessary by the City, County and Caltrans during preparation of the Construction Traffic Management Plan.

**Findings:** Changes or alterations have been required in, or incorporated into, the project which avoid or substantially lessen the significant environmental effect identified in the Final EIR. The project has been revised to require implementation of Mitigation Measure TR-2, and with the implementation of these measures, the project's impacts to access during construction would be considered **less than significant** after mitigation.

Rationale: Mitigation Measure TR-2 will ensure that procedures to mitigate the potential for construction traffic to conflict with existing roadway users including emergency service

providers will be implemented through signage, establishment of construction routes, and appropriate staging areas. Impacts therefore would be reduced to less than significant.

V. B.

# DEL PUERTO WATER DISTRICT POLICY FOR DEBT MANAGEMENT

Section I. Introduction

## **Purpose and Overview**

This Debt Management Policy (the "Policy") establishes policies and procedures for the issuance and management of bonds, notes, installment purchase agreement to support certificates of participation, lines of credit, commercial paper, and other forms of indebtedness ("Debt") of Del Puerto Water District (the "District"). The purpose of the Policy is to identify Debt policy objectives, improve the quality of decision making processes, provide a basis for the determination of the appropriate structures, diversify the District's Debt portfolio (to the extent such is cost effective) to support its financial needs and to demonstrate a commitment to best practices in municipal debt management planning and execution.

The Board of Directors of the District (the "Board") may, in its sole discretion, approve Debt that deviates from this Policy, upon the recommendation of management after consultation with the District's Municipal Advisor. The failure of the District to comply with any provision of this Policy shall not affect the authorization or the validity or enforceability of any Debt that is otherwise issued in accordance with law. The District shall conduct an annual review and evaluation of the Policy. As appropriate, the District shall amend the Policy to be consistent with changes in the federal and state securities laws, pronouncements, rules, and regulations of the Internal Revenue Service ("IRS"), the Municipal Securities Rulemaking Board ("MSRB"), the Securities and Exchange Commission ("SEC"), the Settlement Agreement between the District and the SEC (the "SEC Settlement Agreement") and such other matters as the General Manager, or assigned designee deems necessary or desirable.

The District's overarching goal in issuing Debt is to respond to, and provide for the funding of capital projects and other financing needs of the District and its member agencies while ensuring that Debt is issued and managed prudently. Further, it is the intent of the policy to maintain a sound financial position.

The District believes that Debt can provide an equitable means of financing projects if (i) it meets the intent of equitable treatment of all District member agencies and operation and maintenance ("O&M") rate payers; (ii) it provides for an effective means of paying for assets over their useful lives in lieu of paying for the assets over a much shorter period with cash and thereby avoiding sharp spikes in water users' O&M rates, or charges paid by member agency land owners (the concept of intergenerational equity); (iii) it is fiscally prudent, responsible, and diligent under the prevailing economic conditions; and (iv) if there are other important policy reasons therefor.

The Board may waive any of the provisions of this Policy.

## Purpose for Borrowing

The District shall issue debt solely for the purpose of financing the cost of adding to or making

improvements to the District's facilities, including Bureau of Reclamation facilities or other state or federal facilities used to provide water to the District or its landowners, land acquisition, the acquisition of long-term water supplies, capacity in water supply, other improvements in accordance with the District's Capital Improvement Program ("CIP"), including costs of environmental review, design, acquisition, and/or construction of new facilities, or other Board-approved programs or for the refunding of prior debt.

The District may issue interim debt (such debt that the District expects to have outstanding temporarily until longer term financing may be issued), short term debt (such debt that has a final maturity of not more than five years from its date of issuance) and long-term debt (such debt that has a final maturity of more than five years from its date of issuance). The District will not issue Debt to fund improvements or to acquire capital assets without express approval of the Board. The District shall issue Debt only as provided for in this Policy.

# Roles and Responsibilities

The General Manager has authority and primary responsibility for debt management. The General Manager shall:

- Provide for the issuance of District debt at the lowest cost, commensurate with risk;
- Monitor the available debt capacity of the District;
- Consistent with Board approvals, provide for the issuance of District debt at appropriate intervals and in reasonable amounts as required to fund approved capital expenditures;
- Recommend to the Board the method and manner of sale of District debt;
- Monitor opportunities to refund debt and recommend such refunding as appropriate to reduce costs or to achieve other Policy objectives;
- Comply with all IRS, MSRB, and SEC rules and regulations governing the issuance of debt;
- Maintain a current database with all outstanding debt;
- Provide for the timely payment of principal and interest on all debt;
- Comply with all terms and conditions, and disclosure required by the legal documents governing the debt issued;
- Submit to the Board all recommendations to issue debt in accordance with the Policy;
- If required by a Continuing Disclosure Certificate, distribute on a timely basis to appropriate repositories information regarding the District's financial condition and affairs at such times and in the form required by law, regulation and general practice;
- Comply with any Disclosure Policy adopted by the District;
- Provide for the frequent distribution of pertinent information to the rating agencies; and
- Apply and promote prudent fiscal practices.

## **Internal Controls**

In order to comply with CDIAC rules and regulations promulgated pursuant to SB 1029 the following internal controls shall be followed:

The General Manager and the District's designated project manager for the project shall share responsibility to assure that disbursements are made only after each request for disbursement is

substantiated with appropriate invoices, requisitions and other supporting documentation. Each of the aforementioned shall thoroughly review any request for disbursement and may request further documentation as may be deemed appropriate.

Proceeds of any debt shall be managed and accounted for in accordance with its governing documents and this Policy. No disbursements shall be made without the written approval of the General Manager. All draw requests shall be provided to the District by the designated project manager for the project with the consent of the General Manager. Approval shall only be provided when the General Manager is in receipt of all appropriate certifications with supporting invoices from suppliers and or contractors evidencing appropriate expenses in connection with the project.

The District shall also comply with Government Code Section 5852.1 by disclosing specified good faith estimates in a public meeting prior to the authorization of the issuance of bonds.

# Section II. Legal Governing Principles

In the issuance and management of debt, the District shall comply with all legal constraints and conditions imposed by federal, state and local law. The following section highlights the key governing documents and certain debt limitations.

## **Governing Law**

Federal Tax Law – The District shall issue and manage debt in accordance with the limitations and constraints imposed by federal tax law, to maximize its ability to issue tax-exempt debt. Such constraints include, but are not limited to, private activity tests, review of eligible projects, spend-down tests, and arbitrage rebate limitations. In the discretion of the Board, taxable debt may be issued, however, if the requirements of federal tax law for tax-exempt Debt are not met.

Securities Law – The District shall comply with the applicable requirements of federal and state securities laws in offering District debt and the District shall comply with securities law requirements in providing ongoing disclosure to the securities markets.

## **Governing Legal Documents**

The District's issuance of debt is restricted in part by the Amended and Restated Joint Exercise of Powers Agreement, Administration Agreement, and any relevant District policies or resolutions (the "Debt Governing Documents"). The District shall comply with all limitations imposed under the Debt Governing Documents, so long as such are in full force and effect.

# Permitted Debt by Type

The District may legally issue both short-term and long-term debt, using the debt instruments described below. The General Manager, in consultation with the District's Bond Counsel and Municipal Advisor shall determine the most appropriate instrument for a proposed bond sale.

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JPA Revenue Bonds – The District would typically finance through the issuance of District revenue bonds or notes. These District bonds or notes would be secured by the general revenues of the District or payments received from landowners and others under activity agreements or other agreements.

Certificates of Participation – As an alternative, Certificates of Participation ("COP") provide debt financing through a lease, installment sale agreement or contract of indebtedness which are payable from net revenues, under the terms and conditions specified in the related governing documents.

**Revenue Notes** – The District may issue short-term indebtedness secured by revenues. The revenue notes will have a final maturity not exceeding five years from the date of issuance, unless expressly approved by the Board of Directors.

**Refunding Revenue Bonds** — The District is authorized to issue refunding revenue bonds to refund outstanding District indebtedness pursuant to the State of California local agency refunding revenue bond law (Articles 10 and 11 of Chapter 3 of Part 1 of Division 2 of Title 5 of the Government Code of the State of California).

Lines of Credit - The District may enter into financing arrangements with banks or other financial institutions providing for a source of funds that can be readily accessed by the District for capital needs.

Commercial Paper – The District may establish a commercial paper program ("Commercial Paper Program"). A Commercial Paper Program may be utilized and commercial paper notes may be issued from time to time to provide financing for projects, subject to the conditions that the projects and project financing will have prior approval from the Board. The District's commercial paper shall be payable from District specified revenues. The General Manager shall provide a written report to the Board twelve months following the initial issuance of commercial paper notes and annually thereafter so long as there is any commercial paper outstanding. The report shall summarize the status of projects financed with commercial paper; and identifying any long-term Debt issued to refund commercial paper notes.

**Private Placements/Direct Loans** - In the event the District chooses to proceed with a bank facility, or private placement of any form of Debt from a non-governmental entity, the District may issue a request for proposal from responsible and credit-worthy financial institutions. The request for bids shall include a description of the project and terms and conditions of the financing in accordance with prudent financial and industry standards. In awarding any Debt to a bank, or other financial institution, the District may consider interest rates, other fees, proposed terms and conditions, the experience of various banks as well as the ability of the proposed bank to close the transaction in a timely manner. The District will evaluate such loans on a case-by-case basis.

Government Sponsored Direct Loans - The District may enter into loan agreements with federal or state agencies. The District will evaluate such loans on a case-by-case basis. Prior to

entering into such loan, the District may consider alternative forms of Debt, interest rates, other fees, proposed terms and conditions, the history of completing such loans by the federal or state agency, the availability of likelihood of obtaining funding and the ability of the proposed government agency to close the transaction in a timely manner.

**Other Obligations -** There may be special circumstances when other forms of financing are appropriately utilized by the District. The District will evaluate such proposed transactions on a case-by-case basis. Such other forms include, but are not limited to, grant anticipation notes and judgment or settlement obligation bonds.

# **Ethical Standards Governing Conduct**

District Directors, District staff, and District consultants, service providers, and underwriters shall adhere to standards of conduct as stipulated by the California Political Reform Act, as applicable. All debt financing participants shall maintain the highest standards of professional conduct at all times, in accordance with:

- MSRB Rules, including Rule G-37, shall be followed at all times;
- Debt financing participants will assist the District staff in achieving its goals and objectives as defined in this Policy; and
- All debt financing participants shall make cooperation with the District staff a high priority.

## Section III. Integration of Capital Planning and Debt Activities

# **Evaluating Capital Improvement Program Spending**

The District shall develop a financial model to evaluate the impact of capital program spending, operations and maintenance costs, and debt service on its financial condition.

Towards that end, the General Manager shall oversee the ongoing maintenance of quantitative modeling that includes, but is not limited to, the following:

- Historic and projected cash flows;
- Historic and projected capital expenditures;
- Historic and projected operating costs;
- Historic and projected fund balances, including the Enterprise Fund, General Membership Fund, Special Revenue Funds, Private Purpose Trust Funds, Agency Funds, and Debt Service Reserve Funds, if any;
- Historic and projected debt service coverage, if applicable;
- Projected revenue requirements; and
- Projected rates and charges.

## Section IV. Transaction-Specific Policies

## Method of Sale for Publicly Offered Debt

Unless otherwise authorized by the Board, and because of the complexity of the District's credit, the issuance and sale of all District debt shall generally be achieved through a negotiated process. Unless otherwise justified and deemed necessary upon the recommendation of the General Manager, after consultation with the Municipal Advisor, the District will utilize a request for proposal process to select an underwriter, or underwriters, in connection with the sale of publicly offered Debt.

Competitive Bid Method — Upon Board approval, at the recommendation of the Director Finance and Administration, after consultation with the Municipal Advisor, the District shall sell debt on a competitive basis. Such bids may take the form of hand- delivered or electronically transmitted offers to purchase the bonds. District debt issued on a competitive bid basis will be sold to the bidder proposing the lowest true interest cost to the District provided the bid conforms to the official notice of sale.

Negotiated Bid Method – A negotiated bond issue will provide for the sale of debt by negotiating the terms and conditions of the sale, including price, interest rates, credit facilities, underwriter or remarketing fees, and takedown. The Board will provide by Resolution specific parameters (not-to-exceed amounts for principal, true interest cost and underwriting compensation) for the pre-approval of the negotiated sale of debt. The final terms of the negotiated bond issue will be reported to the Board upon completion of the transaction.

If bonds are sold on a negotiated basis, the negotiations of terms and conditions shall include, but not be limited to, prices, interest rates, underwriting or remarketing fees, and underwriting spreads. The District, with the assistance of its Municipal Advisor, shall evaluate the terms offered by the underwriter(s). Guidelines with respect to price, interest rates, fees, and underwriting spreads shall be based on prevailing terms and conditions in the marketplace for comparable issuers.

If more than one underwriter is included in the negotiated sale of debt, the District shall establish appropriate levels of liability, participation and priority of orders. Such levels shall be based upon District policy with regards to the underwriting responsibility among the team members (District Staff, Municipal Advisor, Bond Counsel, and Disclosure Counsel), the desired allocation of total fees, and the desired distribution of bonds. Guidelines for establishing liability, participation, and priority of orders shall be based on prevailing terms and conditions in the marketplace for comparable issuers.

The District shall, with the assistance of its Municipal Advisor, oversee the bond allocation process. The bond allocation process shall be managed by the lead underwriter, with the following requirements:

- The bonds are allocated fairly among members of the underwriter(s), consistent with the previously negotiated terms and conditions;
- The allocation process complies with all MSRB regulations governing order priorities and allocations;
- The lead underwriter shall submit to the General Manager a complete and timely account of

all orders, allocations, and underwriting activities with the investor names identified as appropriate.

The General Manager shall require a post-sale analysis and reporting for each negotiated bond sale. The Municipal Advisor or the lead underwriter may perform such analysis. A post-sale analysis will include, but not be limited to:

- Summary of the pricing, including copies of the actual pricing wires;
- Results of comparable bond sales in the market at the time of the District's pricing;
- Detailed information on orders and allocation of bonds, by underwriting firm;
- Detailed information on final designations earned by each underwriter; and
- Summary of total compensation received by each underwriter.

## **Structural Elements**

Maturity – The District may issue tax-exempt debt with an average life no greater than or equal to federal tax code requirements. Unless expressly approved by the Board at the recommendation of the General Manager after consultation with the Municipal Advisor and Bond Counsel the final maturity of fixed rate debt should be no longer than 35 years and the final maturity of variable rate debt should be no longer than 40 years. Factors to be considered to determine the final maturity of debt include: the average useful life of the capital assets being financed, relative level of interest rates, intergenerational equity and the year-to-year differential in interest rates. The District may not issue taxable debt with a final maturity longer than 50 years unless expressly approved by the Board at the recommendation of the General Manager after consultation with the Municipal Advisor and Bond Counsel.

Maturity Structure – The District's long-term debt may include serial and term bonds. Other maturity structures may also be considered if they are consistent with prudent financial management practices.

Coupon Structure – Debt may include par, discount, and premium bonds. Discount and premium bonds must be demonstrated to be advantageous relative to par bond structures, taking into consideration market conditions and opportunities. For variable rate debt, the variable rate may be based on one of a number of commonly used interest rate indices and the index will be determined at the time of pricing.

Variable Rate Debt — The District is authorized to issue variable rate debt including, but not limited to, public market indexed notes, indexed notes, or loans placed directly with financial institutions and other alternative variable rate and market access products as well as traditional variable rate demand obligations backed by bank liquidity facilities and unhedged floating rate debt. Prior to the issuance of variable rate debt, the savings and other possible advantages and disadvantages compared to a fixed rate borrowing shall be evaluated and a comparative analysis presented to the Board. Issuance of variable rate debt may be approved by the Board at the recommendation of the General Manager after consultation with the Municipal Advisor and Bond Counsel. Unless expressly approved by the Board, the District will not have, as of the date of issuance of any variable rate debt, a percentage of variable rate debt outstanding greater than

20% of the total principal amount of all debt outstanding.

**Debt Service Structure** – Debt service may be structured primarily on an approximate level (combined annual principal and interest) basis. Certain individual Debt issues, such as refunding Debt, or Debt issued to achieve a specific policy objective, may have debt service that is not level. However, on an aggregate basis, debt service should be structured primarily on a level basis.

Redemption Features – In order to preserve flexibility and refinancing opportunities, District debt will generally be issued with call provisions. Upon approval by the Board, the District may issue Debt with calls that are shorter than traditional and/or non-callable debt when warranted by market conditions and opportunities. For each transaction, the District will evaluate the efficiency of call provision alternatives.

Credit Enhancement – The District may competitively procure credit enhancement for a sale of Debt if the General Manager, in consultation with the Municipal Advisor and the lead underwriter, determines that to do so is in the District's financial interest.

**Debt Service Reserve Funds** – The District may provide for debt service reserve funds to secure District debt when necessary and recommended by the General Manager in consultation with the Municipal Advisor and the lead underwriter.

#### Section V. Communication and Disclosure

## Rating Agencies

The District, with the assistance of its Municipal Advisor, may secure one or more credit ratings on all Debt from any of the four major nationally recognized statistical rating organizations, provided it is economic to do so. The District shall seek to maintain its credit ratings once received through prudent fiscal management and consistent communications with the rating analysts. The General Manager shall manage relationships with the rating analysts assigned to the District's credit, using both informal and formal methods to disseminate information. Communication with the rating agencies shall include:

- Full disclosure on an annual basis of the financial condition of the District; which can be satisfied by providing the rating agencies then current rating on any debt of the District with the District's audited financial statements and continuing disclosure filings.
- Upon request of a ratings agency or when in the judgment of the General Manager as appropriate, a formal presentation, to the rating agencies, covering economic, financial, operational, and other issues that impact the District's credit;
- Timely disclosure of major financial events that impact the District's credit;
- Timely dissemination of the Financial Statements, following its acceptance by the District's Board; and
- Full and timely distribution of any documents pertaining to the sale of bonds.

## Section VI. Refunding Policies

The General Manager, with the assistance of the Municipal Advisor shall evaluate refinancing Debt to maximize savings and minimize the cost of funds as market opportunities arise. A net present value analysis will be prepared that identifies the economic effects of any refunding to be proposed to the Board. The District shall target a 3% net present value savings for current and 5% for advanced refunding transactions. Upon the advice of the General Manager, with the assistance of the Municipal Advisor and Bond Counsel, the District will consider undertaking refunding for other than economic purposes, such as to restructure debt, change the type of debt instruments being used, or to retire a bond issue and indenture in order to remove undesirable covenants.

Coupon on Refunded Bond – The General Manager may take into consideration whether the coupon on the refunded bond is significantly higher or lower than the most common outstanding bond coupons of approximately five percent.

General Interest Rate Environment – The General Manager may take into consideration whether the available refunding bond interest rates are generally high or generally low relative to long-term averages of historical rates.

General Interest Rate Outlook – The General Manager may take into consideration the general outlook for future interest rates, as derived from economic forecasts, market forecasts, implied forward rates, or other sources.

**Debt Management Considerations** – The General Manager may take into consideration debt management issues such as cost and staff efficiencies associated with combining multiple refunding bond issues or combining refunding and new money bond issues.

Call Date – The General Manager may take into consideration the amount of time between the pricing/closing date of the refunding debt and the call date of the debt to be refunded.

Final Maturity Date – The General Manager may take into consideration the amount of time remaining until the final maturity of the Debt to be refunded.

## Section VII. Reinvestment of Debt Proceeds

General – The District shall comply with all applicable Federal, State, and contractual restrictions regarding the use and investment of Debt proceeds. This includes compliance with restrictions on the types of investment securities allowed, restrictions on the allowable yield of some invested funds, as well as restrictions on the period over which some bond proceeds may be invested. To the extent that a bond issue is credit enhanced, the District shall adhere to the investment guidelines of the credit enhancement provider. Funds generated from the sale of land shall be used in accordance with the applicable bond covenants and documents. Bond counsel will be consulted to provide legal advice regarding the use of proceeds from the sale of District lands purchased with bond debt.

Requirements of Debt Governing Documents – The District will comply with all terms and

conditions of the appropriate legal documents related to each series of debt; including, but not limited to Permitted Investments in the Indenture.

#### Section VIII. Creation and Maintenance of Funds

The District maintains several different funds integral to the long-range financial planning process. Each of these funds is held for a specific purpose and can generally be categorized as either a proprietary, governmental, or fiduciary fund. The District will comply with all requirements and limitations created under its Debt Governing Documents.

## Section IX. Post-Issuance Compliance

## Tax Compliance / Arbitrage Liability Management

The District shall minimize the cost of arbitrage rebate and yield restrictions while strictly complying with tax law. Because of the complexity of arbitrage rebate regulations and the severity of non-compliance penalties, the District shall solicit the advice of Bond Counsel, Tax Counsel, and other qualified experts about arbitrage rebate calculations. The District shall contract with a qualified third-party for preparation of the arbitrage rebate calculation.

The District shall maintain an internal system for tracking expenditure of bond proceeds and investment earnings. The expenditure of bond proceeds shall be tracked in the financial accounting system by issue. Investment may be pooled for financial accounting purposes and for investment purposes. When investment of bond proceeds are co-mingled with other investments, the District shall adhere to IRS rules on accounting allocations.

## **Continuing Disclosure**

The District shall comply with the requirements of any Continuing Disclosure Certificate executed by the District at the time bonds are issued. Annual information provided by the District shall mirror certain selected information in any District Official Statement at the time of a primary offering. Annual financial information required by such Continuing Disclosure Certificate, if any, will be sent by the District or its designated consultant, to all Nationally Recognized Municipal Information Depositories (NRMSIRs) designated by the SEC and to the State Information Depository (SID), if one exists. In addition to annual disclosure, to the extent required by the Continuing Disclosure Certificate the District shall provide ongoing information about certain enumerated events, as defined by regulation, ("Material Events") to the NRMSIRs and to the SID.

The District may engage a firm to assist it in ensuring timely completion and filing of annual reports and in identifying, and making timely filings with respect to, the occurrence of reportable enumerated events.

## **Legal Covenants**

The District shall comply with all covenants and conditions contained in governing law and any



legal documents entered into at the time of a bond offering, including but not limited to rate covenants.

## **State Reporting Requirements**

Pursuant to Government Code section 8855(k), the District will submit annual debt transparency reports for any debt issued on or after January 21, 2017 every year until the later date on which the debt is no longer outstanding or the proceeds have been fully spent.

# Section X. Debt Database Management

The District shall maintain complete information on its Debt portfolio, in a spreadsheet or database program format. The information in the database shall include, but not be limited to, the following:

- Issue Name
- Initial Issue Par Amount
- Dated Date of the Issue
- Principal Maturity Amounts
- Coupon Rate by Maturity
- Amount Outstanding
- Call Provisions
- Purpose of the Issue
- Credit Enhancer, if any
- Competitive or Negotiated Sale
- Names of Underwriter(s)

The District shall use the debt database for the following purposes:

- Generate reports
- Gross annual debt service
- Net annual debt service
- Refunding Analyses
- Output to Fund Accounting System